2008 ANNUAL GROUNDWATER
MONITORING AND SITE CLOSURE
ASSESSMENT
FORMER SEARS AUTO CENTER #1058B
2600 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
CASE I.D. # STID 1082
FOR SEARS HOLDINGS MANAGEMENT
CORPORATION

URS Job No. 29863494 February 19, 2009

URS

February 19, 2009

Mr. Paresh Khatri Hazardous Materials Specialist Alameda County Environmental Health Services 1131 Harbor Bay Parkway, Number 250 Alameda, California 94502

Subject:

2008 Annual Groundwater Monitoring and

Site Closure Assessment

Former Sears Auto Center #1058B

2600 Telegraph Avenue Case I.D. # STID 1082

For Sears Holdings Management Corporation

Dear Mr. Khatri:

Submitted with this letter is the 2008 Annual Groundwater Monitoring and Site Closure Assessment Report prepared on behalf of Sears Holdings Management Corporation. Please feel free to contact me at (714) 648-2779 if you have questions or comments.

Respectfully Submitted,

URS CORPORATION

Joseph Liles, PG, CHG

Project Manager

cc:

Mr. Bruce Kaye, Sears Holdings Management Corporation

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1.0 Introduction

This report has been prepared by URS Corporation on behalf of Sears Holdings Management Corporation. It presents the results of the 2008 annual groundwater monitoring and Site closure assessment conducted at the former Sears Auto Center (Site) located at 2600 Telegraph Avenue in Oakland, California. A Site vicinity map is provided as Figure 1, and a plot plan showing the former facility and current well layout is provided as Figure 2. The groundwater monitoring event consisted of gauging, purging, and sampling nine monitoring wells (MW-1 through MW-9) and one extraction well (EW-1). The Site closure assessment consisted of advancing two soil borings in the vicinity of monitoring well MW-3 (Figure 2).

The purpose of the Site closure assessment and the groundwater monitoring event was to assess current soil and groundwater conditions in the vicinity of removed gasoline underground storage tanks (USTs), associated fuel dispensers and product piping, and removed motor oil and used oil USTs and to evaluate the Site for closure. The removed gasoline USTs, fuel dispensing system, motor oil USTs and used oil UST were associated with a former Sears Auto Center (Figure 2). The work is being performed under regulatory oversight of the Alameda County Environmental Health Services (ACEHS) pursuant to quarterly monitoring and reporting requirements under Title 23, Division 3, Chapter 16 of the California Code of Regulations.

A 2004 Groundwater Monitoring and Closure Assessment Report was submitted to ACEHS in June 2004. In response to ACEHS comments dated May 10, 2006, URS proposed two additional borings in the vicinity of MW-3 to assess the hydrocarbon impacts in the area (URS, December 2006). A copy of the September 11, 2008 ACEHS correspondence approving with comments the proposed scope of work for advancing two soil borings is provided in Appendix A. ACEHS also requested one additional round of groundwater sampling be completed for evaluation of Site closure (Appendix A).

2.0 SITE DESCRIPTION

The Site is located at 2600 Telegraph Avenue, Oakland California (Figure 1). It is bordered by 27th Street to the north, Telegraph Avenue to the west, 26th Street to the south, and commercial and residential buildings to the east (Figure 2). The property is occupied by a single-story commercial structure and associated parking lots.

2.1 REGIONAL GEOLOGY AND HYDROGEOLOGY

The Site is approximately 1.5 miles east of the San Francisco Bay and 3 miles west of the Diablo Range in Oakland, California. The Site is located on the eastern flank of the San Francisco Basin, a broad Franciscan depression. The basement rock of the basin is respectively overlain by the Santa Clara Formation, the Alameda Formation, and the Temescal Formation. These formations consist of unconsolidated sediments ranging in total thickness from approximately 300 feet to 1,000 feet. The Pleistocene Santa Clara Formation consists primarily of alluvial fan deposits that are interspersed with lake, swamp, river channel, and flood plain deposits. The overlying Alameda Formation was deposited in an estuary environment and consists of organic clays and alluvial fan deposits of sands, gravels, and silts. The uppermost Holocene Temescal Formation is an alluvial deposit ranging in thickness from 1 to 50 feet and consists primarily of silts and clays with a basal gravel unit (California Regional Water Quality Control Board [RWQCB], San Francisco Bay Region, June 1999).

Three types of shallow soils are typically found in the Site vicinity. These soil types include the Merrit sands, sandy silts, and clayey silts. The Merritt sands are primarily located in the flatlands area to the west of Lake Merritt. They are a fine-grained, silty sand with lenses of sandy clay and clay. The Merritt sands are typically characterized as having a low moisture content and high permeability. The sandy silts generally consist of unconsolidated, moderately sorted sand, silt, and clay sediments, with both fine-grain and course-grain materials. The sandy silts are typically characterized as having a medium moisture content and moderate permeability. The clayey silts are generally found along the San Francisco Bay and estuary, and in land fills from those areas. The clayey silts may contain organic materials, peaty layers and small lenses of sand. The clayey silts are typically characterized as having high moisture content and low permeability (City of Oakland Public Works Agency, 2000).

The Site is located within the Oakland sub-area of the East Bay Plain groundwater basin. The East Bay Plain groundwater basin encompasses approximately 115 square miles and is bounded by San Pablo Bay to the north, Alameda County to the south, the Hayward Fault to the east, and San Francisco Bay to the west. Existing beneficial uses of groundwater within the East Bay Plain basin include municipal and domestic water supply, industrial process water supply, industrial service water supply, and agricultural water supply (RWQCB, June 1995).

Groundwater flow direction in the basin typically follows surface topography. Historical high production wells in the Oakland sub-area were screened at depths greater than 200 feet below ground surface (bgs), beneath the Yerba Buena Mud Member of the Alameda Formation. The Yerba Buena Mud is a black organic clay with an average thickness of 25 feet to 50 feet that forms an aquitard between upper and

lower groundwater bearing units. From the 1860's until water importation programs were initiated in the 1930's, groundwater in the East Bay Plain was utilized as the primary municipal water source. Current beneficial uses of groundwater in the basin are minimal due to "readily available high quality imported surface water" (RWQCB, June 1999). Alameda County Well permit applications indicated 91% of groundwater wells within the basin are used for "backyard" or commercial irrigation, 8.6% of the wells are used for industrial process water, and 0.4% are used for drinking water supply (RWQCB, June 1999).

3.0 BACKGROUND

The Site consists of a Former Sears Auto Center converted to a commercial strip mall. A number of USTs were installed and operated in connection with the gasoline concession and auto center. Five 1,000-gallon motor oil USTs and one 2,000-gallon motor oil UST were previously located on the east side of the former auto center building. One 1,000-gallon used oil UST and two 10,000 gallon gasoline USTs were previously located on the west side of the former auto center building. The USTs were installed in the 1960s. The two 10,000-gallon USTs associated with the gasoline concession were removed prior to 1990. American Environmental Management Corporation (AEMC) removed all the USTs containing motor oil and used oil in September 1990 (AEMC, October 1990). The former UST locations are shown on Figure 2.

3.1 SOIL AND HYDROPUNCHTM SAMPLING

Soil samples collected by AEMC from the motor oil and used oil UST excavations in September 1990 contained concentrations of total petroleum hydrocarbons as gasoline (TPHg) up to 39 milligrams per kilogram (mg/kg). Soil samples collected from the motor oil and used oil UST excavations contained concentrations of total petroleum hydrocarbons as diesel fuel (TPHd) up to 4,400 mg/kg. Benzene was detected in soil samples at concentrations up to 12 micrograms per kilogram (µg/kg). Toluene was detected in soil samples at concentrations up to 310 µg/kg. Ethylbenzene was detected in soil samples at concentrations up to 410 µg/kg. Xylenes were detected in soil samples at concentrations up to 3,000 µg/kg. Trichloroethene was detected in two soil samples at concentrations up to 19 µg/kg. Tetrachloroethene was detected in three soil samples at concentrations up to 82 µg/kg. Acetone was detected in one soil sample at a concentration of 140 µg/kg.

Based on theses results, approximately 55 cubic yards of this impacted soil was excavated by AEMC during the motor oil and used oil UST removals and a subsequent excavation project. The excavated soil was transported from the Site and disposed at Gibson Asphalt Recylers in Bakersfield, California (AEMC, January 1991). Confirmation samples collected from the excavations contained less than 60 mg/kg of TPHd. Ethylbenzene and xylenes were detected in one soil sample at concentrations of 13 μg/kg and 14 μg/kg, respectively. These detections were below regulatory screening levels (Section 7.1).

AEMC conducted a Phase II assessment of soil and groundwater on the west side of the former auto Center in the areas of the removed gasoline and used oil USTs in February 1991 (AEMC, August 1991). Due to drill refusal, soil samples were not collected from depths greater than 15 feet bgs. TPHg was detected in soil samples at concentrations up to 6.3 mg/kg. TPHd were "non-detect" (ND) in all soil samples. Total petroleum hydrocarbons as oil and grease (TPHo) were detected in soil samples at concentrations up to 930 mg/kg. Benzene was detected in soil samples at concentrations up to 100 µg/kg. Toluene was detected in soil samples at concentrations up to 300 µg/kg. Ethylbenzene was detected in

soil samples at concentrations up to 170 µg/kg. Xylenes were detected in soil samples at concentrations up to $280 \mu g/kg$.

TPHg were detected in HydropunchTM groundwater samples collected during the AEMC Phase II assessment at concentrations up to 18,000 µg/L. TPH oil and grease were detected in HydropunchTM groundwater samples at concentrations up to 7,000 µg/L. Benzene, toluene, ethylbenzene and xylenes (BTEX) were detected in HydropunchTM groundwater samples at concentrations up to 240 μg/L.

URS conducted a Site closure assessment of soil on the east and west side of the former Auto Center in the areas of the removed gasoline and used oil USTs during February 2004 (URS, June 2004). The Site closure assessment consisted of advancing 14 soil borings, collecting and analyzing soil samples. The data were used to evaluate the Site for closure under the City of Oakland Urban Land Redevelopment (ULR) Program. TPHg was detected in soil samples at concentrations up to 1,780 mg/kg (CB8-5). TPHd was detected in soil samples at concentrations up to 202 mg/kg (CB5-10). TPHo was detected in soil samples at concentrations up to 1,430 mg/kg (CB5-10). Benzene was detected in one sample (CB7-20) at a concentration of 5.8 μg/kg. Toluene was detected in in soil samples at concentrations up to 1,630 μg/kg (CB8-5). Ethylbenzene was detected in soil samples at concentrations up to 39,000 µg/kg (CB8-5). Total xylenes were detected in soil samples at concentrations up to 160,000 µg/kg (CB8-5). Soil samples analyzed from borings CB2, CB4, CB6, CB9, CB11, CB12, and CB14 contained non-detect (ND) concentrations of BTEX and fuel oxygenates methyl tert-butyl ether (MTBE), di-issopropyl ether (DIPE), tertiary butyl ether (TAME), ethyl tertiary butyl ether (ETBE), and tertiary butyl alcohol (TBA).

3.2 GROUNDWATER SAMPLING

Since December 1992, a total of nine groundwater monitoring wells (MW-1 to MW-9) and one groundwater extraction well (EW-1) have been installed to evaluate the extent of petroleum hydrocarbon-affected groundwater beneath the Site. However, well EW-1 has never been utilized for groundwater extraction and has only been used for monitoring purposes. Groundwater monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5 have been monitored on a periodic basis since December 1992. Wells MW-6, MW-7, and MW-8 have been monitored on a periodic basis since December 1993. Wells MW-9 and EW-1 have been monitored on a periodic basis since December 1996.

The historical groundwater monitoring data indicate that separate phase product was periodically present in well MW-3 from September 1993 until August 2000, but has not been observed in subsequent quarterly/annual monitoring events. Historical chemical analysis results indicated that the separate phase product observed in well MW-3 consists of TPHg, TPHd, and TPHo.

The highest dissolved phase concentrations of TPHg, TPHd, TPHo, BTEX, and MTBE historically detected in groundwater samples collected from the Site are summarized in the following table:

Historical Maximum Concentrations in Groundwater

Analyte	Well	Concentration (μg/L)	Date of Detection
TPHg	MW-3	7,800	02/25/00
TPHd	MW-3	1,026	06/06/02
TPHo	MW-3	130,000	02/25/00
Benzene	EW-1	83	06/09/97
Toluene	MW-3	6	08/25/97
Ethylbenzene	MW-3	5	08/25/97
Total Xylenes	MW-3	27	11/15/95
MTBE	EW-1	30	02/12/98

A summary of the historical chemical analytical results for previous groundwater monitoring events is provided as Appendix B. It should be noted that the gasoline USTs were removed from the Site prior to the widespread use of MTBE, and the 1998 detected concentrations that were not confirmed by subsequent sample using EPA analysis method 8260B indicating that the MTBE detection may be "false positive".

HEALTH AND SAFETY PLAN 4.0

Pursuant to Health and Safety Code 1910.120, and prior to initiating the field activities, URS updated a site-specific Health & Safety (H&S) plan to:

- Identify and describe potentially hazardous substances which may be encountered during field operations;
- Specify protective equipment and clothing for onsite activities; and
- Outline measures to be implemented in the event of an emergency.

URS field personnel reviewed the H&S plan prior to commencing the field procedures. Field monitoring activities were recorded in the H&S Plan and maintained in the project files at URS's Santa Ana office. A copy of the H&S Plan remained onsite during field operations.

5.0 SITE CLOSURE ASSESSMENT

The scope of work completed for the Site closure assessment consisted of the following tasks;

- ♦ Updating a H&S Plan,
- Clearing proposed boring locations with Underground Service Alert,
- Advancing two soil borings to depths of approximately 20 feet bgs,
- Collecting soil samples at discrete intervals;
- ♦ Analyzing the soil samples for TPHg, TPHd, and TPHo by EPA Method 8015M, for volatile organic compounds (VOCs) including BTEX and MTBE by EPA Method 8260B, and for total lead by EPA Method 6010B.

The soil boring locations are shown on Figure 2. The Site closure assessment methods and results are presented in the following sections.

5.1 **UTILITY CLEARANCE**

In accordance with California Assembly Bill AB 73, Underground Services Alert (USA) was notified of our intent to conduct subsurface borings at least 48 hours prior to initiation of intrusive field tasks. The proposed subsurface boring locations were clearly marked with white paint as required by California Code 4216. USA contacted utility owners of record within the vicinity and notified them of our intention to conduct subsurface borings in proximity to buried utilities. The utility owners of record, or their designated agents, clearly marked the position of their utilities on the ground surface throughout the area designated for investigation.

An independent underground utility clearance survey was performed by Cruz Brothers Locaters, Inc. of Scotts Valley, California on December 22, 2008, at the proposed boring locations. The subsurface survey was conducted to locate and identify piping, conduit, and other subsurface structures or utilities in the vicinity of the proposed boring locations, which may not have been identified previously. electromagnetic line locator (RD-400) was used to identify potential subsurface utilities.

5.2 Soil Borings

Soil borings SB-01 and SB-02 were drilled with a MARL-25 direct push drill rig. The first 5 feet of each boring was hand-augered to assess the potential presence of subsurface utilities or other structures. The borings were drilled on December 23, 2008, by Gregg Drilling of Martinez, CA (C-57 License #485165).

Discrete soil samples were collected in soil borings SB-01 and SB-02 at 5-foot intervals to depths of approximately 20 feet bgs. Soil samples were collected utilizing a macrocore sampler (driven 24 inches) equipped with an acetate sleeve. Upon retrieval of the sampler at each sampling interval, the sample sleeve was separated and observed for possible staining. Soil samples analyzed for VOCs were collected using the current EPA Method 5035 protocol required by the RWQCB.

During drilling operations, a photo ionization detector (PID) was used to monitor the presence and level of organic vapors in the borings and soil cuttings, and to screen soil samples. Organic vapor readings were recorded on the boring logs prepared by the field geologist during drilling activities. The following sampling information was recorded on the boring log; boring number and location, sample identification numbers, time, sample depth, lithologic description in accordance with the Unified Soils Classification System (USCS), description of any visible evidence of soil contamination (i.e., odor, staining), and organic vapor readings. The boring logs for the completed borings (SB-01 and SB-02) are provided in Appendix C.

The sealed and labeled samples were logged on a chain-of-custody (COC) document, placed in an ice chest containing ice, and transported to a California Department of Health Services (DHS) accredited laboratory for analysis. The ice chest temperature was recorded at 4 degrees centigrade by the laboratory upon sample receipt. COC documentation was maintained throughout the sampling program and is included in Appendix D.

5.3 LABORATORY ANALYSIS PROGRAM FOR SOIL

A total of seven soil samples collected from the soil borings were submitted to Alpha Scientific Corporation (ASC), located in Cerritos, California. The soil samples submitted to ASC were analyzed for TPHg, TPHd, and TPHo by EPA Method 8015M, VOCs by EPA Method 8260B, and total lead by EPA Method 6010B. A summary of the chemical analytical results for the soil samples is provided in Table 1. Copies of the laboratory reports and COC documents are provided in Appendix D.

5.4 LABORATORY ANALYSIS RESULTS FOR SOIL

TPHg was detected in two soil samples collected from borings SB-01 and SB-02 at concentrations of 5.1 mg/kg (SB02-15) and 78.7 mg/kg (SB01-15). TPHd was detected in three soil samples collected from soil borings SB-01 and SB-02 at concentrations ranging from 16 mg/kg (SB01-20) to 187 mg/kg (SB01-15). TPHo was detected in three soil samples collected from soil borings SB-1 and SB-2 at concentrations ranging from 61 mg/kg (SB01-20) to 891 mg/kg (SB01-15).

Soil samples analyzed from borings SB-01 and SB-02 contained no detectable BTEX or fuel oxygenates MTBE, DIPE, TAME, ETBE, and TBA. Total lead was detected in the seven soil samples collected during this investigation at concentrations ranging from 6.1 mg/kg (SB02-20) to 8.7 mg/kg (SB01-5) which would be indicative of background conditions. Other VOCs detected above the laboratory reporting limits include the following: 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, tertbutylbenzene, and n-butylbenzene. Most of the chemical constituents were detected at 15 feet bgs. A summary of the analytical results for soil is included in Table 1. Copies of the laboratory report and COC documents are provided in Appendix D.

URS conducted a check of data completeness for the chemical analytical laboratory reports for soil samples collected during this project. Results indicate that "these data are considered to be useable for meeting project objectives." URS' Data Validation Report for soil is included in Appendix E.

5.5 **WASTE MANAGEMENT**

Drill cuttings and decontamination water were collected and stored in two 55-gallon DOT-approved drums. Containers were numbered and labeled with the date and contents to identify the source of the wastes. The containers were stored onsite in a designated area and properly disposed of by a licensed waste transporter contracted to Sears following review of the chemical analytical data.

6.0 ANNUAL GROUNDWATER MONITORING

The 2008 annual groundwater monitoring was performed on November 13 and 14, 2008. The monitoring consisted of gauging, purging and sampling nine monitoring wells (MW-1 through MW-9) and one extraction well (EW-1). A description of the monitoring procedures is presented below.

6.1 **GROUNDWATER GAUGING**

Prior to sampling, water levels were measured relative to the surveyed top of casing using a Solinst water level indicator. Water level data were recorded to the nearest 0.01 foot. Each groundwater monitoring well was also checked for the presence of separate phase product using a product interface probe. Separate phase product was not observed in any of the wells. Groundwater depths and elevations for the 2008 annual monitoring are listed in Table 2, and historical data are included in Appendix B.

6.2 GROUNDWATER SAMPLING

Groundwater samples were collected from the wells after purging approximately three casing volumes of well water using a Grundfos RediFlo 2TM submersible pump. The wells were purged at a rate of approximately 0.25 to 1.5 gallons per minute (gpm). Groundwater purged from the wells was monitored for various field parameters including temperature, pH, electrical conductivity, dissolved oxygen (DO), oxidation reduction potential (ORP), ferrous iron concentration and turbidity using a YSITM multiparameter meter equipped with a flow-through cell. Measured field parameters are listed in Table 2. Purge logs are provided in Appendix F. The "post-purge" groundwater samples were collected from the disposable discharge tubing of the sampling pump following well purging.

The downhole pump was cleaned prior to use and between wells by washing in a solution of Alconox and tap water, rinsing in tap water, final rinsing in deionized water, and air drying. Pre-cleaned, disposable, polyethylene discharge tubing was attached to the pump following each decontamination procedure and was changed between each well purging event. A blind duplicate sample was also collected from well EW-1 and labeled DUP-1. One equipment blank sample, labeled EB-1, was collected by pumping deionized water from a clean container through the pump and clean, disposable, polyethylene tubing into sample containers following decontamination procedures.

Sample containers and handling procedures conformed to the established protocols for each specific parameter as described in EPA SW-846. The sample bottles, once filled and preserved as required, were properly labeled. The label included well identification number, sample number, date and time sampled, job number, Site/client name and location, and sampling personnel's initials. The sealed and labeled samples were placed in an ice chest packed with ice and transported to ASC. The ice chest temperature was recorded at 4 degrees centigrade by the laboratory upon sample receipt. Chain-of-custody records were maintained throughout the sampling program, a copy of which is included in Appendix G.

6.3 Well Head Maintenance

As part of the quarterly monitoring program, each well head is inspected to ensure that wells are properly sealed and secured. The routine well maintenance associated with the quarterly groundwater sampling consists of: inspection of water-tight well caps and locks on all monitoring wells and replacement as necessary; replacement of missing or damaged bolts on well box covers; and removal and replacement of damaged well boxes and associated concrete aprons. During this event, URS observed three damaged wells: MW-1 has one broken eyelet; MW-6 has three broken eyelets, and MW-7 has one missing bolt.

6.4 LABORATORY ANALYSES

Groundwater samples were submitted to ASC for analysis. The groundwater samples, duplicate and equipment blank samples were analyzed for TPHg, TPHd, and TPHo by modified EPA Method 8015M. The samples were also analyzed for VOCs including BTEX, the fuel oxygenates MTBE, DIPE< ETBE, TAME, and TBA, ethanol, and the lead scavengers 1,2-dibromoethane (EDB) and 1,2-dichloroethane (EDC or 1,2-DCA). The trip blank was analyzed for TPHg by EPA method 8015M and VOCs by EPA Method 8260B. Analyses results for the groundwater samples are summarized in Table 3. Copies of the laboratory reports are included in Appendix G.

6.5 **WASTE MANAGEMENT**

Purge water and decontamination water were collected and stored in two 55-gallon DOT-approved drums. Containers were numbered, labeled with the date, and contents to identify the source of the wastes. The containers were stored onsite in a designated area and properly disposed by a licensed waste transporter contracted to Sears following review of the chemical analysis data.

6.6 **FINDINGS**

6.6.1 **Shallow Groundwater Conditions**

Historical groundwater measurements collected since June 1996 indicate that the potentiometric surface beneath the Site has fluctuated from approximately 9 feet to 14 feet bgs, or 12 feet to 18 feet above mean sea level (msl). The measured depth to water during the 2008 annual groundwater monitoring ranged from 10.37 feet (MW-5) to 12.22 feet (EW-1) bgs, and groundwater elevation ranged from approximately 12.73 (MW-9) feet to 16.54 feet (MW-5) above msl (Table 2). Groundwater elevation contours and groundwater flow vectors were generated by a geostatistical gridding method using SURFERTM, a graphical, contouring software program. The resultant groundwater contours indicate a southerly groundwater flow direction with a gradient of approximately 0.02. A groundwater elevation contour map, based on the 2008 annual groundwater monitoring water level measurements, is provided as Figure 3.

Laboratory Analytical Results 6.6.2

TPHg was detected in two of the ten groundwater samples (MW-3 and EW-1) with concentrations of 191 μg/L (MW-3) and 406 μg/L (EW-1), respectively. TPHd, TPHo, BTEX, the fuel oxygenates MTBE,

DIPE, ETBE, TAME, and TBA, the lead scavengers EDB and EDC, and ethanol were not detected above their respective method detection limits in all groundwater samples.

Chemical analysis results of the 2008 annual groundwater monitoring event are presented in Table 3. Copies of the laboratory reports and chain-of-custody documents are included in Appendix G. A Site map showing TPHg, TPHd, TPHo concentrations for the 2008 annual groundwater monitoring is provided as Figure 4. URS conducted a check of data completeness for the analytical laboratory reports. Results indicate that "these data, as qualified are considered to be useable for meeting project objectives." A copy of URS's Data Validation Summary is included as Appendix H.

7.0 SITE CLOSURE ANALYSIS

A Site closure analysis was conducted utilizing the data collected from the 14 soil borings completed in February 2004, the two soil borings completed in December 2008, and the historical groundwater monitoring data collected since 1992. The Site was evaluated for closure in accordance with the City of Oakland Urban Land Redevelopment (ULR).

7.1 SITE CLOSURE ASSESSMENT

The purpose of the Site closure assessment was to further characterize the nature and extent of residual petroleum hydrocarbon impacted soil related to the removed USTs and associated fuel dispensing system. The Site closure assessment consisted of advancing 14 soil borings (CB-1 through CB-14) in February 2004, and two soil borings (SB-01 and SB-02) in December 2008, to collect and analyze soil samples in the vicinity of two former 10,000 gallon gasoline USTs and related fuel dispensing system, one former 1,000 gallon used oil UST, five former 1,000 gallon motor oil USTs, and one former 2,000 gallon motor oil UST.

A total of 58 soil samples collected from these borings were analyzed for TPHg, TPHd, and TPHo by EPA Method 8015M, VOCs by EPA Method 8260B, and total lead by EPA Method 7420 or EPA Method 6010B. A summary of the analytical results for the soil samples collected from current borings SB-01 and SB-02 are shown on Table 1. A summary of the results from the 58 soil samples collected during both the February 2004, and the December 2008, sampling events is included as Appendix I. The range of detected concentrations for Chemicals of Concern at the Site are provided in the table below.

Range of Detected Chemicals of Concern Concentrations in Soil

Analyte	Number of Detections	Lowest Concentration Detected	Highest Concentration Detected
TPHg	21	0.6 mg/kg	1,780 mg/kg
TPHd	7	16 mg/kg	202 mg/kg
TPHo	6	61 mg/kg	1,430 mg/kg
Benzene	1		5.8 μg/kg
Toluene	3	7.3 μg/kg	1,630 μg/kg
Ethylbenzene	5	21.4 μg/kg	39,000 μg/kg
Total Xylenes	5	18.4 μg/kg	160,000 μg/kg
1,1,2-Trichloroethane	2	102 μg/kg	394 μg/kg
Naphthalene	13	5 μg/kg	20,200 μg/kg
Total Lead	20	2.8 mg/kg	41 mg/kg

mg/kg - milligrams per kilogram

 $\mu g/kg - micrograms \; per \; kilogram$

The highest TPHg and VOC concentrations were present in sample CB8-5, collected from boring CB8 at a depth of five feet bgs. Boring CB8 was located on the west side of the property near the southern end of the former fuel dispenser islands (Figure 2). Analytical results indicate TPHg and VOC concentrations at this boring location decrease significantly by a depth of 10 feet bgs and are non-detect at 15 feet bgs. Analytical results from adjacent borings suggest the TPHg and VOC concentrations significantly decrease laterally within a radius of 20 feet. These data indicate that the elevated concentrations in CB8-5 are an isolated shallow hot spot which is unlikely to represent a significant groundwater or human health threat.

Detectable concentrations of total lead are within acceptable background levels for an urban environment.

7.2 GROUNDWATER MONITORING

Results of the 2008 annual groundwater monitoring indicate that detectable concentrations of TPHg of 191 μg/L (MW-3) and 406 μg/L (EW-1) are present in groundwater samples collected from two of the ten wells. The two wells with detectable concentrations of TPHg are located downgradient of the former gasoline and used oil USTs. VOCs commonly associated with TPHg, such as BTEX, MTBE, ETBE, DIPE, TAME, TBA, EDB, and EDC were not detected in any of the groundwater samples collected during this sampling event.

In addition, there have been no measurable separate phase petroleum hydrocarbons in well MW-3 for 15 consecutive monitoring events. Benzene has not been detected in any groundwater samples collected from the wells since May 1999. Toluene has not been detected in any groundwater samples collected from the wells since August 1999. Ethylbenzene and total xylenes have not been detected in any groundwater samples collected from the wells since October 1999. A summary of the historical analytical data including time versus concentration graphs are provided in Appendix I.

Groundwater flow is towards the south with a gradient of about 0.02 foot per foot (ft/ft). Groundwater flow direction and gradient are consistent with previous monitoring events. Rose diagrams for historical groundwater gradient and flow direction based on the last 17 of 18 (including this event) monitoring events are included as Appendix J.

Based on the analytical results for this and previous sampling events, the groundwater monitoring well network effectively defines the extent of dissolved phase hydrocarbons onsite. Ten consecutive groundwater sampling events have demonstrated that natural attenuation is occurring, the impacted plume is stable (i.e., not migrating), and the plume size and concentrations are significantly reduced.

7.3 Preferential Pathway Study

In February 2004, URS completed a preferential pathway study for the Site which evaluated potential migration pathways and potential conduits for horizontal and vertical migration of hydrocarbons and VOCs in soil and groundwater (URS, June 2004). A detailed utility survey and well survey was conducted to evaluate the potential preferential pathways for migration.

URS contacted Underground Services Alert (USA) during February of 2004 to schedule a Site meeting with utility owners of record, or their designated agents, to evaluate the locations of underground utilities

within the Site vicinity. In addition, URS reviewed available maps of underground public utilities at the City of Oakland Building Department. The approximate locations of underground public utilities in the Site vicinity are provided on Figure 2. Cross-sections showing the approximate depths of the utilities are provided on Figure 5.

Underground utilities border the Site to the north on 27th Street, to the west on Telegraph Avenue, and to the south on 26th Street (Figure 2). The nearest underground utility to boring CB6 where the highest residual concentrations of petroleum hydrocarbons and VOCs were found is a natural gas line located on the east side of Telegraph Avenue. The gas line is located approximately 25 feet west of boring CB8 beyond the estimated lateral limits of petroleum hydrocarbon and VOC affected soil.

Survey data for wells in the Site vicinity was requested from the County of Alameda Public Works Agency in February 2004. The survey data were provided in May 2004 and included information on wells in Township 1 south, Range 4 west, Section 26 of the Diablo Base and Meridian. The survey data provided covered a minimum radius of 1/4-mile from the Site. A review of the data indicates there are no domestic, irrigation, municipal, or industrial groundwater wells in the Site vicinity. groundwater monitoring wells are located in the Site Vicinity. It is likely that most or all of these wells are completed in the shallow water bearing zones. A copy of the well survey data is provided in Appendix K.

The preferential pathway study shows there are minimal concerns for vertical or horizontal migration of residual hydrocarbons or VOCs to groundwater via underground utility trenches or groundwater wells. Available well data shows there are no domestic, irrigation, municipal, or industrial groundwater wells in the Site vicinity.

7.4 OAKLAND ULR PROGRAM

The Oakland ULR Program is a collaborative effort between the City of Oakland and environmental regulatory agencies including the Department of Toxic Substances Control (DTSC), the RWQCB, and the ACEHS to "facilitate cleanup and redevelopment of contaminated properties" within the City of Oakland (City of Oakland Public Works Agency, 2000). Sites can be evaluated using the Tier 1, Tier 2, or Tier 3 processes described in the Oakland ULR Program. A completed ULR eligibility checklist for the Site confirming Site eligibility is provided as Appendix L.

The Tier 1 and Tier 2 evaluation process consists of comparing existing concentrations of chemicals of concern in Site soil and groundwater to Tier 1 Risk-Based Screening Levels (RBSLs) or Tier 2 Site Specific Target Levels (SSTLs) provided in look-up tables included in the Oakland ULR Program Guidance Document. Copies of the Tier 1 RBSLs and Tier 2 SSTLs, last updated in January 2000, are provided in Appendix M. If chemicals of concern present on a site exceed the Tier 1 RBSLs, then the site may be evaluated under Tier 2 SSTLs which factors in specific soil types common to the Oakland area.

Soil data collected from the Site exceeded the Tier 1 RBSLs and therefore the site was evaluated using the Tier 2 SSTLs. The Tier 2 evaluation process consists of comparing existing concentrations of Chemicals of Concern in Site soil and groundwater to Tier 2 SSTLs provided in look-up tables included in the

Oakland ULR Program Guidance Document (City of Oakland Public Works Agency, 2000). A copy of the Tier 2 SSTLs, last updated in January 2000, is provided in Appendix M. The Tier 2 SSTLs factors in specific soil types are common to the Oakland area.

Table 4 shows concentrations of detected Chemicals of Concern in soil and corresponding SSTL values for subsurface soil collected in February 2004 and December 2008. Residual Chemicals of Concern in soil samples collected and analyzed from the closure assessment borings are below residential and commercial/industrial Tier 2 SSTLs for Merritt Sands for inhalation of indoor air vapors and outdoor air vapors.

Three soil samples (CB1-10, CB10-10, and CB8-5) contained concentrations of Chemicals of Concern (1,1,2-trichloroethane, ethylbenzene, total xylenes, and naphthalene) that exceeded subsurface soil Tier 2 SSTLs for Merritt Sands for ingestion of groundwater impacted by leachate (Table 4). However, well survey data for the Site vicinity shows shallow groundwater is not used as a drinking water source, and historical groundwater monitoring results show low to ND results for Chemicals of Concern. In addition, there is a minimum of five feet of clean soil between the three soil samples that exceed subsurface soil Tier 2 SSTLs for Merritt Sands for ingestion of groundwater impacted by leachate and groundwater. Therefore, these detections do not represent a significant threat to groundwater or public health.

Petroleum hydrocarbons are not listed in the Tier 2 SSTLs, therefore the ACEHS requested that the petroleum hydrocarbons be evaluated using the San Francisco Bay Area RWQCB established Environmental Screening Levels (ESL) for shallow soil (ACEHS, 2005, and RWQCB, 2001). URS evaluated the detected petroleum hydrocarbons using the RWQCB ESLs and results were provided in the November 29, 2006 correspondence. In addition, results are summarized below as follows; three soil samples collected during the February 2004 closure assessment exceeded the ESL of 100 mg/kg for TPHg (CB3-5 [645 mg/kg], CB8-5 [1,780 mg/kg], and CB10-10 [172 mg/kg]). However, there were no detections of TPHg in any of the deeper samples (10 and 15 feet bgs) collected above groundwater in borehole CB-3, and in one deeper sample (15 feet bgs) in boreholes CB-8 and CB-10. Therefore, these detections do not represent a significant threat to groundwater or public health.

In addition, one soil sample (SB01-15) collected during the December 2008 closure assessment exceeded the ELS of 100 mg/kg for TPHd, and one soil sample (CB5-10) collected during the February 2008 closure assessment exceeded the ELS of 100 mg/kg for TPHd and 1,000 mg/kg for TPHo. However, there were no detections of TPHd or TPHo in the one deeper sample (15 feet bgs) collected above groundwater in the CB5 borehole, and only a low concentration of 16 mg/kg, detected in the deeper sample (SB01-20) collected from SB01. Furthermore, TPHd has not been detected above the laboratory reporting limit in nearby wells MW-3 and EW-1 (located approximately 5 to 10 feet from boring SB01) since June 2002, or in nearby well MW-4 (located within 10 feet of boring CB-5) since June 2002, and TPHo has not been detected above the laboratory reporting limit in nearby well MW-4 since October 1999 (Appendix B). Therefore, these detections do not represent a significant threat to groundwater or public health.

0.8 Discussion

Based on the analytical results for this and previous sampling events, the groundwater monitoring well network effectively defines the extent of dissolved phase hydrocarbons onsite. Nine consecutive sampling events has demonstrated that natural attenuation is still occurring, the impacted plume is stable (i.e., not migrating), and the plume size and concentrations are significantly reduced. In addition, there have been no measurable separate phase petroleum hydrocarbons in well MW-3 for approximately eight years (15 sampling events).

During the closure assessment conducted in February 2004 and December 2008, there were only three soil samples that contained concentrations of 1,1,2-trichloroethane, ethylbenzene, total xylenes, and naphthalene that exceeded the subsurface soil Tier 2 SSTLs for Merritt Sands for ingestion of groundwater impacted by leachate (Table 4). However:

- These chemicals of concern were not detected in the groundwater samples collected from nearby well MW-5 (Table 3).
- Deeper soil samples in each boring did not exceed the Tier 2 SSTLs, indicating that there is a minimum of 5 feet of clean soil between the soil samples that exceed subsurface soil Tier 2 SSTLs and groundwater.

In addition, four soil samples contained concentrations of TPHg, TPHd, or TPHo that exceeded the RWQCB ESLs for shallow soil (<3 meters). However:

- There have been no detections of TPHg in groundwater samples collected from adjacent well MW-2 since June 1996.
- TPHg concentrations detected in EW-1 and MW-3 exceeded the groundwater screening level of 100 μg/L (for groundwater that is a potential drinking water resource) in wells EW-1 and MW-3, but did not exceed the screening level of 500 µg/L (for groundwater that is not a potential drinking water resource). However, due to the low well production rates (<0.5 gpm) at the Site, the shallow aquifer is unlikely to be a viable drinking water source.
- TPHd or TPHo concentrations in groundwater samples collected from well MW-2, MW-3, and EW-1, have not been detected above their respective laboratory reporting limits since September 2002, (Appendix B).
- Historical analytical results since the second quarter of 1996 indicate that TPHg and benzene concentrations in groundwater have, in general, shown a reduction in concentration (Appendix B).
- Soil sampling in December 2008 adjacent to the well MW-3, where free product was detected historically (below ESLs except for one TPHd detection) showed only low level impacts indicating that no significant smear zone exists around the well. This indicated that free product is unlikely to return.

Based on the results of the Site closure assessment, and historical groundwater monitoring data, URS recommends that no further action be required in relation to historical releases from the removed USTs and fuel dispensing system at the Site.

9.0 SCHEDULE

No additional work is scheduled for this Site at this time, pending a response from the ACEHS regarding the recommendation for Site closure.

Should you have any questions or comments, please do not hesitate to contact us.

Deeph Raymon Liles No. 8297

Respectfully Submitted,

URS CORPORATION

Joseph R. Liles, PG, CHG.

Project Geologist

Jerome R. Zimmerle, Jr., PE

Principal Engineer

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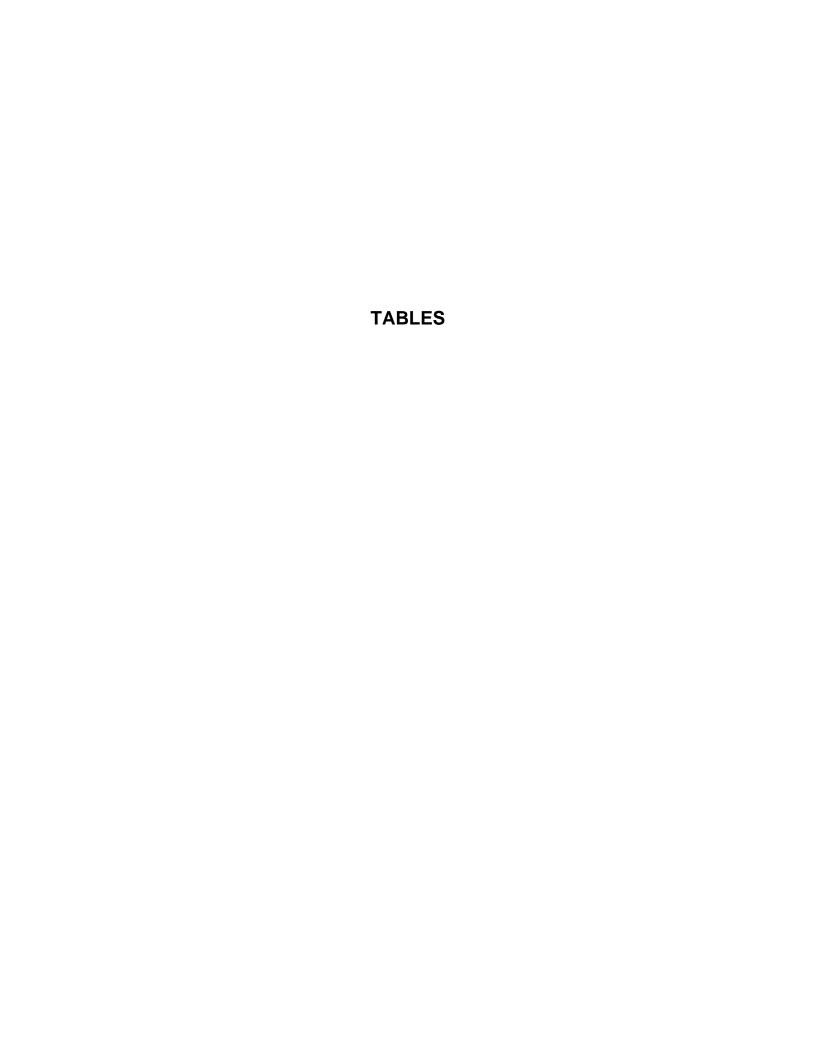


Table 1 Summary of Soil Analytical Results (December 2008) Former Sears Auto Center #1058B 2600 Telegraph Avenue Oakland, California

				LABORATORY ANALYTICAL RESULTS																
			TPH	TPH by EPA 8015M Volatile Organics by EPA 8260B												Lead by EPA 6010B				
Sample No.	Sample Date	Sample Depth (ft bgs)	mg/kg)	PH4LL (mg/kg)	oHAL (mg/kg)	т б б б б б	1,1,2-Trichloroethane	등 동 연 연	βά Joluene Θ	전 전 24 연 연	රිත් විත් වැන් Total Xylenes (ප	교 자 자 연	हिं 1,3,5-Trimethylbenzene	(전 전 (Sert-Butylbenzene (Sert-Butylbenzene	표 자기 1,2,4 Trimethylbenzene 연	সি সুস তি তি	be p-IsopropyItoluene	সি সি তির তির	전 전 27 26 26	Total Lead
SB-01-5	12/23/2008	(10 Sgs)	0	< 5		(PFS/11-S/		(mg/g/	< 1		(PS/S/	(FS/S/	(PB/11B/	< 2	(PB/B/		(ms/s/	(PS/11S/	(mg/g/	
		10	< 0.2	< 5	< 25	< 1	< 2	< 2	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	8.7
SB-01-10	12/23/2008	10	< 0.2	\ 3	< 25	< 1	\ _2	< 2	< I	< 1	< 2	< 2	< 2	< Z	< 2	< Z	< 2	< 2	< 2	8.0
SB-01-15	12/23/2008	15	78.7	187	891	< 5	< 10	< 10	< 5	< 5	< 10	< 10	8.4J	< 10	6.2J	94.1	< 10	304	< 10	7.4
SB-01-20	12/23/2008	20	< 0.2	16	61	< 1	< 2	< 2	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	6.7
SB-02-10	12/23/2008	10	< 0.2	< 5	< 25	< 1	< 2	< 2	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	6.7
SB-02-15	12/23/2008	15	5.1	54	313	< 2	< 4	< 4	< 2	< 2	< 4	< 4	< 4	58.4	< 4	5.2J	< 4	6.2J	< 4	7.4
SB-02-20	12/23/2008	20	< 0.2	< 5	< 25	< 1	< 2	< 2	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	6.1
Environmen	ntal Screening Le	vel (ESL)	100	100	1,000	44	70	NE	2,900	3,300	1,500	NE	NE	NE	NE	NE	NE	NE	NE	750

Notes: TPHg- Total Petroleum Hydrocarbons, gasoline range TPHd- Total Petroleum Hydrocarbons, diesel range

TPHo- Total Petroleum Hydrocarbons, oil range

(μg/kg) = micrograms per kilogram (mg/kg) = milligrams per kilogram $Environmental\ Screening\ Level\ (ESL)\ for\ Shallow\ Soils,\ San\ Francisco,\ RWQCB\ revised\ 9/4/03\ (Summary\ Table\ A)\ Bold\ Values\ exceed\ the\ respective\ ESL$

NE - ESL Not Established

ft bgs = feet below ground surface

< = Analyte not detected at or above indicated method detection limit

Page 1 of 1 $G:\label{lem:condition} G:\label{lem:condition} G:\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} G:\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} G:\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition}$

Table 2 2008 Annual Groundwater Levels and Field Parameters Former Sears Auto Center #1058B 2600 Telegraph Avenue

Oakland, California

					GROUND	WATER LEVEL	S	GROU	JNDWATER SA	MPLING FIEL	D PARAN	IETERS
Monitoring			Product	Depth to	Casing	Groundwater			Electrical			Dissolved
Well	Sample		Thickness	Groundwater	Elevation	Elevation	Temperature	pН	Conductivity	O.R.P.	Turbidity	Oxygen
ID	Date	Notes	(feet)	(feet bgs)	(MSL)	(MSL)	(Celsius)		(µS/cm)	(mV)	(NTU)	(mg/L)
MW-1	11/13/2008		0.0	11.02	26.19	15.17	23.44	6.29	610	31.5	9.6	0.44
MW-2	11/13/2008		0.0	10.62	26.41	15.79	23.20	6.42	732	51.9	18.3	1.06
MW-3	11/13/2008		0.0	12.00	26.23	14.23	21.55	6.58	815	-132.7	5.6	0.35
MW-4	11/13/2008		0.0	11.33	26.07	14.74	23.14	6.39	765	27.0	25.9	0.53
MW-5	11/13/2008		0.0	10.37	26.91	16.54	23.00	6.35	718	45.6	52.9	0.59
MW-6	11/13/2008		0.0	10.57	24.29	13.72	21.75	6.21	601	79.1	41.8	1.25
MW-7	11/13/2008		0.0	11.15	24.84	13.69	22.11	6.26	830	14.4	28.9	0.50
MW-8	11/13/2008		0.0	12.07	26.00	13.93	22.84	6.31	750	-40.6	26.8	0.54
MW-9	11/13/2008		0.0	11.94	24.67	12.73	21.23	6.52	743	-66.9	10.5	0.60
EW-1	11/13/2008		0.0	12.22	26.39	14.17	21.75	6.57	881	-135.7	3.5	0.36

Notes: MSL - Mean Sea Level

bgs - below ground surface

Groundwater Elevation reference to MSL

Groundwater Elevation = Casing Elevation - Depth to Groundwater.

NA - Not analyzed/Not available.

μS/cm - microSiemens per centimeter

mV - millivolt

mg/L - milligrams per liter

NTU - nephelometric turbidity units

O.R.P. - Oxidation Reduction Potential

Table 3 2008 Annual Groundwater Analytical Results Former Sears Auto Center #1058B 2600 Telegraph Avenue Oakland, California

Monitoring			TPH (l	EPA Method	1 8015M)				,	Volatile Orga	anics (EPA	Method 8	260B)				
Well	Sample		TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	ETBE	DIPE	TAME	TBA	EDB	EDC	Ethanol
ID	Date	Notes	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	$(\mu g/L)$	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-1	11/14/2008	1	< 50	< 500	< 2000	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 0.5	< 250
MW-2	11/13/2008	1	< 50	< 500	< 2000	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 0.5	< 250
MW-3	11/14/2008	1	191	< 500	< 2000	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 0.5	< 250
MW-4	11/13/2008	1	< 50	< 500	< 2000	< 0.5	< 0.5	< 0.5	< 1	1	< 1	< 1	< 1	< 10	< 1	< 0.5	< 250
MW-5	11/13/2008	1	< 50	< 500	< 2000	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 0.5	< 250
MW-6	11/13/2008	1	< 50	< 500	< 2000	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 0.5	< 250
MW-7	11/13/2008	1	< 50	< 500	< 2000	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 0.5	< 250
MW-8	11/13/2008	1	< 50	< 500	< 2000	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 0.5	< 250
MW-9	11/14/2008	1	< 50	< 500	< 2000	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 0.5	< 250
EW-1	11/14/2008	1	406	< 500	< 2000	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 0.5	< 250
EW-1	11/14/2008	1,2	394	< 500	< 2000	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 0.5	< 250
Environmental Screening		3	100	100	100	1	40	30	20	5	NE	NE	NE	12	0.05	0.5	50,000
Level (ESL)		4	500	640	640	46	130	290	100	1,800	NE	NE	NE	18,000	150	200	50,000

Notes: 1. "Post-purge" sample

2. Duplicate sample analysis.

3. Groundwater Screening Levels (groundwater is a current or potential drinking water resource)

4. Groundwater Screening Levels (groundwater is NOT current or potential drinking water resource)

NE - ESL Not Established

Detected concentrations are depicted in bold

< - Analytical result less than the method detection limit indicated.

μg/L - micrograms per liter

ESL - Environmental Screening Level (ESL) for groundwater, San Francisco,

RWQCB interim final (February 2005)

TPHg - Total Petroleum Hydrocarbons as gasoline range hydrocarbons by EPA Method 8015 (modified).

TPHd - Total Petroleum Hydrocarbons as diesel range hydrocarbons by EPA Method 8015 (modified).

TPHo - Total Petroleum Hydrocarbons as oil range hydrocarbons by EPA Method 8015 (modified)

MTBE - Methyl Tertiary Butyl Ether

DIPE - Di-isopropyl Ether

TAME - Tertiary Amyl Methyl Ether

TBA - Tertiary Butyl Alcohol

ETBE - Ethyl Tertiary Butyl Ether

EDB - 1,2-Dibromoethane EDC- 1,2-Dichloroethane

Table 4 Oakland Specific ULR Tier 2 SSTLs for Soil Former Sears Auto Center #1058B 2600 Telegraph Avenue Oakland, California

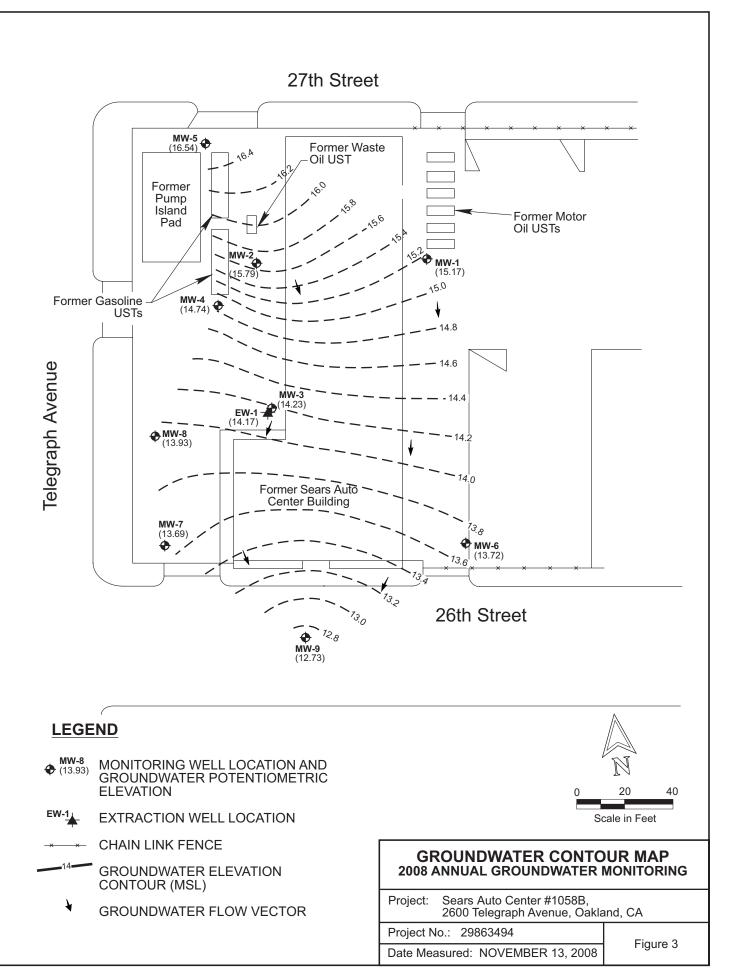
			Oakland-Specific Tier 2 SSTLs for Merritt Sands (mg/kg)												
			Inhala	tion of In	door Air Vapors	3	Inhalati	on of Ou	tdoor Air Vapor	s	Ingestion of Groundwater Impacted by Leachate				
	Detected Concentration (mg/kg)	Location and Depth	Residential		Commercial/ Indus		Resident Carcinogenic		Commercial/ Industria		al Residential		Commercial/ I		
Benzene	0.0058	CB7-20	0.7	2.3	11	67	3.9	16	15	91	0.01	0.01	0.01	0.01	
1,1,2-Trichloroethane	0.102	CB1-10	5.6	32	90	920	32	210	120	1200	0.043	0.043	0.043	0.043	
	0.394	CB10-10	5.6	32	90	920	32	210	120	1200	0.043	0.043	0.043	0.043	
Toluene	0.0116	CB1-10		370		SAT		SAT	_	SAT	4.2	4.2	4.2	4.2	
	0.0073	CB7-20		370		SAT		SAT		SAT	4.2	4.2	4.2	4.2	
	1.63	CB8-5		370		SAT		SAT		SAT	4.2	4.2	4.2	4.2	
Ethylbenzene	0.0214	CB1-10		SAT		SAT		SAT		SAT	38	38	38	38	
-	3.07	CB3-5		SAT		SAT		SAT		SAT	38	38	38	38	
	39	CB8-5		SAT		SAT		SAT		SAT	38	38	38	38	
	0.129	CB8-10		SAT		SAT		SAT		SAT	38	38	38	38	
	0.34	CB13-10		SAT		SAT		SAT		SAT	38	38	38	38	
Total Xylenes	0.022	CB1-10		SAT		SAT		SAT		SAT	64	64	64	64	
	2.89	CB3-5		SAT		SAT		SAT		SAT	b	64	64	64	
	0.0184	CB7-20		SAT		SAT		SAT		SAT	64	64	64	64	
	160	CB8-5		SAT		SAT		SAT		SAT	64	64	64	64	
	0.14	CB13-10		SAT		SAT		SAT		SAT	64	64	64	64	
Naphthalene	0.0106	CB1-5		SAT		SAT		SAT		SAT	5.8	5.8	5.8	5.8	
	0.0436	CB1-10		SAT		SAT		SAT		SAT	5.8	5.8	5.8	5.8	
	0.0076	CB2-5		SAT		SAT		SAT		SAT	5.8	5.8	5.8	5.8	
	3.8	CB3-5		SAT		SAT		SAT		SAT	5.8	5.8	5.8	5.8	
	0.033	CB4-5		SAT		SAT		SAT		SAT	5.8	5.8	5.8	5.8	
	0.0058	CB4-10		SAT		SAT		SAT		SAT	5.8	5.8	5.8	5.8	
	0.363	CB5-10		SAT		SAT		SAT		SAT	5.8	5.8	5.8	5.8	
	20.2	CB8-5		SAT		SAT		SAT		SAT	5.8	5.8	5.8	5.8	
	0.204	CB8-10		SAT		SAT		SAT		SAT	5.8	5.8	5.8	5.8	
	0.18	CB10-10		SAT		SAT		SAT		SAT	5.8	5.8	5.8	5.8	
	0.0114	CB11-15	·	SAT		SAT		SAT		SAT	5.8	5.8	5.8	5.8	
	0.135	CB13-10		SAT		SAT		SAT		SAT	5.8	5.8	5.8	5.8	
	0.005	CB13-20		SAT		SAT		SAT		SAT	5.8	5.8	5.8	5.8	

SAT = RBSL exceeds saturated soil concentration of chemical mg/Kg = milligrams per kilogram

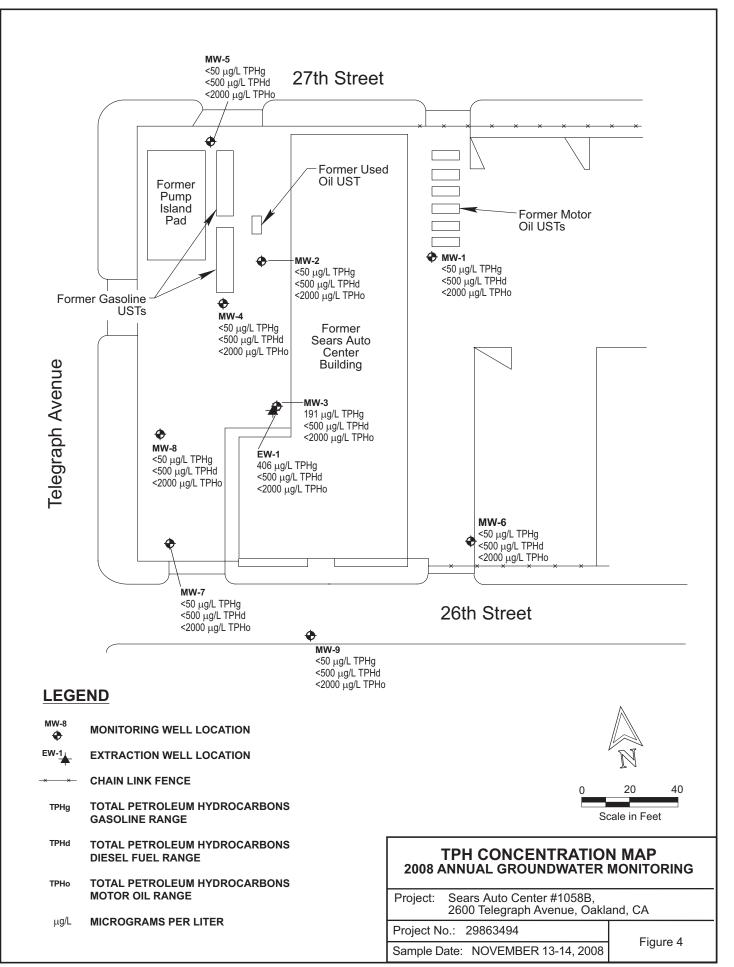


G:\128\Sears_128\Oakland\2600 Telegraph Ave\2008\Q4 2008 Groundwater\Figures\Figure 1_Vicinity Map.FH11





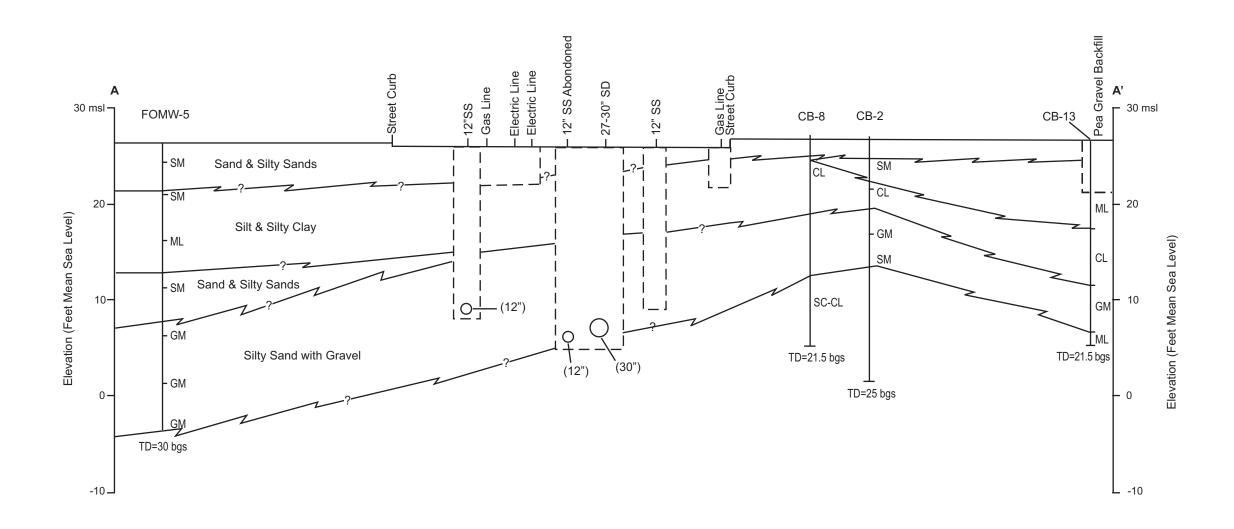






References

East Bay Municipal Utility Map 1488B484, Aug 2001
Oakland Building Department Sewer Map 1488B484, Nov 1977
Oakland Building Department Sewer Map 1488B482, Nov 1977
Pacific Gas and Electric Utility Map F-5-17
Pacific Gas and Electric Utility Map A-30152
Site Reconnaissance by URS Feb 17-18, 2004
Underground Service Alert Field Meeting Feb 17-18, 2004



LEGEND

bgs Below Ground Surface

TD Total Depth

Groundwater Well Screen Interval

SM USCS Soil Classification

Approximate Limits of Trenching

O Underground Piping

Confirmed Boring with USCS Classification

? Inferred Contact

Horizontal Scale: 1" = 40' Vertical Scale: 1" = 10'

GEOLOGIC CROSS SECTION A-A' SHOWING UNDERGROUND UTILITY LOCATIONS

Project: FORMER SEARS AUTO CENTER #1058B 2600 TELEGRAPH AVE., OAKLAND, CA

Project No.: 29863494

Drill Dates: Feb. 17-18, 2004

Figure 5



APPENDIX A ACEHS CORRESPONDENCE

ALAMEDA COUNTY HEALTH CARE SERVICES



DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

September 11, 2008

Mr. Bruce Kaye Sears, Roebuck and Co. 3333 Beverly Road, Dept. 824 Hoffman Estates, IL 60179

Subject: Fuel Leak Case No. RO0000480 and Geotracker Global ID T06019793739, Sears Auto Center, 2600 Telegraph Avenue, Oakland, CA 94612

Dear Mr. Kaye:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site including the recently submitted document entitled, "Response to Comments," dated December 20, 2006, which was prepared by URS Corporation (URS) for the subject site. To address concerns outlined in our May 10, 2006 correspondence, URS proposes to install two borings in the vicinity of monitoring well MW-3 to obtain current data and address the data gap and conduct a Tier 2 or Tier 3 Risk-Based Corrective Action evaluation.

ACEH generally concurs with the proposed scope of work and requests that you address the following technical comments, perform the proposed work, and send us the technical reports described below.

TECHNICAL COMMENTS

1. Groundwater Contaminant Plume Monitoring – The most recent groundwater sampling event was conducted in February 2004. The reported laboratory analytical detection limits during that groundwater monitoring event were significantly elevated, above the respective Environmental Screening Levels (ESLs) for that chemical of concern. Therefore, it is difficult to determine whether the chemical of concern is present at a concentration that may require additional evaluation. At this time, please conduct one round of groundwater sampling not only to obtain current data, but to obtain laboratory detection limits below the ESLs or site-specific calculated Risk-Based Screening Levels. Please conduct the groundwater sampling and submit the results in the report due by the date specified below.

Based on the results of the pending subsurface investigation and justification that no additional data gaps exists and the site no longer poses a risk to human health or the environment, the Site can be reviewed for Case Closure.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Paresh Khatri), according to the following schedule:

Mr. Kaye RO0000480 September 11, 2008, Page 2

December 10, 2008 – Soil and Water Investigation Report with Groundwater Monitoring

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/electronic_submittal/report_rgmts.shtml.

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature,

Mr. Kaye RO0000480 September 11, 2008, Page 3

and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 777-2478 or send me an electronic mail message at paresh.khatri@acgov.org.

Sincerely,

Paresh C. Khatri

Hazardous Materials Specialist

Donna L. Drogos, PE

Supervising Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Joseph R. Liles, URS Corporation, 2020 East First Street, Suite 400, Santa Ana, CA 92705 Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032

Donna Drogos, ACEH Paresh Khatri, ACEH

File

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)

ISSUE DATE: July 5, 2005

REVISION DATE: December 16, 2005

PREVIOUS REVISIONS: October 31, 2005

SECTION: Miscellaneous Administrative Topics & Procedures

SUBJECT: Electronic Report Upload (ftp) Instructions

Effective **January 31, 2006**, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as a single portable document format (PDF) with no password protection. (Please do not submit reports as attachments to electronic mail.)
- It is preferable that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements must be included and have either original or electronic signature.
- Do not password protect the document. Once indexed and inserted into the correct electronic case file, the
 document will be secured in compliance with the County's current security standards and a password.
 Documents with password protection will not be accepted.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#_Report Name_Year-Month-Date (e.g., RO#5555 WorkPlan 2005-06-14)

Additional Recommendations

A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in Excel format.
 These are for use by assigned Caseworker only.

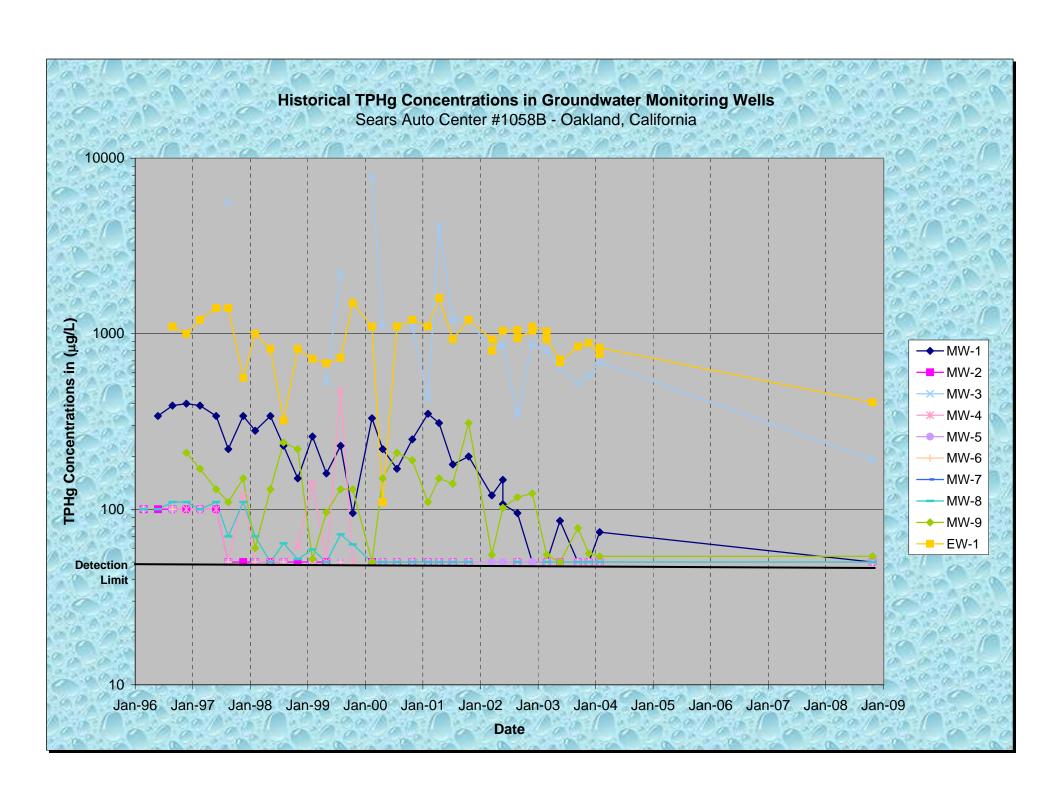
Submission Instructions

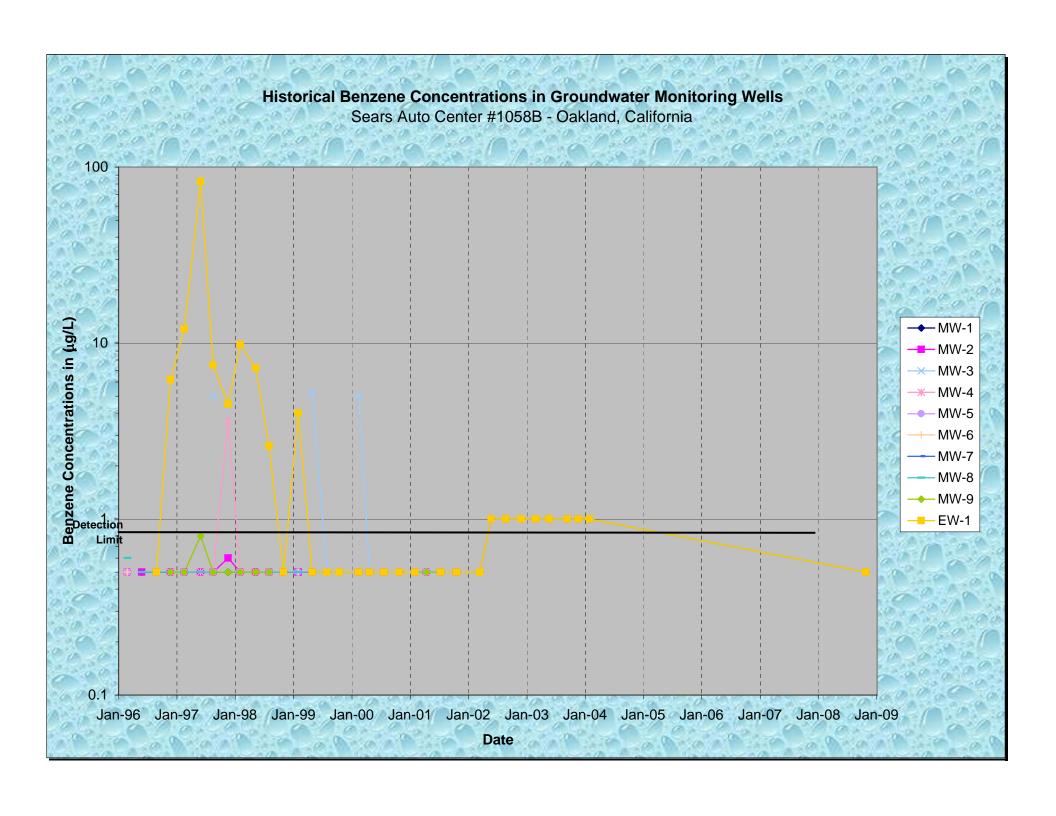
- 1) Obtain User Name and Password:
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to dehloptoxic@acgov.org

or

- ii) Send a fax on company letterhead to (510) 337-9335, to the attention of Alicia Lam-Finneke.
- b) In the subject line of your request, be sure to include "ftp PASSWORD REQUEST" and in the body of your request, include the Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
 - (i) Note: Netscape and Firefox browsers will not open the FTP site.
 - b) Click on File, then on Login As.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name at acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload)

APPENDIX B HISTORICAL GROUNDWATER MONITORING RESULTS





	1			CROUNDY	VATER LEV	FIS		1			LABOR	ATORY AN	ALVTICAL E	PECH TS			
			Depth to	Depth to	Stand Prod	Casing	Groundwater										
Well	NT 4	Sample	Groundwater	Product	Thickness	Elevation	Elevation	TPHg	TPH _d	TPH _o	TRPH	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved
ID MW-1	Notes	Period 12/30/92	(ft bgs) 10.60	(ft bgs)	(ft) 0.00	(ft MSL) 26.20	(ft MSL) 15.60	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	Metals
MW-1		02/26/93	10.14	-	0.00	26.20	16.06										
MW-1		03/24/93	10.48		0.00	26.20	15.72				1	0.4	1	0.32	10		
MW-1		04/27/93	11.30		0.00	26.20	14.90										
MW-1		05/28/93	11.43		0.00	26.20	14.77										
MW-1		06/21/93	11.71		0.00	26.20	14.49			< **100		< 0.3	1	< 0.3	6		
MW-1 MW-1		07/22/93 08/13/93	11.87 11.94		0.00	26.20 26.20	14.33 14.26										
MW-1		09/16/93	12.05		0.00	26.20	14.15			< **100		< 0.3	0.7	2	7		
MW-1		10/22/93	12.00		0.00	26.20	14.20										
MW-1		11/03/93	12.10		0.00	26.20	14.10										
MW-1		12/01/93	11.46		0.00	26.20	14.74					0.4	1		7		
MW-1 MW-1		12/27/93 12/30/93	11.58		0.00	26.20 26.20	14.62			< 100				1			
MW-1		01/05/94	11.69	-	0.00	26.20	14.51										
MW-1		02/08/94	11.87		0.00	26.20	14.33										
MW-1		03/09/94	11.08		0.00	26.20	15.12			< 100		< 0.3	< 0.3	2.4	4.2		
MW-1		04/01/94	11.47		0.00	26.20	14.73										
MW-1		05/10/94	10.77		0.00	26.20	15.43					0.6	0.7	1.4	15		
MW-1 MW-1		06/30/94 07/28/94	11.82 11.90		0.00	26.20 26.20	14.38 14.30			< 100		0.6	0.7	1.4	15		
MW-1		08/31/94	11.94		0.00	26.20	14.26										
MW-1		09/27/94	12.04		0.00	26.20	14.16			< °250		0.9	0.5	< 0.3	10		
MW-1		10/28/94	12.06		0.00	26.20	14.14										
MW-1		11/15/94	10.02		0.00	26.20	16.18			°250		0.4	0.4				
MW-1 MW-1		12/01/94 01/04/95	9.93		0.00	26.20 26.20	15.59 16.27			< °250		0.4	0.4	< 0.3	6.6		
MW-1		02/01/95	9.56	-	0.00	26.20	16.64										
MW-1		03/08/95	10.51		0.00	26.20	15.69			< °250		< 0.3	0.6	4.7	2.7		
MW-1		04/03/95				26.20											
MW-1		05/18/95	10.80		0.00	26.20	15.40			5250							
MW-1 MW-1		06/09/95 07/13/95	11.18 11.27		0.00	26.20 26.20	15.02 14.93			< °250		< 0.3	1.4	3.9	5.6		
MW-1		08/03/95	11.48	-	0.00	26.20	14.72										
MW-1		08/29/95	11.56	-	0.00	26.20	14.64		-	< °250		0.3	0.9	< 0.5	2.8		
MW-1		09/15/95	11.71		0.00	26.20	14.49										
MW-1		10/20/95	11.80		0.00	26.20	14.40										
MW-1 MW-1		11/15/95 01/15/96	11.61 11.21		0.00	26.20 26.20	14.59 14.99			< °200		< 0.5	< 0.5	< 1.0	27		
MW-1		03/05/96	9.35	-	0.00	26.20	16.85			< °200		< 0.5	< 1.0	< 1.0	< 2.0		
MW-1		04/19/96	10.60		0.00	26.20	15.60										
MW-1		05/10/96	11.18		0.00	26.20	15.02										
MW-1		06/03/96	10.90		0.00	26.20	15.30	340		< °200		< 0.5	< 1.0	3.7	3.4		
MW-1		09/04/96	11.31		0.00	26.20	14.89	390		310		< 0.5	< 1.0	< 1.0	< 2.0		
MW-1 MW-1		12/02/96 02/26/97	10.61		0.00	26.20 26.20	15.59 15.89	400 390		< °200 < °200		< 0.5 < 0.5	< 1.0 < 1.0	< 1.0 < 1.0	2.7 4.5		
MW-1		06/09/97	11.25		0.00	26.20	14.95	340		< 200		< 0.5	< 1.0	< 0.5	2.3	< 10	
MW-1		08/25/97	11.15		0.00	26.20	15.05	220		< 200		< 0.5	< 0.5	< 0.5	3	< 5	
MW-1		11/28/97	10.07		0.00	26.20	16.13	340		< 200		< 0.5	< 0.5	< 0.5	3	6.0	
MW-1		02/12/98	8.70		0.00	26.20	17.50	280		< 200		< 0.5	< 0.5	< 0.5	< 2.0	< 5	
MW-1 MW-1		05/20/98 08/11/98	10.89 11.60		0.00	26.20 26.20	15.31 14.60	340 230		< 200 < 500		< 0.5 < 0.5	< 0.5 < 0.5	0.8 < 0.5	< 0.5	< 5 < 2.5	
MW-1		11/10/98	11.10		0.00	26.20	15.10	150		< 250		< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	
MW-1		02/11/99	9.40		0.00	26.20	16.80	260		< 500		< 0.5	< 0.5	1	1.6	6.7	
MW-1		05/11/99	11.05		0.00	26.20	15.15	160		< 250		< 0.5	0.54	< 0.5	4.7	< 2.5	
MW-1		08/10/99	11.66		0.00	26.20	14.54	230		< 250		< 0.5	0.79	< 0.5	2.8	< 2.0	
MW-1 MW-1		10/26/99 02/25/00	12.90 9.80	-	0.00	26.20 26.20	13.30 16.40	95 330		< 250 310		< 0.5 < 0.5	< 0.5 < 0.5	0.64 < 0.5	< 0.5	< 2.5	
MW-1		05/03/00	10.90		0.00	26.20	15.30	220		< 100		< 0.5	< 0.5	< 0.5	< 0.5	1.5	
MW-1		08/02/00	11.40		0.00	26.20	14.80	170		< 100		< 0.5	< 0.5	< 0.5	< 0.5	1.1	
MW-1		11/07/00	10.83		0.00	26.20	15.37	250		< 100		< 0.5	< 0.5	< 0.5	< 0.5	0.9	
MW-1		02/15/01	9.40		0.00	26.20	16.80	350		200		< 0.5	< 0.5	< 0.5	< 0.5	1.0	
MW-1 MW-1		04/26/01 07/23/01	10.43 11.27		0.00	26.20 26.20	15.77 14.93	310 180		200 < 100		< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	1.5	
MW-1		11/01/01	10.90		0.00	26.20	15.30	200		120		< 0.5	< 0.5	< 0.5	< 0.5	1.6	
MW-1	2	03/28/02	9.80		0.00	26.20	16.40	120	92	< 500		< 0.5	< 0.5	< 0.5	< 1.0	< 5.0	
MW-1	2	06/06/02	10.44		0.00	26.19	15.75	147	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-1	2,3	06/06/02	10.44		0.00	26.19	15.75	107	< 500	< 2,000		< 1	< 1	<1	< 2	< 2	
MW-1 MW-1	2	09/07/02 12/11/2002	11.31 11.25		0.00	26.19 26.19	14.88	95 < 50	< 500 < 500	< 2,000 < 2,000		<1	<1	< 1	< 2	< 2	
MW-1	2	3/12/2003	10.79		0.00	26.19	15.40	< 50	< 500	< 2,000		< 1	< 1	<1	< 2	< 2	
MW-1	2	6/5/2003	10.98		0.00	26.19	15.21	86	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-1	2	9/26/2003	11.60		0.00	26.19	14.59	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-1	2,3	9/26/2003	11.60		0.00	26.19	14.59	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-1 MW-1	2	12/5/2003 2/12/2004	10.25 11.09		0.00	26.19 26.19	15.94 15.10	< 50 74	< 500 < 500	< 2,000 < 2,000		<1	<1	<1	< 2	< 2	
MW-1	2	11/13/2008	11.09	-	0.00	26.19	15.10	< 50	< 500	< 2,000		< 0.5	< 0.5	< 0.5	< 1	< 1	
					00					,000	1						

			Depth to	GROUNDY Depth to	Stand Prod	ELS Casing	Groundwater				LABOR	ATORY ANA	LYTICAL F	RESULTS			1
Well		Sample	Groundwater	Product	Thickness	Elevation	Elevation	$\mathbf{TPH}_{\mathbf{g}}$	TPH_d	TPH _o	TRPH	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved
ID	Notes	Period	(ft bgs)	(ft bgs)	(ft)	(ft MSL)	(ft MSL)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µ g/L)	(µg/L)	Metals
MW-2		12/30/92	10.65		0.00	26.50	15.85	190			1	0.7	< 0.3	< 0.3	3		aND
MW-2 MW-2		02/26/93	10.56 10.52		0.00	26.50 26.50	15.94 15.98	120			< 1	0.6	< 0.3	< 0.3	2		aND
MW-2		04/27/93	11.17		0.00	26.50	15.33										
MW-2		05/28/93	11.12		0.00	26.50	15.38										
MW-2		06/21/93	11.41		0.00	26.50	15.09	82		< **100		0.3	< 0.3	< 0.3	0.7		°ND
MW-2 MW-2		07/22/93	11.50 11.54		0.00	26.50	15.00										
MW-2 MW-2		08/13/93 09/16/93	11.54		0.00	26.50 26.50	14.96 14.88	28		< **100		< 0.3	< 0.3	< 0.3	< 0.5		°ND
MW-2		10/22/93	11.57		0.00	26.50	14.93										
MW-2		11/03/93	11.65		0.00	26.50	14.85										
MW-2		11/24/93	11.52		0.00	26.50	14.98										
MW-2 MW-2		12/01/93 12/27/93	11.08 11.27		0.00	26.50 26.50	15.42 15.23	68				< 0.3	< 0.3	< 0.3	1		°ND
MW-2		12/30/93				26.50				310							_
MW-2		01/05/94	11.39		0.00	26.50	15.11										
MW-2		02/08/94	11.49		0.00	26.50	15.01										
MW-2		03/09/94	11.06		0.00	26.50	15.44	47		< 100		< 0.3	< 0.3	< 0.3	< 0.5		ND
MW-2 MW-2		04/01/94 05/10/94	11.25 10.83		0.00	26.50 26.50	15.25 15.67										
MW-2		06/30/94	11.44		0.00	26.50	15.06	< 10		100		< 0.3	< 0.3	< 0.3	< 0.5		ND
MW-2		07/28/94	11.48	-	0.00	26.50	15.02										
MW-2		08/31/94	11.56		0.00	26.50	14.94										
MW-2		09/27/94	11.61	-	0.00	26.50	14.89	< 10		< °250		< 0.3	< 0.3	< 0.3	< 0.5		^d 15
MW-2 MW-2		10/28/94	11.65 9.65		0.00	26.50 26.50	14.85 16.85										
MW-2		12/01/94	10.71		0.00	26.50	15.79	54		f _{1,300}		< 0.3	< 0.3	< 0.3	< 0.5		^d 6
MW-2		01/04/95	10.11		0.00	26.50	16.39										
MW-2		02/01/95	10.38		0.00	26.50	16.12										
MW-2 MW-2		03/08/95	10.80		0.00	26.50 26.50	15.70 15.89	< 10		3,000		< 0.3	< 0.3	< 0.3	< 0.5		ND
MW-2		05/18/95	10.95	-	0.00	26.50	15.55										
MW-2		06/09/95	11.13		0.00	26.50	15.37	< 50		2,000		< 0.3	< 0.3	< 0.3	< 0.5		ND
MW-2		07/13/95	11.15		0.00	26.50	15.35										
MW-2		08/03/95	11.26		0.00	26.50	15.24										
MW-2 MW-2		08/29/95 09/15/95	11.32 11.42		0.00	26.50 26.50	15.18 15.08	< 50		4,300		< 0.3	< 0.3	< 0.3	< 0.5		^h 20
MW-2		10/20/95	11.42		0.00	26.50	15.08										
MW-2		11/15/95	11.37		0.00	26.50	15.13	< 50		6,100		< 0.5	< 0.5	< 0.5	< 0.5		ND
MW-2		01/15/96	11.10		0.00	26.50	15.40										
MW-2		03/05/96	10.24		0.00	26.50	16.26	< 100		3,200		< 0.5	< 1.0	< 1.0	< 2.0		ND
MW-2 MW-2		04/19/96 05/10/96	10.84		0.00	26.50 26.50	15.66 15.37										
MW-2		06/03/96	10.94		0.00	26.50	15.56										
MW-2		06/04/96				26.50		< 100		3,800		< 0.5	< 1.0	< 1.0	< 2.0		ND
MW-2		09/04/96	11.24		0.00	26.50	15.26	< 100		3,100		< 0.5	< 1.0	< 1.0	< 2.0		
MW-2 MW-2		12/02/96 02/26/97	10.80		0.00	26.50 26.50	15.70 15.80	< 100 < 100		2,200 2,100		< 0.5 < 0.5	< 1.0 < 1.0	< 1.0 < 1.0	< 2.0		
MW-2		06/09/97	11.10	-	0.00	26.50	15.40	< 100		2,400		< 0.5	< 1.0	< 1.0	< 2.0	< 10	
MW-2		08/25/97	11.05	-	0.00	26.50	15.45	< 50		< 200		< 0.5	< 0.5	< 0.5	< 2.0	< 5	
MW-2		11/28/97	10.59		0.00	26.50	15.91	< 50		1,900		0.6	< 0.5	< 0.5	< 2.0	< 5	
MW-2		02/12/98	10.04		0.00	26.50	16.46	< 50		1,600		< 0.5	< 0.5	< 0.5	< 2.0	< 5	
MW-2 MW-2		05/20/98 08/11/98	10.84 11.56		0.00	26.50 26.50	15.66 14.94	< 50 < 50		3,100 1,200		< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 2.0	< 5 < 2.5	
MW-2		11/10/98	11.02		0.00	26.50	15.48	< 50		820		< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	
MW-2		02/11/99	10.17	-	0.00	26.50	16.33	< 50		< 500		< 0.50	< 0.50	< 0.50	< 0.50	3.3	
MW-2		05/11/99	10.96		0.00	26.50	15.54	< 50		1,400		< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	
MW-2 MW-2		08/10/99 10/26/99	11.27 12.03	-	0.00	26.50 26.50	15.23 14.47										
MW-2 MW-2		02/25/00	9.95		0.00	26.50	16.55	< 50		980		< 0.5	< 0.5	< 0.5	< 0.5	1.4	
MW-2		05/03/00	10.78	-	0.00	26.50	15.72	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	0.6	
MW-2		08/02/00	11.02	-	0.00	26.50	15.48	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	1.0	
MW-2		11/07/00	10.74		0.00	26.50	15.76	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	1.4	
MW-2 MW-2		02/15/01 04/27/01	10.16 10.60		0.00	26.50 26.50	16.34 15.90	< 50 < 50		< 100 340		< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	1.0 0.6	
MW-2		07/23/01	11.00	-	0.00	26.50	15.50	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	1.2	
MW-2		11/01/01	11.00		0.00	26.50	15.50	< 50		240		< 0.5	< 0.5	< 0.5	< 0.5	1.4	
MW-2	5	03/28/02	10.42	-	0.00	26.50	16.08										
MW-2	5	06/06/02	10.57		0.00	26.41	15.84										
MW-2 MW-2	5	09/07/02 12/11/02	11.00 10.86		0.00	26.41 26.41	15.41 15.64	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-2	2	03/12/03	10.43	-	0.00	26.41	15.04	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-2	2	06/05/03	10.70		0.00	26.41	15.71	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-2	2	09/26/03	11.00	-	0.00	26.41	15.41	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-2	2	12/05/03	10.29		0.00	26.41	16.12	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-2 MW-2	2	02/12/04	11.20 10.62		0.00	26.41 26.41	15.21 15.79	< 50 < 50	< 500 < 500	< 2,000 < 2,000		< 0.5	< 0.5	< 1 < 0.5	< 2	< 2 < 1	
MW-3	2	12/30/92	12.43		0.00	26.34	13.91	910	< 500	< 2,000 SPH	20	11	0.9	< 0.3	2		aND
MW-3		02/26/92	12.21		0.00	26.34	14.13										
MW-3		03/24/93	12.36 12.70		0.00	26.34	13.98	3,300		SPH	28	28	0.7	1	8		**15
MW-3		04/27/93			0.00	26.34	13.64										

			Depth to	GROUNDY Depth to	VATER LEV Stand Prod	ELS Casing	Groundwater				LABOR	ATORY ANA	ALYTICAL F	RESULTS			
Well		Sample	Groundwater	Product	Thickness	Elevation	Elevation	TPH_{g}	TPH_d	TPH _o	TRPH	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved
ID !	Notes	Period	(ft bgs)	(ft bgs)	(ft)	(ft MSL)	(ft MSL)	(µg/L)	(µg/L)	(µg/L)	(µ g/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	Metals
MW-3		05/28/93	12.72		0.00	26.34	13.62										
MW-3		06/21/93	12.87		0.00	26.34	13.47	**2,600		32,000	26	21	5	2	19		^{cd} 5
MW-3 MW-3		07/22/93 08/13/93	12.92 12.96		0.00	26.34 26.34	13.42 13.38										
MW-3		09/16/93	13.05	13.01	0.04	26.34	13.32	SPH		SPH	SPH	SPH	SPH	SPH	SPH		SPH
MW-3		10/22/93				26.34											
MW-3		11/03/93	13.24	13.13	0.11	26.34	13.19										
MW-3		11/24/94	12.96	12.94	0.02	26.34	13.40										
MW-3		12/01/93	12.73	12.71	0.02	26.34	13.63	SPH		SPH	SPH	SPH	SPH	SPH	SPH		SPH
MW-3		12/27/93	12.81	12.77	0.04	26.34	13.56										
MW-3 MW-3		01/05/94 02/08/94	12.87 12.37	12.85	0.02	26.34	13.49 13.97										
MW-3		03/09/94	12.53	_	0.00	26.34	13.81	2,000		**5,700	**63	2	1.4	4.5	13		aND
MW-3		04/01/94	12.64		0.00	26.34	13.70		-		-	-					
MW-3		05/10/94	12.32		0.00	26.34	14.02										
MW-3		06/30/94	12.86	12.84	0.02	26.34	13.50	SPH		SPH	SPH	SPH	SPH	SPH	SPH		SPH
MW-3		07/28/94	12.97	12.93	0.04	26.34	13.40										
MW-3		08/31/94	13.07	13.04	0.03	26.34	13.29	cmrr		CDTT	CDIT	CDIT	CDIT		CDIT		CDIT
MW-3 MW-3		09/27/94 10/28/94	13.24 13.52	13.13	0.11	26.34 26.34	13.19	SPH 		SPH 	SPH 	SPH 	SPH 	SPH 	SPH 		SPH
MW-3		11/15/94	11.08	11.05	0.03	26.34	15.28										
MW-3		12/01/94	11.92	11.90	0.02	26.34	14.44	SPH		SPH	SPH	SPH	SPH	SPH	SPH		SPH
MW-3		01/04/95	11.81	11.80	0.01	26.34	14.54		-								
MW-3		02/01/95	12.02	12.00	0.02	26.34	14.34										
MW-3		03/08/95	12.40	12.35	0.05	26.34	13.98	SPH		SPH	SPH	SPH	SPH	SPH	SPH		SPH
MW-3		04/03/95	12.13	12.09	0.04	26.34	14.24										
MW-3 MW-3		05/18/95	12.46	12.43	0.03	26.34	13.90	SPH		SPH	SPH	SPH	SPH	SPH	SPH		SPH
MW-3		06/09/95 07/13/95	12.62 12.64	12.60 12.55	0.02	26.34 26.34	13.74										
MW-3		08/03/95	12.67	12.64	0.03	26.34	13.69										
MW-3		08/29/95	12.68	12.65	0.03	26.34	13.68	SPH	-	SPH	SPH	SPH	SPH	SPH	SPH		SPH
MW-3		09/15/95	13.14	13.00	0.14	26.34	13.31										
MW-3		10/20/95	12.89	12.86	0.03	26.34	13.47										
MW-3		11/15/95	12.88	12.81	0.07	26.34	13.52	SPH		SPH	SPH	SPH	SPH	SPH	SPH		SPH
MW-3 MW-3		01/15/96 03/05/96	12.73 11.72	12.60 11.68	0.13	26.34 26.34	13.71 14.65	SPH		SPH	SPH	SPH	SPH	SPH	SPH		SPH
MW-3		04/19/96	12.38	12.36	0.04	26.34	13.98										
MW-3		05/10/96	11.95	11.93	0.02	26.34	14.41										
MW-3		06/03/96	13.36	12.93	0.43	26.34	13.32	SPH	-	SPH	SPH	SPH	SPH	SPH	SPH		SPH
MW-3		09/04/96	12.65	12.60	0.05	26.34	13.73	SPH		SPH	SPH	SPH	SPH	SPH	SPH		SPH
MW-3		12/02/96	12.14	12.11	0.03	26.34	14.22	SPH		SPH	SPH	SPH	SPH	SPH	SPH		SPH
MW-3		02/26/97			0.01	26.34	14.31	SPH		SPH	SPH	SPH	SPH	SPH			SPH
MW-3 MW-3			12.04	12.03											SPH		
		06/09/97	12.43	12.39	0.04	26.34	13.94	SPH		SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
WW-3		06/09/97 08/25/97	12.43 12.31	12.39 12.28	0.04 0.03	26.34 26.34	13.94 14.05	SPH 5,600		SPH 110,000	SPH 	SPH 5	SPH 6	SPH 5	SPH 16	SPH < 30	SPH
MW-3 MW-3		06/09/97 08/25/97 11/28/97	12.43 12.31 12.16	12.39 12.28 12.13	0.04 0.03 0.03	26.34 26.34 26.34	13.94 14.05 14.20	5,600 SPH		SPH 110,000 SPH	SPH SPH	SPH 5 SPH	SPH 6 SPH	SPH 5 SPH	SPH 16 SPH	SPH < 30 SPH	SPH SPH
MW-3 MW-3 MW-3		06/09/97 08/25/97	12.43 12.31	12.39 12.28	0.04 0.03	26.34 26.34	13.94 14.05	SPH 5,600		SPH 110,000	SPH 	SPH 5	SPH 6	SPH 5	SPH 16	SPH < 30	SPH
MW-3		06/09/97 08/25/97 11/28/97 02/12/98	12.43 12.31 12.16 11.88	12.39 12.28 12.13 11.85	0.04 0.03 0.03 0.03	26.34 26.34 26.34 26.34	13.94 14.05 14.20 14.48	5,600 SPH SPH		SPH 110,000 SPH SPH	SPH SPH SPH	SPH 5 SPH SPH	SPH 6 SPH SPH	SPH 5 SPH SPH	SPH 16 SPH SPH	SPH < 30 SPH SPH	SPH SPH SPH
MW-3 MW-3 MW-3		06/09/97 08/25/97 11/28/97 02/12/98 05/20/98 08/11/98 11/10/98	12.43 12.31 12.16 11.88 12.54 13.15	12.39 12.28 12.13 11.85 12.51 12.97 12.54	0.04 0.03 0.03 0.03 0.03 0.18 0.03	26.34 26.34 26.34 26.34 26.34 26.34 26.34	13.94 14.05 14.20 14.48 13.82 13.33 13.79	SPH 5,600 SPH SPH SPH SPH SPH SPH		SPH 110,000 SPH SPH SPH SPH SPH SPH	SPH SPH SPH SPH SPH SPH	SPH 5 SPH SPH SPH SPH SPH	SPH 6 SPH SPH SPH SPH SPH SPH	SPH 5 SPH SPH SPH SPH SPH SPH	SPH 16 SPH SPH SPH SPH SPH SPH	SPH < 30 SPH SPH SPH SPH SPH SPH	SPH SPH SPH SPH SPH
MW-3 MW-3 MW-3 MW-3		06/09/97 08/25/97 11/28/97 02/12/98 05/20/98 08/11/98 11/10/98 02/11/99	12.43 12.31 12.16 11.88 12.54 13.15 12.57 11.77	12.39 12.28 12.13 11.85 12.51 12.97 12.54 11.75	0.04 0.03 0.03 0.03 0.03 0.18 0.03 0.02	26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34	13.94 14.05 14.20 14.48 13.82 13.33 13.79 14.59	SPH 5,600 SPH SPH SPH SPH SPH SPH SPH		SPH 110,000 SPH SPH SPH SPH SPH SPH SPH SPH	SPH SPH SPH SPH SPH SPH SPH	SPH 5 SPH SPH SPH SPH SPH SPH SPH	SPH 6 SPH SPH SPH SPH SPH SPH SPH SPH	SPH 5 SPH SPH SPH SPH SPH SPH SPH	SPH 16 SPH SPH SPH SPH SPH SPH SPH SPH	SPH < 30 SPH SPH SPH SPH SPH SPH SPH SPH	SPH SPH SPH SPH SPH SPH
MW-3 MW-3 MW-3 MW-3 MW-3		06/09/97 08/25/97 11/28/97 02/12/98 05/20/98 08/11/98 11/10/98 02/11/99	12.43 12.31 12.16 11.88 12.54 13.15 12.57 11.77 12.52	12.39 12.28 12.13 11.85 12.51 12.97 12.54 11.75	0.04 0.03 0.03 0.03 0.03 0.18 0.03 0.02	26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34	13.94 14.05 14.20 14.48 13.82 13.33 13.79 14.59 13.82	SPH 5,600 SPH		SPH 110,000 SPH	SPH SPH SPH SPH SPH SPH	SPH 5 SPH	SPH 6 SPH	SPH 5 SPH	SPH 16 SPH	SPH < 30 SPH	SPH SPH SPH SPH SPH
MW-3 MW-3 MW-3 MW-3 MW-3 MW-3		06/09/97 08/25/97 11/28/97 02/12/98 05/20/98 08/11/98 11/10/98 02/11/99 05/11/99	12.43 12.31 12.16 11.88 12.54 13.15 12.57 11.77 12.52 13.64	12.39 12.28 12.13 11.85 12.51 12.97 12.54 11.75	0.04 0.03 0.03 0.03 0.03 0.18 0.03 0.02 0.00 0.14	26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34	13.94 14.05 14.20 14.48 13.82 13.33 13.79 14.59 13.82 12.81	SPH		SPH 110,000 SPH	SPH SPH SPH SPH SPH SPH	SPH 5 SPH	SPH 6 SPH	SPH 5 SPH	SPH 16 SPH	SPH < 30 SPH SPH SPH SPH SPH SPH SPH - 2.0 - 2.2	SPH SPH SPH SPH SPH
MW-3 MW-3 MW-3 MW-3 MW-3		06/09/97 08/25/97 11/28/97 02/12/98 05/20/98 08/11/98 11/10/98 02/11/99	12.43 12.31 12.16 11.88 12.54 13.15 12.57 11.77 12.52	12.39 12.28 12.13 11.85 12.51 12.97 12.54 11.75	0.04 0.03 0.03 0.03 0.03 0.18 0.03 0.02	26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34	13.94 14.05 14.20 14.48 13.82 13.33 13.79 14.59 13.82	SPH 5,600 SPH		SPH 110,000 SPH	SPH SPH SPH SPH SPH SPH	SPH 5 SPH	SPH 6 SPH	SPH 5 SPH	SPH 16 SPH	SPH < 30 SPH	SPH SPH SPH SPH SPH SPH
MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3		06/09/97 08/25/97 11/28/97 02/12/98 05/20/98 08/11/98 11/10/98 02/11/99 05/11/99 08/10/99	12.43 12.31 12.16 11.88 12.54 13.15 12.57 11.77 12.52 13.64 13.04	12.39 12.28 12.13 11.85 12.51 12.97 12.54 11.75 13.50	0.04 0.03 0.03 0.03 0.03 0.18 0.03 0.02 0.00 0.14 0.03	26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34	13.94 14.05 14.20 14.48 13.82 13.33 13.79 14.59 13.82 12.81 13.32	SPH		SPH 110,000 SPH	SPH	SPH 5 SPH	SPH 6 SPH	SPH 5 SPH	SPH 16 SPH SPH SPH SPH SPH SPH SPH SPH SPH < 0.5 < 0.5 SPH	SPH < 30 SPH SPH SPH SPH SPH SPH SPH SP	SPH SPH SPH SPH SPH SPH SPH SPH
MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3		06/09/97 08/25/97 11/28/97 02/12/98 05/20/98 08/11/98 11/10/98 02/11/99 05/11/99 08/10/99 10/26/99 02/25/00 05/03/00 08/02/00	12.43 12.31 12.16 11.88 12.54 13.15 12.57 11.77 12.52 13.64 13.04 13.04 14.00 12.80	12.39 12.28 12.13 11.85 12.51 12.97 12.54 11.75 13.50 13.01	0.04 0.03 0.03 0.03 0.03 0.18 0.03 0.02 0.00 0.14 0.03 0.00 0.14	26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34	13.94 14.05 14.20 14.48 13.82 13.33 13.79 14.59 13.82 12.81 13.32 14.93 14.04	SPH 5,600 SPH		SPH 110,000 SPH SPH SPH SPH SPH SPH SPH SPH 159,000 54,000 42,000 SPH	SPH	SPH 5 SPH	SPH 6 SPH SPH SPH SPH SPH SPH SPH SPH SPH < 0.5 < 0.5 SPH < 5.0 < 0.5 SPH	SPH 5 SPH SPH SPH SPH SPH SPH SPH SPH SPH <0.5 <0.5 SPH <5.0 <0.5 SPH	SPH 16 SPH	SPH < 30 SPH	SPH SPH SPH SPH SPH SPH SPH
MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3		06/09/97 08/25/97 11/28/97 11/28/97 02/12/98 05/20/98 08/11/98 11/10/98 02/11/99 08/10/99 10/26/99 02/25/00 08/02/00 11/07/00	12.43 12.31 12.16 11.88 12.54 13.15 12.57 11.77 12.52 13.64 13.04 11.41 12.30 12.80	12.39 12.28 12.13 11.85 12.51 12.97 12.54 11.75 13.50 13.01 12.61	0.04 0.03 0.03 0.03 0.18 0.03 0.02 0.00 0.14 0.03 0.00 0.19 0.00	26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34	13.94 14.05 14.20 14.48 13.82 13.33 13.79 14.59 13.82 12.81 13.32 14.93 14.04 13.69 14.16	SPH 5,600 SPH SPH SPH SPH SPH SPH SPH 530 2,200 SPH 1,100		SPH 110,000 SPH SPH SPH SPH SPH SPH SPH SPH 130,000 SPH 13,000 SPH 13,000	SPH	SPH 5 SPH SPH SPH SPH SPH SPH SPH 5.2 < 0.5 SPH < 5.0 < 0.5 SPH < 0.5	SPH 6 SPH SPH SPH SPH SPH SPH SPH 4 0.5 < 0.5 SPH < 5.0 < 0.5 SPH < 0.5	SPH 5 SPH SPH SPH SPH SPH SPH 40.5 < 0.5 SPH 5.0 < 0.5 SPH < 0.5 SPH < 0.5	SPH 16 SPH SPH SPH SPH SPH SPH SPH < 0.5 < 0.5 SPH < 5.0 < 0.5 SPH < 0.5	SPH < 30 SPH SPH SPH SPH SPH SPH SPH 2.0 2.2 SPH 20 1.6	SPH
MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3		06/09/97 08/25/97 11/28/97 11/28/97 02/12/98 05/20/98 08/11/98 11/10/98 02/11/99 05/11/99 08/10/99 10/26/99 02/25/00 05/03/00 08/02/00 11/07/00 02/15/01	12.43 12.31 12.16 11.88 12.54 13.15 12.57 11.77 12.52 13.64 13.04 11.41 12.30 12.80 12.18	12.39 12.28 12.13 11.85 12.51 12.97 12.54 11.75 13.50 13.01 12.61	0.04 0.03 0.03 0.03 0.03 0.18 0.03 0.02 0.00 0.14 0.03 0.00 0.19 0.00	26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34	13.94 14.05 14.20 14.48 13.82 13.33 13.79 14.59 13.82 12.81 13.32 14.93 14.04 13.69 14.16	SPH 5,600 SPH SPH SPH SPH SPH SPH SPH SPH SPH 530 2,200 SPH 7,800 SPH 1,100 SPH 1,100 430		SPH 110,000 SPH	SPH	SPH 5 SPH SPH SPH SPH SPH SPH SPH 5.2 < 0.5 SPH < 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	SPH 6 SPH	SPH 5 SPH	SPH 16 SPH SPH SPH SPH SPH SPH SPH < 0.5 < 0.5 SPH < 5.0 SPH < 0.5 < 0.5 SPH < 0.5	SPH < 30 SPH SPH SPH SPH SPH SPH SPH - 2.0 - 2.2 SPH 20 - 1.6 0.7	SPH SPH SPH SPH SPH
MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3		06/09/97 08/25/97 11/28/97 11/28/97 02/12/98 05/20/98 08/11/98 11/10/98 02/11/99 05/11/99 08/10/99 10/26/99 02/25/00 05/03/00 08/02/00 11/07/00 02/15/01 04/26/01	12.43 12.31 12.16 11.88 12.54 13.15 12.57 11.77 12.52 13.64 13.04 11.41 12.30 12.80 12.18 11.61 12.06	12.39 12.28 12.13 11.85 12.51 12.97 12.54 11.75 13.50 13.01 12.61	0.04 0.03 0.03 0.03 0.03 0.18 0.03 0.02 0.00 0.14 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34	13.94 14.05 14.20 14.48 13.82 13.33 13.79 14.59 13.82 12.81 13.32 14.93 14.04 13.69 14.16 14.73 14.28	SPH 5,600 SPH SPH SPH SPH SPH SPH SPH SPH 530 1,100 SPH 1,100 430 4,100		SPH 110,000 SPH	SPH	SPH 5 SPH SPH SPH SPH SPH SPH SPH SPH SPH 5.2 < 0.5 SPH < 5.0 < 0.5 SPH < 0.5	SPH 6 SPH SPH SPH SPH SPH SPH SPH SPH 4 0.5 SPH 4 0.5 SPH 4 0.5 SPH 4 0.5 SPH 6 0.5 SPH 6 0.5 SPH 6 0.5 SPH 6 0.5 SPH 7 0.5 SPH 7 0.5 SPH 7 0.5 SPH 8 0.5 SPH 8 0.5 SPH 9 0.5 SP	SPH 5 SPH SPH SPH SPH SPH SPH SPH <0.5 SPH	SPH 16 SPH SPH SPH SPH SPH SPH < 0.5	SPH < 30 SPH SPH SPH SPH SPH SPH 20 2.2 SPH 20 1.6 0.7	SPH
MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3		06/09/97 08/25/97 11/28/97 02/12/98 05/20/98 08/11/98 11/10/98 02/11/99 05/11/99 05/11/99 02/12/00 05/03/00 08/02/00 11/07/00 02/15/01 04/26/01 04/26/01	12.43 12.31 12.16 11.88 12.54 13.15 12.57 11.77 12.52 13.64 13.04 11.41 12.30 12.80 12.18 12.18 12.06	12.39 12.28 12.13 11.85 12.51 12.97 12.54 11.75 13.50 13.01 12.61	0.04 0.03 0.03 0.03 0.18 0.03 0.02 0.00 0.14 0.03 0.00 0.19 0.00 0.00 0.00 0.00 0.00 0.00	26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34	13.94 14.05 14.20 14.48 13.82 13.33 13.79 14.59 13.82 12.81 13.32 14.93 14.04 13.69 14.16 14.73 14.28 13.74	\$PH 5,600 \$PH \$PH \$PH \$PH \$PH \$PH \$30 2,200 \$PH 530 1,100 \$PH 1,100 \$PH 1,100 4,100 1,200		SPH 110,000 SPH SPH SPH SPH SPH SPH 59,000 54,000 SPH 13,000 42,000 SPH 110,000 110,000 64,000	SPH SPH SPH SPH SPH SPH SPH SPH	SPH 5 SPH SPH SPH SPH SPH SPH 5.2 < 0.5 SPH < 0.5 < 0.5 SPH < 0.5 < 0.5 SPH < 0.5 < 0.5	SPH 6 SPH SPH SPH SPH SPH SPH 4 0.5 SPH 3 0.5 SPH 4 0.5 SPH 5 0.5 SPH 6 0.5 SPH 6 0.5 SPH 6 0.5 SPH 6 0.5	SPH 5 SPH	SPH 16 SPH SPH SPH SPH SPH SPH < 0.5 < 0.5 SPH < 5.0 < 0.5 SPH < 0.5 SPH < 0.5 < 0.5 SPH < 0.5 < 0.5	SPH < 30 SPH SPH SPH SPH SPH SPH 2.0 2.2 SPH 20 1.6 1.7	SPH SPH SPH SPH SPH SPH SPH
MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3	2	06/09/97 08/25/97 11/28/97 11/28/97 02/12/98 05/20/98 08/11/98 11/10/98 02/11/99 05/11/99 08/10/99 10/26/99 02/25/00 05/03/00 08/02/00 11/07/00 02/15/01 04/26/01	12.43 12.31 12.16 11.88 12.54 13.15 12.57 11.77 12.52 13.64 13.04 11.41 12.30 12.80 12.18 11.61 12.06	12.39 12.28 12.13 11.85 12.51 12.97 12.54 11.75 13.50 13.01 12.61	0.04 0.03 0.03 0.03 0.03 0.18 0.03 0.02 0.00 0.14 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34	13.94 14.05 14.20 14.48 13.82 13.33 13.79 14.59 13.82 12.81 13.32 14.93 14.04 13.69 14.16 14.73 14.28	SPH 5,600 SPH SPH SPH SPH SPH SPH SPH SPH 530 1,100 SPH 1,100 430 4,100		SPH 110,000 SPH	SPH	SPH 5 SPH SPH SPH SPH SPH SPH SPH SPH SPH 5.2 < 0.5 SPH < 5.0 < 0.5 SPH < 0.5	SPH 6 SPH SPH SPH SPH SPH SPH SPH SPH 4 0.5 SPH 4 0.5 SPH 4 0.5 SPH 4 0.5 SPH 6 0.5 SPH 6 0.5 SPH 6 0.5 SPH 6 0.5 SPH 7 0.5 SPH 7 0.5 SPH 7 0.5 SPH 8 0.5 SPH 8 0.5 SPH 9 0.5 SP	SPH 5 SPH SPH SPH SPH SPH SPH SPH <0.5 SPH	SPH 16 SPH SPH SPH SPH SPH SPH < 0.5	SPH < 30 SPH SPH SPH SPH SPH SPH 20 2.2 SPH 20 1.6 0.7	SPH
MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3	2 2	06/09/97 08/25/97 11/28/97 02/12/98 05/20/98 08/11/98 11/10/98 11/10/98 02/11/99 05/11/99 08/10/99 10/26/99 02/25/00 05/03/00 05/03/00 05/03/00 11/07/00 02/15/01 04/26/01 04/26/01 07/23/01 11/01/01	12.43 12.31 12.16 11.88 12.54 13.15 12.57 11.77 12.52 13.64 13.04 11.41 12.30 12.80 12.18 11.61 12.06 12.66	12.39 12.28 12.13 11.85 12.51 12.97 12.54 11.75 13.50 13.01 12.61	0.04 0.03 0.03 0.03 0.18 0.03 0.02 0.00 0.14 0.03 0.00 0.19 0.00	26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34	13.94 14.05 14.20 14.48 13.82 13.33 13.79 14.59 13.82 12.81 13.32 14.93 14.04 13.69 14.16 14.73 14.28 13.74 13.68	SPH 5,600 SPH SPH SPH SPH SPH SPH SPH SPH 530 2,200 SPH 7,800 1,100 SPH 1,100 1,200 1,200		SPH 110,000 SPH SPH SPH SPH SPH 59,000 54,000 SPH 130,000 42,000 SPH 13,000 40,000 19,000	SPH SPH SPH SPH SPH SPH SPH SPH SPH	SPH 5 SPH SPH SPH SPH SPH 52 < 0.5 SPH < 0.5	SPH 6 SPH SPH SPH SPH SPH SPH < 0.5 < 0.5 SPH < 5.0 SPH < 0.5 < 0.5 SPH < 0.5 < 0.5 SPH < 0.5	SPH 5 SPH SPH SPH SPH SPH SPH <0.5 <0.5 SPH <5.0 <0.5 SPH <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	SPH 16 SPH SPH SPH SPH SPH SPH < 0.5 < 0.5 SPH < 5.0 SPH < 5.0 SPH < 5.0 SPH < 0.5	SPH < 30 SPH SPH SPH SPH SPH SPH SPH 2.2 SPH 20 2.2 SPH 1.6 0.7 1.4	SPH
MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3	2	06/09/97 08/25/97 11/28/97 11/28/97 02/12/98 05/20/98 08/11/99 11/10/98 11/10/98 02/11/99 05/11/99 05/11/99 05/11/99 02/125/00 05/03/00 08/02/00 11/07/00 02/15/01 04/26/01 07/23/01 11/01/01 01/03/00 06/06/02 09/07/02	12.43 12.31 12.16 11.88 12.54 13.15 12.57 11.77 12.52 13.64 13.04 13.04 12.80 12.18 12.18 12.26 12.66 12.66 12.66 12.66 11.96 11.91	12.39 12.28 12.13 11.85 12.51 12.97 12.54 11.75 13.50 13.01 12.61	0.04 0.03 0.03 0.03 0.18 0.03 0.02 0.00 0.14 0.03 0.00 0.19 0.00 0.00 0.00 0.00 0.00 0.00	26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34 26.34	13.94 14.05 14.20 14.48 13.82 13.33 13.79 14.59 13.82 12.81 13.32 14.93 14.04 13.69 14.16 14.73 14.28 13.74 13.68 14.38 14.38 14.32 13.42	\$PH 5,600 \$PH \$PH \$PH \$PH \$PH \$PH \$30 2,200 \$PH 530 1,100 \$PH 1,100 \$PH 1,100 1,200 1,200 870 870 870 847		SPH 110,000 SPH SPH SPH SPH SPH SPH 59,000 54,000 SPH 13,000 42,000 SPH 13,000 110,000 64,000 119,000 95,000 < 2,000 < 2,000 < 2,000	SPH SPH SPH SPH SPH SPH SPH SPH	SPH 5 SPH SPH SPH SPH SPH 5.2 < 0.5 SPH < 5.0 < 0.5 SPH < 0.5 < 0.5 SPH < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	SPH 6 SPH SPH SPH SPH SPH 4 0.5 < 0.5 SPH < 0.5 < 0.5 < 0.5	SPH 5 SPH	SPH 16 SPH SPH SPH SPH SPH SPH 4 0.5 4 0.5 5 0.5 SPH 4 0.5 4 0.5 5 0.5 SPH 5 0.5 5 0.5 SPH 5 0.5 5 0.5 5 0.5 5 0.5 5 0.5 5 0.5 5 0.5 5 0.5 5 0.5 5 0.5 5 0.5 5 0.5 5 0.5	SPH < 30 SPH SPH SPH SPH SPH SPH < 2.0 2.2 SPH 20 1.6 1.7 1.4 1.7 1.4 < 2 < 2 < 2	SPH
MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3	2 2 2	06/09/97 08/25/97 08/25/97 11/28/97 02/12/98 05/20/98 08/11/99 11/10/98 11/10/98 02/11/99 05/11/99 05/11/99 05/11/99 05/11/99 10/26/99 11/07/00 02/15/01 04/26/01 07/23/01 11/01/01 03/28/02 09/07/02 12/11/02	12.43 12.31 12.16 11.88 12.54 13.15 12.57 11.77 12.52 13.64 13.04 13.04 12.80 12.18 11.61 12.06 12.66 11.96 11.96 11.91 12.81	12.39 12.28 12.13 11.85 12.51 12.97 12.54 11.75 13.50 13.01 12.61	0.04 0.03 0.03 0.03 0.03 0.18 0.03 0.02 0.00 0.00 0.14 0.03 0.00 0.19 0.00 0.00 0.00 0.00 0.00 0.00	26.34 26.34	13.94 14.05 14.20 14.48 13.82 13.33 13.79 14.59 13.82 12.81 13.32 14.93 14.04 13.69 14.16 14.73 14.28 13.74 13.68 14.38 14.38 14.38 14.38 14.39 14	\$PH 5,600 \$PH \$PH \$PH \$PH \$PH \$PH \$30 2,200 \$PH 7,800 \$1,100 \$PH 1,100 \$PH 1,100 1,200 1,200 1,200 800 870 870 870 870 870 870 8		SPH 110,000 SPH SPR SPR SPR SPR SPR 59,000 54,000 SPH 13,000 42,000 SPH 13,000 10,000 64,000 19,000 950 < 2,000 < 2,000 < 2,000 < 2,000	SPH	SPH 5 SPH SPH SPH SPH SPH 52 < 0.5 SPH < 5.0 < 0.5 SPH < 0.5 < 0.5 SPH < 1.5 SPH < 1.5 SPH < 1.5 SPH < 2.5 SPH < 2.5 SPH < 3.5	SPH 6 SPH SPH SPH SPH SPH 4 0.5 4 0.5 5 0.5 SPH 4 0.5 4 0.5 5 0.5 SPH 4 0.5 4 0.5 SPH 5 0.5 5 0.5 SPH 6 0.5 6 0.5 5 0.5 6 0.5 6 0.5 6 0.5 6 0.5 6 0.5 6 0.5 6 0.5 6 0.5	SPH 5 SPH SPH SPH SPH SPH SPH SPH <0.5 <0.5 SPH <5.0 <0.5 SPH <0.5 <0.5 SPH <0.5 <0.5 SPH <1.5 <0.5 SPH <1.5 <0.5 SPH <1.5 <0.5 <0.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1	SPH 16 SPH SPH SPH SPH SPH SPH < 0.5 < 0.5 SPH < 5.0 SPH < 5.0 SPH < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	SPH < 30 SPH SPH SPH SPH SPH SPH <	SPH
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MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3	2 2 2 2 2 2 2 2 2 2	06/09/97 08/25/97 11/28/97 11/28/97 02/12/98 05/20/98 08/11/98 11/10/98 02/11/99 05/11/99 05/11/99 05/11/99 05/11/99 05/11/99 02/25/00 05/03/00 08/02/00 11/07/00 02/15/01 04/26/01 11/01/01 03/28/02 06/06/02 09/07/02 12/11/02 03/12/03 06/05/03 09/26/03 01/12/04 11/13/08 12/30/92 02/26/93 03/24/93 04/27/93	12.43 12.31 12.16 11.88 12.54 13.15 12.57 11.77 12.52 13.64 13.04 11.41 12.30 12.80 12.18 11.61 12.06 12.66 11.96 11.96 11.91 12.81 12.11 12.12 12.52 11.67 11.78 12.00 11.53 11.46 11.74	12.39 12.28 12.13 11.85 12.51 12.97 12.54 11.75 13.50 13.01	0.04 0.03 0.03 0.03 0.03 0.03 0.03 0.018 0.00 0.00 0.00 0.00 0.00 0.00 0.0	26.34 26.32 26.23	13.94 14.05 14.20 14.48 13.82 13.33 13.79 14.59 13.82 12.81 13.32 14.93 14.04 13.69 14.16 14.73 14.28 13.74 13.68 14.38 14.32 13.91 14.11 13.71 14.56 14.45 14.45 14.45 14.45 14.43	SPH 5,600 SPH		SPH 110,000 SPH 110,000 SPH SPH SPH SPH SPH 59,000 54,000 SPH 130,000 12,000 42	SPH	SPH 5 SPH	SPH 6 SPH SPH SPH SPH SPH SPH 4 0.5 4 0.5 5 4 0.5 5 5 SPH 4 6 0.5 4 0.5 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4	SPH 5 SPH SPH SPH SPH SPH SPH < 0.5 < 0.5 SPH < 5.0 < 0.5 SPH < 5.0 < 0.5 < 0.5 < 0.5 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 <	SPH 16 SPH SPH SPH SPH SPH SPH < 0.5 < 0.5 SPH < 5.0 < 0.5 SPH < 0.5 < 0.5	SPH < 30 SPH SPH SPH SPH SPH SPH SPH SPH 20 2.2 SPH 20 1.6 0.7 1.4 < \$5.0 < 2 < 2 < 2 < 2 < 2 < 1	SPH
MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3	2 2 2 2 2 2 2 2 2 2	06/09/97 08/25/97 11/28/97 02/12/98 05/20/98 08/11/99 05/20/98 08/11/99 05/11/99 05/11/99 05/11/99 05/11/99 05/11/99 02/25/90 05/03/00 08/02/00 11/07/00 02/15/01 04/26/01 07/23/01 11/01/01 03/28/02 06/06/02 09/07/02 12/11/02 03/12/03 06/05/03 09/26/03 12/05/03 02/12/04 11/13/08 11/13/09 02/26/93 03/24/93 05/28/93 06/21/93	12.43 12.31 12.16 11.88 12.54 13.15 12.57 11.77 12.52 13.64 13.04 13.04 12.80 12.18 12.26 12.66 12.66 12.66 11.96 12.61 12.61 12.81 12.43 12.11 12.12 12.52 11.67 11.78 11.78 11.35 11.46 11.77 11.92	12.39 12.28 12.13 11.85 12.51 12.97 12.54 11.75 13.50 13.01	0.04 0.03 0.03 0.03 0.18 0.03 0.02 0.00 0.01 0.01 0.00 0.00 0.00 0.00	26.34 26.32 26.23	13.94 14.05 14.48 13.82 13.33 13.79 14.59 13.82 12.81 13.32 14.93 14.04 13.69 14.16 13.69 14.16 13.69 14.16 13.69 14.16 14.28 13.74 13.68 14.32 13.42 13.91 14.11 13.71 14.56 14.45 14.45 14.41 14.41 14.41 14.43 14.40 14.25	SPH 5,600 SPH SPH SPH SPH SPH SPH SPH 530 2,200 SPH 7,800 1,100 SPH 1,100 1,200 1,200 870 347 876 801 4,100 522 575 687 191 1,200 750 660		SPH 110,000 SPH SPH SPH SPH SPH SPH 59,000 54,000 54,000 SPH 13,000 64,000 110,000 64,000 19,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 3,000	SPH SPH SPH SPH SPH SPH SPH SPH SPH	SPH 5 SPH SPH SPH SPH SPH SPH 5.2 < 0.5 SPH < 0.5 < 0.5 SPH < 1.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	SPH 6 SPH SPH SPH SPH SPH SPH 4 0.5 4 0.5 5 0.5 SPH 4 0.5 4	SPH 5 SPH	SPH 16 SPH SPH SPH SPH SPH SPH 4 0.5 4 0.5 5 0.5 SPH 4 0.5 4 0.5 5 0.5 SPH 5 0.5 5 0	SPH < 30 SPH SPH SPH SPH SPH SPH SPH SPH	SPH SPH SPH SPH SPH SPH SPH SPH
MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3	2 2 2 2 2 2 2 2 2 2	06/09/97 08/25/97 11/28/97 11/28/97 02/12/98 05/20/98 08/11/99 05/20/98 08/11/99 05/11/99 05/11/99 05/11/99 05/11/99 05/11/99 05/11/99 05/11/99 05/11/99 05/11/99 01/25/00 05/03/00 08/02/00 11/07/00 02/15/01 04/26/01 07/23/01 11/01/01 03/28/02 09/07/02 12/11/02 03/12/03 06/05/03 09/26/03 12/05/03 02/12/04 11/13/092 02/26/93 03/24/93 04/27/93 05/28/93 06/21/93 06/21/93 06/21/93	12.43 12.31 12.16 11.88 12.54 13.15 12.57 11.77 12.52 13.64 13.04 13.04 12.80 12.18 11.61 12.26 12.66 11.96 12.66 11.96 12.61 12.81 12.11 12.12 12.52 11.67 11.78 12.00 11.53 11.35 11.46 11.74 11.77 11.92	12.39 12.28 12.13 11.85 12.51 12.97 12.54 11.75 13.50 13.01	0.04 0.03 0.03 0.03 0.03 0.03 0.18 0.03 0.02 0.00 0.00 0.00 0.00 0.00 0.00	26.34 26.36 26.23 26.17 26.17 26.17 26.17 26.17 26.17 26.17 26.17 26.17 26.17 26.17 26.17 26.17 26.17	13.94 14.05 14.20 14.48 13.82 13.33 13.79 14.59 13.82 12.81 13.32 14.04 13.69 14.16 14.73 14.28 13.74 13.68 14.38 14.32 13.42 13.41 13.51 14.12 14.11 13.71 14.56 14.45 14.45 14.43 14.43 14.43 14.44 14.40 14.25 14.22	SPH 5,600 SPH SPH SPH SPH SPH SPH 530 2,200 SPH 7,800 1,100 SPH 1,100 1,200 1,200 800 870 347 876 801 640 640 522 575 687 191 1,200 750 660		SPH 110,000 SPH SPH SPH SPH SPH 59,000 54,000 SPH 13,000 110,000 64,000 110,000 62,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 3,000 1,000 3,000 1,000 3,000 1,000 1,000 3,000 1,000 3,000 1,000 3,0	SPH SPH SPH SPH SPH SPH SPH SPH	SPH 5 SPH SPH SPH SPH SPH 52 < 0.5 SPH < < 5.0 < 0.5 SPH < < 1.0 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	SPH 6 SPH SPH SPH SPH SPH SPH < 0.5 < 0.5 SPH 0.5 SP	SPH 5 SPH	SPH 16 SPH SPH SPH SPH SPH SPH < 0.5 < 0.5 SPH < 5.0 SPH < 0.5 < 0.5 SPH < 0.5	SPH < 30 SPH SPH SPH SPH SPH SPH SPH	SPH

			Depth to	GROUNDY Depth to	VATER LEV Stand Prod	ELS Casing	Groundwater				LABOR	ATORY ANA	LYTICAL R	ESULTS			
Well		Sample	Groundwater	Product	Thickness	Elevation	Elevation	TPH_{g}	TPH_d	TPH _o	TRPH	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved
ID	Notes	Period	(ft bgs)	(ft bgs)	(ft)	(ft MSL)	(ft MSL)	$(\mu g/L)$	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	Metals
MW-4		11/03/93	12.10		0.00	26.17	14.07										
MW-4 MW-4		11/24/93	12.02 11.78		0.00	26.17	14.15 14.39	150		200		-0.2					aND
MW-4		12/01/93 12/27/93	11./8		0.00	26.17 26.17	14.39	150		390		< 0.3	< 0.3	< 0.3	< 0.5		
MW-4		01/05/94	11.91		0.00	26.17	14.26										
MW-4		02/08/94	11.85		0.00	26.17	14.32										
MW-4		03/09/94	11.61		0.00	26.17	14.56	1,500		780		0.7	0.8	2	3.6		*ND
MW-4		04/01/94	11.73		0.00	26.17	14.44										
MW-4 MW-4		05/10/94 06/30/94	11.49 11.90		0.00	26.17 26.17	14.68 14.27	450		130		< 0.3	1.7	0.5	1		ND
MW-4		07/28/94	11.97	-	0.00	26.17	14.20										
MW-4		08/31/94	12.06		0.00	26.17	14.11										
MW-4		09/27/94	12.11		0.00	26.17	14.06	110		1,100		0.5	< 0.3	< 0.3	< 0.5		ND
MW-4		10/28/94	12.18		0.00	26.17	13.99										
MW-4 MW-4		11/15/94	10.72 11.37		0.00	26.17 26.17	15.45 14.80	290		580		0.6	0.5	0.3	0.8		< ^a 5
MW-4		01/04/95	11.37		0.00	26.17	14.97										< "5
MW-4		02/01/95	11.16		0.00	26.17	15.01										
MW-4		03/08/95	11.49		0.00	26.17	14.68	360		1,000		< 0.3	< 0.3	< 0.3	< 0.5		< ^a 5
MW-4		04/03/95	11.35		0.00	26.17	14.82										
MW-4		05/08/95	11.56		0.00	26.17	14.61	64		1 100			0.4		-0.5		< ^a 5
MW-4 MW-4		06/09/95 07/13/95	11.72 11.72		0.00	26.17 26.17	14.45 14.45	64		1,100		< 0.3	0.4	< 0.3	< 0.5		< "5
MW-4		08/31/95	11.72		0.00	26.17	14.36										
MW-4		08/29/95	11.88		0.00	26.17	14.29	< 0.5		1,200		< 0.3	< 0.3	< 0.3	< 0.5		< ^a 5
MW-4		09/15/95	11.99		0.00	26.17	14.18										
MW-4		10/20/95	12.00		0.00	26.17	14.17			2.100							aND.
MW-4 MW-4		11/15/95 01/15/96	11.96 11.71		0.00	26.17 26.17	14.21 14.46	< 0.5		2,100		< 0.5	< 0.5	< 0.5	< 0.5		aND
MW-4		03/05/96	11.02	-	0.00	26.17	15.15	< 100		590		< 0.5	< 1.0	< 1.0	< 2.0		aND
MW-4		04/19/96	11.51		0.00	26.17	14.66										
MW-4		05/10/96	11.74		0.00	26.17	14.43										
MW-4		06/03/96	11.60		0.00	26.17	14.57										
MW-4 MW-4		06/04/96	11.85		0.00	26.17 26.17	14.32	< 100 < 100		860 600		< 0.5 < 0.5	< 1.0 < 1.0	< 1.0 < 1.0	< 2.0		ND
MW-4		12/02/96	11.45		0.00	26.17	14.72	< 100		940		< 0.5	< 1.0	< 1.0	< 2.0		
MW-4		02/26/97	11.42		0.00	26.17	14.75	< 100		390		< 0.5	< 1.0	< 1.0	< 2.0		
MW-4		06/09/97	11.70		0.00	26.17	14.47	< 100		630		< 0.5	< 1.0	< 1.0	< 2.0	< 10	
MW-4		08/25/97	11.63		0.00	26.17	14.54	< 50		< 200		< 0.5	< 0.5	< 0.5	< 2.0	< 5	
MW-4 MW-4		11/28/97	11.27		0.00	26.17	14.90	120		< 200		3.6	3.9	3.7	12	< 5	
MW-4 MW-4		02/12/98 05/20/98	11.00 11.62		0.00	26.17 26.17	15.17 14.55	< 50 < 50		< 200 300		< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 2.0	< 5 < 5	
MW-4		08/11/98	11.90		0.00	26.17	14.27	< 50		< 500		< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	
MW-4		11/10/98	11.65		0.00	26.17	14.52	62		610		< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	
MW-4		02/11/99	10.87		0.00	26.17	15.30	140		< 500		< 0.50	2.4	1.3	6.5	8.0	
MW-4		05/11/99	11.66		0.00	26.17	14.51	< 50		330		< 0.5	< 0.5	< 0.5	< 0.5	< 2.0	
MW-4 MW-4		08/10/99 10/26/99	11.95 11.40		0.00	26.17 26.17	14.22 14.77	470 < 50		< 250 1,300		< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	2.6 < 0.5	2.5 3.5/2.2 ⁱ	
MW-4		02/25/00	10.75	_	0.00	26.17	15.42	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	2.4	
MW-4		05/03/00	11.55		0.00	26.17	14.62	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	2.5	
MW-4		08/02/00	11.70		0.00	26.17	14.47	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	2.9	
MW-4		11/07/00	11.45		0.00	26.17	14.72	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	2.9	
MW-4		02/15/01	10.98	-	0.00	26.17	15.19	< 50		< 100		< 0.5/0.5 ¹ < 0.5	< 0.5/0.5 ⁱ	< 0.5/0.5 ⁱ	< 0.5/0.5	2.4	
MW-4 MW-4		04/26/01 07/23/01	11.35 11.79		0.00	26.17 26.17	14.82 14.38	< 50 < 50		< 100 < 100		< 0.5/0.5 ⁱ	< 0.5 < 0.5/0.5 ⁱ	< 0.5 < 0.5/0.5 ⁱ	< 0.5 < 0.5/0.5 ⁱ	2.8	
MW-4		11/01/01	11.77		0.00	26.17	14.40	< 50		< 100		< 0.5/0.5 ⁱ	< 0.5/0.5 ⁱ	< 0.5/0.5 ⁱ	< 0.5/0.5 ⁱ	3.3	
MW-4	2	03/28/02	11.17	-	0.00	26.17	15.00	< 50	< 50	< 500		< 0.5	< 0.5	< 0.5	< 1	< 5	
MW-4	2	06/06/02	11.29		0.00	26.07	14.78	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-4	2	09/07/02	11.80		0.00	26.07	14.27	< 50	< 500	< 2,000		< 1	< 1	<1	< 2	2.2	
MW-4 MW-4	2	12/11/02 03/12/03	11.60 11.39		0.00	26.07 26.07	14.57 14.68	< 50 < 50	< 500 < 500	< 2,000 < 2,000		< 1	< 1	< 1	< 2	2.2	
MW-4	2	06/05/03	11.45	-	0.00	26.07	14.62	< 50	< 500	< 2,000		< 1	< 1	<1	< 2	3.0	
MW-4	2	09/26/03	11.75		0.00	26.07	14.32	< 50	< 500	< 2,000		< 1	< 1	<1	< 2	2	
MW-4	2	12/05/03	11.05		0.00	26.07	15.02	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-4	2	02/12/04	11.21		0.00	26.07	14.86	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	2.4	
MW-4	2	11/13/08	11.33		0.00	26.07	14.74	< 50	< 500	< 2,000		< 0.5	< 0.5	< 0.5	< 1	< 1	 bc5
MW-5 MW-5		12/30/92 02/26/93	10.50 10.12		0.00	26.98 26.98	16.48 16.86	37			< 1	< 0.3	< 0.3	< 0.3	< 0.5		
MW-5		03/24/93	10.12	-	0.00	26.98	16.67	19			2	< 0.3	< 0.3	< 0.3	0.5		*°341
MW-5		04/27/93	10.75		0.00	26.98	16.23										
MW-5		05/28/93	10.80		0.00	26.98	16.18										
MW-5		06/21/93	10.94		0.00	26.98	16.04	< 10		< 100		< 0.3	< 0.3	< 0.3	< 0.5		°ND
MW-5		07/22/93	11.01		0.00	26.98	15.97										
MW-5 MW-5		08/13/93 09/16/93	11.07 11.18		0.00	26.98 26.98	15.91 15.80	< 10		< 100		0.3	< 0.3	< 0.3	1		°ND
MW-5		10/22/93	11.18		0.00	26.98	15.79	< 10		< 100		0.3	< 0.3	< 0.3			
MW-5		11/03/93	11.23		0.00	26.98	15.75										
MW-5		11/24/93	12.00		0.00	26.98	14.98										
MW-5		12/01/93	10.84		0.00	26.98	16.14	17				< 0.3	< 0.3	< 0.3	1		°ND
MW-5		12/27/93	10.81		0.00	26.98	16.17										
MW-5		12/30/93								< 100							

			Depth to	GROUNDY Depth to	VATER LEV Stand Prod	ELS Casing	Groundwater				LABOR	ATORY ANA	LYTICAL F	RESULTS			
Well		Sample	Groundwater	Product	Thickness	Elevation	Elevation	TPH_{g}	TPH_d	TPH _o	TRPH	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved
ID	Notes	Period	(ft bgs)	(ft bgs)	(ft)	(ft MSL)	(ft MSL)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µ g/L)	(µg/L)	Metals
MW-5		01/05/94	10.96		0.00	26.98	16.02										
MW-5		02/08/94	10.94		0.00	26.98	16.04										
MW-5		03/09/94	10.54		0.00	26.98	16.44	22		< 100		< 0.3	< 0.3	< 0.3	< 0.5		°ND
MW-5		04/01/94	10.77		0.00	26.98	16.21										
MW-5 MW-5		05/10/94	10.44	-	0.00	26.98 26.98	16.54 16.10	< 10		< 100		< 0.3	< 0.3	< 0.3	< 0.5		ND
MW-5		07/28/94	10.88	-	0.00	26.98	16.00	< 10		< 100			< 0.3	< 0.5	< 0.5		
MW-5		08/31/94	11.07		0.00	26.98	15.91										
MW-5		09/27/94	11.12		0.00	26.98	15.86	< 10		560		0.5	0.4	< 0.3	< 0.5		ND
MW-5		10/28/94	11.21	-	0.00	26.98	15.77										
MW-5		11/15/94	10.05		0.00	26.98	16.93										
MW-5		12/01/94	10.39		0.00	26.98	16.59	< 10		< 250		< 0.3	< 0.3	< 0.3	< 0.5		ND
MW-5		01/04/95	10.18		0.00	26.98	16.80										
MW-5		02/01/95	9.93		0.00	26.98	17.05										
MW-5		03/08/95	10.35		0.00	26.98	16.63	< 10		< 250		< 0.3	< 0.3	< 0.3	< 0.5		ND
MW-5		04/03/95	10.15		0.00	26.98	16.83										
MW-5 MW-5		05/18/95	10.43		0.00	26.98 26.98	16.55 16.36	< 50		< 250		< 0.3	< 0.3	< 0.3	< 0.5		 ^d 7
MW-5		07/13/95	10.76		0.00	26.98	16.22										
MW-5		08/03/95	10.82		0.00	26.98	16.16										
MW-5		08/29/95	10.91		0.00	26.98	16.07	< 50		< 250		< 0.3	< 0.3	< 0.3	< 0.5		^h 36
MW-5		09/15/95	11.00		0.00	26.98	15.98										
MW-5		10/20/95	11.02		0.00	26.98	15.96										
MW-5		11/15/95	11.95		0.00	26.98	15.03	< 50		< 200		< 0.5	< 0.5	< 0.5	< 0.5		ND
MW-5		01/15/96	10.57		0.00	26.98	16.41										
MW-5		03/05/96	9.81		0.00	26.98	17.17	< 100		< 200		< 0.5	< 1.0	< 1.0	< 2.0		ND
MW-5 MW-5		04/19/96 05/10/96	10.32 10.56	-	0.00	26.98 26.98	16.66 16.42										
MW-5		06/03/96	10.36	-	0.00	26.98	16.52										
MW-5		09/04/96	10.86		0.00	26.98	16.12	< 100		310		< 0.5	< 1.0	< 1.0	< 2.0		
MW-5		12/02/96	10.45		0.00	26.98	16.53										
MW-5		02/26/97	10.38		0.00	26.98	16.60	< 100		< 200		< 0.5	< 1.0	< 1.0	< 2.0		
MW-5		06/09/97	10.78		0.00	26.98	16.20										
MW-5		08/25/97	10.69		0.00	26.98	16.29	< 50		< 200		< 0.5	< 0.5	< 0.5	< 2.0	< 5	
MW-5		11/28/97	10.15		0.00	26.98	16.83										
MW-5		02/12/98	9.55		0.00	26.98	17.43	< 50		< 200		< 0.5	< 0.5	< 0.5	< 0.5	< 5	
MW-5		05/20/98	10.29		0.00	26.98	16.69						. 0.5				
MW-5 MW-5		08/11/98 11/10/98	10.67		0.00	26.98 26.98	16.31 16.39	< 50		< 500		< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	
MW-5		02/11/99	9.75		0.00	26.98	17.23	< 50		< 500		< 0.5	< 0.5	< 0.5	< 0.5	3.2	
MW-5		05/11/99	10.38		0.00	26.98	16.60										
MW-5		08/10/99	10.77		0.00	26.98	16.21	< 50		< 250		< 0.5	< 0.5	< 0.5	< 0.5	5.6	
MW-5		10/26/99	10.95		0.00	26.98	16.03										
MW-5		02/25/00	9.50		0.00	26.98	17.48	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	3.5	
MW-5		05/03/00	10.40		0.00	26.98	16.58	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	2.9	
MW-5		08/02/00	10.70		0.00	26.98	16.28	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	5.2	
MW-5		11/07/00	10.38		0.00	26.98	16.60	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	4.2	
MW-5		02/15/01	9.77		0.00	26.98	17.21	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	3.1	
MW-5 MW-5		04/26/01 07/23/01	10.17		0.00	26.98 26.98	16.81 16.34	< 50 < 50		< 100 < 100		< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	2.4 3.5	
MW-5		11/01/01	10.58	-	0.00	26.98	16.40	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	3.8	
MW-5	2	03/28/02	10.02		0.00	26.98	16.96	< 50	< 50	< 500		< 0.5	< 0.5	< 0.5	< 1	< 5	
MW-5	2	06/06/02	10.20		0.00	26.91	16.71	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-5	2	09/07/02	10.62		0.00	26.91	16.29	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	2.0	
MW-5	2	12/11/02	10.40		0.00	26.91	16.58	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	2.0	
MW-5	2	03/12/03	10.37		0.00	26.91	16.54	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	2.6	
MW-5	2	06/05/03	10.40		0.00	26.91	16.51	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	2.0	
MW-5	2	09/26/03	10.68		0.00	26.91	16.23	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-5 MW-5	2	12/05/03 02/12/04	9.92		0.00	26.91 26.91	16.99	< 50 < 50	< 500 < 500	< 2,000 < 2,000		<1	<1	<1	< 2	< 2	
MW-5 MW-5	2	11/13/08	10.10	-	0.00	26.91	16.81 16.54	< 50 < 50	< 500 < 500	< 2,000		< 0.5	< 0.5	< 1 < 0.5	< 2	< 2	
MW-6		12/27/93	11.24		0.00	24.32	13.08	< 10	< 500	< 100	<1	< 0.3	< 0.3	< 0.3	< 0.5		a70
MW-6		01/05/94	11.39		0.00	24.32	12.93										
MW-6		02/08/94	11.15		0.00	24.32	13.17										
MW-6		03/09/94	10.97		0.00	24.32	13.35	15		< 100		< 0.3	< 0.3	< 0.3	< 0.5		°ND
MW-6		04/01/94	11.25		0.00	24.32	13.07										
MW-6		05/10/94	10.78		0.00	24.32	13.54										
MW-6		06/30/94	11.49		0.00	24.32	12.83	< 10		< 100		< 0.3	< 0.3	< 0.3	< 0.5		ND
MW-6	1	07/28/94	11.59		0.00	24.32	12.73										
MW-6 MW-6		08/31/94 09/27/94	11.56 11.65		0.00	24.32 24.32	12.76						< 0.2	< 0.3	< 0.5		 ^d 8
MW-6		10/28/94	11.65		0.00	24.32	12.67 12.73	< 10		< 250		< 0.3	< 0.3	< 0.3	< 0.5		
MW-6	1	11/15/94	10.24		0.00	24.32	14.08										
MW-6		12/01/94	10.30		0.00	24.32	14.02	< 10		< 250		< 0.3	< 0.3	< 0.3	< 0.5		^z 32
MW-6		01/04/95	9.81		0.00	24.32	14.51										
MW-6		02/01/95	10.01		0.00	24.32	14.31										
MW-6		03/08/95	10.64		0.00	24.32	13.68	< 10		< 250		< 0.3	< 0.3	< 0.3	< 0.5		ND
MW-6	<u> </u>	04/03/95	10.26		0.00	24.32	14.06										
MW-6	1	05/18/95	10.81		0.00	24.32	13.51										
MW-6		06/09/95	11.07		0.00	24.32	13.25	< 10		< 250		< 0.3	< 0.3	< 0.3	< 0.5		ND
MW-6	1	07/13/95	10.91		0.00	24.32	13.41										

			Depth to	GROUNDY Depth to	Stand Prod	ELS Casing	Groundwater				LABOR	ATORY ANA	LYTICAL F	RESULTS			
Well		Sample	Groundwater	Product	Thickness	Elevation	Elevation	$\mathbf{TPH}_{\mathbf{g}}$	TPH_d	TPH_o	TRPH	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved
ID	Notes	Period	(ft bgs)	(ft bgs)	(ft)	(ft MSL)	(ft MSL)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	Metals
MW-6		08/03/95	11.15		0.00	24.32	13.17										
MW-6 MW-6		08/29/95 09/15/95	11.09 11.35		0.00	24.32 24.32	13.23 12.97	> 50		< 250		< 0.3	< 0.3	< 0.3	< 0.5		^h 24
MW-6		10/20/95	11.35		0.00	24.32	13.00										
MW-6		11/15/95	11.20	-	0.00	24.32	13.12	< 50		< 200		< 0.5	< 0.5	< 0.5	< 0.5		^z 31
MW-6		01/15/96	10.83		0.00	24.32	13.49										
MW-6		03/05/96	9.60		0.00	24.32	14.72	< 100		< 200		< 0.5	< 1.0	< 1.0	< 2.0		ND
MW-6		04/19/96	10.71		0.00	24.32	13.61	***							***		
MW-6 MW-6		05/10/96 06/03/96	11.05 10.91		0.00	24.32 24.32	13.27 13.41										
MW-6		09/04/96	10.84	-	0.00	24.32	13.48	< 100		230		< 0.5	< 1.0	< 1.0	< 2.0		
MW-6		12/02/96	10.46		0.00	24.32	13.86										
MW-6		02/26/97	10.46		0.00	24.32	13.86	< 100		< 200		< 0.5	< 1.0	< 1.0	< 2.0		
MW-6		06/09/97	10.90		0.00	24.32	13.42										
MW-6 MW-6		08/25/97 11/28/97	10.84		0.00	24.32 24.32	13.48 14.25	< 50		< 200		< 0.5	1.1	< 0.5	< 2.0	< 5	
MW-6		02/12/98	9.39		0.00	24.32	14.93	< 50		< 200		< 0.5	< 0.5	< 0.5	< 2.0	< 5	
MW-6		05/20/98	10.85		0.00	24.32	13.47										
MW-6		08/11/98	11.21		0.00	24.32	13.11	< 50		< 500		< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	
MW-6		11/10/98	10.82		0.00	24.32	13.50										
MW-6 MW-6	 	02/11/99 05/11/99	9.39 10.84		0.00	24.32 24.32	14.93 13.48	< 50		< 500		< 0.5	< 0.5	< 0.5	< 0.5	7.1	
MW-6	1	08/10/99	11.28		0.00	24.32	13.48	< 50		< 250		< 0.5	< 0.5	< 0.5	< 0.5	< 2	
MW-6		10/26/99	11.43	-	0.00	24.32	12.89										
MW-6		02/25/00	9.27	-	0.00	24.32	15.05	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-6	1	05/03/00	10.78		0.00	24.32	13.54	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-6 MW-6	1	08/02/00	10.92 10.55		0.00	24.32 24.32	13.40 13.77	< 50 < 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0.5	
MW-6 MW-6		11/07/00 02/15/01	9.66		0.00	24.32	14.66	< 50 < 50		< 100 < 100		< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	
MW-6		04/26/01	10.40	-	0.00	24.32	13.92	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-6		07/23/01	11.00		0.00	24.32	13.32	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-6		11/01/01	10.97	-	0.00	24.32	13.35	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-6 MW-6	5	03/28/02	10.13 10.55		0.00	24.32 24.29	14.19 13.74										
MW-6	2	06/06/02 09/07/02	11.10		0.00	24.29	13.19	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-6	5	12/11/02	10.95	-	0.00	24.29	13.37										
MW-6	2	03/12/03	10.75		0.00	24.29	13.54	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-6	2	06/05/03	10.86		0.00	24.29	13.43	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-6	2	09/26/03	11.13		0.00	24.29	13.16	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-6 MW-6	2	12/05/03 02/12/04	10.15 10.41		0.00	24.29 24.29	14.14	< 50 < 50	< 500 < 500	< 2,000 < 2,000		< 1	< 1	< 1	< 2	< 2	
MW-6	2	11/13/08	10.57		0.00	24.29	13.72	< 50	< 500	< 2,000		< 0.5	< 0.5	< 0.5	< 1	< 1	
MW-7		12/27/93	11.80		0.00	24.88	13.08	140		100	<1	< 0.3	< 0.3	1	2		a40
MW-7		01/05/94	11.53		0.00	24.88	13.35										
MW-7		02/08/94	11.90		0.00	24.88	12.98										°ND
MW-7 MW-7		03/09/94	11.23 11.34		0.00	24.88 24.88	13.65	620		< 100		< 0.3	< 1.0	1.5	4.1		ND
MW-7		05/10/94	11.02		0.00	24.88	13.86										
MW-7		06/30/94	11.49		0.00	24.88	13.39	33		< 100		< 0.3	< 0.3	< 0.3	< 0.5		ND
MW-7		07/28/94	11.58		0.00	24.88	13.30										
MW-7		08/31/94	11.69		0.00	24.88	13.19			Caro							
MW-7 MW-7		09/27/94 10/28/94	11.73	-	0.00	24.88	13.15	52		< °250		< 0.3	< 0.3	0.4	0.7		ND
MW-7		11/15/94	10.29		0.00	24.88	14.59										
MW-7		12/01/94	10.89		0.00	24.88	13.99	< 10		< °250		< 0.3	< 0.3	< 0.3	1.1		^z 28
MW-7		01/04/95	10.77		0.00	24.88	14.11										
MW-7		02/01/95	10.70	-	0.00	24.88	14.18										
MW-7 MW-7		03/08/95	11.05 10.88		0.00	24.88 24.88	13.83 14.00	< 10		< °250		< 0.3	< 0.3	< 0.3	< 0.5		ND
MW-7		05/18/95	11.12		0.00	24.88	13.76										
MW-7		06/09/95	11.25		0.00	24.88	13.63	< 50		< 250		< 0.3	< 0.3	< 0.3	< 0.5		ND
MW-7		07/13/95	11.15		0.00	24.88	13.73										
MW-7		08/03/95	11.32		0.00	24.88	13.56										
MW-7 MW-7		08/29/95	11.53 11.65		0.00	24.88	13.35	< 50		< 250		< 0.3	< 0.3	< 0.3	< 0.5		h13
MW-7 MW-7		09/15/95 10/20/95	11.65	-	0.00	24.88 24.88	13.23										
MW-7		11/15/95	11.60		0.00	24.88	13.24	< 50		< 200		< 0.5	< 0.5	< 0.5	< 0.5		ND
MW-7		01/15/96	11.07		0.00	24.88	13.81										
		03/05/96	10.50		0.00	24.88	14.38	< 100		270		< 0.5	< 1.0	< 1.0	< 2.0		ND
MW-7		04/19/96	12.02		0.00	24.88	12.86										
MW-7			11.14		0.00	24.88 24.88	13.74										
MW-7 MW-7		05/10/96															
MW-7		05/10/96 06/03/96 09/04/96	11.10 11.45		0.00	24.88	13.43	< 100		< 200		< 0.5	< 1.0	< 1.0	< 2.0		
MW-7 MW-7 MW-7		06/03/96	11.10					< 100		< 200		< 0.5	< 1.0	< 1.0	< 2.0		
MW-7 MW-7 MW-7 MW-7 MW-7		06/03/96 09/04/96 12/02/96 02/26/97	11.10 11.45 10.96 11.02		0.00 0.00 0.00	24.88 24.88 24.88	13.43 13.92 13.86										
MW-7 MW-7 MW-7 MW-7 MW-7 MW-7		06/03/96 09/04/96 12/02/96 02/26/97 06/09/97	11.10 11.45 10.96 11.02 11.34		0.00 0.00 0.00 0.00	24.88 24.88 24.88 24.88	13.43 13.92 13.86 13.54	 < 100		 < 200 		 < 0.5 	< 1.0	< 1.0 	< 2.0 		
MW-7 MW-7 MW-7 MW-7 MW-7 MW-7 MW-7		06/03/96 09/04/96 12/02/96 02/26/97 06/09/97 08/25/97	11.10 11.45 10.96 11.02 11.34 11.25		0.00 0.00 0.00 0.00 0.00	24.88 24.88 24.88 24.88 24.88	13.43 13.92 13.86 13.54 13.63	< 100 < 50		< 200 < 200		< 0.5 < 0.5	< 1.0 < 0.5	< 1.0 < 0.5	< 2.0 < 2.0	 < 0.5	
MW-7 MW-7 MW-7 MW-7 MW-7 MW-7 MW-7 MW-7		06/03/96 09/04/96 12/02/96 02/26/97 06/09/97 08/25/97 11/28/97	11.10 11.45 10.96 11.02 11.34 11.25 10.69		0.00 0.00 0.00 0.00 0.00 0.00	24.88 24.88 24.88 24.88 24.88 24.88	13.43 13.92 13.86 13.54 13.63 14.19	< 100 < 50		< 200 < 200 		< 0.5 < 0.5	< 1.0 < 0.5	< 1.0 < 0.5	< 2.0 < 2.0	 < 0.5	
MW-7 MW-7 MW-7 MW-7 MW-7 MW-7 MW-7		06/03/96 09/04/96 12/02/96 02/26/97 06/09/97 08/25/97	11.10 11.45 10.96 11.02 11.34 11.25		0.00 0.00 0.00 0.00 0.00	24.88 24.88 24.88 24.88 24.88	13.43 13.92 13.86 13.54 13.63	< 100 < 50		< 200 < 200		< 0.5 < 0.5	< 1.0 < 0.5	< 1.0 < 0.5	< 2.0 < 2.0	 < 0.5	

			Depth to	GROUNDY Depth to	Stand Prod	ELS Casing	Groundwater				LABOR	ATORY ANA	LYTICAL F	RESULTS			
Well		Sample	Groundwater	Product	Thickness	Elevation	Elevation	$\mathbf{TPH}_{\mathbf{g}}$	TPH_d	TPH _o	TRPH	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved
ID	Notes	Period	(ft bgs)	(ft bgs)	(ft)	(ft MSL)	(ft MSL)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µ g/L)	(µg/L)	Metals
MW-7		11/10/98	11.21		0.00	24.88	13.67										
MW-7 MW-7		02/11/99	10.27 11.25		0.00	24.88 24.88	14.61	130		< 500		< 0.5	< 0.5	< 0.5	< 0.5	5.8	
MW-7		08/10/99	11.65		0.00	24.88	13.23	< 50		< 250		< 0.5	< 0.5	< 0.5	< 0.5	< 2.0	
MW-7		10/26/99	11.76		0.00	24.88	13.12										
MW-7		02/25/00	10.40		0.00	24.88	14.48	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-7		05/03/00	11.16		0.00	24.88	13.72	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-7 MW-7		08/02/00 11/07/00	11.25 11.03		0.00	24.88 24.88	13.63 13.85	< 50 < 50		< 100 < 100		< 0.5 < 0.5					
MW-7		02/15/01	10.56		0.00	24.88	14.32	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-7		04/26/01	10.95		0.00	24.88	13.93	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-7		07/23/01	11.50		0.00	24.88	13.38	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-7	-	11/01/01	11.55		0.00	24.88	13.33	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-7 MW-7	5	03/28/02	10.77		0.00	24.88	14.11										
MW-7	2	09/07/02	11.65		0.00	24.84	13.19	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-7	5	12/11/02	11.30		0.00	24.84	13.58										
MW-7	2	03/12/03	11.12		0.00	24.84	13.72	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-7	2	06/05/03	11.14		0.00	24.84	13.70	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-7 MW-7	2	09/26/03	11.60		0.00	24.84	13.24	< 50	< 500	< 2,000		<1	<1	<1	< 2	< 2	
MW-7 MW-7	2,3	12/05/03 12/0503	10.02		0.00	24.84	14.82 14.82	< 50 < 50	< 500 < 500	< 2,000 < 2,000		<1	<1	< 1	< 2	< 2	
MW-7	2	02/12/04	10.85		0.00	24.84	13.99	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-7	2	11/13/08	11.15		0.00	24.84	13.69	< 50	< 500	< 2,000		< 0.5	< 0.5	< 0.5	< 1	< 1	
MW-8	1	12/27/93	12.45		0.00	26.12	13.67	390		< 100	< 1	0.4	4	0.4	1		*18
MW-8	1	01/05/94	12.57		0.00	26.12	13.55										
MW-8 MW-8	1	02/08/94	12.02 12.22		0.00	26.12 26.12	14.10 13.90	420		< 100		0.6	0.8	0.5	1.5		aND
MW-8		04/01/94	12.33		0.00	26.12	13.79										
MW-8		05/10/94	12.00		0.00	26.12	14.12										
MW-8		06/30/94	12.52		0.00	26.12	13.60	250		< 100		< 0.9	< 0.3	< 0.3	1.1		ND
MW-8		07/28/94	12.61		0.00	26.12	13.51										
MW-8 MW-8		08/31/94 09/27/94	12.72 12.80		0.00	26.12 26.12	13.40 13.32	210		 < °250		< 0.3	< 0.3	< 0.3	< 0.5		 d9
MW-8		10/28/94	12.84	-	0.00	26.12	13.28										
MW-8		11/15/94	11.72		0.00	26.12	14.40										
MW-8		12/01/94	11.87		0.00	26.12	14.25	230		< °250		5.4	< 0.3	0.7	1.3		°ND
MW-8		01/04/95	11.75		0.00	26.12	14.37										
MW-8 MW-8		02/01/95	11.64 12.04		0.00	26.12 26.12	14.48 14.08	230		< °250		< 0.3	< 0.3	< 0.3	< 0.5		ND
MW-8		04/03/95	11.86		0.00	26.12	14.26										
MW-8		05/18/95	12.11		0.00	26.12	14.01										
MW-8		06/09/95	12.34		0.00	26.12	13.78	< 50		< °250		< 0.3	< 0.3	< 0.3	< 0.5		ND
MW-8		07/13/95	12.37		0.00	26.12	13.75										
MW-8 MW-8		08/03/95 08/29/95	12.50 12.55		0.00	26.12 26.12	13.62 13.57	200		< °250		0.9	0.4	< 0.3	0.8		 h ₁₅
MW-8		09/15/95	12.70		0.00	26.12	13.42	200		< 250				< 0.3			
MW-8		10/20/95	12.69		0.00	26.12	13.43										
MW-8		11/15/95	12.67		0.00	26.12	13.45	120				0.58	< 0.5	< 0.5	0.54		^z 21
MW-8		12/11/95	11.80		0.00	26.12	14.32										
MW-8		01/15/96	12.38	-	0.00	26.12	13.74	. 100					. 1.0				NID.
MW-8 MW-8		03/05/96	11.44		0.00	26.12	14.68 15.32	< 100		< °200		0.6	< 1.0	< 1.0	< 2.0		ND
MW-8		05/10/96	12.40		0.00	26.12	13.72										
MW-8		06/03/96	12.26		0.00	26.12	13.86	100				< 0.5	< 1	< 1	< 2		
MW-8		09/04/96	12.51	-	0.00	26.12	13.61	110		< 200		< 0.5	< 1	< 1	< 2		
MW-8	-	12/02/96	11.99		0.00	26.12	14.13	110		< 200		< 0.5	< 1	< 1	< 2		
MW-8 MW-8	1	02/26/97	11.98 12.36		0.00	26.12 26.12	14.14 13.76	< 100 110		< 200 < 200		< 0.5 < 0.5	< 1	< 1	< 2	< 10	
MW-8		08/25/97	12.25	-	0.00	26.12	13.87	70		< 200		< 0.5	< 0.5	< 0.5	< 2	< 5	
MW-8		11/28/97	11.70		0.00	26.12	14.42	110		< 200		< 0.5	< 0.5	< 0.5	< 2	< 5	
MW-8		02/12/98	11.34		0.00	26.12	14.78	70		< 200		< 0.5	< 0.5	0.6	< 2	< 5	
MW-8	1	05/20/98	12.21		0.00	26.12	13.91	< 50		< 200		< 0.5	< 0.5	< 0.5	< 2	< 5	
MW-8 MW-8	1	08/11/98 11/10/98	12.60 12.26		0.00	26.12 26.12	13.52 13.86	52		< 500 < 250		< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 2.5 < 2.5	
MW-8 MW-8	1	02/11/99	11.00	-	0.00	26.12	15.12	52		< 250 < 500		< 0.5	< 0.5	< 0.5	< 0.5	< 2.5 < 2.5	
MW-8		05/11/99	12.29	-	0.00	26.12	13.83	< 50		< 250		< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	
MW-8		08/10/99	12.72		0.00	26.12	13.40	72		< 250		< 0.5	< 0.5	< 0.5	< 0.5	< 2.0	
MW-8		10/26/99	12.85		0.00	26.12	13.27	63		< 250		< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	
MW-8	1	02/25/00	11.20		0.00	26.12	14.92	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-8 MW-8	1	05/03/00 08/02/00	12.15 12.30		0.00	26.12 26.12	13.97 13.82	< 50 < 50		< 100 < 100		< 0.5 < 0.5					
MW-8	1	11/07/00	12.00		0.00	26.12	14.12	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-8		02/15/01	11.40		0.00	26.12	14.72	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-8		04/26/01	11.93		0.00	26.12	14.19	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-8		07/23/01	12.55		0.00	26.12	13.57	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-8	-	11/01/01	12.60		0.00	26.12	13.52	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-8 MW-8	5	03/28/02	11.69 11.86		0.00	26.12 26.00	14.43 14.14										
MW-8	2	09/07/02	12.61	-	0.00	26.00	13.39	< 50	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-8	5	12/11/02	12.30		0.00	26.00	13.82										
						_											

			Depth to		VATER LEV Stand Prod		Groundwater		I		LABOR	ATORY ANA	LYTICAL R	ESULTS	I		
Well		Sample	Groundwater	Depth to Product	Thickness	Casing Elevation	Elevation	TPH,	TPH,	TPH	TRPH	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved
ID	Notes	Period	(ft bgs)	(ft bgs)	(ft)	(ft MSL)	(ft MSL)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	Metals
MW-8	2	03/12/03	11.95				14.05		< 500					•		(µg/L)	
MW-8	2	06/05/03	12.07		0.00	26.00	13.93	< 50 < 50	< 500	< 2,000 < 2,000		<1	< 1	<1	< 2	< 2	
MW-8	2	09/26/03	12.56		0.00	26.00	13.44	< 50	< 500	< 2,000		<1	<1		< 2	< 2	
MW-8	2	12/05/03	11.45		0.00	26.00	14.55	< 50	< 500	< 2,000			< 1	<1	< 2		
MW-8	2	02/12/04	11.70		0.00	26.00	14.30	< 50	< 500	< 2,000		< 1	< 1	<1	< 2	< 2	
MW-8			12.07														
	2	11/13/08 12/02/96			0.00	26.00	13.93	< 50	< 500	< 2,000		< 0.5	< 0.5	< 0.5	< 1	< 1	
MW-9			11.52			-		210		250		< 0.5	< 1	< 1	< 2		
MW-9		02/26/97	11.55					170		340		< 0.5	< 1	< 1	< 2		
MW-9		06/09/97	11.91					130		350		0.8	< 1	< 1	< 2	< 10	
MW-9		08/25/97	11.80			-		110		< 200		< 0.5	0.8	< 0.5	< 2	< 5	
MW-9		11/28/97	11.15			-		150		< 200		< 0.5	0.5	0.9	< 2	< 5	
MW-9		02/12/98	10.63					60		< 200		< 0.5	< 0.5	< 0.5	< 2	< 5	
MW-9		05/20/98	11.73					130		< 200		< 0.5	< 0.5	0.9	< 2	< 5	
MW-9 MW-9		08/11/98	12.15 11.81			-		240		< 500 < 250		< 0.5 < 0.50	< 0.5 < 0.50	< 0.5 < 0.50	< 0.50	< 2.5	
		11/10/98						220								< 2.5	
MW-9		02/11/99	10.66					52		< 500		< 0.50	< 0.50	< 0.50	< 0.50	3.5	
MW-9		05/11/99	11.69			25.02	12.26	96		< 250		< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	
MW-9		08/10/99	12.67		0.00	25.03	12.36	130		< 250		< 0.5	< 0.5	< 0.5	0.96	< 2.0	
MW-9		10/26/99	12.28		0.00	25.03	12.75	130		< 250		< 0.5	< 0.5	< 0.5	< 0.5	3.3/2.1	
MW-9		02/25/00	10.60		0.00	25.03	14.43	< 50		< 100		< 0.5	< 0.5	< 0.5	< 0.5	0.8	
MW-9		05/03/00	11.70		0.00	25.03	13.33	150		< 100		< 0.5	< 0.5	< 0.5	< 0.5	1.5	
MW-9		08/02/00	11.88		0.00	25.03	13.15	210		< 100		< 0.5	< 0.5	< 0.5	< 0.5	2.2	
MW-9		11/07/00	11.56		0.00	25.03	13.47	190		< 100		< 0.5	< 0.5	< 0.5	< 0.5	1.4	
MW-9		02/15/01	10.95		0.00	25.03	14.08	110		< 100		< 0.5	< 0.5	< 0.5	< 0.5	1.4	
MW-9		04/26/01	11.52		0.00	25.03	13.51	150		< 100		< 0.5	< 0.5	< 0.5	< 0.5	1.6	
MW-9		07/23/01	12.09		0.00	25.03	12.94	140		< 100		< 0.5	< 0.5	< 0.5	< 0.5	1.6	
MW-9		11/01/01	12.17		0.00	25.03	12.86	310		< 100		< 0.5	< 0.5	< 0.5	< 0.5	1.5	
MW-9	2	03/28/02	11.34		0.00	25.03	13.69	55	60	< 500		< 0.5	< 0.5	< 0.5	< 1	< 5	
MW-9	2	06/06/02	11.68		0.00	24.67	12.99	102	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-9	2	09/07/02	12.29		0.00	24.67	12.38	117	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-9	2	12/11/02	12.06		0.00	24.67	12.97	123	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-9	2	03/12/03	11.80		0.00	24.67	12.87	55	< 500	< 2,000		< 1	< 1	< 1	< 2	3.3	
MW-9	2	06/05/03	11.89		0.00	24.67	12.78	50	< 500	< 2,000		< 1	< 1	< 1	< 2	2.2	
MW-9	2	09/26/03	12.26		0.00	24.67	12.41	78	< 500	< 2,000		< 1	< 1	< 1	< 2	2.2	
MW-9	2	12/05/03	11.41		0.00	24.67	13.26	56	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-9	2	02/12/04	11.56		0.00	24.67	13.11	54	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
MW-9	2	11/13/08	11.94		0.00	24.67	12.73	54	< 500	< 2,000		< 0.5	< 0.5	< 0.5	< 1	< 1	
EW-1		09/04/96				-		1,100		1,700		< 0.5	< 1	< 1	< 2		
EW-1		12/02/96	12.17			-		1,000		1,400		6.2	< 1	< 1	< 2		
EW-1		02/26/97	12.13					1,200		2,100		12	< 1	< 1	< 2.1		
EW-1		06/09/97	12.46					1,400		12,000		83	< 1	< 1	< 2.0	13	
EW-1		08/25/97	12.35					1,400		15,000		7.5	0.9	0.9	2	12	
EW-1		11/28/97	12.12					560		5,700		4.5	1.1	1.1	4	5.0	
EW-1		02/12/98	11.83					1,000		6,300		9.8	0.6	1.2	2	30	
EW-1		05/20/98	12.51					820		6,200		7.2	< 0.5	< 0.5	< 2.0	26	
EW-1		08/11/98	12.85					320		5,400		2.6	< 0.5	< 0.5	0.86	8.7	
EW-1		11/10/98	12.55					820		2,900		< 0.5	< 0.5	< 0.5	0.75	13	
EW-1		02/11/99	11.66					720		1,300		4.0	< 0.5	0.51	0.94	14	
EW-1		05/11/99	12.56			-		680		4,800		< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	
EW-1		08/10/99	12.91		0.00	26.80	13.89	730		1,100		< 0.5	< 0.5	< 0.5	< 0.5	3.6	
EW-1		10/26/99	13.00		0.00	26.80	13.80	1,500		13,000		< 0.5	< 0.5	< 0.5	< 0.5	< 50	
EW-1		02/25/00	11.41		0.00	26.80	15.39	1,100		6,300		< 0.5	< 0.5	< 0.5	< 0.5	2.2	
EW-1		05/03/00	12.36		0.00	26.80	14.44	110		3,100		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
EW-1		08/02/00	12.51		0.00	26.80	14.29	1,100		4,500		< 0.5	< 0.5	< 0.5	< 0.5	2.6	
EW-1		11/07/00	12.27		0.00	26.80	14.53	1,200		5,100		< 0.5	< 0.5	< 0.5	< 0.5	2.1	
EW-1		02/15/01	11.66		0.00	26.80	15.14	1,100		11,000		< 0.5	< 0.5	< 0.5	< 0.5	2.0	
EW-1		04/26/01	12.12		0.00	26.80	14.68	1,600		6,600		< 0.5/0.5 ⁱ	< 0.5/0.5 ⁱ	< 0.5/0.5 ⁱ	< 0.5/0.5 ⁱ	2.3	
EW-1		07/23/01	12.59		0.00	26.80	14.21	930		15,000		< 0.5	< 0.5	< 0.5	< 0.5	1.8	
EW-1		11/01/01	12.74		0.00	26.80	14.06	1200		6,000		< 0.5	< 0.5	< 0.5	< 0.5	1.7	
EW-1	2	03/28/02	11.85		0.00	26.80	14.95	930	710	< 500		< 0.5	< 0.5	< 0.5	< 1	< 5	
EW-1	2,3	03/28/02	11.85		0.00	26.80	14.95	800	510	< 500		< 0.5	< 0.5	< 0.5	< 1	< 5	
EW-1	2	06/06/02	12.09		0.00	26.39	14.30	1,040	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
EW-1	2	09/07/02	12.63		0.00	26.39	13.76	1,050	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
EW-1	2,3	09/07/02	12.63		0.00	26.39	13.76	942	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
EW-1	2	12/11/02	12.57		0.00	26.39	14.23	1040	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
EW-1	2,3	12/11/02	12.57		0.00	26.39	14.23	1100	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
EW-1	2	03/12/03	12.20		0.00	26.39	14.19	1,030	< 500	< 2,000		< 1	< 1	< 1	< 2	3.0	
EW-1	2,3	03/12/03	12.20		0.00	26.39	14.19	927	< 500	< 2,000		< 1	< 1	< 1	< 2	3.3	
EW-1	2	06/05/03	12.30		0.00	26.39	14.09	712	< 500	< 2,000		< 1	< 1	< 1	< 2	2.5	
EW-1	2,3	06/05/03	12.30		0.00	26.39	14.09	685	< 500	< 2,000		< 1	< 1	< 1	< 2	2.0	
EW-1	2	09/26/03	12.70		0.00	26.39	13.69	846	< 500	< 2,000		< 1	< 1	< 1	< 2	2.0	
EW-1	2	12/05/03	11.77		0.00	26.39	14.62	886	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
· · · · ·	· -									,							

				GROUNDY	VATER LEV	ELS					LABOR	ATORY ANA	LYTICAL F	ESULTS			
			Depth to	Depth to	Stand Prod	Casing	Groundwater										
Well		Sample	Groundwater	Product	Thickness	Elevation	Elevation	TPH_{g}	TPH _d	TPH_o	TRPH	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved
ID	Notes	Period	(ft bgs)	(ft bgs)	(ft)	(ft MSL)	(ft MSL)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µ g/L)	(µg/L)	Metals
EW-1	2	02/12/04	11.94		0.00	26.39	14.45	766	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	-
EW-1	2,3	02/12/04	11.94		0.00	26.39	14.45	833	< 500	< 2,000		< 1	< 1	< 1	< 2	< 2	
EW-1	2,3	11/13/08	12.22		0.00	26.39	14.17	406	< 500	< 2,000		< 0.5	< 0.5	< 0.5	< 1	< 1	
EW-1	2,3	11/13/08	12.22		0.00	26.39	14.17	94	< 500	< 2,000		< 0.5	< 0.5	< 0.5	< 1	< 1	

Notes: 1. "Pre-purge" sample (well not purged prior to sampling).
2. "Post-purge" sample
3. Duplicate sample analysis.
4. Well inaccessible during sampling event and not sampled.
5. Groundwater well not sampled
— Either not present or not measured.
sheen = Product sheen observed in field.
SPH = Separate phase hydrocarbons
ND = Non-detectable (Detection limits for each metal are listed in laboratory reports.)

ND = Non-detectable (Detection limits for each metal are listed in laboratory reports.)

µg[= Micrograms per liter

mg[= Miligrams per liter

* = Water samples were not filtered; analytical results represent total metals present,
not dissolved concentrations.

** = Uncategorized hydrocarbon compound not included in this hydrocarbon concentration.

*** = The carbon ranges reported under the TPH oil range analyses may have varied over the monitoring period

BTEX = Volatile aromatic constituents Benzene, Toluene, Ethylbenzene, and Xylenes by EPA Method 8020/8021B or 8260B
TPHg = Total Petroleum Hydrocarbons as gasoline range hydrocarbons by EPA Method 8015 (modified)
TPHd = Total Petroleum Hydrocarbons as diesel range hydrocarbons by EPA Method 8015 (modified)
TRPo = Total Petroleum Hydrocarbons as of irange by EPA Method 8015 (modified)
TRPH = Total Recoverable Petroleum Hydrocarbons by EPA Method 8016 (modified)
TRPH = Total Recoverable Petroleum Hydrocarbons by EPA Method 8021B/8260B
< = Analytical result less than the detection in limit indicated.
--- Either not sampled and/or not tested for given parameter
J = Analyte detection is less than the Reporting Limit and greater than or equal to the Method Detection Limit a = Dissolved lead
b = Dissolved lead only analyte detected
c = Dissolved lead, cadmium, total chromium, nickel, and zinc
d = Cadmium only analyte detected
c = Hydrocarbon pattern not characteristic of motor oil
f = Uncategorized compounds included in concentration
z = Zinc only analyte detected
h = Chromium only analyte detected

h = Chromium only analyte detected i = Duplicate sample result from EPA Method 8260A

APPENDIX C SOIL BORING LOGS

Project: Former Sears Auto Center #1058B

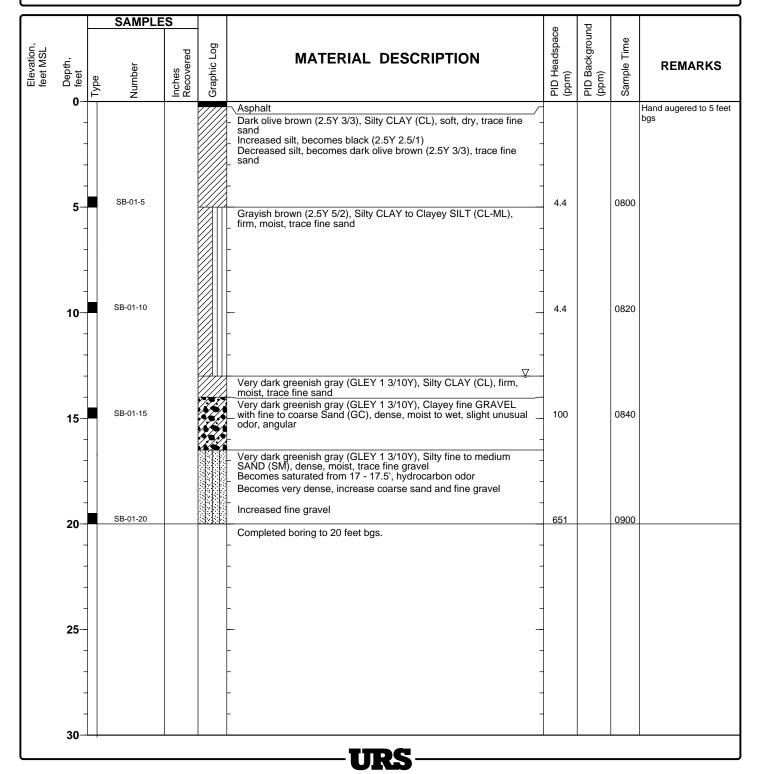
Project Location: 2600 Telegraph Avenue, Oakland, CA

Project Number: 25363494

Log of Boring SB-01

Sheet 1 of 1

Date(s) Drilled	12/23/08	Logged By J. Henry	Checked By J. Liles
Drilling Method	Direct Push	Drilling Contractor Gregg Drilling	Total Depth of Borehole (feet) 20.0
Drill Rig Type	MARL 25	Borehole Diameter (inches) 2 1/4"	Approx. Surface Elevation (feet msl)
Approximat to Groundw		Sampler Macrocore	Borehole Backfill
Comments			



Project: Former Sears Auto Center #1058B

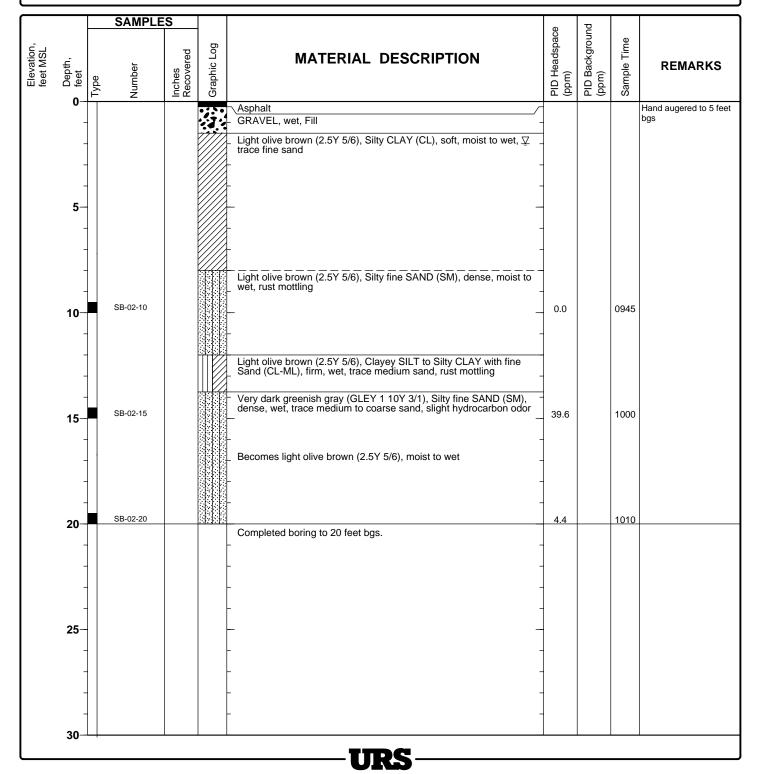
Project Location: 2600 Telegraph Avenue, Oakland, CA

Project Number: 25363494

Log of Boring SB-02

Sheet 1 of 1

Date(s) Drilled	12/23/08	Logged By J. Henry	Checked By J. Liles
Drilling Method	Direct Push	Drilling Contractor Gregg Drilling	Total Depth of Borehole (feet) 20.0
Drill Rig Type	MARL 25	Borehole Diameter (inches) 2 1/4"	Approx. Surface Elevation (feet msl)
Approximat to Groundw		Sampler Macrocore Type	Borehole Backfill
Comments			



APPENDIX D LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTS FOR SOIL



Environmental Laboratories

12-30-2008

Mr. Joe Liles URS Corporation 2020 E. First Street, Suite 400 Santa Ana, CA 92705

Project: Sears 1058B

Project Site: 2600 Telegraph Ave., Oakland, CA

Sample Date: 12-23-2008 Lab Job No.: UR812114

Dear Mr. Liles:

Enclosed please find the analytical report for the sample(s) received by Alpha Scientific Corporation on 12-24-2008 and analyzed by the following EPA methods:

EPA 8015M (Gasoline, Diesel & Oil Range TPH) EPA 8260B (VOCs & Oxygenates by GC/MS) EPA 6010B (Total Lead)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled at 4°C, intact) and with a chain of custody record attached.

Alpha Scientific Corporation is a CA DHS certified laboratory (Certificate Number 2633). Thank you for giving us the opportunity to serve you. Please feel free to call me at (562) 809-8880 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D. Laboratory Director

nd we

Enclosures

This cover letter is an integral part of this analytical report.



Environmental Laboratories

Client: URS Corporation Lab Job No.: UR812114

Project: Sears 1058B

Project Site: 2600 Telegraph Ave., Oakland, CA Date Sampled 12-23-2008 Matrix: Soil Date Received: 12-24-2008

Matrix:SoilDate Received:12-24-2008Prepared Method for TPH-g:EPA 5035Date Prepared:12-23-2008Batch No. for TPH-g:GML24-GS1Date Analyzed:12-24-2008Batch No. for TPH-d:EL29-DS1Date Analyzed:12-29-2008Date Reported:12-30-2008

EPA 8015M (Gasoline, Diesel & Oil Range TPH) Reporting Unit: mg/kg (ppm)

Sample ID	Lab ID	DF for TPH-g	C4-C12 (Gasoline Range)*	Surrog Rec.% (TPH-g)	DF for TPHd&o	C13-C23 (Diesel Range)	C24-C40 (Oil Range)	Surrog Rec.% (TPHd&o)
M	DL		0.2			5	25	
PC	QL		0.5			10	50	
Method Blank		1	ND	99	1	ND	ND	88
SB-01-5'	UR812114-1	1	ND	98	1	ND	ND	118
SB-01-10'	UR812114-2	1	ND	96	1	ND	ND	110
SB-01-15'	UR812114-3	50	78.7	87	1	187	891	120
SB-01-20'	UR812114-4	1	ND	98	1	16	61	110
SB-02-10'	UR812114-5	1	ND	91	1	ND	ND	114
SB-02-15'	UR812114-6	2	5.1	106	1	54	313	88
SB-02-20'	UR812114-7	1	ND	96	1	ND	ND	94

*Gasoline Range TPH result is obtained from purge and trap analysis using LUFT-GCMS Method.

MDL:Method Detection Limit;

PQL: Practical Quantitation Limit;

PQL: Practical Quantitation Limit;

 $DF: Dilution \ Factor \ (DF \times PQL = Reporting \ Limit \ for \ the \ sample); \\ ND: \ Not \ Detected \ (below \ DF \times MDL); \\$

J:Trace Value, result is below DF × PQL but above DF × MDL.

NA: Not Analyzed m: Matrix interference.



Environmental Laboratories

Clien URS Corporation Lab Job No.: UR812114

Project: Sears 1058B

Project Site: 2600 Telegraph Ave., Oakland, CA

Matrix: Water

Batch No.: EML29-GW1

Date Received: 12-24-2008

Date Analyzed: 12-30-2008

Date Reported: 12-30-2008

TPH-Gasoline by LUFT GC/MS Reporting Unit: µg/L (ppb)

Sample ID	Lab ID	DF	C4-C12 (Gasoline Range)*	Surrog Rec.% (TPH-g)
MDL			50	
PQL			100	
Method Blank		1	ND	89
EB-SB-02	UR812114-8	1	ND	87

*Gasoline Range TPH result is obtained from purge and trap analysis using LUFT-GCMS Method.

MDL:Method Detection Limit;

PQL:Practical Quantitation Limit;

DF:Dilution Factor (DF \times PQL = Reporting Limit for the sample);

ND: Not Detected (below DF \times MDL);

Phone: (562) 809-8880 Fax: (562) 809-8801

J:Trace Value, result is below DF \times PQL but above DF \times MDL.

NA:Not Analyzed

Note:Surrogate recovery acceptance limits are 70-130%.



Environmental Laboratories

Client: URS Corporation Lab Job No.: UR812114 Date Reported: 12-30-2008 Project: Sears 1058B Matrix: Soil Date Sampled: 12-23-2008

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: μg/kg (ppb)

				ge 1 of 2) Re	<u> </u>		1	
	te ANAI		12-24-08	12-24-08	12-24-08	12-24-08	12-24-08	12-24-08
DILU	TION F	ACTOR	1	1	1	5	1	1
LA	B SAME	PLE I.D.		UR812114-1	UR812114-2	UR812114-3	UR812114-4	UR812114-5
CLIEN	T SAME	PLE I.D.		SB-01-5'	SB-01-10'	SB-01-15'	SB-01-20'	SB-02-10'
COMPOUND	MDL	PQL	MB					
Dichlorodifluoromethane	2	5	ND	ND	ND	ND	ND	ND
Chloromethane	2	5	ND	ND	ND	ND	ND	ND
Vinyl Chloride	1	2	ND	ND	ND	ND	ND	ND
Bromomethane	2	5	ND	ND	ND	ND	ND	ND
Chloroethane	2	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	2	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	2	5	ND	ND	ND	ND	ND	ND
Iodomethane	2	5	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	2	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	2	5	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	2	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	2	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	2	5	ND	ND	ND	ND	ND	ND
Chloroform	2	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	5	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1	5	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	2	5	ND	ND	ND	ND	ND	ND
Benzene	1	2	ND	ND	ND	ND	ND	ND
Trichloroethene	2	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	2	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	2	5	ND	ND	ND	ND	ND	ND
Dibromomethane	2	5	ND	ND	ND	ND	ND	ND
Trans-1,3-	2	5	ND	ND	ND	ND	ND	ND
Dichloropropene								
cis-1,3-Dichloropropene	2	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	2	5	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	1	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	2	5	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	2	5	ND	ND	ND	ND	ND	ND
Bromoform	2	5	ND	ND	ND	ND	ND	ND
Isopropylbenzene	2	5	ND	ND	ND	ND	ND	ND
Bromobenzene	2	5	ND	ND	ND	ND	ND	ND
Toluene	1	2	ND	ND	ND	ND	ND	ND
Tetrachloroethene	2	4	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane(EDB)	2	5	ND	ND	ND	ND	ND	ND



Environmental Laboratories

Client: URS Corporation Lab Job No.: UR812114 Date Reported: 12-30-2008 Project: Sears 1058B Matrix: Soil Date Sampled: 12-23-2008

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: ppb

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: ppb											
COMPOUND	MDL	PQL	MB	SB-01-5'	SB-01-10'	SB-01-15'	SB-01-20'	SB-02-10'			
Chlorobenzene	2	5	ND	ND	ND	ND	ND	ND			
1,1,1,2-Tetrachloroethan	2	5	ND	ND	ND	ND	ND	ND			
Ethylbenzene	1	2	ND	ND	ND	ND	ND	ND			
Total Xylenes	2	4	ND	ND	ND	ND	ND	ND			
Styrene	2	5	ND	ND	ND	ND	ND	ND			
1,1,2,2-Tetrachloroethan	2	5	ND	ND	ND	ND	ND	ND			
1,2,3-Trichloropropane	2	5	ND	ND	ND	ND	ND	ND			
n-Propylbenzene	2	5	ND	ND	ND	ND	ND	ND			
2-Chlorotoluene	2	5	ND	ND	ND	ND	ND	ND			
4-Chlorotoluene	2	5	ND	ND	ND	ND	ND	ND			
1,3,5-Trimethylbenzene	2	5	ND	ND	ND	8.4J	ND	ND			
tert-Butylbenzene	2	5	ND	ND	ND	ND	ND	ND			
1,2,4-Trimethylbenzene	2	5	ND	ND	ND	6.2J	ND	ND			
Sec-Butylbenzene	2	5	ND	ND	ND	94.1	ND	ND			
1,3-Dichlorobenzene	2	5	ND	ND	ND	ND	ND	ND			
p-Isopropyltoluene	2	5	ND	ND	ND	ND	ND	ND			
1,4-Dichlorobenzene	2	5	ND	ND	ND	ND	ND	ND			
1,2-Dichlorobenzene	2	5	ND	ND	ND	ND	ND	ND			
n-Butylbenzene	2	5	ND	ND	ND	304*	ND	ND			
1,2,4-Trichlorobenzene	2	5	ND	ND	ND	ND	ND	ND			
1,2-Dibromo-3-	2	5	ND	ND	ND	ND	ND	ND			
Chloropropane	2	5	ND	ND	ND	ND	ND	ND			
Hexachlorobutadiene	2	5	ND	ND	ND	ND	ND	ND			
Naphthalene	2	5	ND	ND	ND	ND	ND	ND			
1,2,3-Trichlorobenzene	2	5	ND	ND	ND	ND	ND	ND			
Acetone	50	100	ND	ND	ND	ND	ND	ND			
2-Butanone (MEK)	35	50	ND	ND	ND	ND	ND	ND			
Carbon disulfide	35	50	ND	ND	ND	ND	ND	ND			
4-Methyl-2-pentanone	35	50	ND	ND	ND	ND	ND	ND			
2-Hexanone	35	50	ND	ND	ND	ND	ND	ND			
Vinyl Acetate	35	50	ND	ND	ND	ND	ND	ND			
Ethanol	500	1000	ND	ND	ND	ND	ND	ND			
MTBE	2	5	ND	ND	ND	ND	ND	ND			
ЕТВЕ	2	5	ND	ND	ND	ND	ND	ND			
DIPE	2	5	ND	ND	ND	ND	ND	ND			
TAME	2	5	ND	ND	ND	ND	ND	ND			
t-Butyl Alcohol	20	50	ND	ND	ND	ND	ND	ND			
SURROGATE	Acc Lim	cept ait%	%RC	%RC	%RC	%RC	%RC	%RC			
Dibromofluoro-methane	79-1		90	97	89	94	98	93			
Toluene-d8		121	102	104	101	112	100	101			
Bromofluoro-benzene	1	131	107	105	103	112	105	98			

MDL=Method Detection Limit, PQL= Practical Quantitation Limit;DF=Dilution Factor (DF × PQL = Reporting Limit for the sample);

Note: Surrogate spike concentrations are $25\,\mu\text{g/L}$ for all the compounds.

ND=Not Detected (below DF \times MDL),J=Trace Value, result is below DF \times PQL but above DF \times MDL;

[%]RC=Percent Recovery; MB=Method Blank; * obtained from a higher dilution analysis.



Environmental Laboratories

Client: URS Corporation Lab Job No.: UR812114 Date Reported: 12-30-2008 Project: Sears 1058B Matrix: Soil Date Sampled: 12-23-2008

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: μg/kg (ppb)

				ge 1 of 2) Re		t: µg/kg (pp	b)	
	ate ANAl		12-24-08	12-24-08	12-24-08			
	TION F.		1	2	1			
	B SAMI			UR812114-6	UR812114-7			
CLIEN	T SAMI	PLE I.D.		SB-02-15'	SB-02-20'			
COMPOUND	MDL	PQL	MB					
Dichlorodifluoromethane	2	5	ND	ND	ND			
Chloromethane	2	5	ND	ND	ND			
Vinyl Chloride	1	2	ND	ND	ND			
Bromomethane	2	5	ND	ND	ND			
Chloroethane	2	5	ND	ND	ND			
Trichlorofluoromethane	2	5	ND	ND	ND			
1,1-Dichloroethene	2	5	ND	ND	ND			
Iodomethane	2	5	ND	ND	ND			
Methylene Chloride	5	5	ND	ND	ND			
trans-1,2-Dichloroethene	2	5	ND	ND	ND			
1,1-Dichloroethane	2	5	ND	ND	ND			
2,2-Dichloropropane	2	5	ND	ND	ND			
cis-1,2-Dichloroethene	2	5	ND	ND	ND			
Bromochloromethane	2	5	ND	ND	ND			
Chloroform	2	5	ND	ND	ND			
1,2-Dichloroethane	1	5	ND	ND	ND			
1,1,1-Trichloroethane	2	5	ND	ND	ND			
Carbon tetrachloride	1	5	ND	ND	ND			
1,1-Dichloropropene	2	5	ND	ND	ND			
Benzene	1	2	ND	ND	ND			
Trichloroethene	2	5	ND	ND	ND			
1,2-Dichloropropane	2	5	ND	ND	ND			
Bromodichloromethane	2	5	ND	ND	ND			
Dibromomethane	2	5	ND	ND	ND			
Trans-1,3-	2	5	ND	ND	ND			
Dichloropropene								
cis-1,3-Dichloropropene	2	5	ND	ND	ND			
1,1,2-Trichloroethane	2	5	ND	ND	ND			
1,3-Dichloropropane	1	5	ND	ND	ND			
Dibromochloromethane	2	5	ND	ND	ND			
2-Chloroethylvinyl ether	2	5	ND	ND	ND			
Bromoform	2	5	ND	ND	ND			
Isopropylbenzene	2	5	ND	ND	ND			
Bromobenzene	2	5	ND	ND	ND			
Toluene	1	2	ND	ND	ND			
Tetrachloroethene	2	4	ND	ND	ND			
1,2-Dibromoethane(EDB)	2	5	ND	ND	ND			



Environmental Laboratories

Client: URS Corporation Lab Job No.: UR812114 Date Reported: 12-30-2008 Project: Sears 1058B Matrix: Soil Date Sampled: 12-23-2008

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: ppb

		1			Reporting U	пс. рро	1	_
COMPOUND	MDL	PQL	MB	SB-02-15'	SB-02-20'			
Chlorobenzene	2	5	ND	ND	ND			
1,1,1,2-Tetrachloroethan	2	5	ND	ND	ND			
Ethylbenzene	1	2	ND	ND	ND			
Total Xylenes	2	4	ND	ND	ND			
Styrene	2	5	ND	ND	ND			
1,1,2,2-Tetrachloroethan	2	5	ND	ND	ND			
1,2,3-Trichloropropane	2	5	ND	ND	ND			
n-Propylbenzene	2	5	ND	ND	ND			
2-Chlorotoluene	2	5	ND	ND	ND			
4-Chlorotoluene	2	5	ND	ND	ND			
1,3,5-Trimethylbenzene	2	5	ND	ND	ND			
tert-Butylbenzene	2	5	ND	58.4	ND			
1,2,4-Trimethylbenzene	2	5	ND	ND	ND			
Sec-Butylbenzene	2	5	ND	5.2J	ND			
1,3-Dichlorobenzene	2	5	ND	ND	ND			
p-Isopropyltoluene	2	5	ND	ND	ND			
1,4-Dichlorobenzene	2	5	ND	ND	ND			
1,2-Dichlorobenzene	2	5	ND	ND	ND			
n-Butylbenzene	2	5	ND	6.2J	ND			
1,2,4-Trichlorobenzene	2	5	ND	ND	ND			
1,2-Dibromo-3-	2	5	ND	ND	ND			
Chloropropane	2	3	ND	ND	ND			
Hexachlorobutadiene	2	5	ND	ND	ND			
Naphthalene	2	5	ND	ND	ND			
1,2,3-Trichlorobenzene	2	5	ND	ND	ND			
Acetone	50	100	ND	ND	ND			
2-Butanone (MEK)	35	50	ND	ND	ND			
Carbon disulfide	35	50	ND	ND	ND			
4-Methyl-2-pentanone	35	50	ND	ND	ND			
2-Hexanone	35	50	ND	ND	ND			
Vinyl Acetate	35	50	ND	ND	ND			
Ethanol	500	1000	ND	ND	ND			
MTBE	2	5	ND	ND	ND			
ETBE	2	5	ND	ND	ND			
DIPE	2	5	ND	ND	ND			
TAME	2	5	ND	ND	ND			
t-Butyl Alcohol	20	50	ND	ND	ND			
SURROGATE		cept nit%	%RC	%RC	%RC			
Dibromofluoro-methane	79-1		90	93	90			
Toluene-d8		121	102	109	100			
Bromofluoro-benzene	1	131	107	117	103			

 $MDL = Method\ Detection\ Limit,\ PQL = Practical\ Quantitation\ Limit; DF = Dilution\ Factor\ (DF \times PQL = Reporting\ Limit\ for\ the\ sample);$

Note: Surrogate spike concentrations are 25 μ g/L for all the compounds.

ND=Not Detected (below DF \times MDL),J=Trace Value, result is below DF \times PQL but above DF \times MDL;

[%]RC=Percent Recovery; MB=Method Blank; * obtained from a higher dilution analysis.



Environmental Laboratories

Client: URS Corporation Lab Job No.: UR812114 Date Reported: 12-30-2008 Project: Sears 1058B Matrix: Water Date Sampled: 12-23-2008

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: μg/L(ppb)

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: μg/L(ppb)											
	te ANAI		12-29-08	12-29-08							
	TION F		1	1							
	B SAME			UR812114-8							
CLIEN	T SAME	LE I.D.		EB-SB-02							
COMPOUND	MDL	PQL	MB								
Dichlorodifluoromethane	1	5	ND	ND							
Chloromethane	1	5	ND	ND							
Vinyl Chloride	0.5	1	ND	ND							
Bromomethane	1	5	ND	ND							
Chloroethane	1	5	ND	ND							
Trichlorofluoromethane	1	5	ND	ND							
1,1-Dichloroethene	1	5	ND	ND							
Iodomethane	1	5	ND	ND							
Methylene Chloride	2	10	ND	ND							
trans-1,2-Dichloroethene	1	5	ND	ND							
1,1-Dichloroethane	1	5	ND	ND							
2,2-Dichloropropane	1	5	ND	ND							
cis-1,2-Dichloroethene	1	5	ND	ND							
Bromochloromethane	1	5	ND	ND							
Chloroform	1	5	ND	ND							
1,2-Dichloroethane	0.5	5	ND	ND							
1,1,1-Trichloroethane	1	5	ND	ND							
Carbon tetrachloride	0.5	5	ND	ND							
1,1-Dichloropropene	1	5	ND	ND							
Benzene	0.5	1	ND	ND							
Trichloroethene	1	2	ND	ND							
1,2-Dichloropropane	1	5	ND	ND							
Bromodichloromethane	1	5	ND	ND							
Dibromomethane	1	5	ND	ND							
Trans-1,3-	1	5	ND	ND							
Dichloropropene	1		ND	ND							
cis-1,3-Dichloropropene	1	5	ND	ND							
1,1,2-Trichloroethane	1	5	ND	ND							
1,3-Dichloropropane	0.5	5	ND	ND							
Dibromochloromethane	1	5	ND	ND							
2-Chloroethylvinyl ether	1	10	ND	ND							
Bromoform	1	5	ND	ND							
Isopropylbenzene	1	5	ND	ND							
Bromobenzene	1	5	ND	ND							
Toluene	0.5	1.0	ND	ND							
Tetrachloroethene	1	2	ND	ND							
1,2-Dibromoethane(EDB)	1	5	ND	ND							



Environmental Laboratories

Client: URS Corporation Lab Job No.: UR812114 Date Reported: 12-30-2008 Project: Sears 1058B Matrix: Water Date Sampled: 12-23-2008

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: ppb

					Reporting Unit:	ppe	
COMPOUND	MDL	PQL	MB	EB-SB-02			
Chlorobenzene	1	5	ND	ND			
1,1,1,2-Tetrachloroethan	1	5	ND	ND			
Ethylbenzene	0.5	1	ND	ND			
Total Xylenes	1	2	ND	ND			
Styrene	1	5	ND	ND			
1,1,2,2-Tetrachloroethan	1	5	ND	ND			
1,2,3-Trichloropropane	1	5	ND	ND			
n-Propylbenzene	1	5	ND	ND			
2-Chlorotoluene	1	5	ND	ND			
4-Chlorotoluene	1	5	ND	ND			
1,3,5-Trimethylbenzene	1	2	ND	ND			
tert-Butylbenzene	1	5	ND	ND			
1,2,4-Trimethylbenzene	1	5	ND	ND			
Sec-Butylbenzene	1	5	ND	ND			
1,3-Dichlorobenzene	1	5	ND	ND			
p-Isopropyltoluene	1	5	ND	ND			
1,4-Dichlorobenzene	1	2	ND	ND			
1,2-Dichlorobenzene	1	2	ND	ND			
n-Butylbenzene	1	5	ND	ND			
1,2,4-Trichlorobenzene	1	5	ND	ND			
1,2-Dibromo-3-	1	5	ND	NID			
Chloropropane	1	5	ND	ND			
Hexachlorobutadiene	1	5	ND	ND			
Naphthalene	1	5	ND	ND			
1,2,3-Trichlorobenzene	1	5	ND	ND			
Acetone	25	50	ND	ND			
2-Butanone (MEK)	25	50	ND	ND			
Carbon disulfide	25	50	ND	ND			
4-Methyl-2-pentanone	25	50	ND	ND			
2-Hexanone	25	50	ND	ND			
Vinyl Acetate	25	50	ND	ND			
Ethanol	250	500	ND	ND			
MTBE	1	2	ND	ND			
ЕТВЕ	1	2	ND	ND			
DIPE	1	2	ND	ND			
TAME	1	2	ND	ND			
t-Butyl Alcohol	10	20	ND	ND			
SURROGATE		cept nit%	%RC	%RC			
Dibromofluoro-methane	79-1		120	107			
Toluene-d8		121	99	98			
Bromofluoro-benzene	71-	131	88	86			

MDL=Method Detection Limit, PQL= Practical Quantitation Limit;DF=Dilution Factor (DF × PQL = Reporting Limit for the sample);

Note: Surrogate spike concentrations are $25\,\mu\text{g/L}$ for all the compounds.

ND=Not Detected (below DF \times MDL),J=Trace Value, result is below DF \times PQL but above DF \times MDL;

[%]RC=Percent Recovery; MB=Method Blank; * obtained from a higher dilution analysis.



Environmental Laboratories

Client: URS Corporation Lab Job No.: UR812114

Project: Sears 1058B

Project Site: 2600 Telegraph Ave., Oakland, CA

Matrix: Soil

Digestion Method: EPA 3050B

Batch No. for 6010B: 1226-MS1

Date Sampled

12-23-2008

Date Received: 12-24-2008

Date Digested: 12-26-2008

Date Analyzed: 12-26-2008

Date Analyzed: 12-26-2008
Date Reported: 12-30-2008

Phone: (562) 809-8880 Fax: (562) 809-8801

EPA 6010B for Total Lead Reporting Unit: mg/kg (ppm)

Sample ID	Lab ID	Total Lead	Reporting Limit
Method Blank		ND	2
SB-01-5'	UR812114-1	8.7	2
SB-01-10'	UR812114-2	8.0	2
SB-01-15'	UR812114-3	7.4	2
SB-01-20'	UR812114-4	6.7	2
SB-02-10'	UR812114-5	6.7	2
SB-02-15'	UR812114-6	7.4	2
SB-02-20'	UR812114-7	6.1	2

ND: Not Detected (at the specified limit).



Environmental Laboratories

12-30-2008

TPH-Gasoline Batch QA/QC Report

Client: URS Corporation Lab Job No.: UR812114

Project: Sears 1058B

Matrix: Soil Lab Sample ID: UR812113-2 Batch No.: GML24-GS1 Date Analyzed: 12-24-2008

> I. MS/MSD Report Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-G	ND	1000	929	860	92.9	86.0	7.7	30	70-130

II. LCS Result Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-G	860	1000	86.0	80-120

ND: Not Detected (at the specified limit).



Environmental Laboratories

12-30-2008

TPH-Gasoline Batch QA/QC Report

Client: URS Corporation Lab Job No.: UR812114

Project: Sears 1058B

Matrix:WaterLab Sample ID:G812117-6Batch No.:EML29-GW1Date Analyzed:12-29-2008

I. MS/MSD Report Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
ТРН-д	ND	1000	998	932	99.8	93.2	6.8	30	70-130

II. LCS Result Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
ТРН-д	907	1,000	90.7	80-120

ND: Not Detected (at the specified limit).



Environmental Laboratories

12-30-2008

EPA 8015M (TPH) Batch QA/QC Report

Client: URS Corporation Lab Job No.: UR812114

Project: Sears 1058B

Matrix: Soil Lab Sample ID: UR812114-1 Batch No. for TPH-d: EL29-DS1 Date Analyzed: 12-29-2008

> I. MS/MSD Report Unit: ppm

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-D	ND	200	230	230	115.0	115.0	0.0	30	70-130

II. LCS Result Unit: ppm

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
TPH-d	518	500	103.6	80-120

ND: Not Detected (at the specified limit)



Environmental Laboratories

12-30-2008

EPA 8260B Batch QA/QC Report

Client: URS Corporation Lab Job No.: UR812114

Project: Sears 1058B

Matrix: Soil Sample ID: UR812113-2 Batch No: 1224-VOGS1 Date Analyzed: 12-24-2008

I. MS/MSD Report Unit: ppb

					тт рр≈				_
Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1- Dichloroethene	ND	20	17.3	18.3	86.5	91.5	5.6	30	70-130
Benzene	ND	20	19.5	19.1	97.5	95.5	2.1	30	70-130
Trichloro- ethene	ND	20	17.5	17.6	87.5	88.0	0.6	30	70-130
Toluene	ND	20	19.7	18.9	98.5	94.5	4.1	30	70-130
Chlorobenzene	ND	20	19.9	19.0	99.5	95.0	4.6	30	70-130

II. LCS Result Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	21.1	20.0	105.5	80-120
Benzene	23.1	20.0	115.5	80-120
Trichloro-ethene	20.2	20.0	101.0	80-120
Toluene	22.1	20.0	110.5	80-120
Chlorobenzene	22.8	20.0	114.0	80-120

ND: Not Detected.



Environmental Laboratories

12-30-2008

EPA 8260B Batch QA/QC Report

Client: URS Corporation Lab Job No.: UR812114

Project: Sears 1058B

Matrix:WaterLab Sample ID:G812117-6Batch No:1229-VOEW1Date Analyzed:12-29-2008

I. MS/MSD Report Unit: ppb

					it. ppb				
Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1- Dichloroethene	ND	20	17.8	17.0	89.0	85.0	4.6	30	70-130
Benzene	ND	20	19.1	18.2	95.5	91.0	4.8	30	70-130
Trichloro- ethene	ND	20	20.1	17.3	100.5	86.5	15.0	30	70-130
Toluene	ND	20	18.1	17.6	90.5	88.0	2.8	30	70-130
Chlorobenzene	ND	20	18.0	17.6	90.0	88.0	2.2	30	70-130

II. LCS Result Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit	
1,1-Dichloroethene	22.5	20	112.5	80-120	
Benzene	19.6	20	98.0	80-120	
Trichloro-ethene	17.1	20	85.5	80-120	
Toluene	19.4	20	97.0	80-120	
Chlorobenzene	18.7	20	93.5	80-120	

ND: Not Detected (at the specified limit).



Environmental Laboratories

12-30-2008

EPA 6010B(Lead) Batch QA/QC Report

Client: URS Corporation Lab Job No.: UR812114

Project: Sears 1058B

Matrix: Soil Lab Sample I.D: SS1226-1

Batch No. for 6010B: 1226-MS1 Date Analyzed: ur12-26-2008

MS/MSD Report

Analyte	EPA Method	MB Conc.	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Lead (Pb)	6010B	ND	0.1	0.096	0.098	96.0	98.0	2.1	30	70-130

ND: Not Detected.

ALPHA SCIENTIFIC CORPORATION

CHAIN OF CUSTODY RECORD

Lab Job Number WRS12114 Page Lof

T.A.T. Requested	□ 2-3 days Normal Sample Condition Chilled Variate Sample seals Remark				
quested	8015 M(motorcil)	<i>Y</i>		>	
Analyses Requested	8270C(SVOCs) CAM Metals				
An	8015M (Gasoline) 8015M(Diesel) 8260B(BTEX, Oxygenates) 8260B (VOCs)	X		> X	
	Hay (4	2-0045 -6"tvec		6 VOAS	
	Sample Preser	No. HSO4		<u>→</u> ¥	
	Sampled by Jacks Ture, Oct Matrix e Type	3 0 0			
	Sample Collect Date Time	0330	05/00 07145	1010	
ration	Phone Phone Fax Phone Fax Phone Fax Fax Sampled by Project Site ZCCC Telleg Var Put, Ochle Sample ID Date Time Type Pr	WR812114-1 17	<i>y</i> - <i>y</i> - <i>y</i> - <i>y</i> -	F. 27	
Client URS Corporation	Address 2020 East F154 Street, Sur the 400 Report Attention Secritorian Phone From Attention Project Name No. Project Name No. Project Site Secritorian Client Lab Sample ID Sample ID Sample ID Sample ID Sample ID Type	53-01-5 58-61-16' 58-01-15!	58-01-20; 58-02-1 5 ' 58-02-15'	58-02-20' EB-58-02	

Alpha Scientific Corporation 16760 Gridley Road Cerritos, CA 90703

Email: Tel: Fax:

ascorp@verizon.net (562) 809-8880 (562) 809-8801

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense. Distribution: WHITE with report, PINK to courier.

APPENDIX E URS DATA VALIDATION REPORT FOR SOIL

Level III Data Validation Summary

PROJECT: Sears Oakland 1058B

LABORATORY: Alpha Scientific Corporation

MATRIX: Soil

LAB PROJECT #: UR812114 **SAMPLES:** See table below

Field ID	QC Designations	Lab ID	ТРН-	TPH-	Total Lead	VOCs/ Fuel
			Gasoline	Diesel/ Oil		Oxygenates
SB-01-5'		UR812114-1	X	X	X	X
SB-01-10'		UR812114-2	X	X	X	X
SB-01-15'		UR812114-3	X	X	X	X
SB-01-20'		UR812114-4	X	X	X	X
SB-02-10'		UR812114-5	X	X	X	X
SB-02-15'		UR812114-6	X	X	X	X
SB-02-20'		UR812114-7	X	X	X	X
EB-SB-02	Equipment blank	UR812114-8	X			X

Date Sampled = 12/23/08

TPH-Gasoline= Total petroleum hydrocarbon – gasoline range (C4-C12), TPH-Diesel= Total petroleum hydrocarbon – diesel range (C13-C23)

TPH-Oil= Total petroleum hydrocarbon – oil range (C24-C40) VOCs = Volatile organic compounds

Fuel Oxygenates = t-butyl alcohol (TBA), t-amyl methyl ether (TAME), di - isopropyl ether (DIPE), ethyl-t-butyl ether (ETBE), Methyl tertiary butyl ether (MTBE).

Alpha Scientific Corporation is certified by California Department of Health Services (Certificate Number 2633)

DATA REVIEW MATRIX

QC Parameter	TPH-Gasoline	TPH-Diesel/ TPH-Oil	Total Lead	VOCs/ Fuel
	EPA 8015M	EPA 8015M	EPA 6010B	Oxygenates
				EPA 8260B
Chain-of-custody (COC)	✓	✓	✓	✓
Sample Receipt	✓	✓	✓	✓
Holding Times	✓	✓	✓	✓
Method Blank	✓	✓	✓	✓
Surrogate Recovery	✓	✓	✓	✓
Laboratory Control Sample	✓	✓	✓	✓
Matrix Spike	NPS	√ (1)	NPS	NPS
Duplicate or Spike Duplicate	NPS	√ (1)	NPS	NPS
Equipment Blank	✓	NA	NA	✓

^{✓ =} Quality control evaluation criteria met

NA = Not Applicable or not analyzed

NPS = Non-project sample

Notes:

1. MS/MSD was conducted on sample SB-01-5'. The results were within acceptance criterion.

<u>Summary</u>: Based on the Limited validation covering the QC parameters listed in the table above, these data are considered to be useable for meeting project objectives. However, the data user must evaluate the ultimate usability of the data based on the reporting limits obtained. The table below lists the detection limits obtained for undiluted samples.

Analyte	MDL	PQL
TPH-Gasoline	0.2	0.5
TPH-Diesel	5	10
TPH-Oil	25	50
Total Lead		2
VOCs	0.001 to 5	0.002 to 10
MTBE	0.002	0.005
TBA	0.02	0.05
TAME, DIPE, ETBE	0.002	0.005

Soil units for VOCs are in milligrams per kilograms (mg/kg)

MDL = Method Detection limit

PQL = Practical Quantitation Limit

Two samples (SB-01-15' and SB-02-15') required dilution for the EPA 8260B analyses in order to quantitate detected target analytes. For these samples, there are also non-detect VOCs and fuel oxygenates results with elevated reporting limits. The data user must evaluate the utility of non-detect VOCs and fuel oxygenates results with elevated reporting limits.

APPENDIX F GROUNDWATER PURGE LOGS



Well Nu	mber: ۲	nw-1	Date:	11-14-08	Pro	ject: Sea	ject No.	: 29863494.06012			
				-Ga	uging D	ata from	Top of Casin	g (Refer	ence Po	int)	
Depth to V	Vater:	11.02	′	Total Well D	epth: 2	1.47	Water Column H	eight (H):	10.4	5′ to	op of Casing Elevation:
Gauging T	ime:	1144		Casing diam	eter (D)=	ON THE RESIDENCE AND THE PARTY OF THE PARTY	1 casing volume).0408)=	.7 ga	1 3 casing volumes= 5. \3 gal.
		as faith				MALIE AND DESCRIPTION OF THE PERSON NAMED IN	dwater Purge	AND STREET, SALES OF STREET, SALES			The state of the s
Purge Me	thod: a				Micro-Purg		e Equipment: Redi I	Flo 2" w/ dis	posable tub	oing	Pump Set @10 5 BGS
Depth to Water (ft)	Time	Purge Rate (gpm)	Hz	Volume Removed (gallons)	pH (Units)	Specific Conductiv (µS/cm	vity Turbidity	Temp.	DO (mg/L)	ORP (mV)	Remarks
11.06	0831										Pumpstarted.
11.69	0834	0.5	111.2	1,5	624	666	19.2	22.61	0.21	6.4	Water Clear
11.83	0837	0.5	111.2	3.0	6.24	654	10.2	23.23	0.52	24.7	
11.94	9840	0.5	111.2	4.5	6,27	630	12.2	23,37	0,46	32,3	
12.10	0843	0.5	112.7	6.0	6.29	610	9.6	23.44	9.44	31.5	
	0845										Sampled
			-							-	
	-		-							-	
					-						
			-		<u> </u>			-		-	
						-				-	<u> </u>
										-	Gallons = ml's/3781
											Sample Rate: 40.16pm
											Total Casing Volumes Removed: 3.51
											Total Gallons Removed: 6.0
Sample ID				(09 VOCs (8260)	-		+	() 1		::()
ñ		·		. 000 (0200)	<i></i>	11110,16				_Samplet.	



Well Nu	mber:	NW-2	Date:	11-13-08	Pro	Project: Sears Auto Center #1058B Project No. : 29863494.06012								
				-Gai	uging D	ata from T	op of Casin	g (Refer	ence Po	int)				
Depth to V	Vater:	0.62		Total Well D	epth: 2	(.75' V	Vater Column H	eight (H):	11.13'	Т	op of Casing Elevation:			
Gauging T	ime: r	2813	(1) 特别	Casing diam	eter (D)=	casing volume).0408)= <i>[</i>	.82 ga	1 3 casing volumes= 5,46 gal.				
						Ground	water Purge	Data						
Purge Me	thod:	Standar	d Purge	Low-Flow/N	licro-Purg	ge Purge	Equipment: Redi I	Flo 2" w/ dis	posable tub	ing	Pump Set @ BGS			
Depth to Water (ft)	Time	Purge Rate (gpm)	Hz	Volume Removed (gallons)	pH (Units)	Specific Conductivit (µS/cm)	y Turbidity (NTU)	Temp.	DO (mg/L)	ORP (mV)	Remarks			
10,43	1232										Pump started			
14.74	1235	0.25	104.8	0.75	6.42	680	28.6	22.12	1.92	76.6	water dear			
15.36	1238	0.25	109.2	1.5	6.36	697	36.6	22.43	0.91	95.6				
17.61	1241	0.25	109.7	2.25	6.38	720	24.0	22.75	0.74	100,6				
> 20.49	1244	0.25	111.2	3.0	6.40	726	15.0	22.74	0.74	89.6	water level a top of			
>20.49	1247	0.25	111.2	3.15	6.40	731	20,0	22,88	0.64	52.7	country level @ top of			
	1250	0.25	111.2	4.50	641	733	22.0	22.99	0.72	35.6				
1	1257	0.15	111.2	5. 50	6.42	732	18.3	23.20	1.06	51.9				
	1256										Sampled			
							+				•			
			+					-		-	Gallons = ml's/3781			
			+								Sample Rate: 40.1661			
			-							 	Total Casing Volumes Removed: 302			
											Total Gallons Removed: 5,5			
Sample ID Analytical I				VOCs (8260)			\$P	()	Rinsate ID _Sampler:	-7			



Well Nu	mber: ا	MW-3	Date:	11-14-08	Pro	ject: Se	ars Auto Center #1058B Project					ct No. : 29863494.06012			
				-Gau	iging D	ata from	Тор	of Casin	g (Refer	ence Po	int)				
Depth to W	/ater:	12.00		Total Well De	epth: 2	4.70'	Wate	er Column H	eight (H):	12.70	У т	op of Casing Elevation:			
Gauging T	ime:	1342		Casing diame	eter (D)=	AND DESCRIPTION OF THE PARTY OF	n. 1 casing volume= (D²)(H)(0.0408)= 2.0千 gal_3 casing volumes=_ 仏 24								
		6				AND DESCRIPTION OF THE PARTY.	-	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	O SHEET PROPERTY AND ADDRESS OF			T			
Purge Me	thod:	Standard	Purge		licro-Purg		-	ipment: Redi I	Flo 2" w/ dis	posable tub	ing	Pump Set @23,5 BGS			
Depth to Water (ft)	Nater Rate Re		Volume Removed (gallons)	pH (Units)			Turbidity (NTU)	Temp.	DO (mg/L)	ORP (mV)	Remarks				
11.98	0933											Pumpstarted			
12.66	0936	0.5	114.1	1.5	6.46	773		19.7	20.93	0.69	-108.4				
12.80	0939	0.5	114.1	3,0	649	795		8.1	21.35	0.52	-117.5				
12.89	0942	0.5	114.1	4.5	b.56	811		5.9	21.50	0.36	-122.3				
12.98	0946	0.5	114.1	6.5	6.58	815		5.6	21.55	0,35	132.7				
	0947											Sampled			
									-						
			-												
							-								
												Gallons = ml's/3781			
	-		-								-	Sample Rate: 20.166/h			
	-	-	-						-	-	-	Total Casing Volumes Removed: 3.14			
												Total Gallons Removed: 6.5			
Sample ID Analytical	· · · · · ·		NV-3 8015M);	VOCs (8260E	•	Oup ID.:	(S)		()	Rinsate ID. _Sampler:	: <u>EB-1</u> (1018)			



Well Nu	Number: MW-4 Date: 11-13-08 Project: Sears Auto Center #1058B Project No								: 29863494.06012		
				-Gau	iging D	ata from	Top of Casir	g (Refer	ence Po	int)	
Depth to W	/ater:	U.33		Total Well De	epth: 7	22.66	Water Column H	leight (H):	W.35	3′ т	op of Casing Elevation:
Gauging T	ime:	1057		Casing diam	eter (D)=		1 casing volume).0408)= [85 ga	al_3 casing volumes=_ 5.55 gal.
Purge Me	thod:	Standar	d Purge	Low-Flow/M	licro-Purc		dwater Purge Equipment: Redi	Name of Street Property and Advantage	accable to		Duma Sat O L DOS
Depth to Water (ft) Time (gpm) Hz (gallons) (Units) Speci (μS/cr							ity Turbidity	Temp.	DO (mg/L)	ORP (mV)	Pump Set @BGS Remarks
11.18	1716								\g. =/	\	Pump started.
12.88	1719	0.5	112.3	1.5	6.36	759	53.4	22.59	0.75	4.7	3/1/2 1/4/
13.67	1722	0.5	113.8	3,0	6.38	769	40.1	23.21	0.55	12.5	
14.36	1725	0.5	116.7	4.5	6.39	767	27.7	23.23	055	219	Water clear
1498	1728	0.5	116.3	6,0	6.39	765	25.9	23.14	0.53	27.0	VI SA TON
	1730										Sampled
			-							the second	Gallons = ml's/3781
											Sample Rate: CO.16-PM
											Total Casing Volumes Removed: 3,24
											Total Gallons Removed: 6.0
Sample ID	.(time): _	mw-	-4	(\	730)[Dup ID.:	-	()	Rinsate ID	.:()
Analytical I	Methods	: <u>TPHg (</u>	8015M);	VOCs (8260E	3), TPHd,	TPHo, 56 2	% ——			_Sampler:	<u> </u>



Well Number: MW-5 Date: 11- 13-08 Project: Sears Auto Center #						er #1058	#1058B Project No. : 29863494.06012				
				-Gai	uging D	ata from T	op of Casin	g (Refer	ence Po	int)	
Depth to V	Vater:	10.3	ť	Total Well De	epth: 2	4.98' v	Vater Column H	eight (H):	14.61	′ т	op of Casing Elevation:
Gauging Time: 0837 Casing diameter (D)= 2 in. 1 casing volume=_(D²)(H)(0.0408)= 2.38 c									. 38 ga	ul 3 casing volumes= 구.버 gal.	
		16 to \$6 to 16	L Labelle			ST-SOL SUPERIOR STREET, STREET	water Purge	SENDED SENDED SEND			
Purge Me	thod: (Low-Flow/N	licro-Purg	e Purge I	Equipment: Redi I	Flo 2" w/ dis	posable tub	ing	Pump Set @ BGS
Depth to Water (ft)							ORP (mV)	Remarks			
10.19	1417										Rump started
11.63	1420	0.5	109.7	1.5	6.35	694	71.6	21.81	1.47	90.1	water turbed.
12.19	1423	0.5	112.0	30	6.33	685	57.7	22.34	126	86.4	
12.56	1426	0.5	1120	4.5	6.34	696	48.8	2268	0.86	75.6	water clear.
12.79	1429	0.5	42.0	6.0	6.35	709	46.9	22.88	0.62	58.4	
13.01	1432	0,5	113.3	7.5	6.35	718	52.9	23.00		45.6	
	1.01		_								
	1434		-					-			Sampled
	-	-						-			-
			-				-	ļ			
			-	1100				-		 	
								1			
											Gallons = ml's/3781
											Sample Rate: 40.1 GBM
					1000						Total Casing Volumes Removed: 315
											Total Gallons Removed: チッジ
Sample ID	.(time): _	MW	~5	(ય	134) [oup ID.:		() F	Rinsate ID	
Analytical I	Methods	: TPHg	(8015 M);	VOCs (8260E	3) <u>, TPHd,</u>	TPHo, Fe	<i>R</i>			Sampler:	SP



Well Nu	mber:	MW-6	Date:	11-\3-08	Pro	ject: Sears	Auto Cent	er #1058	BB Pro	ject No.	: 29863494.06012
				-Ga	uging D	ata from To	p of Casin	g (Refer	ence Po	int)	
Depth to V	Vater:	10.57		Total Well D	epth: 2	1.43' Wa	ater Column H	eight (H):	10.86	′ То	op of Casing Elevation:
Gauging T	ime:	0903		Casing diam	eter (D)=				.0408)= /	-77 gal	3 casing volumes= 5.3) gal
Purge Me	thod:	Ctondo	nd Duran	Law Fland	# D		ater Purge	CONTRACTOR OF THE PARTY OF THE			
Purge Method: Standard Purge Depth to Purge Rate (ft) Time (gpm) Hz				Volume Removed (gallons)	pH (Units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Temp.	DO (mg/L)	ORP (mV)	Pump Set @ 20, 5 BGS Remarks
10.54	1504		(Ganshey (Grints) (porcin) (NTO) (C) (mg/L) (mV)								Pump started
W.22									546	haber clear	
11.36	1510	0.75	118.3	4.50	620	605	42.7	21.69	1.29	699	
11.43	1513	0.75	118.3	6.75	6.21	601	41.8	21.75	1.25	79.1	
	1515										Sampled
											Gallons = ml's/3781
			-								Sample Rate: LO. 16PM
											Total Casing Volumes Removed: 381
							L				Total Gallons Removed: 6.75
				VOCs (8260)		Oup ID.:)	() F	Rinsate ID.: _Sampler: _	,



Well Number: MW-7 Date:				11-13-08	Pro	ject: Se	ears Auto Center #1058B Project N					.: 29863494.06012
				-Gai	uging D	ata from	Top	of Casin	g (Refer	ence Po	oint)	
Depth to V	Vater:	11.15	- 10 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Total Well D	epth: 2	1.72	Wa	ter Column H	eight (H):	10.5	7 1	Γορ of Casing Elevation:
Gauging Time: 1014 Casing diameter (D)= 2 in. 1 casing volume= (D²)(H)(0.0408)= 1.73 g Groundwater Purge Data									al_3 casing volumes= <i>5.25</i> gal.			
Purge Me	thod:	Standar	d Purge	Low-Flow/N	Micro-Puro		Service Street	uipment: Redi I	THE RESERVE OF THE PARTY OF			Burn Set 6 4 BCS
Depth to Water (ft)	Time	Purge Rate (gpm)	Hz	Volume Removed (gallons)	pH (Units)	Specifi Conducti (µS/cm	c vity	Turbidity (NTU)	Temp.	DO (mg/L)	ORP (mV)	Pump Set @ _{20.5} BGS Remarks
11.11	1546				\//	\(\frac{1}{2} \)		(1110)	10)	(Hig/L)	(1114)	
12.42	1549	0,5	113.1	1.5	6.26	735		112.2	21.58	1.13	47.9	Pump started Water turbid
12.85	1552	0.5	115.0	3.0	6.23	782		45.9	21.99	0.99	36,2	Wester clearing up.
13.09	1555	0.5	116.1	4.5	6.26	818		32.8	22.10	0.66	23.4	7 0
13.23	1558	0.5	16.1	6.0	6.26	830		29.9	22.11	0,50	14.4	
	1600											Sampled
												Gallons = ml's/3781
											 	Sample Rate: <0.)GPM
												Total Casing Volumes Removed: 3,47
				(VOCs (8260E			50		()	Rinsate II _Sampler	



Well Nu	Well Number: MW-8 Date: 11-13-0			11-13 -08	-3 -08 Project: Sears Auto Center #1058B Project No. : 2							29863494.06012
				-Ga	uging D	ata fron	1 Тор	of Casin	g (Refer	ence Po	oint)	
Depth to V	Vater:	12.07	and the state of the second	Total Well D	epth: 2	1.92'	Wate	er Column H	eight (H):	9.85	/ то	p of Casing Elevation:
Gauging T	ime:	1039		Casing dian	neter (D)=	PARTICIPATION CONTRACTOR CONTRACTOR	STAR STATE A COMPOSITION OF	sing volume	A DESCRIPTION OF THE PERSON OF).0408)=	7,61 gal	3 casing volumes= <u>4.93</u> gal.
ARTAN						THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE OW	CONTRACTOR OF STREET	ter Purge	and the control of the control of			
Purge Me Depth to	tnoa: (Standar	d Purge		Micro-Purg			pment: Redi I	Flo 2" w/ dis	posable tub	oing	Pump Set @ 21 ' BGS
Water (ft)	Time	Rate (gpm)	Hz	Volume Removed (gallons)	pH (Units)	Specif Conduct (µS/cn	tivity	Turbidity (NTU)	Temp.	DO (mg/L)	ORP (mV)	Remarks
12.04	1638											Pump started
12.71	1641	0,5	1103	1.5	6.30	740		118.7	22.33	1.00	-470	water turbed.
12.76	1644	0.5	110.8	3.0	632	748		32.2	22.68	0.65	-49.1	water clear.
12.79	1647	0.5	1103	4.5	6.32	749		27.1	22.80	0.56	-43.3	•
12.81	1650	0.5	1103	6.0	6.3	750		26.8	22,84	0.54	-406	
								4				
	1652		-									Sampled
	-		+									
			+				\rightarrow				-	
-			-		<u> </u>						-	
			+		-						-	
			+						-		 	
												Gallons = ml's/378
												Sample Rate: ∠O.1 GPW
												Total Casing Volumes Removed: 2.73
												Total Gallons Removed: 6.0
Sample ID	.(time): _	<u>m</u>	W-8	(652)[Oup ID.:			()	Rinsate ID.:	()
Analytical I	Methods	: <u>TPHg (</u>	8015 M);	VOCs (8260	B), TPHd,	TPHo, F	(58)	· · · · · · · · · · · · · · · · · · ·			_Sampler: _	<i>5</i> 8



Well Number: MW- 9 Date:			Date:	11-14-08	Pro	: 29863494.06012					
			10 146	TO THE RESIDENCE OF THE PARTY O	uging D	ata from To	p of Casin	g (Refe	rence Po	int)	
Depth to V	Vater:	11.94		Total Well D			ater Column H		7,70	/	op of Casing Elevation:
Gauging T	îme:	1124	***	Casing diam	eter (D)=				0.0408)= L	. 2 (ø ga	ul_3 casing volumes=_3.78 gal.
Purge Me	thod: (Standa	rd Purge)	Low-Flow/N	ficro-Puro		ater Purge quipment: Redi I	No. of Section (Contract of Contract of Co	enocable tub	ina	Burn Set & Lo 1 PCS
Depth to Water	Time	Purge Rate (gpm)		Volume Removed (gallons)	pH (Units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Temp.	DO (mg/L)	ORP (mV)	Pump Set @ q ' BGS
-07 2/ED	0734				, , , , ,	, , , , , , , , , , , , , , , , , , ,	(1110)	1 0)	(mg/c)	(1117)	Puno started
12.17	0737	0,5	109.7	1.5	6.52	686	1,241.6	20.63	2.20	- 29.6	water turbid
12.18	0740	0.5	109.6	3.0	6.53	700	1243.3	20.97		-45.7	
12.19	0743	0.5	109.7	4.5	6.53	706	1243.5	21.03	0.48	-59.5	
12.20	0746	0.5	109.7	6.0	6.52	707	1,244.1	21.10	0.48	-65.3	
	0742										Pume stopped to sheekYSI
			-								Pump stopped to checkersI ble turbidity still high.
											Cleaned cell & raised pump to
	/										17' BGS.
14.17	0756							-			Pump started
12.17	0759	0.5	109.7	7.5	6.45	745	45.2	21.06	1.57	-53.1	
12.19	0802	0.5	1097	9.0	6.52	743	10.5	21.23	0.60	-66.9	water Clear
	0804										Sampled Gallons = mi's/3781
											Sample Rate: 40.1 6PM
											Total Casing Volumes Removed: 7.14
											Total Gallons Removed: 9,0
				(00		Oup ID.:)	(·	Rinsate ID	::()



Well Number: EW- Date: 11-j4-08 Proje				Project: Sears Auto Center #1058B					Project No.: 29863494.06012			
				-Gai	iging D	ata from	Тор	of Casin	g (Refer	ence P	oint)	
Depth to V	Vater:	12.22		Total Well D	epth: 2	2.39	Water Column Height (H): (O. 17			10.17	То	p of Casing Elevation:
Gauging T	ime:	1349		Casing diam	eter (D)=			sing volume		.0408)= (664 gal	3 casing volumes= 19,92 gal.
Purge Me	thod:	Standar	d Purge	Low-Flow/N	lioro Dura	THE RESERVE OF THE PARTY OF THE	2020000000000	ter Purge	WASHINGTON SET			
Depth to Water (ft)	Time	Purge Rate (gpm)		Volume Removed (gallons)	pH (Units)	Specifi Conducti (µS/cm	ic ivity	Turbidity (NTU)	Temp.	DO (mg/L)	ORP (mV)	Pump Set @ ZL & BGS Remarks
12.28	1031							1				Pumpstarted.
12.91	1034	1,0	133.7	3.0	6.58	865		7.8	21.44	0.58	-129.5	Water door
13.11	1037	1.0	133.7	6.0	6.59	855		9.0	21.74	0.38	-132.0	
13.50	040	1.5	161.5	10.5	6.57	874		5.0	21.76	0.33	-131.7	
13.85	1044	1.5	163.3	155	6.57	878		3.7	2177		-132.3	
14.07	1047	1.5	163.5	21.0	6.57	881		3.5	21.75	0,36	-135.7	
	1049											Sampled
	-						_		-			Gallons = ml's/3781
	_		-				-				_	Sample Rate / D.1684
-			+				-					Total Casing Volumes Removed: 3.16
												Total Gallons Removed: 21,0
Sample ID	. , -			VOCs (8260I					()	049)	Rinsate ID.: Sampler: _	$\subset \Omega$

APPENDIX G LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTS FOR GROUNDWATER



Environmental Laboratories

11-24-2008

Mr. Joe Liles URS Corporation 2020 E. First Street, Suite 400 Santa Ana. CA 92705

Project: 29863494

Project Site: Sears Oakland 1058B Sample Date: 11-13/14-2008

Lab Job No.: UR811056

Dear Mr. Liles:

Enclosed please find the analytical report for the sample(s) received by Alpha Scientific Corporation on 11-17-2008 and analyzed by the following EPA methods:

EPA 8015M (Gasoline, Diesel & Oil Range TPH) EPA 8260B (VOCs, Ethanol & Oxygenates by GC/MS)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled at 4°C, intact) and with a chain of custody record attached.

Alpha Scientific Corporation is a CA DHS certified laboratory (Certificate Number 2633). Thank you for giving us the opportunity to serve you. Please feel free to call me at (562) 809-8880 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D. Laboratory Director

at was

Enclosures

This cover letter is an integral part of this analytical report.



Environmental Laboratories

URS Corporation Client: Lab Job No.: UR811056

29863494 Project:

Project Site: Sears Oakland 1058B Date Sampled 11-13/14-2008 Date Received:

Matrix: Water

11-17-2008 Batch No. for TPH-g: EMK19-GW1 Date Analyzed: 11-19-2008 Batch No. for TPH-d & o:EK18-DW1 Date Analyzed: 11-18-2008 Date Reported: 11-24-2008

EPA 8015M (Gasoline, Diesel & Oil Range TPH) Reporting Unit: µg/L (ppb)

Sample ID	Lab ID	DF for TPH-g	C4-C12 (Gasoline Range)*	Surrog Rec.% (TPH-g)	DF for TPHd&o	C13-C23 (Diesel Range)	C24-C40 (Oil Range)	Surrog Rec.% (TPHd&o)
M	DL		50			500	2000	
PC	QL		100			750	3000	
Method Blank		1	ND	91	1	ND	ND	118
MW-1	UR811056-1	1	ND	94	1	ND	ND	110
MW-2	UR811056-2	1	ND	90	1	ND	ND	114
MW-3	UR811056-3	1	191	94	1	ND	ND	114
MW-4	UR811056-4	1	ND	95	1	ND	ND	112
MW-5	UR811056-5	1	ND	92	1	ND	ND	116
MW-6	UR811056-6	1	ND	94	1	ND	ND	112
MW-7	UR811056-7	1	ND	91	1	ND	ND	116
MW-8	UR811056-8	1	ND	94	1	ND	ND	118
MW-9	UR811056-9	1	ND	93	1	ND	ND	116
EW-1	UR811056-10	1	406	94	1	ND	ND	112
DUP-1	UR811056-11	1	394	91	1	ND	ND	118
EB-1	UR811056-12	1	ND	94	NA	NA	NA	NA
TB-1	UR811056-13	1	ND	93	NA	NA	NA	NA

*Gasoline Range TPH result is obtained from purge and trap analysis using LUFT-GCMS Method. MDL:Method Detection Limit;

DF:Dilution Factor (DF \times PQL = Reporting Limit for the sample);

J:Trace Value, result is below DF \times PQL but above DF \times MDL.

Note:Surrogate recovery acceptance limits are 70-130%.

PQL:Practical Quantitation Limit;

ND: Not Detected (below DF \times MDL);

Phone: (562) 809-8880 Fax: (562) 809-8801

NA:Not Analyzed



Environmental Laboratories

Lab Job No.: UR811056 Date Report Matrix: Water Date Samp

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: µg/L(ppb) Client: URS Corporation Date Reported: 11-24-2008 Project: 29863494 Date Sampled: 11-13/14-2008

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: μg/L(ppb)											
]	Date ANA	LYZED	11-19-08	11-19-08	11-19-08	11-19-08	11-19-08	11-19-08			
DIL	LUTION F	ACTOR	1	1	1	1	1	1			
I	LAB SAM	PLE I.D.		UR811056-1	UR811056-2	UR811056-3	UR811056-4	UR811056-5			
CLIF	ENT SAM	PLE I.D.		MW-1	MW-2	MW-3	MW-4	MW-5			
COMPOUND	MDL	PQL	MB								
Dichlorodifluoromethane	1	5	ND	ND	ND	ND	ND	ND			
Chloromethane	1	5	ND	ND	ND	ND	ND	ND			
Vinyl Chloride	0.5	1	ND	ND	ND	ND	ND	ND			
Bromomethane	1	5	ND	ND	ND	ND	ND	ND			
Chloroethane	1	5	ND	ND	ND	ND	ND	ND			
Trichlorofluoromethane	1	5	ND	ND	ND	ND	ND	ND			
1,1-Dichloroethene	1	5	ND	ND	ND	ND	ND	ND			
Iodomethane	1	5	ND	ND	ND	ND	ND	ND			
Methylene Chloride	2	10	ND	ND	ND	ND	ND	ND			
trans-1,2-Dichloroethene	1	5	ND	ND	ND	ND	ND	ND			
1,1-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND			
2,2-Dichloropropane	1	5	ND	ND	ND	ND	ND	ND			
cis-1,2-Dichloroethene	1	5	ND	ND	ND	ND	ND	ND			
Bromochloromethane	1	5	ND	ND	ND	ND	ND	ND			
Chloroform	1	5	ND	ND	ND	ND	ND	ND			
1,2-Dichloroethane	0.5	5	ND	ND	ND	ND	ND	ND			
1,1,1-Trichloroethane	1	5	ND	ND	ND	ND	ND	ND			
Carbon tetrachloride	0.5	5	ND	ND	ND	ND	ND	ND			
1,1-Dichloropropene	1	5	ND	ND	ND	ND	ND	ND			
Benzene	0.5	1	ND	ND	ND	ND	ND	ND			
Trichloroethene	1	2	ND	ND	ND	ND	ND	ND			
1,2-Dichloropropane	1	5	ND	ND	ND	ND	ND	ND			
Bromodichloromethane	1	5	ND	ND	ND	ND	ND	ND			
Dibromomethane	1	5	ND	ND	ND	ND	ND	ND			
Trans-1,3-	1	_	ND	ND	NID	ND	NID	ND			
Dichloropropene	1	5	ND	ND	ND	ND	ND	ND			
cis-1,3-Dichloropropene	1	5	ND	ND	ND	ND	ND	ND			
1,1,2-Trichloroethane	1	5	ND	ND	ND	ND	ND	ND			
1,3-Dichloropropane	0.5	5	ND	ND	ND	ND	ND	ND			
Dibromochloromethane	1	5	ND	ND	ND	ND	ND	ND			
2-Chloroethylvinyl ether	1	10	ND	ND	ND	ND	ND	ND			
Bromoform	1	5	ND	ND	ND	ND	ND	ND			
Isopropylbenzene	1	5	ND	ND	ND	ND	ND	ND			
Bromobenzene	1	5	ND	ND	ND	ND	ND	ND			
Toluene	0.5	1.0	ND	ND	ND	ND	ND	ND			
Tetrachloroethene	1	2	ND	ND	ND	ND	ND	ND			
1,2-Dibromoethane(EDB)	1	5	ND	ND	ND	ND	ND	ND			



Environmental Laboratories

Client: URS Corporation Lab Job No.: UR811056 Date Reported: 11-24-2008 Project: 29863494 Matrix: Water Date Sampled: 11-13/14-2008

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: ppb

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: ppb											
COMPOUND	MDL	PQL	MB	MW-1	MW-2	MW-3	MW-4	MW-5			
Chlorobenzene	1	5	ND	ND	ND	ND	ND	ND			
1,1,1,2-Tetrachloroethan	1	5	ND	ND	ND	ND	ND	ND			
Ethylbenzene	0.5	1	ND	ND	ND	ND	ND	ND			
Total Xylenes	1	2	ND	ND	ND	ND	ND	ND			
Styrene	1	5	ND	ND	ND	ND	ND	ND			
1,1,2,2-Tetrachloroethan	1	5	ND	ND	ND	ND	ND	ND			
1,2,3-Trichloropropane	1	5	ND	ND	ND	ND	ND	ND			
n-Propylbenzene	1	5	ND	ND	ND	ND	ND	ND			
2-Chlorotoluene	1	5	ND	ND	ND	ND	ND	ND			
4-Chlorotoluene	1	5	ND	ND	ND	ND	ND	ND			
1,3,5-Trimethylbenzene	1	2	ND	ND	ND	ND	ND	ND			
tert-Butylbenzene	1	5	ND	ND	ND	ND	ND	ND			
1,2,4-Trimethylbenzene	1	5	ND	ND	ND	ND	ND	ND			
Sec-Butylbenzene	1	5	ND	ND	ND	ND	ND	ND			
1,3-Dichlorobenzene	1	5	ND	ND	ND	ND	ND	ND			
p-Isopropyltoluene	1	5	ND	ND	ND	ND	ND	ND			
1,4-Dichlorobenzene	1	2	ND	ND	ND	ND	ND	ND			
1,2-Dichlorobenzene	1	2	ND	ND	ND	ND	ND	ND			
n-Butylbenzene	1	5	ND	ND	ND	ND	ND	ND			
1,2,4-Trichlorobenzene	1	5	ND	ND	ND	ND	ND	ND			
1,2-Dibromo-3-	1	5	ND	ND	ND	ND	NID	ND			
Chloropropane	1	5	ND	ND	ND	ND	ND	ND			
Hexachlorobutadiene	1	5	ND	ND	ND	ND	ND	ND			
Naphthalene	1	5	ND	ND	ND	ND	ND	ND			
1,2,3-Trichlorobenzene	1	5	ND	ND	ND	ND	ND	ND			
Acetone	25	50	ND	ND	ND	ND	ND	ND			
2-Butanone (MEK)	25	50	ND	ND	ND	ND	ND	ND			
Carbon disulfide	25	50	ND	ND	ND	ND	ND	ND			
4-Methyl-2-pentanone	25	50	ND	ND	ND	ND	ND	ND			
2-Hexanone	25	50	ND	ND	ND	ND	ND	ND			
Vinyl Acetate	25	50	ND	ND	ND	ND	ND	ND			
Ethanol	250	500	ND	ND	ND	ND	ND	ND			
MTBE	1	2	ND	ND	ND	ND	ND	ND			
ETBE	1	2	ND	ND	ND	ND	ND	ND			
DIPE	1	2	ND	ND	ND	ND	ND	ND			
TAME	1	2	ND	ND	ND	ND	ND	ND			
t-Butyl Alcohol	10	20	ND	ND	ND	ND	ND	ND			
SURROGATE		cept nit%	%RC	%RC	%RC	%RC	%RC	%RC			
Dibromofluoro-methane	79-1		101	99	96	96	98	95			
Toluene-d8		121	100	100	100	100	100	98			
Bromofluoro-benzene	+	131	97	99	95	99	100	97			

MDL=Method Detection Limit, PQL= Practical Quantitation Limit;DF=Dilution Factor (DF × PQL = Reporting Limit for the sample);

ND=Not Detected (below DF \times MDL),J=Trace Value, result is below DF \times PQL but above DF \times MDL;

[%]RC=Percent Recovery; MB=Method Blank; * obtained from a higher dilution analysis.

Note: Surrogate spike concentrations are 25 μ g/L for all the compounds.

Note: Surrogate spike concentrations are 25 $\mu g/L$ for all the compounds.



Environmental Laboratories

Client: URS Corporation Lab Job No.: UR811056 Date Reported: 11-24-2008 Project: 29863494 Matrix: Water Date Sampled: 11-13/14-2008

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: μg/L(ppb)

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: μg/L(ppb)											
	Date ANA		11-19-08	11-19-08	11-19-08	11-19-08	11-19-08	11-19-08			
DIL	UTION F	ACTOR	1	1	1	1	1	1			
L	AB SAM	PLE I.D.		UR811056-6	UR811056-7	UR811056-8	UR811056-9	UR811056-10			
CLIE	NT SAM	PLE I.D.		MW-6	MW-7	MW-8	MW-9	EW-1			
COMPOUND	MDL	PQL	MB								
Dichlorodifluoromethane	1	5	ND	ND	ND	ND	ND	ND			
Chloromethane	1	5	ND	ND	ND	ND	ND	ND			
Vinyl Chloride	0.5	1	ND	ND	ND	ND	ND	ND			
Bromomethane	1	5	ND	ND	ND	ND	ND	ND			
Chloroethane	1	5	ND	ND	ND	ND	ND	ND			
Trichlorofluoromethane	1	5	ND	ND	ND	ND	ND	ND			
1,1-Dichloroethene	1	5	ND	ND	ND	ND	ND	ND			
Iodomethane	1	5	ND	ND	ND	ND	ND	ND			
Methylene Chloride	2	10	ND	ND	ND	ND	ND	ND			
trans-1,2-Dichloroethene	1	5	ND	ND	ND	ND	ND	ND			
1,1-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND			
2,2-Dichloropropane	1	5	ND	ND	ND	ND	ND	ND			
cis-1,2-Dichloroethene	1	5	ND	ND	ND	ND	ND	ND			
Bromochloromethane	1	5	ND	ND	ND	ND	ND	ND			
Chloroform	1	5	ND	ND	ND	ND	ND	ND			
1,2-Dichloroethane	0.5	5	ND	ND	ND	ND	ND	ND			
1,1,1-Trichloroethane	1	5	ND	ND	ND	ND	ND	ND			
Carbon tetrachloride	0.5	5	ND	ND	ND	ND	ND	ND			
1,1-Dichloropropene	1	5	ND	ND	ND	ND	ND	ND			
Benzene	0.5	1	ND	ND	ND	ND	ND	ND			
Trichloroethene	1	2	ND	ND	ND	ND	ND	ND			
1,2-Dichloropropane	1	5	ND	ND	ND	ND	ND	ND			
Bromodichloromethane	1	5	ND	ND	ND	ND	ND	ND			
Dibromomethane	1	5	ND	ND	ND	ND	ND	ND			
Trans-1,3- Dichloropropene	1	5	ND	ND	ND	ND	ND	ND			
cis-1,3-Dichloropropene	1	5	ND	ND	ND	ND	ND	ND			
1,1,2-Trichloroethane	1	5	ND	ND	ND	ND	ND	ND			
1,3-Dichloropropane	0.5	5	ND	ND	ND	ND	ND	ND			
Dibromochloromethane	1	5	ND	ND	ND	ND	ND	ND			
2-Chloroethylvinyl ether	1	10	ND	ND	ND	ND	ND	ND			
Bromoform	1	5	ND	ND	ND	ND	ND	ND			
Isopropylbenzene	1	5	ND	ND	ND	ND	ND	ND			
Bromobenzene	1	5	ND	ND	ND	ND	ND	ND			
Toluene	0.5	1.0	ND	ND	ND	ND	ND	ND			
Tetrachloroethene	1	2	ND	ND	ND	ND	ND	ND			
1,2-Dibromoethane(EDB)	1	5	ND	ND	ND	ND	ND	ND			



Environmental Laboratories

Client: URS Corporation Lab Job No.: UR811056 Date Reported: 11-24-2008 Project: 29863494 Matrix: Water Date Sampled: 11-13/14-2008

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: ppb

COMPOUND MDL PQL MB MW-6 MW-7 MW-8 MW-9 EW-1 Chlorobenzene 1 5 ND <
1,1,1,2-Tetrachloroethan 1 5 ND ND<
Ethylbenzene 0.5 1 ND
Total Xylenes 1 2 ND
Styrene 1 5 ND ND ND ND ND ND
1,1,2,2-Tetrachloroethan 1 5 ND ND ND ND ND ND ND
1,2,3-Trichloropropane 1 5 ND ND ND ND ND ND ND
n-Propylbenzene 1 5 ND ND ND ND ND ND ND
2-Chlorotoluene 1 5 ND ND ND ND ND ND ND
4-Chlorotoluene 1 5 ND ND ND ND ND ND ND
1,3,5-Trimethylbenzene 1 2 ND ND ND ND ND ND ND
tert-Butylbenzene 1 5 ND ND ND ND ND ND ND
1,2,4-Trimethylbenzene 1 5 ND ND ND ND ND ND ND
Sec-Butylbenzene 1 5 ND ND ND ND ND ND ND
1,3-Dichlorobenzene 1 5 ND ND ND ND ND ND ND
p-Isopropyltoluene 1 5 ND ND ND ND ND ND ND
1,4-Dichlorobenzene 1 2 ND ND ND ND ND ND ND
1,2-Dichlorobenzene 1 2 ND ND ND ND ND ND ND
n-Butylbenzene 1 5 ND ND ND ND ND 1.6J
1,2,4-Trichlorobenzene 1 5 ND ND ND ND ND ND ND
1,2-Dibromo-3-
Chloropropane 1 5 ND ND ND ND ND ND ND ND
Hexachlorobutadiene 1 5 ND ND ND ND ND ND ND
Naphthalene 1 5 ND ND ND ND ND ND
1,2,3-Trichlorobenzene 1 5 ND ND ND ND ND ND ND
Acetone 25 50 ND ND ND ND ND ND
2-Butanone (MEK) 25 50 ND ND ND ND ND ND ND
Carbon disulfide 25 50 ND ND ND ND ND ND ND
4-Methyl-2-pentanone 25 50 ND ND ND ND ND ND ND
2-Hexanone 25 50 ND ND ND ND ND ND
Vinyl Acetate 25 50 ND ND ND ND ND ND ND
Ethanol 250 500 ND ND ND ND ND ND
MTBE 1 2 ND ND ND ND ND ND
ETBE 1 2 ND ND ND ND ND ND
DIPE 1 2 ND ND ND ND ND ND
TAME 1 2 ND ND ND ND ND ND
t-Butyl Alcohol 10 20 ND ND ND ND ND ND ND
SURROGATE Accept Limit% %RC %RC %RC %RC %RC %RC %RC
Dibromofluoro-methane 79-126 101 97 96 102 103 98
Toluene-d8 79-121 100 100 101 99 99 102
Bromofluoro-benzene 71-131 97 99 96 99 99 100

MDL=Method Detection Limit, PQL= Practical Quantitation Limit;DF=Dilution Factor (DF × PQL = Reporting Limit for the sample);

Note: Surrogate spike concentrations are 25 μ g/L for all the compounds.

ND=Not Detected (below DF \times MDL),J=Trace Value, result is below DF \times PQL but above DF \times MDL;

[%]RC=Percent Recovery; MB=Method Blank; * obtained from a higher dilution analysis.



Environmental Laboratories

Client: URS Corporation Lab Job No.: UR811056 Date Reported: 11-24-2008 Project: 29863494 Matrix: Water Date Sampled: 11-13/14-2008

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: μg/L(ppb)

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: μg/L(ppb) Date ANALYZED 11-19-08 11-19-08 11-19-08											
			11-19-08	11-19-08	11-19-08	11-19-08					
	TION F		1	1	1	1					
	B SAMP				UR811056-12						
	T SAME			DUP-1	EB-1	TB-1					
COMPOUND	MDL	PQL	MB								
Dichlorodifluoromethane	1	5	ND	ND	ND	ND					
Chloromethane	1	5	ND	ND	ND	ND					
Vinyl Chloride	0.5	1	ND	ND	ND	ND					
Bromomethane	1	5	ND	ND	ND	ND					
Chloroethane	1	5	ND	ND	ND	ND					
Trichlorofluoromethane	1	5	ND	ND	ND	ND					
1,1-Dichloroethene	1	5	ND	ND	ND	ND					
Iodomethane	1	5	ND	ND	ND	ND					
Methylene Chloride	2	10	ND	ND	ND	ND					
trans-1,2-Dichloroethene	1	5	ND	ND	ND	ND					
1,1-Dichloroethane	1	5	ND	ND	ND	ND					
2,2-Dichloropropane	1	5	ND	ND	ND	ND					
cis-1,2-Dichloroethene	1	5	ND	ND	ND	ND					
Bromochloromethane	1	5	ND	ND	ND	ND					
Chloroform	1	5	ND	ND	ND	ND					
1,2-Dichloroethane	0.5	5	ND	ND	ND	ND					
1,1,1-Trichloroethane	1	5	ND	ND	ND	ND					
Carbon tetrachloride	0.5	5	ND	ND	ND	ND					
1,1-Dichloropropene	1	5	ND	ND	ND	ND					
Benzene	0.5	1	ND	ND	ND	ND					
Trichloroethene	1	2	ND	ND	ND	ND					
1,2-Dichloropropane	1	5	ND	ND	ND	ND					
Bromodichloromethane	1	5	ND	ND	ND	ND					
Dibromomethane	1	5	ND	ND	ND	ND					
Trans-1,3- Dichloropropene	1	5	ND	ND	ND	ND					
cis-1,3-Dichloropropene	1	5	ND	ND	ND	ND					
1,1,2-Trichloroethane	1	5	ND	ND	ND	ND					
1,3-Dichloropropane	0.5	5	ND	ND	ND	ND					
Dibromochloromethane	1	5	ND	ND	ND	ND					
2-Chloroethylvinyl ether	1	10	ND	ND	ND	ND					
Bromoform	1	5	ND	ND	ND	ND					
Isopropylbenzene	1	5	ND	ND	ND	ND					
Bromobenzene	1	5	ND	ND	ND	ND					
Toluene	0.5	1.0	ND	ND	ND	ND					
Tetrachloroethene	1	2	ND	ND	ND	ND					
1,2-Dibromoethane(EDB)	1	5	ND	ND	ND	ND					



Environmental Laboratories

Client: URS Corporation Lab Job No.: UR811056 Date Reported: 11-24-2008 Project: 29863494 Matrix: Water Date Sampled: 11-13/14-2008

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: ppb

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: ppb											
COMPOUND	MDL	PQL	MB	DUP-1	EB-1	TB-1					
Chlorobenzene	1	5	ND	ND	ND	ND					
1,1,1,2-Tetrachloroethan	1	5	ND	ND	ND	ND					
Ethylbenzene	0.5	1	ND	ND	ND	ND					
Total Xylenes	1	2	ND	ND	ND	ND					
Styrene	1	5	ND	ND	ND	ND					
1,1,2,2-Tetrachloroethan	1	5	ND	ND	ND	ND					
1,2,3-Trichloropropane	1	5	ND	ND	ND	ND					
n-Propylbenzene	1	5	ND	ND	ND	ND					
2-Chlorotoluene	1	5	ND	ND	ND	ND					
4-Chlorotoluene	1	5	ND	ND	ND	ND					
1,3,5-Trimethylbenzene	1	2	ND	ND	ND	ND					
tert-Butylbenzene	1	5	ND	ND	ND	ND					
1,2,4-Trimethylbenzene	1	5	ND	ND	ND	ND					
Sec-Butylbenzene	1	5	ND	ND	ND	ND					
1,3-Dichlorobenzene	1	5	ND	ND	ND	ND					
p-Isopropyltoluene	1	5	ND	ND	ND	ND					
1,4-Dichlorobenzene	1	2	ND	ND	ND	ND					
1,2-Dichlorobenzene	1	2	ND	ND	ND	ND					
n-Butylbenzene	1	5	ND	1.6J	ND	ND					
1,2,4-Trichlorobenzene	1	5	ND	ND	ND	ND					
1,2-Dibromo-3- Chloropropane	1	5	ND	ND	ND	ND					
Hexachlorobutadiene	1	5	ND	ND	ND	ND					
Naphthalene	1	5	ND ND	ND ND	ND ND	ND					
1,2,3-Trichlorobenzene	1	5	ND ND	ND ND	ND	ND ND					
	<u> </u>										
Acetone	25	50	ND ND	ND	ND ND	ND					
2-Butanone (MEK) Carbon disulfide	25 25	50 50	ND ND	ND ND	ND ND	ND ND					
	25	50	ND ND	ND ND	ND ND	ND ND					
4-Methyl-2-pentanone	25	50	ND ND	ND ND	ND ND	ND ND					
2-Hexanone	25	50	ND ND			ND ND					
Vinyl Acetate Ethanol	250	500	ND ND	ND ND	ND ND	ND ND					
MTBE		2	ND ND	ND ND	ND ND	ND ND					
ETBE	1					ND ND					
	1	2 2	ND ND	ND ND	ND ND	ND ND					
DIPE		2	·	ND ND	ND						
TAME t-Butyl Alcohol	10	20	ND ND	ND ND	ND ND	ND ND					
			עאו	עאו	אט	ND					
SURROGATE	Acc Lim	cept ait%	%RC	%RC	%RC	%RC					
Dibromofluoro-methane	79-	126	101	98	98	100					
Toluene-d8	79-	121	100	98	98	99					
Bromofluoro-benzene	71-	131	97	96	99	98					

MDL=Method Detection Limit, PQL= Practical Quantitation Limit;DF=Dilution Factor (DF × PQL = Reporting Limit for the sample);

ND=Not Detected (below DF \times MDL),J=Trace Value, result is below DF \times PQL but above DF \times MDL;

%RC=Percent Recovery; MB=Method Blank; * obtained from a higher dilution analysis.

Note: Surrogate spike concentrations are 25 μ g/L for all the compounds.



Environmental Laboratories

11-24-2008

TPH-Gasoline Batch QA/QC Report

Client: URS Corporation Lab Job No.: UR811056

Project: 29863494

Matrix:WaterLab Sample ID:UR811056-1Batch No.:EMK19-GW1Date Analyzed:11-19-2008

I. MS/MSD Report Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-G	ND	1000	949	920	94.9	92.0	3.1	30	70-130

II. LCS Result Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-G	944	1000	94.4	80-120

ND: Not Detected (at the specified limit).



Environmental Laboratories

11-24-2008

EPA 8015M (TPH) Batch QA/QC Report

Client: URS Corporation Lab Job No.: UR811056

Project: 29863494

Matrix:WaterLab Sample ID:UR811056-2Batch No.:EK18-DW1Date Analyzed:11-18-2008

I. MS/MSD Report Unit: ppm

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-d	ND	20	18.7	18.5	93.5	92.5	1.1	30	70-130

II. LCS Result Unit: ppm

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-d	57.3	50	114.6	80-120

ND: Not Detected (at the specified limit).



Environmental Laboratories

11-24-2008

EPA 8260B Batch QA/QC Report

Client: URS Corporation Lab Job No.: UR811056

Project: 29863494

Matrix:WaterSample ID:UR811056-1Batch No:1119-VOEW1Date Analyzed:11-19-2008

I. MS/MSD Report Unit: ppb

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Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1- Dichloroethene	ND	20	15.6	16.3	78.0	81.5	4.4	30	70-130
Benzene	ND	20	19.3	16.6	96.5	83.0	15.0	30	70-130
Trichloro-ethene	ND	20	18.0	16.4	90.0	82.0	9.3	30	70-130
Toluene	ND	20	17.6	17.0	88.0	85.0	3.5	30	70-130
Chlorobenzene	ND	20	17.7	16.8	88.5	84.0	5.2	30	70-130

II. LCS Result Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	49.5	50.0	99.0	80-120
Benzene	53.0	50.0	106.0	80-120
Trichloro-ethene	53.0	50.0	106.0	80-120
Toluene	52.8	50.0	105.6	80-120
Chlorobenzene	52.6	50.0	105.2	80-120

ND: Not Detected.

URS CORPORATION

2020 East First Street, Suite 400 Santa Ana, CA 92705 (714) 835-6886 FAX (714) 667-7147

CHAIN OF CUSTODY RECORD

Data Requested in GISKey Format						8- V			111	UR 8110 F6
Lab Name:		URS Project/PO Number	٠,٠	,		ı,		Requested Analyses:		
HIPMA Scientific		29863494	164			15 OF			Special	Special Instructions:
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URS Project Manager	,	EDF Reporting: Y	ð ≠	Global ID:		8-F 8-F 8-8				
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	Sample Date: Sample Time:	Preserved:	Matrix:	Container type:	# of Cont.:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			пон	/
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URS CORPORATION

2020 East First Street, Suite 400 Santa Ana, CA 92705 (714) 835-6886 FAX (714) 667-7147

CHAIN OF CUSTODY RECORD

WR 811 056 Lab Use Only Cooler Temperature*: ногр 又又又又 メメメ メメメ 80.41.11 Date/Time: # of Cont.: M T 95C Acetate SS. Brass Jar Encore 500 ml Aume. Plas. Glass VOD Acetate SS. Brass Jar Encore Acetate SS. Brass Jar Encore 550 ml(Appl. Plas. Glass 1004) Acetate SS. Brass Jar Encore mi Amb. Plas. Glass VOA Acetate SS. Brass Jar Encore mt Amb. Plas. Glass VOA Acetate SS. Brass Jar Encore ml Amb. Plas. Glass VOA Acetate SS. Brass Jar Encore ml Amb. Plas. Glass VOA ~<u>\bar{\theta}</u>~ URS Project/PO Number: ω **Q** დ ∾*(*∂a ν Ø ω **θ** 0 ω (၂)υ ഗചാ 0 L 2 S - 5 EDF Reporting: Y N Geo Tracker Informatic COELT Log Number. = | 17 8 8845 8947 PF01 MW-9 8110+6-9 14/14/03/0804 Sears Oakland 1058B Date Cher Hampfold Hamplocation. 4 Data Requested in GISKey Format UNS Project Manages John Liles Stavyo Pilatas Sample Name MW-3 1-070 F.8-一名出 MW

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APPENDIX H URS DATA VALIDATION REPORT FOR GROUNDWATER

Level III Data Validation Summary

PROJECT: Sears Oakland 1058B

Alpha Scientific Corporation LABORATORY:

MATRIX: Water **LAB PROJECT #**: UR811056 See table below **SAMPLES:**

Field ID	QC Designations	Lab ID	TPH-	TPH-Diesel	VOCs
			Gasoline	TPH-Oil	(including Fuel Oxygenates)
MW-2		UR811056-2	X	X	X
MW-5		UR811056-5	X	X	X
MW-6		UR811056-6	X	X	X
MW-7		UR811056-7	X	X	X
MW-8		UR811056-8	X	X	X
MW-4		UR811056-4	X	X	X
TB-1	Trip blank	UR811056-3	X		X
MW-9		UR811056-9	X	X	X
MW-1		UR811056-1	X	X	X
MW-3		UR811056-3	X	X	X
EW-1		UR811056-10	X	X	X
DUP-1	Field duplicate of EW-1	UR811056-11	X	X	X
EB-1	Equipment blank	UR811056-12	X		X

Date Sampled: 11/13-14/08

TPH-Gasoline= Total petroleum hydrocarbon – gasoline range (C4-C12), TPH-Diesel= Total petroleum hydrocarbon – diesel range (C13-C23)
TPH-Oil= Total petroleum hydrocarbon – oil range (C24-C40)
VOCs = Volatile organic compounds

Fuel Oxygenates = t-butyl alcohol (TBA), t-amyl methyl ether (TAME), di - isopropyl ether (DIPE), ethyl-t-butyl ether (ETBE), Methyl tertiary butyl ether (MTBE).

Alpha Scientific Corporation is certified by California Department of Health Services (Certificate Number 2633)

DATA REVIEW MATRIX

QC Parameter	TPH-Gasoline	TPH-Diesel/ TPH-Oil	VOCs
	EPA 8015M	EPA 8015M	EPA 8260B
Chain-of-custody (COC)	✓	✓	✓
Sample Receipt	✓	✓	✓
Holding Times	✓	✓	✓
Method Blank	✓	✓	✓
Surrogate Recovery	✓	✓	✓
Laboratory Control Sample	✓	✓	✓
Matrix Spike	√ (1)	√ (2)	√ (1)
Duplicate or Spike Duplicate	√ (1)	√ (2)	√ (1)
Field Duplicate	(3)	✓	✓
Trip Blank	✓	NA	✓
Equipment Blank	✓	NA	✓

^{✓ =} Quality control evaluation criteria met

NA = Not Applicable or not analyzed

Notes:

- 1. MS/MSD was conducted on sample MW-1. The results were within acceptance criterion.
- 2. MS/MSD was conducted on sample MW-2. The results were within acceptance criterion.
- 3. Due to field duplicate imprecision, the results for TPH-gasoline for samples EW-1 and Dup-1 were qualified as estimated (J).

<u>Summary</u>: Based on this Limited validation covering the QC parameters listed in the table above, these data, as qualified are considered to be useable for meeting project objectives. However, the data user must evaluate the ultimate usability of the data based on the reporting limits obtained. The table below lists the detection limits obtained for undiluted samples.

Analyte	Method Detection Limits (MDLs)	Practical Quantitation Limits (PQLs)
TPH-Diesel	500	2000
TPH-Oil	2000	3000
TPH-Gasoline	50	100
VOCs	0.5 to 25	1 to 50
MTBE	1	2
TBA	10	20
Other Oxygenates	1	2

Aqueous units are microgram per Liter (µg /L).

APPENDIX I SUMMARY OF SOIL ANALYTICAL RESULTS

Appendix I Summary of Soil Analytical Results Former Sears Auto Center #1058 2600 Telegraph Avenue Oakland California

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			TDII	L EDAO	01534	1						TORY AN			TS					T 11. T	DA 7420 (010D(*)
			IPH	by EPA 8)15M				1	1	V O	latile Orgai	HCS DY EPA	8260B	1	1	1	1	1	Lead by E	CPA 7420 or 6010B(*)
Sample	Sample	Sample Depth	ТРНg	TPHd	ТРНо	Benzene	1,1,2-Trichloroethane	Isopropylbenzene	Toluene	Ethylbenzene	Total Xylenes	n-Propylbenzene	1,3,5-Trimethlybenzene	tert-Butylbenzene	1,2,4-Trimethylbenzene	Sec-Butylbenzene	p-Isopropyitoluene	n-Butylbenzene	Naphthalene		Total Lead
No.	Date	(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)		(mg/kg)
CB1-5	2/17/2004	5	4.1	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	10.6		9.4
CB1-10	2/17/2004	10	25.2	< 5	< 50	< 2	102	32.6	11.6	21.4	22.0	86.6	45.8	< 5	122	38.0	< 5	88.4	43.6	<	2.5
CB1-15	2/17/2004	15	1.3	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CB1-20	2/17/2004	20	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CB2-5	2/17/2004	5	2.1	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	5.9	7.6		3.1
CB2-10	2/17/2004	10	1.4	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		6.7
CB2-15 CB2-20	2/17/2004 2/17/2004	15 20	< 0.5 < 0.5	< 5 < 5	< 50 < 50	< 2	< 5	< 5 < 5	< 2	< 2	< 4	< 5 < 5	< 5 < 5	< 5	< 5	< 5	< 5	< 5 < 5	< 5	<	2.5 2.5
CB2-25	2/17/2004	25	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CB2-25 CB3-5	2/17/2004	5	645	< 5	< 50	< 2	< 5	1,400	< 2	3,070	2,890	4,720	8,930	< 5	25,500	1,220	823	< 5	3,800	<	14
CB3-3 CB3-10	2/17/2004	10	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	5.2	< 5	9.6	< 5	< 5	< 5	< 5	<	2.5
CB3-10	2/17/2004	15	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CB4-5	2/17/2004	5	4.7	21	305	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	28	< 5	< 5	< 5	5.1	33		8.1
CB4-10	2/17/2004	10	4.6	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5.8		3.3
CB4-15	2/17/2004	15	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CB4-20	2/17/2004	20	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CB4-25	2/17/2004	25	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CB5-5	2/17/2004	5	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		2.9
CB5-10	2/17/2004	10	72.1	202	1,430	< 2	< 5	65.5	< 2	< 2	< 4	62.5	< 5	761	< 5	< 5	< 5	760	363	<	2.5
CB5-15	2/17/2004	15	1.3	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		4.8
CB5-20	2/17/2004	20	2.0	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CB6-5	2/17/2004	5	0.6	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CB6-10	2/17/2004	10	< 0.5	36	186	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CB6-15	2/17/2004	15	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		2.8
CB6-20	2/17/2004	20	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CB7-5	2/17/2004	5	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CB7-10	2/17/2004	10	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CB7-15	2/17/2004	15	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CB7-20	2/17/2004	20	< 0.5	< 5	< 50	5.8	< 5	< 5	7.3	< 2	18.4	7.0	8.8	< 5	< 5	10.6	< 5	< 5	< 5	<	2.5
CB8-5	2/18/2004	5	1,780	30	< 50	< 2	< 5	14,300	1,630		160,000	41,500	55,000	< 5	166,000	5,490	3,300	17,600	20,200	<	2.5
CB8-10	2/18/2004	10	36.5	< 5	< 50	< 2	< 5	205	< 2	129	< 4	487	72.5	< 5	215	110	< 5	253	204		5.3
CB8-15	2/18/2004	15	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CB9-5	2/18/2004	5	< 0.5	< 5 < 5	< 50 < 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5 < 5	< 5	<	2.5 2.8
CB9-10	2/18/2004		< 0.5			< 2	< 5	< 5	< 2	< 2	< 4	< 5		< 5	< 5	< 5	< 5 < 5		< 5		
CB9-15 CB9-20	2/18/2004 2/18/2004	15 20	< 0.5 < 0.5	< 5 < 5	< 50 < 50	< 2	< 5 < 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5 < 5	< 5	<	2.5 2.5
CB9-20 CB10-5	2/18/2004	5		< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		2.5
CB10-3 CB10-10	2/18/2004	10	< 0.5 172	< 5	< 50	< 2	394	< 5	< 2	< 2	< 4	1,110	< 5	< 5	< 5	485	< 5	1,130	180	<	2.5
CB10-10 CB10-15	2/18/2004	15	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CB10-13	2/18/2004	5	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CD11-3	2/10/2004	ر	\ U.J	\ 3	\ JU	\	\ 3	\ J	\	\	\ +	\ J	\ 3	\ J	\ J	\ J	\)	\ J	\ 3	_	4.0

Appendix I **Summary of Soil Analytical Results** Former Sears Auto Center #1058 2600 Telegraph Avenue Oakland California

											LABORA	TORY AN	ALYTICA	L RESULT	ΓS						
			TPH	by EPA 80	015M						Vo	latile Orga	nics by EPA	8260B						Lead by EPA	7420 or 6010B(*)
Sample	Sample	Sample Depth	TPHg	ТРН	ТРНо	Benzene	1,1,2-Trichloroethane	S Isopropylbenzene	Toluene	Ethylbenzene	Total Xylenes	n-Propylbenzene	1,3,5-Trimethlybenzene	tert-Butylbenzene	1,2,4-Trimethylbenzene	Sec-Butylbenzene	p-Isopropyltoluene	n-Butylbenzene	Naphthalene		Total Lead
No.	Date 2/18/2004	(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg) < 50		(μg/kg)	(μg/kg)	(µg/kg)	(μg/kg)	(µg/kg)	(μg/kg)	(µg/kg)	(μg/kg)	(μg/kg)	(µg/kg)	(μg/kg)	(μg/kg)	(µg/kg)	(1	mg/kg) 4.2
CB11-10 CB11-15	2/18/2004	10 15	< 0.5 11.0	< 5 < 5	< 50 < 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5 11.4	<	2.5
CB11-13 CB12-10	2/18/2004	10	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	/ 11.4 / 5	•	2.5
CB12-10 CB13-5	2/18/2004	5	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	41
CB13-3 CB13-10	2/18/2004	10	51.8	< 5	< 50	< 2	< 5	< 5	< 2	340	140	< 5	110	< 5	250	< 5	< 5	< 5	135	<	2.5
CB13-10 CB13-15	2/18/2004	15	5.3	< 5	< 50	< 2	< 5	< 5	< 2	< 2	140	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		2.5
CB13-13 CB13-20	2/18/2004	20	0.7	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5		2.5
CB13-20 CB14-5	2/18/2004	5	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<	2.5
CB14-10	2/18/2004	10	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	_	2.5
CB14-10 CB14-15	2/18/2004	15	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		2.5
CB14-13 CB14-20	2/18/2004	20	< 0.5	< 5	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		2.5
SB01-5	12/23/2008	5	< 0.5	< 10	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		8.7*
SB01-10	12/23/2008	10	< 0.5	< 10	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		8.0*
SB01-15	12/23/2008	15	78.7	187	891	< 10	< 25	< 25	< 10	< 10	< 20	< 25	8.4J	< 25	6,2J	94.1	< 25	304	< 25		7.4*
SB01-20	12/23/2008	20	< 0.5	16	61	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		6.7*
SB02-10	12/23/2008	10	< 0.5	< 10	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		6.7*
SB02-15	12/23/2008	15	5.1	54	313	< 4	< 10	< 10	< 4	< 4	< 8	< 10	< 10	58.4	< 10	5.2J	< 10	6.2J	< 10		7.4*
SB02-20	12/23/2008	20	< 0.5	< 10	< 50	< 2	< 5	< 5	< 2	< 2	< 4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		6.1*
Environme	ntal Screening Lev	el (ESL)	100	100	1.000	44	70	NE	2900	3300	1500	NE	NE	NE	NE	NE	NE	NE	NE		750

otes:
TPHg- Total Petroleum Hydrocarbons, gasoline range (C4-C-12)
TPHd- Total Petroleum Hydrocarbons, diesel range (C13-C-13)

TPHo- Total Petroleum Hydrocarbons, oil range (C24-C-40)

(μg/kg) = micrograms per kilogram

(ng/kg) = milligrams per kilogram ft bgs = feet below ground surfacc <= Analyte not detected at or above indicated method detection lim

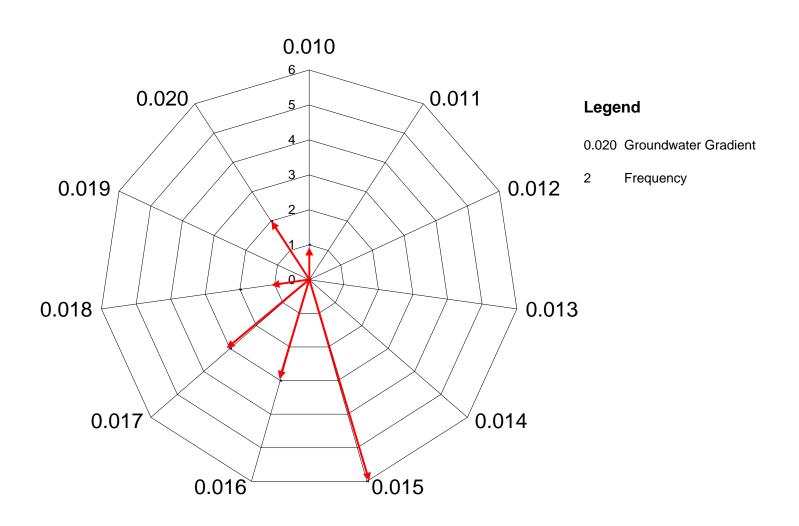
Environmental Screening Level (ESL) for Shallow Soils, San Francisco, RWQCB revised 9/4/03 (Summary Table \not NE - ESL Not Established

Page 2 of 2 $G:\label{lem:condition} G:\label{lem:condition} G:\label{lem:condition} Ave\label{lem:condition} G:\label{lem:condition} Ave\label{lem:condition} G:\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition} G:\label{lem:condition} Ave\label{lem:condition} Ave\label{lem:condition}$

APPENDIX J

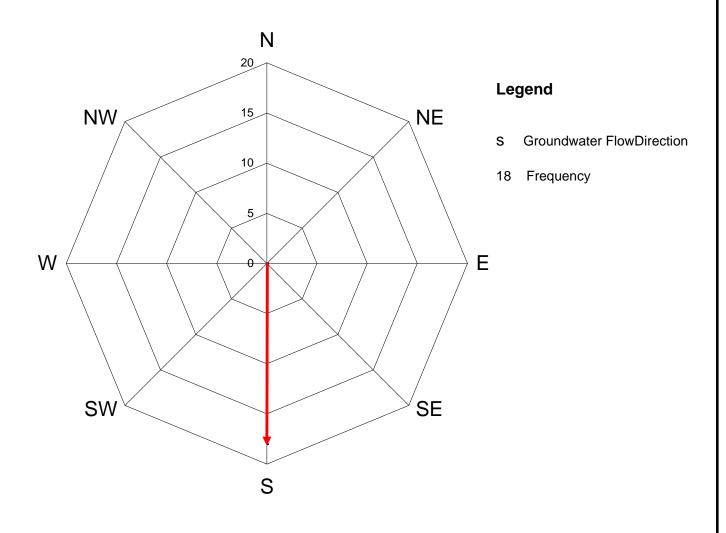
ROSE DIAGRAMS FOR HISTORICAL GROUNDWATER GRADIENT AND FLOW DIRECTION

Appendix J
Historic Hydraulic Gradient Diagram
Sears Auto Center #1058B
2600 Telegraph Avenue, Oakland, CA
February 25, 2000 - November 13, 2008





Appendix J Historic Hydraulic Flow Direction Diagram Sears Auto Center #1058B 2600 Telegraph Avenue, Oakland, CA February 25, 2000 - November 13, 2008





APPENDIX K WELL SURVEY DATA

Well Legend

DOM=Domestic well

IRR=Irrigation well

MUN= Municipal well

IND=Industrial well

CAT=Cathodic well

DES=well destroyed (through permit)

ABN=Abandoned and not being used (but has not been destroyed through permit process)

TES=Test well

BOR= Geotechnical investigation

MON= Monitoring well

EXT=Extraction/ Vapor wells

PIE=Piezometers

REC=Recovery well (extraction/ vapor)

? = Unknown or no information found or given

Tr Section	Address	Longcity	Owner	<u>Update</u>	Xcoord		Matchlevel Tsrqq	Rec code Ph		Drilldate	Elevation To				
1S/4W 1S/4W	26A	3093 Broadway	Oakland Oakland	Connel Oldsmobile	3/14/1991		37820830	0 1S/4W 26A 8 1S/4W 26A	1242 2436	0 OAK 0 OAK	Oct-90	0	22 0	13 0	2 MON 0 GEO*
1S/4W	26A 1 26A 2	450 30TH	Oakland	PERALTA HOSPITAL Connel Oldsmobile	7/31/1984 1/11/1991	122265138 122260700	37819514 37820830	0 1S/4W 26A	929	0 OAK 0 OAK	Oct-90	0 90	18	4	2 MON
1S/4W	26A 2 26A 3	3093 Broadway 3093 Broadway	Oakland	Connell Oldsmobile	4/17/1991	122260700	37820830	0 1S/4W 26A	1627	0 OAK	Nov-90	0	41	40	2 MON
1S/4W	26A 4	3093 Broadway	Oakland	Connell Oldsmobile	4/17/1991	122260700	37820830	0 1S/4W 26A	1628	0 OAK	2/91	0	15	7	4 MON
1S/4W	26A 5	3093 Broadway	Oakland	Connell Oldsmobile	4/17/1991	122260700	37820830	0 1S/4W 26A	1629	0 OAK	2/91	0	40	27	2 MON
1S/4W	26A 6	3093 Broadway	Oakland	Connell Oldsmobile	4/17/1991	122260700	37820830	0 1S/4W 26A	1630	0 OAK	2/91	ő	35	22	2 MON
1S/4W	26A 7	3093 Broadway	Oakland	Connell Oldsmobile	4/17/1991	122260700	37820830	0 1S/4W 26A	1631	0 OAK	2/91	0	30	24	2 MON
1S/4W	26A 8	3093 Broadway	Oakland	Connell Oldsmobile	4/17/1991	122260700	37820830	0 1S/4W 26A	1632	0 OAK	3/91	0	35	25	2 MON
1S/4W	26B 1	29 & TELEGRAPH AV	Oakland	PG&E	7/31/1984	122266800	37818400	8 1S/4W 26E	2437	0 OAK	4/74	0	0	8	0 CAT
95814 1S/4W	26B 2	3045 Telegraph Av	Oakland			122266610	37819664	1 1S/4W 26E	0	0 OAK	4/96	0	16	11	1 MON
95814 1S/4W	26B 3	3045 Telegraph Av	Oakland			122266610	37819664	1 1S/4W 26E	0	0 OAK	4/96	0	16	11	1 MON
95814 1S/4W	26B 4	3045 Telegraph Av	Oakland	0.11 1.77		122266610	37819664	1 1S/4W 26E	0	0 OAK	4/96	0	16	11	1 MON
1S/4W	26J 8	Valdez St.and 23rd Street	Oakland	Oakland Tribune		122263800	37812100	3 1S/4W 26J	722	0 OAK	May-90	0	27	0	4 MON
1S/4W 1S/4W	26J 9 26K	Valdez St.and 23rd Street Broadway/W Grand Ave	Oakland Oakland	Oakland Tribune Commonwealth Companies	7/29/1990 7/27/1990		37812100 37811900	3 1S/4W 26J	723 739	0 OAK 0 OAK	May-90 May-90	0	25 15	0	4 MON 0 BOR
1S/4W	26K 2	2225 Telegraph Avenue	Oakland	Texaco	7/27/1990		37812090	3 1S/4W 26K 8 1S/4W 26K	759 750	0 OAK	May-90	99	25	14	4 EXT
1S/4W	26K 6	2225 Telegraph Avenue	Oakland	Texaco	7/30/1990		37812090	8 1S/4W 26K	751	0 OAK	May-90	100	25	0	4 EXT
1S/4W	26K 7	2225 Telegraph Avenue	Oakland	Texaco	7/30/1990		37811700	3 1S/4W 26K	752	0 OAK	May-90	98	25	Ö	4 EXT
1S/4W	26H 6	2915 Broadway	Oakland	European Motors		122262457	37818081	0 1S/4W 26F	322	0 OAK	2/90	45	30	12	2 MON
1S/4W	26H 7	2915 Broadway	Oakland	European Motors	6/21/1990		37818081	0 1S/4W 26F	323	0 OAK	2/90	44	30	11	2 MON
1S/4W	26H 8	2915 Broadway	Oakland	European Motors	6/21/1990	122262457	37818081	0 1S/4W 26F	324	0 OAK	2/90	44	30	10	2 MON
1S/4W	26R 1	300 Lakeside Drive	Oakland	Kaiser Center	2/27/1991	122262777	37808352	8 1S/4W 26F	1082	0 OAK	1/91	0	13	0	2 DES
1S/4W	26R 2	2100 Harrison Street	Oakland	Ahmanson Commercial Dvlpt	4/17/1991	122262261	37810004	0 1S/4W 26F	1622	0 OAK	2/91	0	290	0	5 DOM
1S/4W	26R 3	2100 Harrison Street	Oakland	Ahmanson Commercial Dvlpt	4/17/1991	122262261	37810004	0 1S/4W 26F	1623	0 OAK	3/91	0	290	20	6 IRR
1S/4W	26P 7	537 18th Street	Oakland	City of Oakland Redvlpmnt	6/12/1991	122271233	37808300	0 1S/4W 26F	1689	0 OAK	1/91	98	63	54	2 MON
1S/4W	26P 8	570 18th Street	Oakland	City of Oakland Redvlpmnt	6/12/1991	122271885	37808538	0 1S/4W 26F	1690	0 OAK	1/91	97	15	0	4 EXT
1S/4W	26P 9	19th St & San Pablo Ave	Oakland	City of Oakland Redvlpmnt	6/12/1991	122272100	37809300	0 1S/4W 26F	1691	0 OAK	1/91	0	30	23	2 TES
1S/4W	26P10	611 20th St	Oakland	City of Oakland Redvlpmnt	6/12/1991	122271359	37810437	0 1S/4W 26F	1692	0 OAK	1/91	0	30	23	2 TES
1S/4W 1S/4W	26P11 26P12	612 Williams St	Oakland Oakland	City of Oakland Redvlpmnt	6/12/1991	122271229 122270904	37810033 37810372	0 1S/4W 26F 0 1S/4W 26F	1693 1694	0 OAK 0 OAK	1/91 1/91	0	25 24	23 21	2 TES 2 TES
1S/4W	26P12	585 20th St 588 - 596 Williams St	Oakland	City of Oakland Redvlpmnt City of Oakland Redvlpmnt	6/12/1991 6/12/1991		37809978	3 1S/4W 26F	1695	0 OAK	1/91	0	28	23	2 TES
1S/4W	26P14	536 20th St	Oakland	City of Oakland Redylpmnt	6/12/1991	122270077	37810458	0 1S/4W 26F	1696	0 OAK	1/91	0	23	14	2 TES
1S/4W	26Q 5	17th St & Broadway	Oakland	City of Oakland Redvlpmnt	6/12/1991		37807300	0 1S/4W 26C	1697	0 OAK	1/91	0	27	20	2 TES
1S/4W	26Q 6	557 19th Street	Oakland	City of Oakland Redvlpmnt	6/12/1991		37809021	0 1S/4W 26C	1698	0 OAK	1/91	0	25	16	2 TES
1S/4W	26Q 7	19th St & Telegraph Ave	Oakland	City of Oakland Redylpmnt	6/12/1991	122269300	37808900	3 1S/4W 26C	1699	0 OAK	1/91	ō	25	19	2 TES
1S/4W	26Q 8	552 19th St.	Oakland	City of Oakland Redvlpmnt	6/12/1991	122270742	37809207	0 1S/4W 26C	1700	0 OAK	1/91	0	24	19	2 TES
1S/4W	26Q 9	20th St. & Telegraph Ave.	Oakland	City of Oakland Redvlpmnt	6/12/1991	122269000	37810200	0 1S/4W 26C	1701	0 OAK	1/91	0	28	21	2 TES
1S/4W	26Q10	513 18th St	Oakland	City of Oakland Redvlpmnt	6/12/1991	122270108	37808183	0 1S/4W 26C	1702	0 OAK	1/91	0	26	20	2 TES
1S/4W	26P	S. Pablo & 18th/19th St	Oakland	E.B. Galleria	7/9/1991		37808400	3 1S/4W 26F	1721	0 OAK	Dec-90	0	120	0	2 CAT
1S/4W	26R 4	300 Lakeside Drive	Oakland	Kaiser Center	7/26/1991	122262777	37808352	8 1S/4W 26F	1737	0 OAK	6/91	0	35	20	2 MON
1S/4W	26H 9	2740 Broadway Ave	Oakland	Broadway Volkswagen	7/29/1991	122263401	37816191	3 1S/4W 26F	1751	0 OAK	4/91	5	17	3	2 MON
1S/4W	26G 1	2800 TELEGRAPH AVE	Oakland	SHELL OIL COMPANY	8/8/1988		37817156	0 1S/4W 26C	2446	0 OAK	Apr-88	0	28	12	3 MON
1S/4W 1S/4W	26G 2 26G 3	2800 TELEGRAPH AVE 2800 TELEGRAPH AVE	Oakland Oakland	SHELL OIL COMPANY SHELL OIL COMPANY	8/8/1988 8/8/1988		37817156 37817156	0 1S/4W 26C 0 1S/4W 26C	2447 2448	0 OAK 0 OAK	Apr-88 Apr-88	0	28 28	12 12	3 MON 3 MON
1S/4W	26G 4	2800 TELEGRAPH AV.	Oakland	SHELL OIL COMPANT	6/15/1989		37817156	0 1S/4W 26G	2449	0 OAK	Oct-88	0	30	11	3 MON
1S/4W	26G 5	2800 TELEGRAPH AV.	Oakland	SHELL OIL	6/15/1989		37817156	0 1S/4W 26G	2450	0 OAK	Oct-88	0	24	13	3 MON
1S/4W	26G 6	2800 TELEGRAPH AV.	Oakland	SHELL OIL	6/15/1989		37817156	0 1S/4W 26G	2451	0 OAK	Oct-88	Ö	22	12	3 MON
1S/4W	26G 7	2800 TELEGRAPH AV.	Oakland	SHELL OIL	6/15/1989		37817156	0 1S/4W 26C	2452	0 OAK	Oct-88	Ö	30	12	3 MON
1S/4W	26G 8	2800 TELEGRAPH AV S-8	Oakland	SHELL OIL CO.	11/6/1989	122267087	37817156	2 1S/4W 26G	2453	0 OAK	Sep-89	26	22	11	3 MON
1S/4W	26G 9	2800 TELEGRAPH AV S-9	Oakland	SHELL OIL CO.	11/6/1989	122267087	37817156	0 1S/4W 26G	2454	0 OAK	Sep-89	26	32	14	3 MON
1S/4W	26G10	2800 TELEGRAPH AV S10	Oakland	SHELL OIL CO.	11/6/1989	122267087	37817156	2 1S/4W 26G	2455	0 OAK	Sep-89	27	31	14	3 MON
1S/4W	26G11	2800 TELEGRAPH S11	Oakland	SHELL OIL	1/22/1990		37817156	2 1S/4W 26G	2459	0 OAK	Oct-89	0	31	14	3 MON
1S/4W	26H 1	28 & VALDEZ ST	Oakland	CHRSTN CHURCH HOME BLDG	7/31/1984		37816600	8 1S/4W 26F	2460	0 OAK	?	0	0	0	0 GEO*
1S/4W	26H 2	20TH ST.	Oakland	COMMUNITY CARE BLDG		122293000	37817250	2 1S/4W 26F	2461	0 OAK	Nov-78	0	0	0	0 GEO*
1S/4W	26H 3	2740 BROADWAY	Oakland	BROADWAY VW	6/15/1989		37816191	0 1S/4W 26F	2462	0 OAK	Jan-89	0	20	7 11	2 MON
1S/4W	26H 4 26H 5	2740 BROADWAY	Oakland	BROADWAY VW BROADWAY VW	6/15/1989		37816191	0 1S/4W 26F	2463 2464	0 OAK	Jan-89	0	20 20	11	2 MON 2 MON
1S/4W 1S/4W	26H 5	2740 BROADWAY 2302 VALDEZ ST.	Oakland Oakland	MORRISON & FORESTER	6/15/1989 11/6/1989		37816191 37812297	0 1S/4W 26F 0 1S/4W 26J	2465	0 OAK 0 OAK	Jan-89 Aug-89	0	27	0	0 BOR
1S/4W	26J 1	23RD & VALDEZ	Oakland	OAKLAND TRIBUNE	6/15/1989		37812144	8 1S/4W 26J	2466	0 OAK	Aug-88	0	31	18	3 MON
1S/4W	26J 2	23RD & VALDEZ	Oakland	OAKLAND TRIBUNE	6/15/1989		37812144	8 1S/4W 26J	2467	0 OAK	Aug-88	0	31	18	3 MON
1S/4W	26J 3	23RD & VALDEZ	Oakland	OAKLAND TRIBUNE	6/15/1989		37812144	8 1S/4W 26J	2468	0 OAK	Aug-88	0	26	15	3 MON
1S/4W	26J 4	2302 VALDEZ ST.	Oakland	MORRISON & FORESTER	11/6/1989		37812297	0 1S/4W 26J	2469	0 OAK	Aug-89	Ö	27	0	4 MON
1S/4W	26J 5	2302 VALDEZ ST.	Oakland	MORRISON & FORESTER	11/6/1989		37812297	0 1S/4W 26J	2470	0 OAK	Aug-89	Ö	27	0	4 MON
1S/4W	26J 6	2302 VALDEZ ST.	Oakland	MORRISON & FORESTER	11/6/1989		37812297	0 1S/4W 26J	2471	0 OAK	Aug-89	0	27	0	4 MON
1S/4W	26J 7	2302 VALDEZ ST.	Oakland	MORRISON & FORESTER	11/6/1989		37812297	0 1S/4W 26J	2472	0 OAK	Aug-89	0	27	0	4 MON
1S/4W	26K 1	2ND AND TELEGRAPH	Oakland	21ST AND TELE PARKING	12/12/1984		37812747	9 1S/4W 26K	2473	0 OAK	Oct-74	0	0	0	0 GEO*
1S/4W	26K 3	2225 TELEGRAPH AVE	Oakland	TEXACO STA #62488000195	12/20/1988		37812090	8 1S/4W 26K	2474	0 OAK	Jul-88	0	21	13	2 MON
1S/4W	26K 4	2225 TELEGRAPH AVE	Oakland	TEXACO STA #62488000195	12/20/1988	122268454	37812090	8 1S/4W 26K	2475	0 OAK	Jul-88	0	19	14	2 MON

1S/4W	26K 5	2225 TELEGRAPH AVE	Oakland	TEXACO STA #62488000195	12/20/1088	122268454	37812090	8 1S/4W 26K	2476	0 OAK	Jul-88	0	20	14	2 MON
												•			
1S/4W	26K 8	2225 TELEGRAPH AV.	Oakland	TEXACO	6/15/1989	122268454	37812090	8 1S/4W 26K	2477	0 OAK	Dec-88	100	22	14	4 MON
1S/4W	26K 9	2225 TELEGRAPH AV.	Oakland	TEXACO	6/15/1080	122268454	37812090	8 1S/4W 26K	2478	0 OAK	Dec-88	98	21	12	4 MON
1S/4W	26K10	2225 TELEGRAPH AV.	Oakland	TEXACO	6/15/1989	122268454	37812090	8 1S/4W 26K	2479	0 OAK	Dec-88	98	21	13	4 MON
1S/4W	26L 1	774 W. GRAND AVE	Oakland	DAVID FYNE	6/9/1988	122274728	37813547	0 1S/4W 26L	2480	0 OAK	Apr-88	0	40	13	2 MON
												-			
1S/4W	26L 2	577 W. GRAND AV.	Oakland	U.S. POSTAL SVC.	6/15/1989	122269840	37812351	0 1S/4W 26L	2481	0 OAK	Dec-88	0	30	0	2 MON
1S/4W	26P 1	1700 JEFFERSON (@17th)	Oakland	BLUE PRINT SERVICES	2/23/1988	122272770	37808224	2 1S/4W 26F	2487	0 OAK	6/87	32	34	25	4 MON
1S/4W	26P 2	1700 JEFFERSON (@17th)	Oakland	BLUE PRINT SERVICES	2/23/1988	122272770	37808224	2 1S/4W 26F	2488	0 OAK	Nov-87	31	32	27	4 DES
1S/4W	26P 3	1700 JEFFERSON (@17th)	Oakland	BLUE PRINT SERVICES	2/23/1088	122272770	37808224	2 1S/4W 26F	2489	0 OAK	6/87	31	32	25	4 MON
1S/4W	26P 4	1700 JEFFERSON (@17th)	Oakland	BLUE PRINT SERVICES	2/23/1988	122272770	37808224	2 1S/4W 26F	2490	0 OAK	1/88	31	33	25	4 MON
1S/4W	26P 5	1700 JEFFERSON (@17th)	Oakland	BLUE PRINT SERVICES	2/23/1088	122272770	37808224	2 1S/4W 26F	2491	0 OAK	1/88	32	34	26	4 MON
1S/4W	26P 6	CRN OF 18TH & JEFFERSON	Oakland	BLUE PRINT SERVICE CO	12/20/1988	122272600	37808700	8 1S/4W 26F	2492	0 OAK	Oct-88	0	41	20	2 MON
1S/4W	26Q 1	19 & FRANKLIN ST	Oakland		12/12/1984	122267200	37807900	8 1S/4W 26C	2493	0 OAK	9/74	0	0	0	0 GEO*
												-			
1S/4W	26Q 2	BROADWAY & 20 ST	Oakland	BANK AMERICA	12/12/1984	122267700	37809700	8 1S/4W 26C	2494	0 OAK	Nov-78	0	0	0	0 GEO*
1S/4W	26Q 3	1911 TELEGRAPH AVE	Oakland	CARTER-HAWLEY-HALE	6/1/1988	122269338	37809130	0 1S/4W 26C	2495	0 OAK	Mar-88	0	25	18	2 TES
1S/4W	26Q 4	21ST & BROADWAY	Oakland	BANK OF AMERICA	6/15/1989	122267100	37810600	8 1S/4W 26C	2496	0 OAK	Nov-88	0	30	20	2 MON
1S/4W	26K 2	BROADWAY & 22ND ST	Oakland	SANWA BANK	12/12/1984	122266600	37811400	8 1S/4W 26K	6549	0 OAK	9/74	0	0	0	0 GEO*
												•			
1S/4W	26K 7	2225 TELEGRAPH AV.	Oakland	TEXACO	6/15/1989	122268454	37812090	8 1S/4W 26K	6552	0 OAK	Dec-88	100	22	14	4 MON
1S/4W	26P 6					0	0	9 1S/4W 26F	6821	0	Dec-88	0	40	20	2 TES
							-			-		-			
1S/4W	26J					0	0	9 1S/4W 26J	6896	0	Aug-89	0	25	0	0 BOR
1S/4W	26J					0	0	9 1S/4W 26J	6897	0	Aug-89	0	22	0	0 BOR
						-				-		-		-	
1S/4W	26J					0	0	9 1S/4W 26J	6898	0	Aug-89	0	22	0	0 BOR
1S/4W	26J					0	0	9 1S/4W 26J	6899	0	Aug-89	0	22	0	0 BOR
						0				-		0		-	
1S/4W	26J					0	0	9 1S/4W 26J	6900	0	Aug-89	•	24	0	0 BOR
1S/4W	26J					0	0	9 1S/4W 26J	6901	0	Aug-89	0	24	0	0 BOR
						_						-		-	
1S/4W	26J					0	0	9 1S/4W 26J	6902	0	Aug-89	0	22	0	0 BOR
1S/4W	26K 2					0	0	9 1S/4W 26K	6903	0	Jul-88	0	21	14	2 MON
						0				-					
1S/4W	26K 3					U	0	9 1S/4W 26K	6904	0	Jul-88	0	21	13	2 MON
1S/4W	26K 8					0	0	9 1S/4W 26K	6905	0	Dec-88	99	20	12	4 MON
						0	0			0		0	41		
1S/4W	26P 6					U	U	9 1S/4W 26F	6908	U	Oct-88	U	41	20	2 MON
1S/4W	26L 3	2103 San Pablo Ave	Oakland	Greyhound ES-1	9/30/1992	122273297	37811847	1 1S/4W 26L	7357	0 OAK	Nov-91	0	31	19	4 MON
												0			4 MON
1S/4W	26L 4	2103 San Pablo Ave	Oakland	Greyhound ES-2		122273297	37811847	1 1S/4W 26L	7358	0 OAK	Nov-91	-	31	20	
1S/4W	26L 5	2103 San Pablo Ave	Oakland	Greyhound ES-3	3/9/1992	122273297	37811847	1 1S/4W 26L	7359	0 OAK	Nov-91	0	35	20	4 MON
1S/4W	26L 6	2103 San Pablo Ave	Oakland			122273297	37811847	1 1S/4W 26L	7360	0 OAK	Nov-91	0	31	19	4 MON
1S/4W	26L 7	2103 San Pablo Ave	Oakland	Greyhound ES-5	9/30/1992	122273297	37811847	1 1S/4W 26L	7361	0 OAK	Nov-91	0	32	19	4 MON
	26H10						07040404		7533	0.041/		0	30	8	4 MON
1S/4W		2740 Broadway	Oakland	Vorelco, Inc.	8/3/1992	122263401	37816191	1 1S/4W 26F		0 OAK	Oct-91				
1S/4W	26H11	2740 Broadway	Oakland	Vorelco, Inc.	8/3/1992	122263401	37816191	1 1S/4W 26F	7534	0 OAK	Oct-91	0	27	11	4 MON
	26H											0	10		2 BOR*
1S/4W		2827 Webster	Oakland			122263492	37817097	1 1S/4W 26F	7679	0 OAK	8/91	-		0	
1S/4W	26R 6	2100 Harrison St	Oakland	Ahmanson Comm Dev. MW-3	9/20/1992	122262261	37810004	1 1S/4W 26F	7866	0 OAK	3/92	0	25	7	4 MON
												ő			
1S/4W	26K11	2225 Telegraph Ave	Oakland	Exxon Service Stn RW3A	9/21/1992		37812090	1 1S/4W 26K	7877	0 OAK	5/92		22	13	4 EXT
1S/4W	26K12	2225 Telegraph Ave	Oakland	Texaco MW6A	9/21/1992	122268454	37812090	1 1S/4W 26K	7878	0 OAK	5/92	0	21	0	12 DES
												-			
1S/4W	26R 7	1975 Webster St	Oakland	Mobil #04-077 MW-1	9/21/1992		37808734	1 1S/4W 26F	7892	0 OAK	5/92	8	16	6	4 MON
1S/4W	26R 8	1975 Webster St	Oakland	Mobil #04-077 MW-2	9/21/1992	122265694	37808734	1 1S/4W 26F	7893	0 OAK	5/92	9	16	7	4 MON
												0		5	4 MON
1S/4W	26R 9	1975 Webster St	Oakland	Mobil #04-077 MW-3	9/21/1992		37808734	1 1S/4W 26F	7894	0 OAK	4/92	-	28	5	
1S/4W	26R10	1975 Webster St	Oakland	Mobil #04-077 MW-4	9/21/1992	122265694	37808734	1 1S/4W 26F	7895	0 OAK	4/92	9	16	6	4 MON
1S/4W	26R	1975 Webster	Oakland	Mobil #04-077 SB1		122265658	37808698	1 1S/4W 26F	7896	0 OAK	4/92	0	30	12	0 BOR*
1S/4W	26R11	1 Kaiser Plaza	Oakland	Ordway Building MW-1	9/23/1992	122262483	37810205	1 1S/4W 26F	7972	0 OAK	3/92	23	34	18	2 MON
1S/4W	26R12		Oakland			122262483	37810205	1 1S/4W 26F	7973	0 OAK	3/92	20	32	16	2 MON
		1 Kaiser Plaza													
1S/4W	26R13	1 Kaiser Plaza	Oakland	Ordway Building MW-3	9/23/1992	122262483	37810205	1 1S/4W 26F	7974	0 OAK	3/92	20	28	16	2 MON
1S/4W	26R	1 Kaiser Plaza	Oakland	Ordway Building B-2		122262358	37810174	1 1S/4W 26F	7975	0 OAK	3/92	0	20	0	6 BOR*
												-			
1S/4W	26K4	2225 Telegraph Ave	Oakland	Texaco MW6C	9/26/1992	122268454	37812090	1 1S/4W 26K	8128	0 OAK	Nov-91	100	20	0	2 DES
1S/4W	26J10	2345 Broadway	Oakland	Negherbon Auto Center	6/17/1993	122265564	37813116	1 1S/4W 26J	0	0 OAK	6/92	0	29	22	2 MON
				Alex Dudy D.2					-			0			
1S/4W	26H14	2827 Webster St.	Oakland	Alan Rudy B-2	7/13/1993	122263483	37817098	1 1S/4W 26F	0	0 OAK	8/91	0	10	0	0 BOR
1S/4W	26G16	2633 Telegraph Ave.	Oakland	Sears Roebuck & Co. MW1	7/15/1993	122267754	37815668	1 1S/4W 26G	0	0 OAK	Dec-92	27	22	12	2 MON
									-						
1S/4W	26G17	2633 Telegraph Ave.	Oakland	Sears Roebuck & Co. MW2		122267754	37815668	1 1S/4W 26C	0	0 OAK	Dec-92	27	22	12	2 MON
1S/4W	26G18	2633 Telegraph Ave.	Oakland	Sears Roebuck & Co. MW3	7/15/1993	122267754	37815668	1 1S/4W 26G	0	0 OAK	Dec-92	27	25	13	2 MON
1S/4W	26G19	2633 Telegraph Ave.	Oakland	Sears Roebuck & Co. MW4		122267754	37815668	1 1S/4W 26G	0	0 OAK	Dec-92	27	23	13	2 MON
1S/4W	26G20	2633 Telegraph Ave.	Oakland	Sears Roebuck & Co. MW5	7/15/1993	122267754	37815668	1 1S/4W 26G	0	0 OAK	Dec-92	27	25	11	2 MON
1S/4W	26H		Oakland						0	0 OAK	9/92	-0	20	8	0 BOR
		294 27th St.		MR & RB Assoc.		122262216	37815029	1 1S/4W 26F	•						
1S/4W	26F 1	633 Sycamore St	Oakland	Gilbert Lopez (MW-1)	12/21/1993	122271088	37815824	1 1S/4W 26F	0	0 OAK	8/93	0	22	9	2 MON
1S/4W	26F 2		Oakland			122271088	37815824		0	0 OAK	8/93	0	22	9	2 MON
		633 Sycamore St		Gilbert Lopez (MW-2)				1 1S/4W 26F	-			-			
1S/4W	26F 3	633 Sycamore St	Oakland	Gilbert Lopez (MW-3)	12/21/1993	122271088	37815824	1 1S/4W 26F	0	0 OAK	8/93	0	23	11	2 MON
1S/4W	26H15	2630 Broadway	Oakland	Chevron Oil B-9 (MW-9)		122263922	37815367	1 1S/4W 26F	Ö	0 OAK	7/94	ő	20	0	2 MON
									-						
1S/4W	26H16	2630 Broadway	Oakland	Chevron Oil B-10 (MW-10)	12/29/1994	122263922	37815367	1 1S/4W 26F	0	0 OAK	7/94	0	20	18	2 MON
1S/4W	26H17		Oakland	Chevron Oil B-11 (MW-11)	12/29/1994		37815367	1 1S/4W 26F	Ö	0 OAK	7/94	0	20	18	2 MON
		2630 Broadway							-			-			
1S/4W	26H18	2630 Broadway	Oakland	Chevron Oil B-12 (MW-12)	12/29/1994	122263922	37815367	1 1S/4W 26F	0	0 OAK	7/94	0	20	17	2 MON
	26G21								-			0			2 MON
1S/4W		477 25th St.	Oakland	United Glass MW-1	12/29/1994		37814637	1 1S/4W 26C	0	0 OAK	1/94	-	20	9	
1S/4W	26P15	1700 Jefferson St	Oakland	Blue Print Services	7/18/1997	122272753	37808224	1 1S/4W 26F	0	0 OAK	4/96	0	36	26	2 TES
1S/4W	26G22	2633 Telegraph Av	Oakland	Sears	7/22/1997		37815695	1 1S/4W 26C	0	0 OAK	Dec-93	25	22	14	2 MON
1S/4W	26G23	2633 Telegraph Av	Oakland	Sears	7/22/1997	122267719	37815695	1 1S/4W 26C	0	0 OAK	Dec-93	25	22	14	2 MON
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1S/4W	26G24	2633 Telegraph Av	Oakland	Sears	7/22/1997 122	2267719	37815695	1 1S/4W 26G	0	0 OAK	Dec-93	26	22	14	2 MON
1S/4W	26K 1	2250 Telegraph Av	Oakland		7/24/1997 122		37812378	1 1S/4W 26K	0	0 OAK	3/94	0	19	11	2 MON
1S/4W	26K 2	2250 Telegraph Av	Oakland			2268257	37812378	1 1S/4W 26K	ō	0 OAK	3/94	ō	19	9	2 MON
1S/4W	26K 3	2250 Telegraph Av	Oakland			2268257	37812378	1 1S/4W 26K	0	0 OAK	3/94	ō	19	10	2 MON
1S/4W	26K 4	2250 Telegraph Av	Oakland		7/24/1997 122		37812378	1 1S/4W 26K	0	0 OAK	3/94	ō	19	10	2 MON
1S/4W	26H19	434 25th St	Oakland	Andre Mercier	7/24/1997 122		37814668	1 1S/4W 26F	0	0 OAK	8/94	101	15	14	2 MON
1S/4W	26H20	434 25th St	Oakland	Andre Mercier		2265722	37814668	1 1S/4W 26F	0	0 OAK	8/94	101	15	15	2 MON
1S/4W	26H21	434 25th St	Oakland	Andre Mercier		2265722	37814668	1 1S/4W 26F	0	0 OAK	8/94	101	15	14	2 MON
1S/4W	26Q11	1911 Telegraph Av	Oakland	Carter Hawley Hale		2269321	37809130	1 1S/4W 26C	0	0 OAK	6/93	24	25	15	4 MON
1S/4W	26Q12	1911 Telegraph Av	Oakland	Carter Hawley Hale	8/13/1997 122		37809130	1 1S/4W 26C	0	0 OAK	6/93	26	30	19	4 MON
1S/4W	26Q13	1911 Telegraph Av	Oakland	Carter Hawley Hale		2269321	37809130	1 1S/4W 26C	0	0 OAK	6/93	23	24	15	4 MON
1S/4W	26Q14	2025 Telegraph Av	Oakland	Goodyear Tire & Rubber Co		2269015	37810451	1 1S/4W 26C	0	0 OAK	5/93	0	24	15	4 MON
1S/4W	26Q15	2025 Telegraph Av	Oakland	Goodyear Tire & Rubber Co		2269015	37810451	1 1S/4W 26C	ō	0 OAK	5/93	ō	21	15	4 MON
1S/4W	26Q16	2025 Telegraph Av	Oakland	Goodyear Tire & Rubber Co	9/11/1997 122	2269015	37810451	1 1S/4W 26C	0	0 OAK	5/93	0	21	15	4 MON
1S/4W	26J11	2330 Webster St	Oakland	Labor Temple	9/17/1997 122		37812846	1 1S/4W 26J	ō	0 OAK	Dec-95	ō	30	21	2 MON
1S/4W	26J12	2330 Webster St	Oakland	Labor Temple	9/17/1997 122	2264578	37812846	1 1S/4W 26J	0	0 OAK	1/96	0	31	7	2 MON
1S/4W	26J13	2330 Webster St	Oakland	Labor Temple		2264578	37812846	1 1S/4W 26J	0	0 OAK	1/96	ō	31	23	2 MON
1S/4W	26J14	2330 Webster St	Oakland	Labor Temple		2264578	37812846	1 1S/4W 26J	ō	0 OAK	1/96	ō	31	20	2 MON
1S/4W	26J15	2330 Webster St	Oakland	Labor Temple		2264578	37812846	1 1S/4W 26J	0	0 OAK	1/96	ō	31	22	2 MON
1S/4W	26J16	2330 Webster St	Oakland	Labor Temple		2264578	37812846	1 1S/4W 26J	ō	0 OAK	1/96	ō	31	20	2 MON
1S/4W	26J17	2330 Webster St	Oakland	Labor Temple		2264578	37812846	1 1S/4W 26J	0	0 OAK	1/96	0	31	20	2 MON
1S/4W	26G25	2633 Telegraph Av	Oakland	Sears Roebuck and Company	10/19/1997 122	2267731	37815671	1 1S/4W 26C	0	0 OAK	Oct-96	0	20	15	2 MON
1S/4W	26F 4	2703 Martin Luther King J	Oakland	Shell Oil Products Compan	11/3/1997 122	2271197	37817400	1 1S/4W 26F	0	0 OAK	7/96	0	13	11	2 EXT
1S/4W	26F 5	2703 Martin Luther King J	Oakland	Shell Oil Products Compan	11/3/1997 122	2271197	37817400	1 1S/4W 26F	0	0 OAK	7/96	0	13	8	2 EXT
1S/4W	26F 6	2703 Martin Luther King J	Oakland	Shell Oil Products Compan	11/3/1997 122	2271197	37817400	1 1S/4W 26F	0	0 OAK	7/96	0	21	11	2 MON
1S/4W	26F 7	2703 Martin Luther King J	Oakland	Shell Oil Products Compan	11/3/1997 122	2271197	37817400	1 1S/4W 26F	0	0 OAK	7/96	0	21	9	2 MON
1S/4W	26H22	2735 Broadway	Oakland	Ravizza Comm. Real Estate	11/3/1997 122	2263611	37816268	1 1S/4W 26F	0	0 OAK	Oct-93	0	38	27	4 MON
1S/4W	26H23	2735 Broadway	Oakland	Ravizza Comm. Real Estate	11/3/1997 122	2263611	37816268	1 1S/4W 26F	0	0 OAK	Oct-93	0	25	19	4 MON
1S/4W	26H24	2735 Broadway	Oakland	Ravizza Comm. Real Estate	11/3/1997 122	2263611	37816268	1 1S/4W 26F	0	0 OAK	Oct-93	0	30	20	4 MON
1S/4W	26H25	2735 Broadway	Oakland	Ravizza Comm. Real Estate	11/3/1997 122	2263611	37816268	1 1S/4W 26F	0	0 OAK	Oct-93	0	30	16	4 MON
1S/4W	26G26	554 27th St	Oakland	Joan Schoonbrood	2/24/1998 122	2268764	37816875	1 1S/4W 26G	0	0 OAK	6/95	0	20	10	2 MON
1S/4W	26G27	554 27th St	Oakland	Joan Schoonbrood	2/24/1998 122	2268764	37816875	1 1S/4W 26G	0	0 OAK	6/95	0	20	10	2 MON
1S/4W	26G28	554 27th St	Oakland	Joan Schoonbrood	2/24/1998 122	2268764	37816875	1 1S/4W 26G	0	0 OAK	6/95	0	20	10	2 MON
1S/4W	26H26	403 28th St	Oakland	Chrysler Realty Corporati	2/24/1998 122	2264962	37816675	1 1S/4W 26F	0	0 OAK	5/94	0	29	0	2 MON
1S/4W	26H27	403 28th St	Oakland	Chrysler Realty Corporati	2/24/1998 122	2264962	37816675	1 1S/4W 26F	0	0 OAK	5/94	0	29	0	2 MON
1S/4W	26H28	Valdez St && 26th St	Oakland	Broadway Motors Ford	3/29/1998 122	2263016	37814839	1 1S/4W 26F	0	0 OAK	5/97	0	15	10	2 MON
1S/4W	26H29	Valdez St && 26th St	Oakland	Broadway Motors Ford	3/29/1998 122	2263016	37814839	1 1S/4W 26F	0	0 OAK	5/97	0	15	10	2 MON
1S/4W	26H30	Valdez St && 26th St	Oakland	Broadway Motors Ford	3/29/1998 122	2263016	37814839	1 1S/4W 26F	0	0 OAK	5/97	0	15	0	2 MON
1S/4W	26G29	450 25th St	Oakland	Friction Materials, Inc	9/29/1998 122	2266062	37814745	1 1S/4W 26G	0	0 OAK	7/98	0	25	15	2 MON
1S/4W	26G30	450 25th St	Oakland	Friction Materials, Inc	9/29/1998 122	2266062	37814745	1 1S/4W 26G	0	0 OAK	7/98	0	25	14	2 MON
1S/4W	26G31	450 25th St	Oakland	Friction Materials, Inc	9/29/1998 122	2266062	37814745	1 1S/4W 26G	0	0 OAK	7/98	0	25	15	2 MON

County where the well is located.

Assessor's Parcel Number or APN Book, Page and Parcel numbers. While this information is useful, it is not an adequate substitute for Township and Range or a location determined by GPS.

Township, Range and Section. This information is available from U.S. Geological

Survey topographic maps, which can be purchased from dealers throughout California. Check the USGS Web site at mapping.usgs.gov/esic/map_dealers/ca.html for a list of dealers.

DWR, USGS and other agencies use a system for numbering wells which is an extension of the system for the Public Lands Survey. Each well is assigned a unique

Township, Range and Section

Much of California is divided according to a rectangular coordinate system called the United States System of Surveying the Public Lands, or more commonly, the Public Lands Survey. Through a system of land subdivision based on east-west and north-south lines, land in California is divided into squares called townships, ranges and sections.

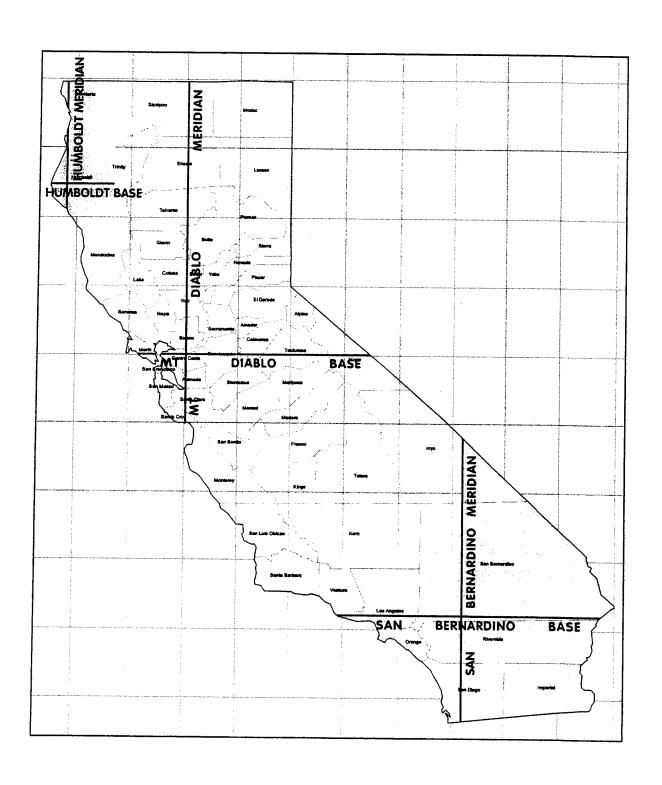
Under the Public Lands Survey, all tracts of land are related to one of three "points" in California (see map on page 21). These points are the intersection of an eastwest "baseline" and a north-south "meridian." The three baselines and meridians in California are Humboldt Base and Meridian (Humboldt County), Mt. Diablo Base and Meridian (Contra Costa County) and San Bernardino Base and Meridian (San Bernardino County).

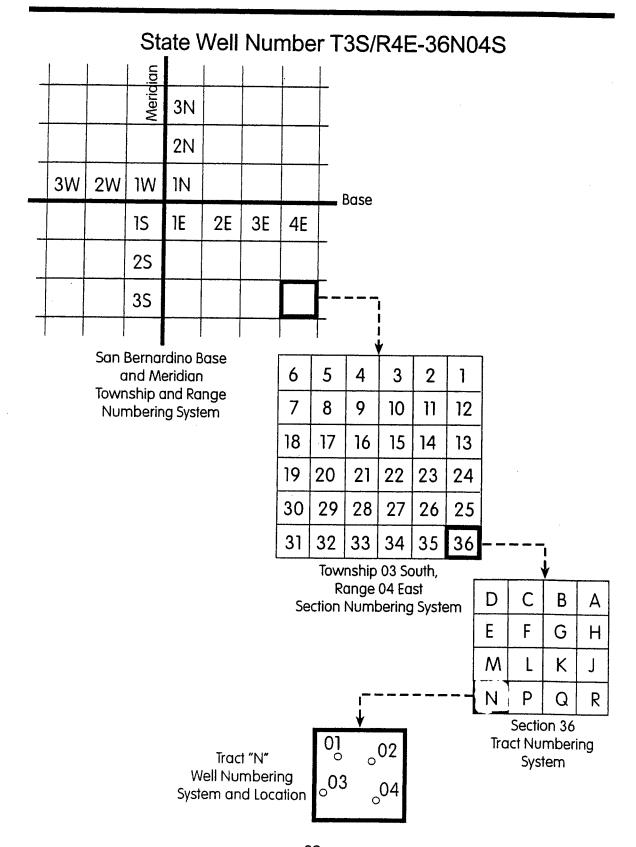
The Public Lands Survey divides the land into "townships." A township is a square parcel of land that is six miles on each side. Its location is established as being so many six-mile units called a Township, north or south of its baseline, and so many six-mile units called a Range, east or west of its meridian.

Each township is further divided into 36 parts called "sections." Each section contains 640 acres or one square mile. Because of the Earth's curvature, not all townships are square, not all townships contain 36 sections and not all sections contain 640 acres.

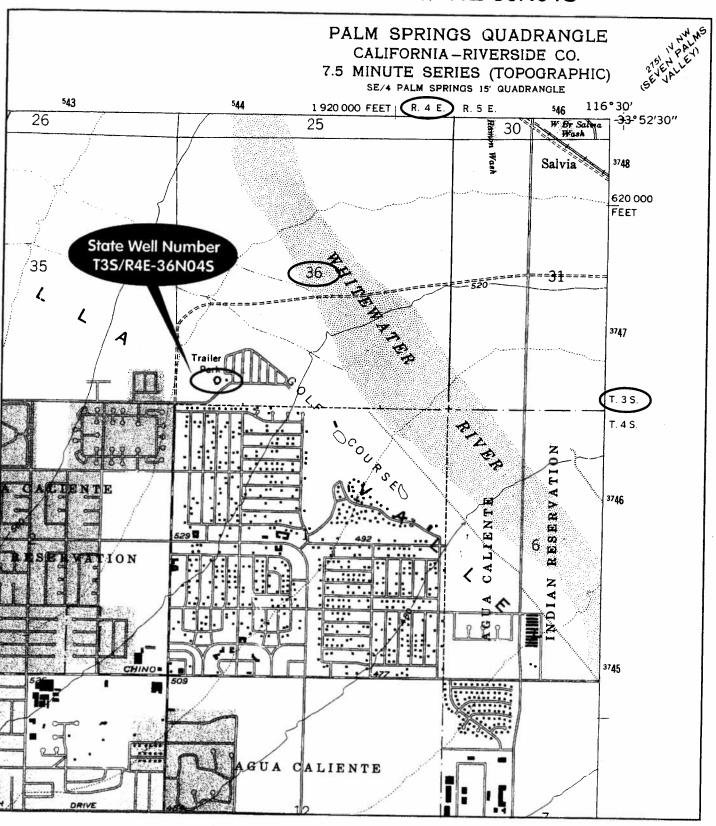
Since Spanish land grants predate the Public Lands Survey, they are not subdivided by the Public Lands Survey. Similarly, reclaimed lands were not included in the Public Lands Survey. However, DWR, in cooperation with the State Water Resources Control Board and the U.S. Geological Survey, has drawn section lines on 7-1/2 -minute topographic maps showing land grant boundaries.

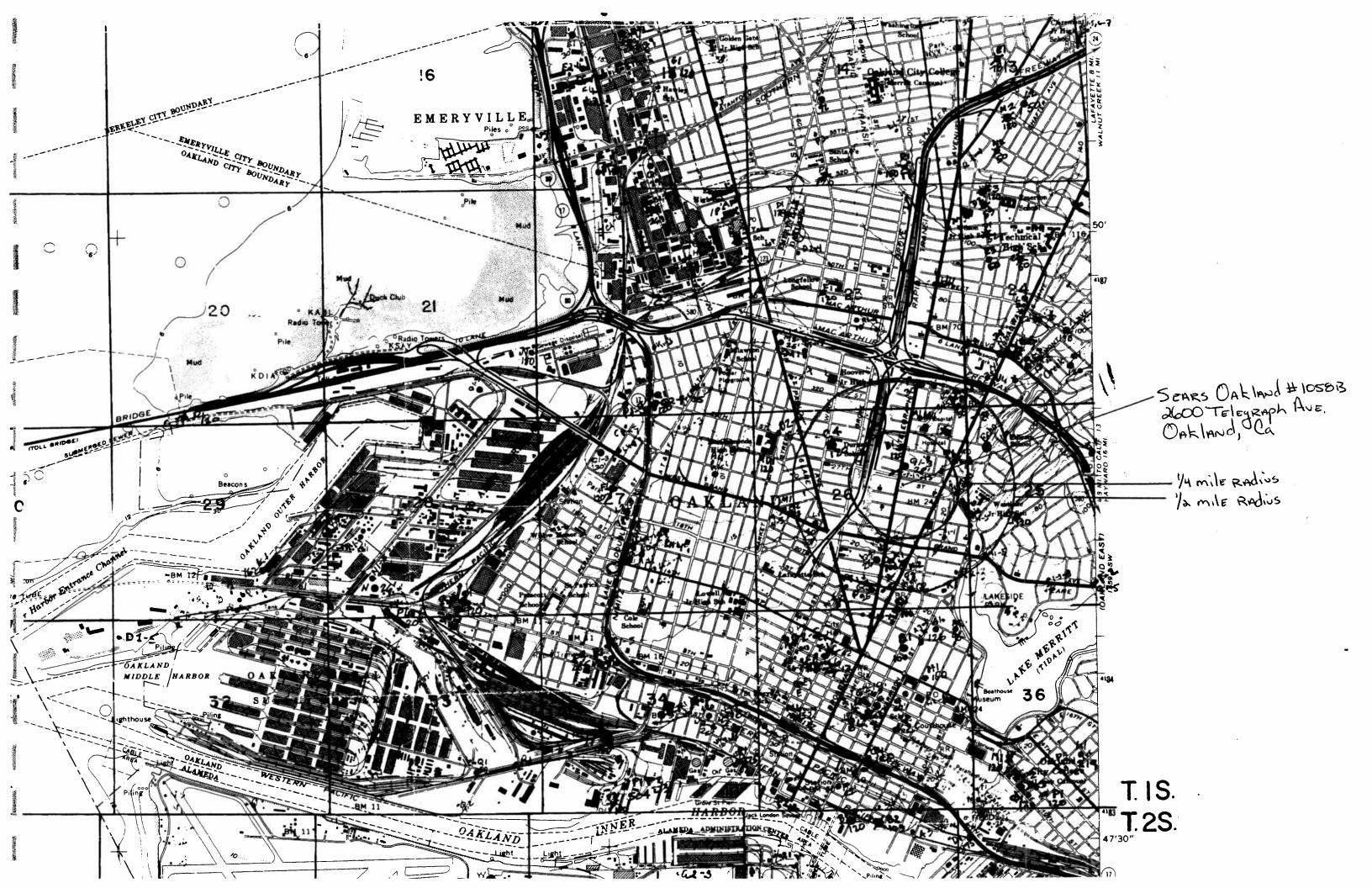
The 3 Baselines and Meridians in California





Section of USGS Quadrangle Map for State Well Number T3S/R4E-36N04S





APPENDIX L OAKLAND ULR ELIGIBILITY CHECKLIST

Oakland RBCA Eligibility Checklist

The Oakland Tier 1 RBSLs and Tier 2 SSTLs are intended to address human health concerns at the majority of sites in Oakland where commonly-found contaminants are present. Complicated sites—especially those with continuing releases, ecological concerns or unusual subsurface conditions—will likely require a Tier 3 analysis. The following checklist is designed to assist you in determining your site's eligibility for the Oakland RBCA levels.

	CRITERIA	YES	NO
1.	Is there a continuing, <i>primary</i> source of a chemical of concern, such as a		
	leaking container, tank or pipe? (This does <i>not</i> include residual sources.)		\boxtimes
	Is there any mobile or potentially-mobile free product?		\bowtie
3.	Are there more than five chemicals of concern at the site at a concentration		
	greater than the lowest applicable Oakland RBCA level?		\bowtie
4.	Are there any preferential vapor migration pathways—such as gravel channels		
	or utility corridors—that are potential conduits for the migration, on-site or		
	off-site, of a volatilized chemical of concern?		\bowtie
5.	Do both of the following conditions exist?		
	(a) Groundwater is at depths less than 300 cm (10 feet)		
	(b) Inhalation of volatilized chemicals of concern from groundwater in indoor		
	or outdoor air is a pathway of concern but groundwater ingestion is <i>not</i> *		\bowtie
6.	Are there any existing on-site or off-site structures intended for future use		
	where exposure to indoor air vapors from either soil or groundwater is of		
	concern <i>and</i> one of the following three conditions is present?		
	(a) A slab-on-grade foundation that is less than 15 cm (6 inches) thick		
	(b) An enclosed, below-grade space (e.g., a basement) that has floors or walls		
	less than 15 cm (6 inches) thick		
	(c) A crawl space that is not ventilated		\bowtie
7.	,		
	contamination at the site, including explosive levels of a chemical?		\bowtie
8.			
	such as endangered species, wildlife refuge areas, wetlands, surface water	_	
	bodies or other protected areas?		\boxtimes

*If groundwater ingestion *is* a pathway of concern, the associated Oakland RBCA levels will be more stringent than those for any groundwater-related inhalation scenario, rendering depth to groundwater irrelevant in the risk analysis.

If you answer "no" to all questions, your site is eligible for the Oakland RBCA levels. If you answer "yes" to any of the questions, your site is *not* eligible for the Oakland RBCA levels at this time.

APPENDIX M OAKLAND ULR TIER 2 SSTLs

Table 6. Oakland Tier 2 SSTLs for Merritt Sands

Medium	Exposure Pathway	Land Use	Type of Risk	Acenaph- thene	Acenaph- thylene	Acetone	Anthracene	Arsenic	Barlum	Benz(a)- anthracene	Benzene
	Ingestion/	Residential	Carcinogenic		E V. G. SEL SEA SA			3.8E+00	Personal Property and the second	3.7E+00	3.7E+01
Surficial Soil	Dermal/		Hazard	3.9E+03	3.9E+03	5.8E+03	1.9E+04	2.2E+01	5.3E+03		9.9E+01
[mg/kg]	Inhalation	Commercial/	Carcinogenic					2.4E+01		1.6E+01	1.5E+02
		Industrial	Hazard	4.0E+04	4.0E+04	5.4E+04	2.0E+05	3.8E+02	1.2E+05		9.2E+02
	Inhalation of	Residential	Carcinogenic							SAT	7.0E-01
	Indoor Air		Hazard	SAT	SAT	1.8E+03	SAT				2.3E+00
	Vapors	Commercial/	Carcinogenic							SAT	1.1E+01
		Industrial	Hazard	SAT	SAT	5.3E+04	SAT				6.7E+01
	Inhalation of	Residential	Carcinogenic							SAT	3.9E+00
Subsurface Soil [mg/kg]	Outdoor Air		Hazard	SAT	SAT	1.2E+04	SAT				1.6E+01
[mg/kg]	Vapors	Commercial/	Carcinogenic							SAT	1.5E+01
		Industrial	Hazard	SAT	SAT	7.0E+04	SAT				9.1E+01
	Ingestion of	Residential	Carcinogenic					2.1E+01	6.0E+02	3.2E+01	1.0E-02
	Groundwater Impacted by		Hazard	SAT	SAT	2.1E+00	SAT	2.1E+01	6.0E+02		1.0E-02
	Leachate		Carcinogenic		···			2.1E+01	6.0E+02	SAT	1.0E-02
		industrial	Hazard	SAT	SAT	1.4E+01	SAT	2.1E+01	6.0E+02		1.0E-02
	Inhalation of	Residential	Carcinogenic							>SOL	1.4E+00
	Indoor Air		Hazard	>SOL	>SOL	2.0E+04	>SOL				4.7E+00
	Vapors	Commercial/ Industrial	Carcinogenic							>SOL	2.2E+01
		industrial	Hazard	>SOL	>SOL	5.9E+05	>SOL				1.4E+02
	Inhalation of	Residential	Carcinogenic							>SOL	1.8E+02
Groundwater [mg/l]	Outdoor Air		Hazard	>SOL	>SOL	4.2E+05	>SOL				7.2E+02
	Vapors	Commercial/ Industrial	Carcinogenic							>SOL	6.9E+02
i		industrial	Hazard	>SOL	>SOL	>SOL	>SOL				>SOL
	THE CONTRACTOR OF	Residential	Carcinogenic					5.0E-02	1.0E+00	5.6E-04	1.0E-03
	Ingestion of Groundwater		Hazard	9.4E-01	9.4E-01	1.6E+00	>SOL	5.0E-02	1.0E+00		1.0E-03
J		Commercial/ Industrial	Carcinogenic					5.0E-02	1.0E+00	2.4E-03	1.0E-03
Water Head for		inuaulai	Hazard	>SOL	>SOL	1.0E+01	>SOL	5.0E-02	1.0E+00		1.0E-03
Water Used for Recreation [mg/l]	Ingestion/ Dermal	Residential	Carcinogenic					2.0E-02		1.6E-04	6.3E-02
talicized concentrations b	The section of the se		Hazard	1.1E+00	1.7E+00	4.2E+01	>SOL	1.2E-01	2.8E+01		1.8E-01

65

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 6. Oakland Tier 2 SSTLs for Merritt Sands

Medium	Exposure Pathway	Land Use	Type of Risk	Benzo(a)- pyrene	Benzo(b)- fluoranthene	Benzo(g,h,i)- perylene	Benzo(k)- fluoranthene	Beryllium	Bis (2- ethylhexyl) phthalate	Butyl benzy phthalate
	Innesties/	Residential	Carcinogenic	3.7E-01	3.7E+00		3.7E+00	4.5E+04	5.3E+02	100.00.3 (100.00.5
Surficial Soil	Ingestion/ Dermal/		Hazard			2.6E+02		3.8E+02	1.3E+03	1.3E+04
[mg/kg]	Inhalation	Commercial/	Carcinogenic	1.6E+00	1.6E+01		1.6E+01	1.7E+05	2.3E+03	
		Industrial	Hazard			2.7E+03		8.5E+03	1.4E+04	1.4E+05
		Residential	Carcinogenic	SAT	SAT		SAT		SAT	
10.	Inhalation of Indoor Air		Hazard			SAT			SAT	
	Vapors	Commercial/	Carcinogenic	SAT	SAT		SAT		SAT	
		Industrial	Hazard			SAT			SAT	
	granustis is	Residential	Carcinogenic	SAT	SAT		SAT		SAT	
Subsurface Soil	Inhalation of Outdoor Air	reoldenda	Hazard			SAT			SAT	
[mg/kg]	Vapors	Commercial/	Carcinogenic	SAT	SAT		SAT		SAT	
		Industrial	Hazard			SAT			SAT	
	Ingestion of	Residential	Carcinogenic	SAT	SAT		SAT	4.6E+01	SAT	
	Groundwater	residental	Hazard	SAT		SAT		4.6E+01	SAT	SAT
	Impacted by Leachate	Commercial/	Carcinogenic	SAT	SAT		SAT	4.6E+01	SAT	9,
	a duditate	Industrial	Hazard	SAT		SAT		4.6E+01	SAT	SAT
		Residential	Carcinogenic	>SOL	>\$OL		>SOL		>SOL	
	Inhalation of Indoor Air	residential	Hazard		57	>SOL			>SOL	
	Vapors	Commercial/	Carcinogenic	>SOL	>SOL		>SOL		>SOL	
		Industrial	Hazard			>SOL			>SOL	
		Residential	Carcinogenic	>SOL	>SOL		>SOL		>SOL	
roundwater [mg/l]	Inhalation of Outdoor Air	residential	Hazard			>SOL		····	>SOL	
[9]	Vapors	Commercial/	Carcinogenic	>SOL	>SOL		>SOL		>SOL	
		Industrial	Hazard			>SOL			>SOL	<u> </u>
		Residential	Carcinogenic	2.0E-04	5.6E-04		5.6E-04	4.0E-03	8.0E-02	
	Ingestion of	, coluctinal	Hazard	2.0E-04		>SOL		4.0E-03	3.1E-01	>SOL
	Groundwater	Commercial/	Carcinogenic	2.0E-04	>SOL		>SOL	4.0E-03	>SOL	
		Industrial	Hazard	2.0E-04		>SOL		4.0E-03	>SOL	>SOL
Water Used for	Ingestion/	Residential	Carcinogenic	1.1E-05	1.1E-04		1.2E-04		>SOL	
Recreation [mg/l]	Dermal		Hazard			>SOL		2.0E+00	>SOL	>SOL

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 6. Oakland Tier 2 SSTLs for Merritt Sands

Medium	Exposure Pathway	Land Use	Type of Risk	Cadmlum	Carbon Disulfide	Carbon Tetrachloride	Chloro- benzene	Chloroform	Chromium (III)	Chromlum (VI)
		Residential	Carcinogenic	2.1E+04		2.5E+01		1.3E+02		1.4E+01
Surficial Soil	Ingestion/ Dermal/		Hazard	3.8E+01	1.3E+03	4.0E+01	9.2E+02	5.8E+02	7.7E+04	3.8E+02
[mg/kg]	Inhalation	Commercial/	Carcinogenic	7.9E+04		1.0E+02		5.3E+02		1.1E+02
		Industrial	Hazard	8.5E+02	7.0E+03	3.6E+02	7.2E+03	5.4E+03	1.7E+06	8.5E+03
=		Residential	Carcinogenic			2.7E-01		3.4E+00		-
	Inhalation of Indoor Air	rtesideritiai	Hazard		1.1E+00	4.5E-01	6.5E-01	1.3E+01		
	Vapors	Commercial/	Carcinogenic			4.3E+00		5.4E+01		
		Industrial	Hazard		3.3E+01	1.3E+01	1.9E+01	3.7E+02		
		Residential	Carcinogenic			1.5E+00		1.9E+01		
Subsurface Soil	Inhalation of Outdoor Air	residential	Hazard		7.6E+00	3.0E+00	4.4E+00	8.5E+01		
[mg/kg]	Vapors	Commercial/	Carcinogenic			5.8E+00		7.2E+01		
		Industrial	Hazard		4.4E+01	1.8E+01	2.5E+01	4.9E+02		
	Ingestion of	Residential	Carcinogenic	5.5E+00		1.4E-02	3.3E-01	7.3E-01		1.4E+01
	Groundwater Hazard 5.5E+00	1.4E+01	1.4E-02	3.3E-01	7.3E-01	4.1E+08	1.4E+01			
	Impacted by Leachate	Commercial/	Carcinogenic	5.5E+00		1.4E-02	3.3E-01	7.3E-01		1.4E+01
	Loudinato	Industrial	Hazard	5.5E+00	9.1E+01	1.4E-02	3.3E-01	7.3E-01	2.7E+09	1.4E+01
		Residential	Carcinogenic			2.7E-01		9.1E+00		
	Inhalation of Indoor Air	T (GOIGOTHIG)	Hazard		3.3E+00	4.5E-01	4.0E+00	3.4E+01		
	Vapors	Commercial/	Carcinogenic			4.3E+00		1.4E+02		
		Industrial	Hazard		9.5E+01	1.3E+01	1.2E+02	9.8E+02		
		Residential	Carcinogenic			5.6E+01		1.0E+03		
Froundwater [mg/l]	Inhalation of Outdoor Air	- Troolderman	Hazard		7.3E+02	1.1E+02	>SOL	4.5E+03		
19,	Vapors	Commercial/	Carcinogenic	19 21		2.1E+02		3.9E+03		
		Industrial	Hazard		>SOL	6.5E+02	>SOL	>SOL	-	
		Residential	Carcinogenic	5.0E-03		5.0E-04	7.0E-02	1.0E-01		5.0E-02
	Ingestion of		Hazard	5.0E-03	1.6E+00	5.0E-04	7.0E-02	1.0E-01	1.6E+01	5.0E-02
	Groundwater	Commercial/	Carcinogenic	5.0E-03		5.0E-04	7.0E-02	1.0E-01		5.0E-02
		Industrial	Hazard	5.0E-03	1.0E+01	5.0E-04	7.0E-02	1.0E-01	1.0E+02	5.0E-02
Water Used for	Ingestion/	Residential	Carcinogenic			4.1E-02		3.9E-01		6.8E-02
Recreation [mg/l]	Dermal		Hazard	2.0E-01	9.4E+00	7.1E-02	1.2E+00	1.9E+00	3.8E+02	1.9E+00

^{*}Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 6. Oakland Tier 2 SSTLs for Merritt Sands

Medium	Exposure Pathway	Land Use	Type of Risk	Chrysene	Copper	Cresol(-m)	Cresol(-o)	Cresol(-p)	Cyanide	Dibenz(a,h) anthracene
	Innestical	Residential	Carcinogenic	3.7E+01			ESCAPE TEMPORAL AS	ALLEGO STORY	PESEL METRIC PERSONAL	1.1E+00
Surficial Soil	Ingestion/ Dermal/		Hazard		2.8E+03	3.2E+03	3,2E+03	3.2E+02	3.1E+03	
[mg/kg]	Inhalation	Commercial/	Carcinogenic	1.6E+02						4.7E+00
		Industrial	Hazard		6.3E+04	3.3E+04	3.3E+04	3.3E+03	6.8E+04	
		Residential	Carcinogenic	SAT						SAT
	Inhalation of Indoor Air		Hazard			SAT	SAT	SAT		
	Vapors	Commercial/	Carcinogenic	SAT						SAT
		Industrial	Hazard			SAT	SAT	SAT		
		Residential	Carcinogenic	SAT						SAT
Subsurface Soil	Inhalation of Outdoor Air		Hazard			SAT	SAT	SAT		
[mg/kg]	Vapors	Commercial/	Carcinogenic	SAT						SAT
		Industrial	Hazard	z		SAT	SAT	SAT		
	Ingestion of	Residential	Carcinogenic	SAT	1.7E+00				2.9E+01	9.1E+01
	Groundwater		Hazard		1.7E+00	1.1E+01	1.1E+01	1.0E+00	2.9E+01	
l l	Impacted by Leachate	Commercial/	Carcínogenic	SAT	1.7E+00				2.9E+01	SAT
		Industrial	Hazard		1.7E+00	7.1E+01	7.4E+01	6.7E+00	2.9E+01	
	total e	Residential	Carcinogenic	>SOL	7.55					>SOL
	Inhalation of Indoor Air		Hazard			>SOL	>SOL	>SOL		
	Vapors	Commercial/	Carcinogenic	>SOL						>SOL
	0	Industrial	Hazard			>SOL	>SOL	>SOL		
	labalatian at	Residential	Carcinogenic	>SOL						>SOL
Groundwater [mg/l]	Inhalation of Outdoor Air		Hazard			>SOL	>SOL	>SOL		
	Vapors	Commercial/	Carcinogenic	>SOL						>SOL
		Industrial	Hazard			>SOL	>SOL	>SOL		
		Residential	Carcinogenic	>SOL	1.3E+00				2.0E-01	1.6E-04
	Ingestion of Groundwater		Hazard		1.3E+00	7.8E-01	7.8E-01	7.8E-02	2.0E-01	
	Groundwater	Commercial/	Carcinogenic	>SOL	1.3E+00				2.0E-01	7.0E-04
		Industrial	Hazard		1.3E+00	5.1E+00	5.1E+00	5.1E-01	2.0E-01	
Water Used for	Ingestion/ Dermal	Residential	Carcinogenic	>SOL						1.4E-05
Recreation [mg/l] alicized concentrations b			Hazard		1.5E+01	6.7E+00	6.4E+00	5.9E-01	7.0E+00	

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 6. Oakland Tier 2 SSTLs for Merritt Sands

Medium	Exposure Pathway	Land Use	Type of Risk	Dichloro- ethane (1,1-)	Dichloro- ethane (1,2-) (EDC)	Dichloro- ethylene (1,1-)	Dichloro- ethylene (cis 1,2-)	Dichloro- ethene (trans 1,2)	Dimethylbenza- (a)anthracene (7,12
_	Insections	Residential	Carcinogenic	6.6E+02	5.3E+01	7.0E+00	BACKETO STEELS	A STATE OF THE PARTY OF THE PARTY OF THE	
Surficial Soil	Ingestion/ Dermal/		Hazard	6.0E+03	1.7E+02	5.2E+02	5.8E+02	1.2E+03	2,0E+03
[mg/kg]	Inhalation	Commercial/	Carcinogenic	2.7E+03	2.2E+02	3.0E+01			
		Industrial	Hazard	5.8E+04	1.6E+03	4.9E+03	5.4E+03	1.1E+04	2.0E+04
	labalation of	Residential	Carcinogenic	8.8E+00	1.8E+00	9.2E-02			
	Inhalation of Indoor Air		Hazard	1.4E+02	7.2E+00	2.9E+00	1.5E+01	1,9E+01	
	Vapors	Commercial/	Carcinogenic	1.4E+02	2.9E+01	1.5E+00			
		Industrial	Hazard	SAT	2.1E+02	8.5E+01	4.3E+02	5.5E+02	
		Residential	Carcinogenic	5.0E+01	1.0E+01	5.2E-01			
Subsurface Soil	Inhalation of Outdoor Air		Hazard	9.3E+02	4.8E+01	2.0E+01	9.9E+01	1.3E+02	
[mg/kg]	Vapors	Commercial/	Carcinogenic	1.9E+02	3.9E+01	2.0E+00			
		Industrial	Hazard	SAT	2.8E+02	1.1E+02	5.7E+02	7.4E+02	
	Ingestion of	Residential	Carcinogenic	3.1E-02	1.9E-03	7.0E-02	4.0E-02	9.6E-02	
	Groundwater		Hazard	3.1E-02	1.9E-03	7.0E-02	4.0E-02	9.6E-02	SAT
	Impacted by Leachate	Commercial/	Carcinogenic	3.1E-02	1.9E-03	7.0E-02	4.0E-02	9.6E-02	
	11010-1107-1-2-2-2-2-2	Industrial	Hazard	3.1E-02	1.9E-03	7.0E-02	4.0E-02	9.6E-02	SAT
		Residential	Carcinogenic	2.8E+01	7.7E+00	2.2E-01			
	Inhalation of Indoor Air		Hazard	4.3E+02	3.1E+01	7.0E+00	4.0E+01	4.2E+01	
	Vapors	Commercial/	Carcinogenic	4.4E+02	1.2E+02	3.5E+00			
		Industrial	Hazard	>SOL	8.9E+02	2.0E+02	1.2E+03	1.2E+03	
	labatatian of	Residential	Carcinogenic	3.2E+03	4.1E+02	4.5E+01			······································
Groundwater [mg/l]	Inhalation of Outdoor Air		Hazard	>SOL	2.0E+03	1.7E+03	>SOL	>SOL	
	Vapors	Commercial/	Carcinogenic	>SOL	1.6E+03	1.7E+02			
		Industrial	Hazard	>SOL	>SOL	>SOL	>SOL	>SOL	
	Residential	Carcinogenic	5.0E-03	5.0E-04	6.0E-03	6.0E-03	1.0E-02		
	Ingestion of Groundwater		Hazard	5.0E-03	5.0E-04	6.0E-03	6.0E-03	1.0E-02	>SOL
	Groundwater	Commercial/	Carcinogenic	5.0E-03	5.0E-04	6.0E-03	6.0E-03	1.0E-02	
W-411		Industrial	Hazard	5.0E-03	5.0E-04	6.0E-03	6.0E-03	1.0E-02	>SOL
Water Used for	Ingestion/ Dermal	Residential	Carcinogenic	2.1E+00	2.4E-01	1.3E-02			
Recreation [mg/l] talicized concentrations b			Hazard	1.9E+01	7.2E-01	1.2E+00	1.8E+00	3.5E+00	>SOL

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SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 6. Oakland Tier 2 SSTLs for Merritt Sands

Medium	Exposure Pathway	Land Use	Type of Risk	Dimethyl- phenol (2,4)	di-n-Butyl- phthalate	di-n-octyl phthalate	Dinitro- toluene (2,4)	Dioxane (1,4)	Ethyl- benzene	Ethylene Dibromide	Flouran thene
	Ingestion/	Residential	Carcinogenic				1.4E+01	1.4E+02	David Holds Colon	1.2E+00	副性证明
Surficial Soil	Dermal/		Hazard	1.3E+03	6.5E+03	1.3E+03			6.3E+03	3.3E+00	2.6E+03
[mg/kg]	Inhalation	Commercial/ Industrial	Carcinogenic Hazard	4.25.04	0.00		6.0E+01	5.6E+02		5.2E+00	2.02.00
				1.3E+04	6.8E+04	1.4E+04			6.3E+04	3.1E+01	2.7E+04
	Inhalation of	Residential	Carcinogenic				SAT	SAT		2.9E+00	
	Indoor Air		Hazard	SAT	SAT	SAT			SAT	8.1E-01	SAT
	Vapors	Commercial/ Industrial	Carcinogenic				SAT	SAT		4.6E+01	
			Hazard	SAT	SAT	SAT			SAT	2.4E+01	SAT
Subsurface Soil	Inhalation of	Residential	Carcinogenic				SAT	SAT		1.6E+01	
[mg/kg]	Outdoor Air		Hazard	SAT	SAT	SAT			SAT	5.4E+00	SAT
[2, v2]	Vapors	Commercial/	Carcinogenic				SAT	SAT		6.2E+01	
		Industrial	Hazard	SAT	SAT	SAT			SAT	3.2E+01	SAT
	Ingestion of	Residential	Carcinogenic				3.3E-02	SAT	3.8E+01	3.8E-04	
	Groundwater		Hazard	9.9E+00	SAT	SAT			3.8E+01	3.8E-04	SAT
	Impacted by Leachate	Commercial/	Carcinogenic				1.4E-01	SAT	3.8E+01	3.8E-04	341
		Industrial	Hazard	6.5E+01	SAT	SAT			3.8E+01	3.8E-04	SAT
		Residential	Carcinogenic				>SOL	>SOL	0.02.107		SAT
	Inhalation of Indoor Air	Residential	Hazard	>SOL	>SOL	>SOL	7002	>30L	> 001	5.9E+00	
	Vapors	Commercial/	Carcinogenic			TOOL	>SOL	>501	>SOL	1.6E+00	>SOL
		Industrial	Hazard	>SOL	>SOL	>SOL	730L	>SOL		9.3E+01	
			Carcinogenic	- 302	7000				>SOL	4.8E+01	>SOL
Groundwater [mg/l]	Inhalation of	Residential	Hazard	>SOL	>SOL		>SOL	>SOL		1.8E+02	
oroundwater [mg/i]	Outdoor Air Vapors	Commercial/	Carcinogenic	- 302	730L	>SOL			>SOL	6.0E+01	>SOL
	,	Industrial	Hazard	>SOL	. 001		>SOL	>SOL		6.9E+02	
				7301	>SOL	_>SOL			>SOL	3.5E+02	>SOL
	Ingestion of	Residential	Carcinogenic Hazard	245.04			2.2E-03	>SOL	7.0E-01	5.0E-05	
	Groundwater	Commercial/		3.1E-01	1.6E+00	>SOL			7.0E-01	5.0E-05	>SOL
		Industrial	Carcinogenic	0.05			9.2E-03	>SOL	7.0E-01	5.0E-05	
Water Used for	Ingestion/		Hazard	2.0E+00	1.0E+01	>SOL			7.0E-01	5.0E-05	>SOL
Recreation [mg/l]	Dermal	Residential	Carcinogenic				6.4E-02	>SOL		5.9E-03	
talicized concentrations b			Hazard	2.7E+00	7.3E+00	2.1E-03			3.6E+00	1.7E-02	>SOL

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 6. Oakland Tier 2 SSTLs for Merritt Sands

Medium	Exposure Pathway	Land Use	Type of Risk	Fluorene	Indeno- (1,2,3-CD)- pyrene	Mercury	Methanol	Methyl ethyl ketone	Methylene Chloride	Methyl- napthalene (2-)	MTBE
	Ingestion/	Residential	Carcinogenic		3.7E+00		A CONTRACTOR OF THE PARTY OF TH		3.0E+02	TANK THE PARTY OF	The Service
Surficial Soil	Dermai/		Hazard	2.6E+03		5.8E+00	2.9E+04	3.1E+04	3.9E+03	2.5E+03	3.3E+02
[mg/kg]	Inhalation	Commercial/	Carcinogenic	Δ	1.6E+01				1.3E+03		
		Industrial	Hazard	2.7E+04		5.5E+01	2.7E+05	2.7E+05	4.0E+04	2.6E+04	3.4E+03
		Residential	Carcinogenic		SAT				1.3E+01		
	Inhalation of Indoor Air		Hazard	SAT		1.2E+01	5.6E+04	7.9E+03	8.0E+02	SAT	4.8E+03
	Vapors	Commercial/	Carcinogenic		SAT				2.1E+02		
		Industrial	Hazard	SAT			SAT	SAT	SAT	SAT	SAT
		Residential	Carcinogenic		SAT				7.6E+01		U OAT
Subsurface Soil	Inhalation of Outdoor Air	- Toolderillar	Hazard	SAT		8.2E+01	SAT	SAT	SAT	SAT	SAT
[mg/kg]	Vapors	Commercial/	Carcinogenic		SAT				2.9E+02		<u> </u>
		Industrial	Hazard	SAT		4.7E+02	SAT	SAT	SAT	SAT	SAT
		Residential	Carcinogenic		SAT	1.5E+00			1.6E-02	GAT	4.0E-02
	Ingestion of Groundwater	Residential	Hazard	SAT	V-W12	1.5E+00	9.9E+00	1.8E+01	1.6E-02	7.75±02	4.0E-02
	Impacted by Leachate	Commercial/	Carcinogenic		SAT	1.5E+00		1.02.07	1.6E-02	7.72+02	4.0E-02
	Leadinate	Industrial	Hazard	SAT		1.5E+00	6.5E+01	1.2E+02	1.6E-02	2.5E+03	4.0E-02
		Residential	Carcinogenic		>SOL				7.6E+01	OA.	4.02-02
	Inhalation of Indoor Air	residential	Hazard	>SOL		3.4E-01	6.6E+05	6.2E+04	4.5E+03	>901	2.5E+04
	Vapors	Commercial/	Carcinogenic		>SOL			0.22.04	1.2E+03		2.5E+04
		Industrial	Hazard	>SOL		9.8E+00	>SOL	>SOL	>SOL	>801	>SOL
		Residential	Carcinogenic		>SOL				5.8E+03		>30L
Groundwater [mg/l]	Inhalation of Outdoor Air	residential	Hazard	>SOL		5.4E+01	>SOL	>SOL	>SOL	>501	>SOL
[g.,	Vapors	Commercial/	Carcinogenic		>SOL				>SOL	>30L	73UL
		Industrial	Hazard	>SOL		3.1E+02	>SOL	>SOL	>SOL	>501	>SOL
		Residential	Carcinogenic		>SOL	2.0E-03			5.0E-03	- 301	1.3E-02
	Ingestion of	r residential	Hazard	6.3E-01		2.0E-03	7.8E+00	9.4E+00	5.0E-03	6.3E-01	1.3E-02 1.3E-02
	Groundwater	Commercial/	Carcinogenic		>SOL	2.0E-03		= 1,12.00	5.0E-03	J.JL-01	1.3E-02
		Industrial	Hazard	>SOL		2.0E-03	5,1E+01	6.1E+01	5.0E-03	4 1F+00	1.3E-02
Water Used for	Ingestion/	Residential	Carcinogenic		>SOL				1.3E+00	-7. TE 7 00	1.3E-02
Recreation [mg/l] talicized concentrations b	Dermal	(304)200000000000000000000000000000000000	Hazard	3.1E-01		3.6E-02	2.2E+02	1.5E+02	1.6E+01	615.01	1.5E+00

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 6. Oakland Tier 2 SSTLs for Merritt Sands

Medium	Exposure Pathway	Land Use	Type of Risk	Naphthalene	Nickel	Nitro- benzene	PCBs	Phenan- threne	Phenol	Pyrene	Pyridine	Selenium
	Ingestion	Residential	Carcinogenic		3.4E+05	7.8E+03	6.5E-01	AL TON PACKS W.	CHES THE VESTIONS	H-19 H-19 H-19 A	4.1E+03	Transmitter of
Surficial Soil	Ingestion/ Dermal/		Hazard	2.5E+03	1.5E+03		1.4E+00	1.9E+04	3.8E+04	2.0E+03		3.8E+02
[mg/kg]	Inhalation	Commercial/	Carcinogenic		1.3E+06	3.3E+04	3.3E+00				1.7E+04	
		Industrial	Hazard	2.5E+04	3.4E+04		1.8E+01	2.0E+05	3.9E+05	2.0E+04		8.5E+03
	tabalation of	Residential	Carcinogenic			SAT	6.9E+02				3.0E+04	
	Inhalation of Indoor Air		Hazard	SAT			SAT	SAT	SAT	SAT		
	Vapors	Commercial/	Carcinogenic			SAT	SAT				4.8E+05	
		Industrial	Hazard	SAT			SAT	SAT	SAT	SAT		
	Inhalation of	Residential	Carcinogenic			SAT	SAT				1.6E+05	
Subsurface Soil	Inhalation of Outdoor Air		Hazard	SAT			SAT	SAT	SAT	SAT	,	
[mg/kg]	Vapors	Commercial/	Carcinogenic			SAT	SAT				6.1E+05	
		Industrial	Hazard	SAT			SAT	SAT	SAT	SAT		
	Ingestion of	Residential	Carcinogenic	5.8E+00	9.5E+01	1.4E+01	2.2E+01				6.1E+00	3.7E+00
	Groundwater		Hazard	5.8E+00	9.5E+01		2.2E+01	SAT	5.1E+01	SAT	5112 00	3.7E+00
	Impacted by Leachate	Commercial/	Carcinogenic	5.8E+00	9.5E+01	6.1E+01	2.2E+01				2.6E+01	3.7E+00
		Industrial	Hazard	5.8E+00	9.5E+01		2.2E+01	SAT	3.3E+02	SAT		3.7E+00
		Residential	Carcinogenic			>SOL	2.4E-01				4.9E+04	
	Inhalation of Indoor Air	7.00,00,111.di	Hazard	>SOL			>SOL	>SOL	>SOL	>SOL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Vapors	Commercial/	Carcinogenic			>SOL	>SOL				7.8E+05	
	·	Industrial	Hazard	>SOL			>SOL	>SOL	>SOL	>SOL	7,02.00	
		Residential	Carcinogenic			>SOL	>SOL				7.7E+05	
Froundwater [mg/i]	Inhalation of Outdoor Air	. toologina.	Hazard	>SOL			>SOL	>SOL	>SOL	>SOL		
	Vapors	Commerciat/	Carcinogenic			>SOL	>SOL				>SOL	
		Industrial	Hazard	>SOL			>SOL	>SOL	>SOL	>SOL		
		Residential	Carcinogenic	2.0E-02	1.0E-01	1.3E+00	5.0E-04	<u></u>			6.7E-01	5.0E-02
	Ingestion of		Hazard	2.0E-02	1.0E-01		5.0E-04	>SOL	9.4E+00	>SOL		5.0E-02
	Groundwater	Commercial/	Carcinogenic	2.0E-02	1.0E-01	5.7E+00	5.0E-04				2.9E+00	5.0E-02
		Industrial	Hazard	2.0E-02	1.0E-01		5.0E-04	>SOL	6.1E+01	>SOL		5.0E-02
Water Used for	Ingestion/	Residential	Carcinogenic			2.8E+01	1.6E-05				2.6E+01	3.02.02
Recreation [mg/i]	Dermal	. reorder mai	Hazard	1.5E+00	7.9E+00		4.4E-05	>SOL	1.5E+02	>SOL	2.02.01	2.0E+00

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 6. Oakland Tier 2 SSTLs for Merritt Sands

Medium	Exposure Pathway	Land Use	Type of Risk	Silver	Stryene	Tetrachloro- ethane (1,1,2,2 -)	Tetrachloro- ethylene (PCE)	Tetraethyl Lead	Toluene	Trichloro- ethane (1,1,1-)	Trichloro- ethane (1,1,2-)
		Residential	Carcinogenic			1.4E+01	8.1E+01				5.2E+01
Surficial Soil	Ingestion/ Dermal/		Hazard	3.8E+02	1.2E+04	1.5E+03	5.8E+02	6.5E-03	1.1E+04	2.2E+03	2.3E+02
[mg/kg]	Inhalation	Commercial/	Carcinogenic			5.6E+01	3.4E+02				2.1E+02
		Industrial	Hazard	8.5E+03	1.2E+05	1.4E+04	5.4E+03	6.8E-02	9.4E+04	2.3E+04	2.2E+03
		Residential	Carcinogenic			7.5E+00	3.0E+00				5.6E+00
	Inhalation of Indoor Air		Hazard		SAT	1.0E+03	1.2E+01		3.7E+02	2.6E+02	3.2E+01
	Vapors	Commercial/	Carcinogenic	****		1,2E+02	4.8E+01				9.0E+01
		Industrial	Hazard		SAT	SAT	SAT		SAT	SAT	9.2E+02
		Residential	Carcinogenic			4.3E+01	1.7E+01				3.2E+01
Subsurface Soil	Inhalation of Outdoor Air		Hazard		SAT	SAT	8.3E+01		SAT	SAT	2.1E+02
[mg/kg]	Vapors	Commercial/	Carcinogenic			1.6E+02	6.5E+01				1.2E+02
		Industrial	Hazard		SAT	SAT	SAT		SAT	SAT	1.2E+03
	Ingestion of	Residential	Carcinogenic	1.2E+01	1.1E+01	1.5E-02	1.3E-01	SAT	4.2E+00	3.7E+00	4.3E-02
	Groundwater	reordental	Hazard	1.2E+01	1.1E+01	1.5E-02	1.3E-01	SAT	4.2E+00	3.7E+00	4.3E-02
	Impacted by Leachate	Commercial/	Carcinogenic	1.2E+01	1.1E+01	1.5E-02	1.3E-01	SAT	4.2E+00	3.7E+00	4.3E-02
		Industrial	Hazard	1.2E+01	1.1E+01	1.5E-02	1.3E-01	SAT	4.2E+00	3.7E+00	4.3E-02
		Residential	Carcinogenic			7.8E+00	3.1E+00				1.1E+01
	Inhalation of Indoor Air	reordorniar	Hazard		>SOL	1.1E+03	1.3E+01		2.8E+02	3.7E+02	5.9E+01
	Vapors	Commercial/	Carcinogenic			1.2E+02	5.0E+01				1.7E+02
		Industrial	Hazard		>SOL	>SOL	>SOL		>SOL	>SOL	1.7E+03
		Residential	Carcinogenic			2.2E+02	>SOL				4.9E+02
Groundwater [mg/l]	Inhalation of Outdoor Air	- Nooidonida	Hazard		>SOL	>SOL	>SOL		>SOL	>SOL	3.3E+03
, , ,	Vapors	Commercial/	Carcinogenic			8.5E+02	>SOL				1.9E+03
		Industrial	Hazard		>SOL	>SOL	>SOL		>SOL	>SOL	>SOL
		Residential	Carcinogenic	1.0E-01	1.0E-01	1.0E-03	5.0E-03	1.5E-02	1.5E-01	2.0E-01	5.0E-03
	Ingestion of		Hazard	1.0E-01	1.0E-01	1.0E-03	5.0E-03	1.5E-02	1.5E-01	2.0E-01	5.0E-03
	Groundwater	Commercial/	Carcinogenic	1.0E-01	1.0E-01	1.0E-03	5.0E-03	1.5E-02	1.5E-01	2.0E-01	5.0E-03
		Industrial	Hazard	1.0E-01	1.0E-01	1.0E-03	5.0E-03	1.5E-02	1.5E-01	2.0E-01	5.0E-03
Water Used for	Ingestion/	Residential	Carcinogenic			4.5E-02	6.0E-02				1.8E-01
Recreation [mg/l] Italicized concentrations b	Dermal		Hazard	2.1E+00	9.3E+00	4.9E+00	5.3E-01	6.7E-06	1.1E+01	4.3E+00	7.8E-01

^{*}Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 6. Oakland Tier 2 SSTLs for Merritt Sands

Medium	Exposure Pathway	Land Use	Type of Risk	Trichloro- ethylene (TCE)	Vanadium	Vinyl Chloride	Xylenes	Zinc
		Residential	Carcinogenic	2.6E+02		6.9E+00	The state of the s	P21 71 1000 P10 P10
Surficial Soil	Ingestion/ Dermal/		Hazard	3.5E+02	5.4E+02		6.0E+04	2.3E+04
[mg/kg]	Inhalation	Commercial/	Carcinogenic	1.1E+03		2.8E+01		
		Industrial	Hazard	3.3E+03	1.2E+04		3.8E+05	5.1E+0
	200 2000 3	Residential	Carcinogenic	1.1E+01		1.3E-02		
	Inhalation of Indoor Air		Hazard	1.3E+01			SAT	
	Vapors	Commercial/	Carcinogenic	1.7E+02		2.0E-01		
		Industrial	Hazard	3.7E+02			SAT	
	/12-03/ P41/03/07 (0)	Residential	Carcinogenic	6.1E+01		7.1E-02		
Subsurface Soil	Inhalation of Outdoor Air	residential	Hazard	8.5E+01			SAT	
[mg/kg]	Vapors	Commercial/	Carcinogenic	2.3E+02		2.7E-01		
		Industrial	Hazard	4.9E+02			SAT	
	Ingestion of	Residential	Carcinogenic	1.3E-01		2.9E-03	6.4E+01	
	Groundwater	residential	Hazard	1.3E-01	1.6E+03	2.9E-03	6.4E+01	4.2E+0
	Impacted by Leachate	Commercial/	Carcinogenic	1.3E-01		2.9E-03	6.4E+01	
	COLONDIC	Industrial	Hazard	1.3E-01	1.0E+04	2.9E-03	6.4E+01	2.8E+04
		Residential	Carcinogenic	9.6E+00		6.0E-02		
	Inhalation of Indoor Air	residential	Hazard	1.1E+01			>SOL	
	Vapors	Commercial/	Carcinogenic	1.5E+02		9.6E-01		
		Industrial	Hazard	3.3E+02			>SOL	
		Residential	Carcinogenic	>SOL		1.2E+01		
Groundwater [mg/l]	Inhalation of Outdoor Air	, residential	Hazard	>SOL			>SOL	
Įg	Vapors	Commercial/	Carcinogenic	>SOL		4.7E+01		
		Industrial	Hazard	>SOL			>SOL	
		Residential	Carcinogenic	5.0E-03		5.0E-04	1.8E+00	
	Ingestion of		Hazard	5.0E-03	1.1E-01	5.0E-04	1.8E+00	4.7E+00
	Groundwater	Commercial/	Carcinogenic	5.0E-03		5.0E-04	1.8E+00	
		Industrial	Hazard	5.0E-03	7.2E-01	5.0E-04	1.8E+00	3.1E+01
Water Used for	Ingestion/	Residential	Carcinogenic	4.6E-02		2.6E-02		72001111
Recreation [mg/l]	Dermal	corocinal	Hazard	7.2E-02	2.8E+00		6.6E+01	1.2E+02

^{*}Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 7. Oakland Tier 2 SSTLs for Sandy Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Acenaph- thene	Acenaph- thylene	Acetone	Anthracene	Arsenic	Barlum	Benz(a)- anthracene	Benzene
C	Ingestion/	Residential	Carcinogenic		ii ii			3.2E+00	MG-176105.0	2.5E+00	2.7E+01
Surficial Soil [mg/kg]	Dermal/		Hazard	3.1E+03	3.1E+03	4.8E+03	1.6E+04	2.0E+01	5.2E+03		8.2E+01
[mg/kg]	Inhalation	Commercial/ Industrial	Carcinogenic					1.5E+01		7.9E+00	8.5E+01
		industrial	Hazard	2.0E+04	2.0E+04	3.0E+04	1.0E+05	2.5E+02	9.4E+04		5.2E+02
	Inhalation of	Residential	Carcinogenic							SAT	1.1E+00
	Indoor Air		Hazard	SAT	SAT	3.3E+03	SAT				3.6E+00
	Vapors	Commercial/ Industrial	Carcinogenic							SAT	1.7E+01
		industrial	Hazard	SAT	SAT	9.7E+04	SAT				1.1E+02
	Inhalation of	Residential	Carcinogenic							SAT	2.0E+01
Subsurface Soil [mg/kg]	Outdoor Air		Hazard	SAT	SAT	5.7E+04	SAT				8.0E+01
[mg/kg]	Vapors	Commercial/	Carcinogenic							SAT	7.7E+01
i		Industrial	Hazard	SAT	SAT	SAT	SAT				4.7E+02
	Ingestion of	Residential	Carcinogenic			1200		8.9E+00	2.5E+02	2.0E+01	6.5E-03
	Groundwater Impacted by		Hazard	SAT	SAT	1.6E+00	SAT	8.9E+00	2.5E+02		6.5E-03
	Leachate	Commercial/ Industrial	Carcinogenic					8.9E+00	2.5E+02	SAT	6.5E-03
		industrial	Hazard	SAT	SAT	1.0E+01	SAT	8.9E+00	2.5E+02		6.5E-03
	Inhalation of	Residential	Carcinogenic							>SOL	3.4E+00
	Indoor Air		Hazard	>SOL	>SOL	2.2E+04	>SOL				1.1E+01
	Vapors	Commercial/	Carcinogenic							>SOL	5.3E+01
		Industrial	Hazard	>SOL	>SOL	6.2E+05	>SOL				3.2E+02
	Inhalation of	Residential	Carcinogenic							>SOL	1.0E+03
Groundwater [mg/l]	Outdoor Air		Hazard	>SOL	>SOL	>SOL	>SOL				>SOL
	Vapors	Commercial/	Carcinogenic							>SOL	>SOL
		Industrial	Hazard	>SOL	>SOL	>SOL	>SOL				>SOL
		Residential	Carcinogenic					5.0E-02	1.0E+00	5.6E-04	1.0E-03
	Ingestion of Groundwater		Hazard	9.4E-01	9.4E-01	1.6E+00	>SOL	5.0E-02	1.0E+00		1.0E-03
	Giddidwater	Commercial/ Industrial	Carcinogenic					5.0E-02	1.0E+00	2.4E-03	1.0E-03
Westerstein		muustriai	Hazard	>SOL	>SOL	1.0E+01	>SOL	5.0E-02	1.0E+00		1.0E-03
Water Used for Recreation [mg/l]	Ingestion/ Dermal	Residential	Carcinogenic					2.0E-02		1.6E-04	6.3E-02
talicized concentrations b			Hazard	1.1E+00	1.7E+00	4.2E+01	>SOL	1.2E-01	2.8E+01		1.8E-01

^{*}Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 7. Oakland Tier 2 SSTLs for Sandy Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Benzo(a)- pyrene	Benzo(b)- fluoranthene	Benzo(g,h,i)- perylene	Benzo(k)- fluoranthene	Beryllium	Bis (2- ethylhexyl) phthalate	Butyl benzy phthalate
5 5 1 1 5 11	Ingestion/	Residential	Carcinogenic	2.5E-01	2.5E+00		2.5E+00	4.5E+04	3.6E+02	AND STREET
Surficial Soil	Dermal/		Hazard			2.1E+02		3.7E+02	1.0E+03	1.0E+04
[mg/kg]	Inhalation	Commercial/ Industrial	Carcinogenic	7.9E-01	7.9E+00		7.9E+00	1.7E+05	1.1E+03	1.02.104
		moustrial	Hazard	27 =		1.4E+03		6.8E+03	6.8E+03	6.8E+04
	Inhalation of	Residential	Carcinogenic	SAT	SAT	8	SAT		SAT	
	Indoor Air		Hazard			SAT			SAT	
	Vapors	Commercial/	Carcinogenic	SAT	SAT		SAT		SAT	
	 	Industrial	Hazard			SAT			SAT	
****	Inhalation of	Residential	Carcinogenic	SAT	SAT		SAT		SAT	
Subsurface Soil [mg/kg]	Outdoor Air		Hazard			SAT			SAT	
[mg/kg]	Vapors	Commercial/	Carcinogenic	SAT	SAT		SAT		SAT	
		Industrial	Hazard			SAT			SAT	
	Ingestion of	Residential	Carcinogenic	1.9E+01	SAT		SAT	1.9E+01	SAT	
	Groundwater		Hazard	1.9E+01		SAT		1.9E+01	SAT	SAT
	Impacted by Leachate	Commercial/	Carcinogenic	1.9E+01	SAT		SAT	1.9E+01	SAT	3/1
		Industrial	Hazard	1.9E+01		SAT		1.9E+01	SAT	SAT
	l=k=l+C	Residential	Carcinogenic	>SOL	>SOL		>SOL		>SOL	O/ (I
	Inhalation of Indoor Air		Hazard			>SOL			>SOL	
	Vapors	Commercial/	Carcinogenic	>SOL	>SOL		>SOL		>SOL	
		Industrial	Hazard			>SOL			>SOL	
	lah alatian se	Residential	Carcinogenic	>SOL	>SOL		>SOL		>SOL	
Groundwater [mg/l]	Inhalation of Outdoor Air		Hazard			>SOL			>SOL	
	Vapors	Commercial/	Carcinogenic	>SOL	>SOL		>SOL		>SOL	
		Industrial	Hazard			>SOL			>SOL	
		Residential	Carcinogenic	2.0E-04	5.6E-04		5.6E-04	4.0E-03	8.0E-02	
	Ingestion of		Hazard	2.0E-04		>SOL		4.0E-03	3.1E-01	>SOL
	Groundwater	Commercial/	Carcinogenic	2.0E-04	>SOL		>SOL	4.0E-03	>SOL	
		Industrial	Hazard	2.0E-04		>SOL		4.0E-03	>SOL	>SOL
Water Used for	Ingestion/ Dermal	Residential	Carcinogenic	1.1E-05	1.1E-04		1.2E-04		>SOL	- 001
Recreation [mg/l]			Hazard			>SOL	· · · · · · · · · · · · · · · · · · ·	2.0E+00	>SOL	>SOL

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 7. Oakland Tier 2 SSTLs for Sandy Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Cadmium	Carbon Disulfide	Carbon Tetrachloride	Chloro- benzene	Chloroform	Chromium (III)	Chromlum (VI)
	Incontinut	Residential	Carcinogenic	2.1E+04		1.8E+01		9.1E+01	P 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.3E+01
Surficial Soil	Ingestion/ Dermal/		Hazard	3.7E+01	1.3E+03	3.3E+01	8.0E+02	4.8E+02	7.4E+04	3.7E+02
[mg/kg]	Inhalation	Commercial/	Carcinogenic	7.9E+04		5.7E+01		2.9E+02		8.7E+01
		Industrial	Hazard	6.8E+02	6.7E+03	2.1E+02	4.8E+03	3.0E+03	1.4E+06	6.8E+03
	labatation of	Residential	Carcinogenic			4.1E-01		5.3E+00		
	Inhalation of Indoor Air		Hazard		1.7E+00	6.8E-01	1.0E+00	2.0E+01		****
	Vapors	Commercial/	Carcinogenic			6.5E+00		8.5E+01		
	L	Industrial	Hazard		5.0E+01	2.0E+01	3.0E+01	5.8E+02		
		Residential	Carcinogenic			7.6E+00		9.9E+01		
Subsurface Soil	Inhalation of Outdoor Air		Hazard		3.8E+01	1.5E+01	2.3E+01	4.4E+02		
[mg/kg]	Vapors	Commercial/	Carcinogenic			2.9E+01		3.8E+02		
		Industrial	Hazard		2.2E+02	8.8E+01	1.3E+02	2.5E+03		
	Ingestion of	Residential	Carcinogenic	2.3E+00		8.8E-03	2.1E-01	4,7E-01		5.8E+00
	Groundwater	- Tooloomia	Hazard	2.3E+00	8.5E+00	8.8E-03	2.1E-01	4.7E-01	1.7E+08	5.8E+00
	Impacted by Leachate	Commercial/	Carcinogenic	2.3E+00		8.8E-03	2.1E-01	4.7E-01		5.8E+00
	200011010	Industrial	Hazard	2.3E+00	5.6E+01	8.8E-03	2.1E-01	4.7E-01	1.1E+09	5.8E+00
		Residential	Carcinogenic			1.3E+00		1.9E+01		
	Inhalation of Indoor Air	- Noordonada	Hazard		1.2E+01	2.2E+00	2.1E+01	7.2E+01		
	Vapors	Commercial/	Carcinogenic			2.1E+01		3.1E+02		
		Industrial	Hazard		3.6E+02	6.4E+01	>SOL	2.1E+03		
		Residential	Carcinogenic			5.0E+02		5.4E+03		
Froundwater [mg/l]	Inhalation of Outdoor Air		Hazard		>SOL	>SOL	>SOL	>SOL		
	Vapors	Commercial/	Carcinogenic			>SOL		>SOL		
		Industrial	Hazard		>SOL	>SOL	>SOL	>SOL		
		Residential	Carcinogenic	5.0E-03		5.0E-04	7.0E-02	1.0E-01		5.0E-02
	Ingestion of		Hazard	5.0E-03	1.6E+00	5.0E-04	7.0E-02	1.0E-01	1.6E+01	5.0E-02
	Groundwater	Commercial/	Carcinogenic	5.0E-03		5.0E-04	7.0E-02	1.0E-01		5.0E-02
		Industrial	Hazard	5.0E-03	1.0E+01	5.0E-04	7.0E-02	1.0E-01	1.0E+02	5.0E-02
Water Used for	Ingestion/	Residential	Carcinogenic	1000		4.1E-02		3,9E-01		6.8E-02
Recreation [mg/l]	Dermal		Hazard	2.0E-01	9.4E+00	7.1E-02	1.2E+00	1.9E+00	3.8E+02	1.9E+00

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 7. Oakland Tier 2 SSTLs for Sandy Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Chrysene	Copper	Cresol(-m)	Cresol(-o)	Cresol(-p)	Cyanide	Dibenz(a,h)- anthracene
		Residential	Carcinogenic	2.5E+01					1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7.4E-01
Surficial Soil	Ingestion/ Dermal/	residential	Hazard		2.8E+03	2.6E+03	2.6E+03	2.6E+02	3.0E+03	
[mg/kg]	Inhalation	Commercial/	Carcinogenic	7.9E+01						2.3E+00
		Industrial	Hazard		5.0E+04	1.7E+04	1.7E+04	1.7E+03	5.5E+04	
		Residential	Carcinogenic	SAT						SAT
	Inhalation of Indoor Air	residential	Hazard			SAT	SAT	SAT		
	Vapors	Commercial/	Carcinogenic	SAT						SAT
		Industrial	Hazard			SAT	SAT	SAT		
er en		Residential	Carcinogenic	SAT						SAT
Subsurface Soil	Inhalation of Outdoor Air	residential	Hazard		_	SAT	SAT	SAT		
[mg/kg]	Vapors	Commercial/	Carcinogenic	SAT						SAT
		Industrial	Hazard			SAT	SAT	SAT		
	Ingestion of	Residential	Carcinogenic	SAT	1.2E+00				1.2E+01	5.7E+01
	Groundwater	residential	Hazard		1.2E+00	7.0E+00	7.3E+00	6.5E-01	1.2E+01	
	Impacted by Leachate	Commercial/	Carcinogenic	SAT	1.2E+00				1.2E+01	SAT
	Leadingte	Industrial	Hazard		1.2E+00	4.5E+01	4.7E+01	4.3E+00	1.2E+01	
		Residential	Carcinogenic	>SOL						>SOL
	Inhalation of Indoor Air	rvesideridai	Hazard		~ 	>SOL	>SOL	>SOL		
	Vapors	Commercial/	Carcinogenic	>SOL						>SOL
		Industrial	Hazard			>SOL	>SOL	>SOL		
		Residential	Carcinogenic	>SOL						>SOL
Groundwater [mg/l]	Inhalation of Outdoor Air	residential	Hazard			>SOL	>SOL	>SOL		
ingrij	Vapors	Commercial/	Carcinogenic	>SOL						>SOL
		Industrial	Hazard			>SOL	>SOL	>SOL		
		Residential	Carcinogenic	>SOL	1.3E+00				2.0E-01	1.6E-04
	Ingestion of	- Coldonida	Hazard		1.3E+00	7.8E-01	7.8E-01	7.8E-02	2.0E-01	
	Groundwater	Commercial/	Carcinogenic	>SOL	1.3E+00				2.0E-01	7.0E-04
		Industrial	Hazard		1.3E+00	5.1E+00	5.1E+00	5.1E-01	2.0E-01	***************************************
Water Used for	Ingestion/	Residential	Carcinogenic	>SOL						1.4E-05
Recreation [mg/l]	Dermal	, toolocillo	Hazard		1.5E+01	6.7E+00	6.4E+00	5.9E-01	7.0E+00	

^{*}Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 7. Oakland Tier 2 SSTLs for Sandy Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Dichloro- ethane (1,1-)	Dichloro- ethane (1,2-) (EDC)	Dichloro- ethylene (1,1-)	Dichloro- ethylene (cis 1,2-)	Dichloro- ethene (trans 1,2)	Dimethylbenza- (a)anthracene (7,12)
		Residential	Carcinogenic	4.8E+02	3.9E+01	4.9E+00			
Surficial Soil	Ingestion/ Dermal/	redicental	Hazard	4.9E+03	1.4E+02	4.3E+02	4.8E+02	9.6E+02	1.6E+03
[mg/kg]	Inhalation	Commercial/	Carcinogenic	1.5E+03	1.2E+02	1.5E+01			
		Industrial	Hazard	3.1E+04	8.8E+02	2.7E+03	3.0E+03	6.1E+03	1.0E+04
78278		Residential	Carcinogenic	1.4E+01	3.0E+00	1.4E-01			
	Inhalation of Indoor Air	residential	Hazard	2.2E+02	1.2E+01	4.3E+00	2.3E+01	2.9E+01	
	Vapors	Commercial/	Carcinogenic	2.2E+02	4.7E+01	2.2E+00			
		Industrial	Hazard	SAT	3.4E+02	1.2E+02	6.7E+02	8.4E+02	
		Residential	Carcinogenic	2.6E+02	5.5E+01	2.5E+00			
Subsurface Soil	Inhalation of Outdoor Air	residential	Hazard	SAT	2.6E+02	9.5E+01	5.1E+02	6.4E+02	
[mg/kg]	Vapors	Commercial/	Carcinogenic	9.7E+02	2.1E+02	9.6E+00			
		Industrial	Hazard	SAT	1.5E+03	5.5E+02	SAT	3.7E+03	
	Ingestion of	Residential	Carcinogenic	2.0E-02	1.3E-03	4.2E-02	2.6E-02	6.0E-02	
	Groundwater	residentia	Hazard	2.0E-02	1.3E-03	4.2E-02	2.6E-02	6.0E-02	SAT
	Impacted by Leachate	Commercial/	Carcinogenic	2.0E-02	1.3E-03	4.2E-02	2.6E-02	6.0E-02	
	couonate	Industrial	Hazard	2.0E-02	1.3E-03	4.2E-02	2.6E-02	6.0E-02	SAT
		Residential	Carcinogenic	6.0E+01	1.1E+01	1.0E+00			
	Inhalation of Indoor Air	rtosidermai	Hazard	9.4E+02	4.4E+01	3.2E+01	7.5E+01	1.0E+02	
	Vapors	Commercial/	Carcinogenic	9.6E+02	1.7E+02	1.6E+01			
		Industrial	Hazard	>SOL	1.3E+03	9.2E+02	2.2E+03	3.0E+03	
		Residential	Carcinogenic	>SOL	1.8E+03	3.7E+02			
Groundwater [mg/l]	Inhalation of Outdoor Air	ricolderitia	Hazard	>SOL	8.4E+03	>SOL	>SOL	>SOL	
	Vapors	Commercial/	Carcinogenic	>SOL	6.7E+03	1.4E+03			
		Industrial	Hazard	>SOL	>SOL	>SOL	>SOL	>SOL	
		Residential	Carcinogenic	5.0E-03	5.0E-04	6.0E-03	6.0E-03	1.0E-02	
	Ingestion of	. reorder tudi	Hazard	5.0E-03	5.0E-04	6.0E-03	6.0E-03	1.0E-02	>SOL
	Groundwater	Commercial/	Carcinogenic	5.0E-03	5.0E-04	6.0E-03	6.0E-03	1.0E-02	
		Industrial	Hazard	5.0E-03	5.0E-04	6.0E-03	6.0E-03	1.0E-02	>SOL
Water Used for	Ingestion/	Residential	Carcinogenic	2.1E+00	2.4E-01	1.3E-02			
Recreation [mg/l]	Dermal	100100111101	Hazard	1.9E+01	7.2E-01	1.2E+00	1.8E+00	3.5E+00	>SOL

^{*}Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 7. Oakland Tier 2 SSTLs for Sandy Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Dimethyl- phenol (2,4)	di-n-Butyl- phthalate	di-n-octyl phthalate	Dinitro- toluene (2,4)	Dioxane (1,4)	Ethyl- benzene	Ethylene Dibromide	Flouran thene
_	Ingestion/	Residential	Carcinogenic				9.6E+00	1.0E+02	14,7115,001405,04	8.4E-01	(A) (V 4)
Surficial Soil	Dermal/		Hazard	1.0E+03	5.2E+03	1.0E+03			5.1E+03	2.7E+00	2.1E+03
[mg/kg]	Inhalation	Commercial/	Carcinogenic				3.0E+01	3.2E+02		2.6E+00	
		Industrial	Hazard	6.7E+03	3.4E+04	6.8E+03			3.3E+04	1.7E+01	1.4E+04
	Imbalation of	Residential	Carcinogenic				SAT	SAT		4.6E+00	
	Inhalation of Indoor Air		Hazard	SAT	SAT	SAT			SAT	1.3E+00	SAT
	Vapors	Commercial/	Carcinogenic	T.			SAT	SAT		7.4E+01	
		Industrial	Hazard	SAT	SAT	SAT			SAT	3.8E+01	SAT
		Residential	Carcinogenic				SAT	SAT		8.4E+01	
Subsurface Soil	Inhalation of Outdoor Air		Hazard	SAT	SAT	SAT			SAT	2.8E+01	SAT
[mg/kg]	Vapors	Commercial/	Carcinogenic				SAT	SAT		3.2E+02	
	M	Industrial	Hazard	SAT	SAT	SAT			SAT	1.6E+02	SAT
	Ingestion of	Residential	Carcínogenic) ·			2.1E-02	SAT	2.4E+01	2.5E-04	
	Groundwater		Hazard	6.3E+00	1.2E+07	SAT			2.4E+01	2.5E-04	SAT
	Impacted by Leachate	Commercial/	Carcinogenic				8.9E-02	SAT	2.4E+01	2.5E-04	0, 1,
		Industrial	Hazard	4.1E+01	SAT	SAT			2.4E+01	2.5E-04	SAT
		Residential	Carcinogenic				>SOL	>SOL		7.0E+00	-
	Inhalation of Indoor Air	- Noordon Kirdi	Hazard	>SOL	>SOL	>SOL			>SOL	2.0E+00	>SOL
	Vapors	Commercial/	Carcinogenic				>SOL	>SOL		1.1E+02	1002
		Industrial	Hazard	>SOL	>SOL	>SOL			>SOL	5.7E+01	>SOL
		Residential	Carcinogenic				>SOL	>SOL		6.8E+02	7000
Groundwater [mg/l]	Inhalation of Outdoor Air	- Coldental	Hazard	>SOL	>SOL	>SOL			>SOL	2.2E+02	>SOL
	Vapors	Commercial/	Carcinogenic				>SOL	>SOL		2.6E+03	- 502
		Industrial	Hazard	>SOL	>SOL	>SOL			>SOL	1.3E+03	>SOL
		Residential	Carcinogenic				2.2E-03	>SOL	7.0E-01	5.0E-05	7002
	Ingestion of	, , , , , , , , , , , , , , , , , , , ,	Hazard	3.1E-01	1.6E+00	>SOL			7.0E-01	5.0E-05	>SOL
	Groundwater	Commercial/	Carcinogenic				9.2E-03	>SOL	7.0E-01	5.0E-05	- 002
		Industrial	Hazard	2.0E+00	1.0E+01	>SOL			7.0E-01	5.0E-05	>SOL
Water Used for	Ingestion/	Residential	Carcinogenic				6.4E-02	>SOL		5.9E-03	
Recreation [mg/l]	Dermal		Hazard	2.7E+00	7.3E+00	2.1E-03			3.6E+00	1.7E-02	>SOL

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 7. Oakland Tier 2 SSTLs for Sandy Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Fluorene	Indeno- (1,2,3-CD)- pyrene	Mercury	Methanol	Methyl ethyl ketone	Methylene Chloride	Methyl- napthalene (2-)	MTBE
	Innetion	Residential	Carcinogenic		2.5E+00	STATE OF THE PARTY		THE PARTY OF THE P	2.1E+02	新兴州 海州市 李江 东	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Surficial Soil	Ingestion/ Dermal/		Hazard	2.1E+03		5.0E+00	2.4E+04	2.7E+04	3,1E+03	2.1E+03	2.6E+02
[mg/kg]	Inhalation	Commercial/	Carcinogenic		7.9E+00				6.6E+02	2,12.00	2.02.702
		Industrial	Hazard	1.4E+04		3.2E+01	1.6E+05	1.7E+05	2.0E+04	1.3E+04	1.7E+03
		Residential	Carcinogenic		SAT				2.2E+01		1.7.2.10
	Inhalation of Indoor Air	, rooideirida	Hazard	SAT		1.3E+01	1.0E+05	1.4E+04	1.3E+03	SAT	8.1E+0
	Vapors	Commercial/	Carcinogenic		SAT				3.5E+02	5,11	J. 12.10.
	<u> </u>	Industrial	Hazard	SAT			SAT	SAT	SAT	SAT	SAT
		Residential	Carcinogenic		SAT	**************************************		0	4.1E+02	- 5A1	SAI
Subsurface Soil	Inhalation of Outdoor Air	residential	Hazard	SAT		2.8E+02	SAT	SAT	SAT	SAT	SAT
[mg/kg]	Vapors	Commercial/	Carcinogenic		SAT				1.6E+03	3/1	SAI
		Industrial	Hazard	SAT		1.6E+03	SAT	SAT	SAT	SAT	SAT
	Ingestion of	Residential	Carcinogenic		SAT	6.3E-01		- OAT	1.0E-02	SAI	
	Groundwater	- Nesiderillar	Hazard	SAT		6.3E-01	7.5E+00	1.3E+01	1.0E-02	4.9E+02	2.7E-02
	Impacted by Leachate	Commercial/	Carcinogenic		SAT	6.3E-01		1.02701	1.0E-02	4.92+02	2.7E-02
	Loadiate	Industrial	Hazard	SAT		6.3E-01	4.9E+01	8.4E+01	1.0E-02	SAT	2.7E-02 2.7E-02
		Residential	Carcinogenic		>SOL				1.3E+02	- OAT	2.72-02
	Inhalation of Indoor Air	Residential	Hazard	>SOL		8.4E-01	6.6E+05	6.6E+04	7.5E+03	>SOL	2.05.0
	Vapors	Commercial/	Carcinogenic		>SOL	37.12.07	0.02700	0.0L104	2.0E+03	730L	3.0E+04
		Industrial	Hazard	>SOL		2,4E+01	>SOL	>SOL	>SOL	>501	
		Residential	Carcinogenic		>SOL	2.72.01	- 001	FUCE	>SOL	>SOL	>SOL
Groundwater [mg/l]	Inhalation of Outdoor Air	Residential	Hazard	>SOL		3.1E+02	>SOL	>SOL	>SOL	>SOL	
[mgm]	Vapors	Commercial/	Carcinogenic		>SOL		- 002	7002	>SOL	730L	>SOL
		Industrial	Hazard	>SOL		1.8E+03	>SOL	>SOL	>SOL	> 501	
		Posidantial	Carcinogenic		>SOL	2.0E-03	- 002	>30L	5.0E-03	>SOL	>SOL
	Ingestion of	Residential	Hazard	6.3E-01		2.0E-03	7.8E+00	9.4E+00	5.0E-03 5.0E-03	6.25.04	1.3E-02
	Groundwater	Commercial/	Carcinogenic		>SOL	2.0E-03	7.02.00	3.4E700	5.0E-03	6.3E-01	1.3E-02
		Industrial	Hazard	>SOL		2.0E-03	5.1E+01	6.1E+01	5.0E-03	4.1E+00	1.3E-02 1.3E-02
Water Used for	Ingestion/	Residential	Carcinogenic		>SOL		3	5.12.51	1.3E+00	7.1ET00	1.3E-02
Recreation [mg/l]	Dermal	Residential	Hazard	3.1E-01		3.6E-02	2.2E+02	1.5E+02	1.6E+01	6.1E-01	1.5E+00

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 7. Oakland Tier 2 SSTLs for Sandy Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Naphthalene	Nickel	Nitro- benzene	PCBs	Phenan- threne	Phenol	Pyrene	Pyridine	Selenium
S	Ingestion/	Residential	Carcinogenic		3.4E+05	5.6E+03	5.0E-01	COMPANIED IN		PROPERTY OF	2.9E+03	STREET, STREET, ST
Surficial Soil	Dermal/		Hazard	2.1E+03	1.5E+03		1.2E+00	1.6E+04	3.1E+04	1.6E+03	2.52.755	3.7E+02
[mg/kg]	Inhalation	Commercial/	Carcinogenic		1.3E+06	1.8E+04	1.9E+00				9.3E+03	0.72.02
		Industrial	Hazard	1.3E+04	2.7E+04		1.0E+01	1.0E+05	2.0E+05	1.0E+04	5.02.00	6.8E+03
	labatati	Residential	Carcinogenic			SAT	1.1E+03				4.7E+04	0.02.703
	Inhalation of Indoor Air		Hazard	SAT			SAT	SAT	SAT	SAT	7.76104	
	Vapors	Commercial/	Carcinogenic			SAT	SAT		J	JA1	7.4E+05	
		Industrial	Hazard	SAT			SAT	SAT	SAT	SAT	7.4E+03	
	Í	Residential	Carcinogenic	_		SAT	SAT		9/1	3/1	4.55.00	
Subsurface Soil	Inhalation of Outdoor Air	residential	Hazard	SAT			SAT	SAT	SAT	SAT	4.5E+05	
[mg/kg]	Vapors	Commercial/	Carcinogenic			SAT	SAT	<u></u>	SAI	SAI	0.7	-
		Industrial	Hazard	SAT		5,1,	SAT	SAT	SAT	0.47	SAT	
	Ingestion of	Residential	Carcinogenic	3.7E+00	4.0E+01	9.2E+00	1.4E+01	341	SAI	SAT	0.05	
	Groundwater	Residential	Hazard	3.7E+00	4.0E+01	V.EE. VOO	1.4E+01	SAT	2.45.04		3.9E+00	1.6E+00
	Impacted by Leachate	Commercial/	Carcinogenic	3.7E+00	4.0E+01	3.9E+01	1.4E+01	SAI	3.4E+01	SAT		1.6E+00
	Ecachate	Industrial	Hazard	3.7E+00	4.0E+01	0.02701	1.4E+01	SAT	2.25.02		1.7E+01	1.6E+00
		Desidential	Carcinogenic			>SOL	2.8E-01	SAI	2.2E+02	SAT		1.6E+00
	Inhalation of Indoor Air	Residential	Hazard	>SOL		>30L					5.0E+04	
	Vapors	Commercial/	Carcinogenic			\ 00I	>SOL	>SOL	>SOL	>SOL		
	·	Industrial	Hazard	>SOL		>SOL	>SOL				8.0E+05	
			Carcinogenic	730L		. 001	>SOL	>SOL	>SOL	>SOL		
Groundwater (/II	Inhalation of	Residential	Hazard	>SOL		>SOL	>SOL				>SOL	
Groundwater [mg/l]	Outdoor Air Vapors	Commercial/	Carcinogenic				>SOL	>SOL	>SOL	>SOL		
		Industrial	Hazard	>SOL		>SOL	>SOL				>SOL	
8			Carcinogenic		405.04		>SOL	>SOL	>SOL	>SOL		
	Ingestion of	Residential	Hazard	2.0E-02 2.0E-02	1.0E-01	1.3E+00	5.0E-04				6.7E-01	5.0E-02
	Groundwater	Commercial/	Carcinogenic	2.0E-02 2.0E-02	1.0E-01		5.0E-04	>SOL	9.4E+00	>SOL		5.0E-02
		Industrial	Hazard	2.0E-02 2.0E-02	1.0E-01	5.7E+00	5.0E-04				2.9E+00	5.0E-02
Water Used for	Ingestion/			2.0E-02	1.0E-01		5.0E-04	>SOL	6.1E+01	>SOL		5.0E-02
Recreation [mg/l]	Dermal	Residential	Carcinogenic	1.55,00	7.05	2.8E+01	1.6E-05				2.6E+01	
talicized concentrations ba	(=0.000 (A.100) (I		Hazard	1.5E+00	7.9E+00		4.4E-05	>SOL	1.5E+02	>SOL		2.0E+00

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 7. Oakland Tier 2 SSTLs for Sandy Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Silver	Stryene	Tetrachloro- ethane (1,1,2,2 -)	Tetrachloro- ethylene (PCE)	Tetraethyl Lead	Toluene	Trichloro- ethane (1,1,1-)	Trichloro- ethane (1,1,2-)
		Residential	Carcinogenic			1.0E+01	5.7E+01				3.8E+01
Surficial Soil	Ingestion/ Dermal/	residential	Hazard	3.7E+02	1.0E+04	1.3E+03	4.8E+02	5.2E-03	9.0E+03	1.8E+03	1.9E+02
[mg/kg]	Inhalation	Commercial/	Carcinogenic			3.3E+01	1.8E+02				1.2E+02
A CONTRACTOR OF THE PARTY OF TH		Industrial	Hazard	6.8E+03	6.4E+04	8.2E+03	3.0E+03	3.4E-02	5.6E+04	1.2E+04	1.2E+03
		Residential	Carcinogenic			1.2E+01	4.6E+00			***************	8.9E+00
	Inhalation of Indoor Air	recordernar	Hazard		SAT	1.6E+03	1.9E+01		5.7E+02	4.0E+02	5.0E+01
	Vapors	Commercial/	Carcinogenic			1.9E+02	7.3E+01		-		1.4E+02
		Industrial	Hazard		SAT	SAT	SAT		SAT	SAT	1.5E+03
5-74-5 CT		Residential	Carcinogenic			2.1E+02	8.6E+01				1.6E+02
Subsurface Soil	Inhalation of Outdoor Air	risolatina	Hazard		SAT	SAT	4.2E+02		SAT	SAT	1.1E+03
[mg/kg]	Vapors	Commercial/	Carcinogenic			8.0E+02	3.3E+02				6.2E+02
		Industrial	Hazard		SAT	SAT	SAT		SAT	SAT	SAT
	Ingestion of	Residential	Carcinogenic	5.1E+00	7.2E+00	9.5E-03	7.8E-02	6.9E+00	2.7E+00	2.3E+00	2.8E-02
	Groundwater	- Troolacina	Hazard	5.1E+00	7.2E+00	9.5E-03	7.8E-02	6.9E+00	2.7E+00	2.3E+00	2.8E-02
	Impacted by Leachate	Commercial/	Carcinogenic	5.1E+00	7.2E+00	9.5E-03	7.8E-02	6.9E+00	2.7E+00	2.3E+00	2.8E-02
		Industrial	Hazard	5.1E+00	7.2E+00	9.5E-03	7.8E-02	6.9E+00	2.7E+00	2.3E+00	2.8E-02
		Residential	Carcinogenic			9.2E+00	1.2E+01				1.4E+01
	Inhalation of Indoor Air	recidential	Hazard		>SOL	1.3E+03	5.1E+01		>SOL	>SOL	8.0E+01
	Vapors	Commercial/	Carcinogenic			1.5E+02	2.0E+02				2.3E+02
		Industrial	Hazard		>SOL	>SOL	>SOL		>SOL	>SOL	2.3E+03
		Residential	Carcinogenic			8.1E+02	>SOL				2.0E+03
Groundwater [mg/l]	Inhalation of Outdoor Air		Hazard		>SOL	>SOL	>SOL		>SOL	>SOL	>SOL
ţg	Vapors	Commercial/	Carcinogenic			>SOL	>SOL				>SOL
		Industrial	Hazard		>SOL	>SOL	>SOL		>SOL	>SOL	>SOL
	i i	Residential	Carcinogenic	1.0E-01	1.0E-01	1.0E-03	5.0E-03	1.5E-02	1.5E-01	2.0E-01	5.0E-03
	Ingestion of		Hazard	1.0E-01	1.0E-01	1.0E-03	5.0E-03	1.5E-02	1.5E-01	2.0E-01	5.0E-03
	Groundwater	Commercial/	Carcinogenic	1.0E-01	1.0E-01	1.0E-03	5.0E-03	1.5E-02	1.5E-01	2.0E-01	5.0E-03
		Industrial	Hazard	1.0E-01	1.0E-01	1.0E-03	5.0E-03	1.5E-02	1.5E-01	2.0E-01	5.0E-03
Water Used for	Ingestion/	Residential	Carcinogenic			4.5E-02	6.0E-02				1.8E-01
Recreation [mg/l]	Dermal		Hazard	2.1E+00	9.3E+00	4.9E+00	5.3E-01	6.7E-06	1.1E+01	4.3E+00	7.8E-01

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 7. Oakland Tier 2 SSTLs for Sandy Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Trichloro- ethylene (TCE)	Vanadium	Vinyl Chloride	Xylenes	Zinc
	224000000000000000000000000000000000000	Residential	Carcinogenic	1.9E+02		5.0E+00		
Surficial Soil	Ingestion/ Dermal/	residential	Hazard	2.9E+02	5.2E+02		5.6E+04	2.2E+04
[mg/kg]	Inhalation	Commercial/	Carcinogenic	5.9E+02		1.6E+01		
		Industrial	Hazard	1.8E+03	9.5E+03		3.1E+05	4.1E+05
	77,979 10,776 69	Residential	Carcinogenic	1.7E+01		1.8E-02		
	Inhalation of Indoor Air	Residential	Hazard	2.0E+01			SAT	
	Vapors	Commercial/	Carcinogenic	2.6E+02		2.8E-01		
		Industrial	Hazard	5.7E+02			SAT	
	ranversinare een	Residential	Carcinogenic	3.1E+02		3.3E-01		
Subsurface Soil	Inhalation of Outdoor Air	residential	Hazard	4.3E+02			SAT	
[mg/kg]	Vapors	Commercial/	Carcinogenic	1.2E+03		1.2E+00		
		Industrial	Hazard	2.5E+03			SAT	
`	Ingestion of	Residential	Carcinogenic	8.2E-02		1.6E-03	4.0E+01	
	Groundwater		Hazard	8.2E-02	6.7E+02	1.6E-03	4.0E+01	1.8E+0
	Impacted by Leachate	Commercial/	Carcinogenic	8.2E-02		1.6E-03	4.0E+01	
		Industrial	Hazard	8.2E-02	4.4E+03	1.6E-03	4.0E+01	1.2E+04
		Residential	Carcinogenic	2.9E+01		2.8E-01		
	Inhalation of Indoor Air		Hazard	3.4E+01			>SOL	
	Vapors	Commercial/	Carcinogenic	4.6E+02		4.4E+00		
		Industrial	Hazard	9.9E+02			>SOL	
		Residential	Carcinogenic	>SOL		1.0E+02		
Groundwater [mg/l]	Inhalation of Outdoor Air		Hazard	>SOL			>SOL	
	Vapors	Commercial/	Carcinogenic	>SOL	11.52	3.9E+02		
		Industrial	Hazard	>SOL			>SOL	
		Residential	Carcinogenic	5.0E-03		5.0E-04	1.8E+00	
	Ingestion of	300000000000000000000000000000000000000	Hazard	5.0E-03	1.1E-01	5.0E-04	1.8E+00	4.7E+00
	Groundwater	Commercial/	Carcinogenic	5.0E-03		5.0E-04	1.8E+00	
		Industrial	Hazard	5.0E-03	7.2E-01	5.0E-04	1.8E+00	3.1E+01
Water Used for	Ingestion/	Residential	Carcinogenic	4.6E-02		2.6E-02		
Recreation [mg/l]	Dermal		Hazard	7.2E-02	2.8E+00		6.6E+01	1.2E+02

^{*}Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 8. Oakland Tier 2 SSTLs for Clayey Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Acenaph- thene	Acenaph- thylene	Acetone	Anthracene	Arsenia	Barlum	Benz(a)- anthracene	Benzene
2 27 52	Ingestion	Residential	Carcinogenic		4 -4-			2.6E+00	Toget Andrews	1.7E+00	1.9E+01
Surficial Soil	Ingestion/ Dermal/		Hazard	2.3E+03	2.3E+03	3.7E+03	1.2E+04	1.8E+01	5.0E+03		6.3E+01
[mg/kg]	Inhalation	Commercial/	Carcinogenic					9.5E+00		4.3E+00	4.9E+01
		Industrial	Hazard	1.1E+04	1.1E+04	1.8E+04	5.6E+04	1.5E+02	7.1E+04		3.0E+02
		Residential	Carcinogenic							SAT	1.9E+00
	Inhalation of Indoor Air		Hazard	SAT	SAT	6.3E+03	SAT				6.2E+00
	Vapors	Commercial/	Carcinogenic							SAT	3.0E+01
		Industrial	Hazard	SAT	SAT	1.8E+05	SAT				1.8E+02
Description (Residential	Carcinogenic							SAT	1.6E+02
Subsurface Soil	Inhalation of Outdoor Air		Hazard	SAT	SAT	1.2E+05	SAT				6.5E+02
[mg/kg]	Vapors	Commercial/	Carcinogenic							SAT	6.2E+02
	Industrial	Hazard	SAT	SAT	SAT	SAT				SAT	
	Ingestion of	Residential	Carcinogenic					4.4E+00	1.3E+02	1.4E+01	4.5E-03
	Groundwater		Hazard	4.0E+02	2.7E+02	1.5E+00	SAT	4.4E+00	1.3E+02		4.5E-03
	Impacted by Leachate	Commercial	Carcinogenic					4.4E+00	1.3E+02	5.8E+01	4.5E-03
		Industrial	Hazard	SAT	SAT	9.7E+00	SAT	4.4E+00	1.3E+02		4.5E-03
		Residential	Carcinogenic							>SOL	5.6E+00
	Inhalation of Indoor Air		Hazard	>SOL	>SOL	2.1E+04	>SOL				1.9E+01
9	Vapors	Commercial/	Carcinogenic							>SOL	8.9E+01
		Industrial	Hazard	>SOL	>SOL	6.2E+05	>SOL				5.4E+02
		Residential	Carcinogenic							>SOL	>SOL
Groundwater [mg/l]	Inhalation of Outdoor Air		Hazard	>SOL	>SOL	9.5E+05	>SOL				>SOL
	Vapors	Commercial/	Carcinogenic							>SOL	>SOL
		Industrial	Hazard	>sol	>SOL	>SOL	>SOL				>SOL
Ingestion of	Residential	Carcinogenic					5.0E-02	1.0E+00	5.6E-04	1.0E-03	
		Hazard	9.4E-01	9.4E-01	1.6E+00	>SOL	5.0E-02	1.0E+00		1.0E-03	
	Groundwater	Commercial/	Carcinogenic					5.0E-02	1.0E+00	2.4E-03	1.0E-03
		Industrial	Hazard	>SOL	>SOL	1.0E+01	>SOL	5.0E-02	1.0E+00		1.0E-03
Water Used for	Ingestion/	Residential	Carcinogenic					2.0E-02		1.6E-04	6.3E-02
Recreation [mg/l]	Dermal	, testise maj	Hazard	1.1E+00	1.7E+00	4.2E+01	>SOL	1.2E-01	2.8E+01		1.8E-01

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 8. Oakland Tier 2 SSTLs for Clayey Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Benzo(a)- pyrene	Benzo(b)- fluoranthene	Benzo(g,h,i)- perylene	Benzo(k)- fluoranthene	Beryllium	Bis (2- ethylhexyl) phthalate	Butyl benzy phthalate
5 4	Annual Cont	Residential	Carcinogenic	1.7E-01	1.7E+00		1.7E+00	4.5E+04	2.4E+02	CONTRACTOR OF STREET, C
Surficial Soil	Ingestion/ Dermal/		Hazard			1.6E+02		3.6E+02	7.8E+02	7.8E+03
[mg/kg]	Inhalation	Commercial/	Carcinogenic	4.3E-01	4.3E+00		4.3E+00	1.7E+05	6.2E+02	
		Industrial	Hazard			7.4E+02		5.1E+03	3.7E+03	3.7E+04
		Residential	Carcinogenic	SAT	SAT		SAT		SAT	
	Inhalation of Indoor Air		Hazard			SAT			SAT	
	Vapors	Commercial/	Carcinogenic	SAT	SAT		SAT		SAT	
		Industrial	Hazard			SAT			SAT	
some see that the see was 1		Residential	Carcinogenic	SAT	SAT		SAT		SAT	1
Subsurface Soil	Inhalation of Outdoor Air		Hazard			SAT			SAT	
[mg/kg]	Vapors	Commercial/	Carcinogenic	SAT	SAT		SAT		SAT	
		Industrial	Hazard			SAT			SAT	
	Ingestion of	Residential	Carcinogenic	1.2E+01	SAT		SAT	9.6E+00	7.3E+04	1
	Groundwater		Hazard	1.2E+01		SAT		9.6E+00	SAT	SAT
	Impacted by Leachate	Commercial/	Carcinogenic	1.2E+01	SAT		SAT	9.6E+00	SAT	
		Industrial	Hazard	1.2E+01		SAT		9.6E+00	SAT	SAT
		Residential	Carcinogenic	>SOL	>SOL	S=======	>SOL		>SOL	
	Inhalation of Indoor Air		Hazard			>SOL			>SOL	
	Vapors	Commercial/	Carcinogenic	>SOL	>SOL		>SOL		>SOL	
	7.71-11.4	Industrial	Hazard			>SOL			>SOL	
		Residential	Carcinogenic	>SOL	>SOL		>SOL		>SOL	
Groundwater [mg/l]	Inhalation of Outdoor Air		Hazard			>SOL			>SOL	
	Vapors	Commercial/	Carcinogenic	>SOL	>SOL		>SOL		>SOL	
		Industrial	Hazard	8		>SOL			>SOL	
Ingestion of	Residential	Carcinogenic	2.0E-04	5.6E-04		5.6E-04	4.0E-03	8.0E-02		
			Hazard	2.0E-04		>SOL		4.0E-03	3.1E-01	>SOL
	Groundwater	Commercial/	Carcinogenic	2.0E-04	>SOL		>SOL	4.0E-03	>SOL	
		Industrial	Hazard	2.0E-04		>SOL		4.0E-03	>SOL	>SOL
Water Used for	Ingestion/	Residential	Carcinogenic	1.1E-05	1.1E-04		1.2E-04		>SOL	
Recreation [mg/l]	Dermal		Hazard			>SOL		2.0E+00	>SOL	>SOL

^{&#}x27;Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 8. Oakland Tier 2 SSTLs for Clayey Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Cadmium	Carbon Disulfide	Carbon Tetrachloride	Chloro- benzene	Chloroform	Chromium (III)	Chromium (VI)
	la acceptant	Residential	Carcinogenic	2.1E+04		1.2E+01	The second secon	6.2E+01		1.2E+01
Surficial Soil	Ingestion/ Dermal/	- Tooloomia	Hazard	3.6E+01	1.4E+03	2.6E+01	6.6E+02	3.7E+02	7.1E+04	3.6E+02
[mg/kg]	Inhalation	Commercial/	Carcinogenic	7.9E+04		3.3E+01		1.6E+02	,,	6.6E+01
		Industrial	Hazard	5.1E+02	6.5E+03	1.2E+02	3.1E+03	1.8E+03	1.0E+06	5.1E+03
		Residential	Carcinogenic			6.7E-01		9.3E+00		
	Inhalation of Indoor Air	1100000111101	Hazard		2.9E+00	1.1E+00	1.9E+00	3.5E+01		
	Vapors	Commercial/	Carcinogenic			1.1E+01		1.5E+02		
		Industrial	Hazard		8.4E+01	3.2E+01	5.5E+01	1.0E+03		
	1	Residential	Carcinogenic			6.1E+01		8.1E+02		
Subsurface Soil	Inhalation of Outdoor Air	TCSIGETHIAI	Hazard		3.1E+02	1.2E+02	2.1E+02	3.6E+03		
[mg/kg]	[mg/kg] Vapors	Commercial/	Carcinogenic			2.3E+02		3.1E+03		
		Industrial	Hazard		SAT	7.0E+02	SAT	SAT		
	Ingestion of Groundwater Impacted by Leachate	Residential	Carcinogenic	1.1E+00		5.9E-03	1.6E-01	3.4E-01		2.9E+00
			Hazard	1.1E+00	6.0E+00	5.9E-03	1.6E-01	3.4E-01	8.5E+07	2.9E+00
		Commercial/	Carcinogenic	1.1E+00		5.9E-03	1.6E-01	3.4E-01		2.9E+00
		Industrial	Hazard	1.1E+00	3.9E+01	5.9E-03	1.6E-01	3.4E-01	5.6E+08	2.9E+00
		Residential	Carcinogeníc			3.3E+00		3,1E+01		
	Inhalation of Indoor Air		Hazard	ii ur	2.6E+01	5.5E+00	5.5E+01	1.2E+02		
	Vapors	Commercial/	Carcinogenic			5.2E+01		5.0E+02		
		Industrial	Hazard		7.5E+02	1.6E+02	>SOL	3.4E+03		
		Residential	Carcinogenic			>SOL		>SOL		
roundwater [mg/l]	Inhalation of Outdoor Air	. 10012071221	Hazard		>SOL	>SOL	>SOL	>SOL		
	Vapors	Commercial/	Carcinogenic			>SOL		>SOL		
		Industrial	Hazard		>SOL	>SOL	>SOL	>SOL		
		Residential	Carcinogenic	5.0E-03		5.0E-04	7.0E-02	1.0E-01		5.0E-02
	Ingestion of		Hazard	5.0E-03	1.6E+00	5.0E-04	7.0E-02	1.0E-01	1.6E+01	5.0E-02
	Groundwater	Commercial/	Carcinogenic	5.0E-03		5.0E-04	7.0E-02	1.0E-01		5.0E-02
		Industrial	Hazard	5.0E-03	1.0E+01	5.0E-04	7.0E-02	1.0E-01	1.0E+02	5.0E-02
Water Used for	Ingestion/	Residential	Carcinogenic			4.1E-02		3.9E-01		6.8E-02
Recreation [mg/l] alicized concentrations b	Dermal		Hazard	2.0E-01	9.4E+00	7.1E-02	1.2E+00	1.9E+00	3.8E+02	1.9E+00

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL ≃ RBSL exceeds solubility of chemical in water

Table 8. Oakland Tier 2 SSTLs for Clayey Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Chrysene	Copper	Cresol(-m)	Cresol(-o)	Cresol(-p)	Cyanide	Dibenz(a,h)- anthracene
		Residential	Carcinogenic	1.7E+01	CONTRACTOR STREET	The state of the s	MONTH AND THE PARTY OF THE PART	process (MARINETT PROCESS)	24/10/24/10/02/1989	4.9E-01
Surficial Soil	Ingestion/ Dermal/		Hazard		2.6E+03	1.9E+03	1.9E+03	1.9E+02	2.8E+03	
[mg/kg]	Inhalation	Commercial/	Carcinogenic	4.3E+01						1.3E+00
		Industrial	Hazard		3.8E+04	9.2E+03	9.2E+03	9.2E+02	4.1E+04	
	Inhalation of	Residential	Carcinogenic	SAT				10.50		SAT
	Indoor Air		Hazard			SAT	SAT	SAT		
	Vapors	Commercial/	Carcinogenic	SAT						SAT
		Industrial	Hazard			SAT	SAT	SAT		
venero e recons	l-b-l-r	Residential	Carcinogenic	SAT	-					SAT
Subsurface Soil	Inhalation of Outdoor Air	Occupation of the Control of the Con	Hazard			SAT	SAT	5.1E+04		
[mg/kg]	Vapors	Commercial/	Carcinogenic	SAT						SAT
		Industrial	Hazard			SAT	SAT	SAT		
	Ingestion of Groundwater Impacted by Leachate	Residential	Carcinogenic	SAT	1.2E+00				6.2E+00	3.8E+01
			Hazard		1.2E+00	4.8E+00	5.0E+00	4.6E-01	6.2E+00	
		Commercial/	Carcinogenic	SAT	1.2E+00				6.2E+00	1.6E+02
		Industrial	Hazard		1.2E+00	3.2E+01	3.3E+01	3.0E+00	6.2E+00	
		Residential	Carcinogenic	>SOL						>SOL
	Inhalation of Indoor Air		Hazard			>SOL	>SOL	>SOL		
	Vapors	Commercial/	Carcinogenic	>SOL						>SOL
		Industrial	Hazard			>SOL	>SOL	>SOL		
	laska tatian ne	Residential	Carcinogenic	>SOL						>SOL
Froundwater [mg/l]	Inhalation of Outdoor Air		Hazard			>SOL	>SOL	>SOL		Who are a second and a second a
	Vapors	Commercial/	Carcinogenic	>SOL						>SOL
		Industrial	Hazard			>SOL	>SOL	>SOL		***************************************
		Residential	Carcinogenic	>SOL	1.3E+00				2.0E-01	1.6E-04
	Ingestion of		Hazard		1.3E+00	7.8E-01	7.8E-01	7.8E-02	2.0E-01	
	Groundwater	Commercial/	Carcinogenic	>SOL	1.3E+00				2.0E-01	7.0E-04
		Industrial	Hazard		1.3E+00	5.1E+00	5.1E+00	5.1E-01	2.0E-01	
Water Used for	Ingestion/ Dermal	Residential	Carcinogenic	>SOL						1.4E-05
Recreation [mg/l] alicized concentrations b	1.22.30.10.200.		Hazard		1.5E+01	6.7E+00	6.4E+00	5.9E-01	7.0E+00	

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SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 8. Oakland Tier 2 SSTLs for Clayey Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Dichloro- ethane (1,1-)	Dichloro- ethane (1,2-) (EDC)	Dichloro- ethylene (1,1-)	Dichloro- ethylene (cis 1,2-)	Dichloro- ethene (trans 1,2)	Dimethylbenza- (a)anthracene (7,12
		Residential	Carcinogenic	3.3E+02	2.7E+01	3.3E+00			
Surficial Soil	Ingestion/ Dermal/		Hazard	3.8E+03	1.1E+02	3.3E+02	3.7E+02	7.4E+02	1.2E+03
[mg/kg]	Inhalation	Commercial/	Carcinogenic	8.7E+02	7.1E+01	8.5E+00			
		Industrial	Hazard	1.8E+04	5.1E+02	1.6E+03	1.8E+03	3.5E+03	5.6E+03
		Residential	Carcinogenic	2.4E+01	5.4E+00	2.3E-01			
	Inhalation of Indoor Air		Hazard	3.8E+02	2.1E+01	7.2E+00	4.0E+01	4.9E+01	
	Vapors	Commercial/	Carcinogenic	3.9E+02	8.6E+01	3.6E+00			
		Industrial	Hazard	SAT	6.2E+02	2.1E+02	1.2E+03	1.4E+03	
Managan Residence		Residential	Carcinogenic	2.1E+03	4.2E+02	2.1E+01			
Subsurface Soil	Inhalation of Outdoor Air		Hazard	SAT	2.0E+03	7.8E+02	SAT	5,2E+03	
[mg/kg]	Vapors	Commercial/	Carcinogenic	SAT	1.6E+03	7.8E+01			
L		Industrial	Hazard	SAT	SAT	SAT	SAT	SAT	
	Ingestion of	Residential Commercial/ Industrial	Carcinogenic	1.4E-02	9.9E-04	2.8E-02	1.9E-02	4.2E-02	
	Groundwater		Hazard	1.4E-02	9.9E-04	2.8E-02	1.9E-02	4.2E-02	SAT
	Impacted by Leachate		Carcinogenic	1.4E-02	9.9E-04	2.8E-02	1.9E-02	4.2E-02	
			Hazard	1.4E-02	9.9E-04	2.8E-02	1.9E-02	4.2E-02	SAT
		Residential	Carcinogenic	9.8E+01	1.5E+01	2.3E+00			
	Inhalation of Indoor Air		Hazard	1.5E+03	6.0E+01	7.5E+01	1.2E+02	1.8E+02	
	Vapors	Commercial/	Carcinogenic	1.6E+03	2.4E+02	3.7E+01			
		Industrial	Hazard	>SOL	1.7E+03	2.2E+03	3.4E+03	5.1E+03	
		Residential	Carcinogenic	>SOL	3.5E+03	9.4E+02			
Groundwater [mg/l]	Inhalation of Outdoor Air		Hazard	>SOL	>SOL	>SOL	>SOL	>SOL	
	Vapors	Commercial/	Carcinogenic	>SOL	>SOL	>SOL			
		Industrial	Hazard	>SOL	>SOL	>SOL	>SOL	>SOL	
1 0		Residential	Carcinogenic	5.0E-03	5.0E-04	6.0E-03	6.0E-03	1.0E-02	
	Ingestion of		Hazard	5.0E-03	5.0E-04	6.0E-03	6.0E-03	1.0E-02	>SOL
	Groundwater	Commercial/	Carcinogenic	5.0E-03	5.0E-04	6.0E-03	6.0E-03	1.0E-02	
		Industrial	Hazard	5.0E-03	5.0E-04	6.0E-03	6.0E-03	1.0E-02	>SOL
Water Used for	Ingestion/	Residential	Carcinogenic	2.1E+00	2.4E-01	1.3E-02			
Recreation [mg/l]	Dermal		Hazard	1.9E+01	7.2E-01	1.2E+00	1.8E+00	3.5E+00	>SOL

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 8. Oakland Tier 2 SSTLs for Clayey Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Dimethyl- phenol (2,4)	di-n-Butyl- phthalate	di-n-octyl phthalate	Dinitro- toluene (2,4)	Dioxane (1,4)	Ethyl- benzene	Ethylene Dibromide	Flouran- thene
	tagaatina (Residential	Carcinogenic	****			6.3E+00	7.0E+01		5.5E-01	THE SUSPENCE
Surficial Soil	Ingestion/ Dermal/		Hazard	7.7E+02	3.9E+03	7.8E+02			3.9E+03	2.2E+00	1.6E+03
[mg/kg]	Inhalation	Commercial/	Carcinogenic				1.7E+01	1.8E+02		1.4E+00	
		Industrial	Hazard	3.7E+03	1.9E+04	3.7E+03			1.8E+04	1.0E+01	7.4E+03
		Residential	Carcinogenic				SAT	SAT		7.5E+00	
	Inhalation of Indoor Air		Hazard	SAT	SAT	SAT			SAT	2.1E+00	SAT
	Vapors	Commercial/	Carcinogenic				SAT	SAT		1.2E+02	
		Industrial	Hazard	SAT	SAT	SAT			SAT	6.1E+01	SAT
	Ű.	Residential	Carcinogenic				SAT	SAT		4,5E+02	
Subsurface Soil	Inhalation of Outdoor Air	redicertial	Hazard	SAT	SAT	SAT			SAT	1.5E+02	SAT
[mg/kg]	Vapors	Commercial/	Carcinogenic	ne M			SAT	SAT		1.7E+03	
		Industrial	Hazard	SAT	SAT	SAT			SAT	8.7E+02	SAT
	Ingestion of	Residential	Carcinogenic				1.5E-02	SAT	1.6E+01	1.8E-04	
	Groundwater	resoluciniai	Hazard	4.3E+00	7.9E+06	SAT			1.6E+01	1.8E-04	SAT
	Impacted by Leachate	Commercial/	Carcinogenic				6.2E-02	SAT	1.6E+01	1.8E-04	<u> </u>
	Loadilate	Industrial	Hazard	2.8E+01	SAT	SAT			1.6E+01	1.8E-04	SAT
		Residential	Carcinogenic				>SOL	>\$OL		8.5E+00	
	Inhalation of Indoor Air	residential	Hazard	>SOL	>SOL	>SOL			>SOL	2.4E+00	>SOL
	Vapors	Commercial/	Carcinogenic	10 10			>SOL	>SOL		1.4E+02	
		Industrial	Hazard	>SOL	>SOL	>SOL			>SOL	6.9E+01	>SOL
	8	Residential	Carcinogenic				>SOL	>SOL		1.3E+03	
Froundwater [mg/l]	Inhalation of Outdoor Air	residential	Hazard	>SOL	>SOL	>SOL			>SOL	4.3E+02	>SOL
g	Vapors	Commercial/	Carcinogenic				>SOL	>SOL	-	>SOL	
		Industrial	Hazard	>SOL	>SOL	>SOL			>SOL	2.5E+03	>SOL
		Residential	Carcinogenic				2.2E-03	>SOL	7.0E-01	5.0E-05	
1 *	Ingestion of	. Noncontial	Hazard	3.1E-01	1.6E+00	>SOL			7.0E-01	5.0E-05	>SOL
Groundwater	Commercial/	Carcinogenic				9.2E-03	>SOL	7.0E-01	5.0E-05		
		Industrial	Hazard	2.0E+00	1.0E+01	>SOL			7.0E-01	5.0E-05	>SOL
Water Used for	Ingestion/	Residential	Carcinogenic				6.4E-02	>SOL		5.9E-03	
Recreation [mg/l]	Dermal		Hazard	2.7E+00	7.3E+00	2.1E-03			3.6E+00	1.7E-02	>SOL

Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 8. Oakland Tier 2 SSTLs for Clayey Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Fluorene	Indeno- (1,2,3-CD)- pyrene	Mercury	Methanol	Methyl ethyl ketone	Methylene Chloride	Methyl- napthalene (2-)	MTBE
	Ingostion/	Residential	Carcinogenic		1.7E+00				1.4E+02	NET AND DESCRIPTION OF THE PARTY OF THE PART	155445 (1G) 1989C
Surficial Soil	Ingestion/ Dermal/		Hazard	1.6E+03		3.9E+00	1.9E+04	2.2E+04	2.3E+03	1.6E+03	2.0E+02
[mg/kg]	Inhalation	Commercial/	Carcinogenic		4.3E+00				3.7E+02		
		Industrial	Hazard	7.4E+03		1.8E+01	8.9E+04	1.0E+05	1.1E+04	7.4E+03	9.3E+02
	labalatian of	Residential	Carcinogenic		SAT				4.2E+01		
	Inhalation of Indoor Air		Hazard	SAT		1.5E+01	1.9E+05	2.4E+04	2.5E+03	SAT	1.4E+04
	Vapors	Commercial/	Carcinogenic		SAT				6.7E+02		
		Industrial	Hazard	SAT			SAT	SAT	SAT	SAT	SAT
20 2 6 8	labalatiat	Residential	Carcinogenic		SAT				3.5E+03		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Subsurface Soil	Inhalation of Outdoor Air		Hazard	SAT		1.6E+03	SAT	SAT	SAT	SAT	SAT
[mg/kg]	Vapors	Commercial/	Carcinogenic		SAT				SAT		
		Industrial	Hazard	SAT		9.4E+03	SAT	SAT	SAT	SAT	SAT
	Ingestion of	Residential	Carcinogenic		SAT	3.2E-01			8.2E-03		2.1E-02
	Groundwater		Hazard	5.2E+02		3.2E-01	7.1E+00	1.1E+01	8.2E-03	3.2E+02	2.1E-02
	Impacted by Leachate	Commercial/	Carcinogenic		SAT	3.2E-01			8.2E-03		2.1E-02
		Industrial	Hazard	SAT		3.2E-01	4.7E+01	7.3E+01	8.2E-03	2.1E+03	2.1E-02
	for the state of	Residential	Carcinogenic		>SOL				1.9E+02		
	Inhalation of Indoor Air		Hazard	>SOL		1.4E+00	6.4E+05	6.5E+04	1.1E+04	>SOL	3.6E+04
	Vapors	Commercial/	Carcinogenic		>SOL				3.0E+03		
		Industrial	Hazard	>SOL		4.1E+01	>SOL	>SOL	>SOL	>SOL	>SOL
	1.1.1.0	Residential	Carcinogenic		>SOL				>SOL		
Groundwater [mg/l]	Inhalation of Outdoor Air		Hazard	>SOL		6.0E+02	>SOL	>SOL	>SOL	>SOL	>SOL
	Vapors	Commercial/	Carcinogenic		>SOL				>SOL		
		Industrial	Hazard	>SOL		3.5E+03	>SOL	>SOL	>SOL	>SOL	>SOL
Ingestion of Groundwater		Residential	Carcinogenic		>SOL	2.0E-03			5.0E-03		1.3E-02
			Hazard	6.3E-01		2.0E-03	7.8E+00	9.4E+00	5.0E-03	6.3E-01	1.3E-02
	Commercial/	Carcinogenic		>SOL	2.0E-03			5.0E-03		1.3E-02	
		Industrial	Hazard	>SOL		2.0E-03	5.1E+01	6.1E+01	5.0E-03	4.1E+00	1.3E-02
Water Used for	Ingestion/	Residential	Carcinogenic		>SOL				1.3E+00		
Recreation [mg/l] talicized concentrations b	Dermal	52	Hazard	3.1E-01		3.6E-02	2.2E+02	1.5E+02	1.6E+01	6.1E-01	1.5E+00

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 8. Oakland Tier 2 SSTLs for Clayey Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Naphthalene	Nickel	Nitro- benzene	PCBs	Phenan- threne	Phenol	Pyrene	Pyridine	Selenium
	Innesticut	Residential	Carcinogenic		3.4E+05	3.7E+03	3.6E-01		美国一股市场的	er all markers	2.0E+03	WWW.Salayorks
Surficial Soil	Ingestion/ Dermal/		Hazard	1.6E+03	1.4E+03		9.8E-01	1.2E+04	2.3E+04	1.2E+03		3.6E+02
[mg/kg]	Inhalation	Commercial/	Carcinogenic		1.3E+06	9.9E+03	1.1E+00				5.1E+03	
		Industrial	Hazard	7.4E+03	2.0E+04		5.8E+00	5.6E+04	1.1E+05	5.6E+03		5.1E+03
		Residential	Carcinogenic	1000000		SAT	1.6E+03				6.6E+04	
	Inhalation of Indoor Air		Hazard	SAT			SAT	SAT	SAT	SAT		
	Vapors	Commercial/	Carcinogenic	Ŋ.		SAT	SAT				1.1E+06	
		Industrial	Hazard	SAT			SAT	SAT	SAT	SAT		
		Residential	Carcinogenic			SAT	SAT				3.9E+05	
Subsurface Soil	Inhalation of Outdoor Air	110010011801	Hazard	SAT			SAT	SAT	SAT	SAT		
[mg/kg]	Vapors	Commercial/	Carcinogenic			SAT	SAT				SAT	
	Industrial	Hazard	SAT			SAT	SAT	SAT	SAT			
	Ingestion of	Residential	Carcinogenic	2.4E+00	2.0E+01	6.5E+00	9.4E+00				2.8E+00	8.0E-01
	Groundwater		Hazard	2.4E+00	2.0E+01		9.4E+00	SAT	2.5E+01	SAT		8.0E-01
	Impacted by Leachate	Commercial/ Industrial	Carcinogenic	2.4E+00	2.0E+01	2.8E+01	9.4E+00				1.2E+01	8.0E-01
			Hazard	2.4E+00	2.0E+01		9.4E+00	SAT	1.6E+02	SAT		8.0E-01
		Residential	Carcinogenic			>SOL	3.2E-01				4.9E+04	
	Inhalation of Indoor Air	residential	Hazard	>SOL			>SOL	>SOL	>SOL	>SOL		
	Vapors	Commercial/	Carcinogenic			>SOL	>SOL				7.8E+05	
		Industrial	Hazard	>SOL			>SOL	>SOL	>SOL	>SOL		
		Residential	Carcinogenic	~		>SOL	>SOL				6.6E+05	
Froundwater [mg/l]	Inhalation of Outdoor Air		Hazard	>SOL			>SOL	>SOL	>SOL	>SOL		
	Vapors	Commercial/	Carcinogenic			>SOL	>SOL				>SOL	
		Industrial	Hazard	>SOL			>SOL	>SOL	>SOL	>SOL	***************************************	
		Residential	Carcinogenic	2.0E-02	1.0E-01	1.3E+00	5.0E-04				6.7E-01	5.0E-02
Ingestion of		Hazard	2.0E-02	1.0E-01		5.0E-04	>SOL	9.4E+00	>SOL		5.0E-02	
Groundwater	Commercial/	Carcinogenic	2.0E-02	1.0E-01	5.7E+00	5.0E-04				2.9E+00	5.0E-02	
		Industrial	Hazard	2.0E-02	1.0E-01		5.0E-04	>SOL	6.1E+01	>SOL		5.0E-02
Water Used for	Ingestion/	Residential	Carcinogenic			2.8E+01	1.6E-05				2.6E+01	
Recreation [mg/l]	Dermal		Hazard	1.5E+00	7.9E+00		4.4E-05	>SOL	1.5E+02	>SOL		2.0E+00

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 8. Oakland Tier 2 SSTLs for Clayey Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Silver	Stryene	Tetrachloro- ethane (1,1,2,2 -)	Tetrachloro- ethylene (PCE)	Tetraethyl Lead	Toluene	Trichloro- ethane (1,1,1-)	Trichloro- ethane (1,1,2-)
_	Ingestion	Residential	Carcinogenic			7.2E+00	3.8E+01			THE RESIDENCE OF THE PARTY OF T	2.7E+01
Surficial Soil	Ingestion/ Dermal/		Hazard	3.6E+02	7.7E+03	1.0E+03	3.7E+02	3.9E-03	7.1E+03	1.4E+03	1.5E+02
[mg/kg]	Inhalation	Commercial/	Carcinogenic			1.9E+01	1.0E+02				7.0E+01
		Industrial	Hazard	5.1E+03	3.7E+04	4.7E+03	1.8E+03	1.9E-02	3.4E+04	6.5E+03	7.2E+02
i i	Inholetian of	Residential	Carcinogenic			1.8E+01	7.6E+00				1.5E+01
	Inhalation of Indoor Air		Hazard		SAT	2.5E+03	3.1E+01		9.3E+02	6.6E+02	8.4E+01
	Vapors	Commercial/	Carcinogenic			2.9E+02	1.2E+02				2.4E+02
		Industrial	Hazard		SAT	SAT	SAT		SAT	SAT	2.4E+03
		Residential	Carcinogenic			1.0E+03	6.9E+02				1.1E+03
Subsurface Soil	Inhalation of Outdoor Air		Hazard		SAT	SAT	SAT		SAT	SAT	SAT
[mg/kg]	Vapors	Commercial/	Carcinogenic			3.9E+03	SAT				4.2E+03
		Industrial	Hazard	i L	SAT	SAT	SAT		SAT	SAT	SAT
	Ingestion of	Residential	Carcinogenic	2.6E+00	4.8E+00	6.6E-03	5.2E-02	4.6E+00	1.8E+00	1.5E+00	2.0E-02
	Groundwater		Hazard	2.6E+00	4.8E+00	6.6E-03	5.2E-02	4.6E+00	1.8E+00	1.5E+00	2.0E-02
	Impacted by Leachate	Commercial/	Carcinogenic	2.6E+00	4.8E+00	6.6E-03	5.2E-02	4.6E+00	1.8E+00	1.5E+00	2.0E-02
		Industrial	Hazard	2.6E+00	4.8E+00	6.6E-03	5.2E-02	4.6E+00	1.8E+00	1.5E+00	2.0E-02
		Residential	Carcinogenic			1.1E+01	2.6E+01				1.9E+01
	Inhalation of Indoor Air		Hazard		>SOL	1.5E+03	1.1E+02		>SOL	>SOL	1.1E+02
i	Vapors	Commercial/	Carcinogenic			1.7E+02	>SOL				3.0E+02
		Industrial	Hazard		>SOL	>SOL	>SOL		>SOL	>SOL	3.1E+03
		Residential	Carcinogenic			1.5E+03	>SOL				4.0E+03
Groundwater [mg/l]	Inhalation of Outdoor Air		Hazard		>SOL	>SOL	>SOL		>SOL	>SOL	>SOL
	Vapors	Commercial/	Carcinogenic			>SOL	>SOL				>SOL
		Industrial	Hazard		>SOL	>SOL	>SOL		>SOL	>SOL	>SOL
Ingestion of Groundwater	Residential	Carcinogenic	1.0E-01	1.0E-01	1.0E-03	5.0E-03	1.5E-02	1.5E-01	2.0E-01	5.0E-03	
			Hazard	1.0E-01	1.0E-01	1.0E-03	5.0E-03	1.5E-02	1.5E-01	2.0E-01	5.0E-03
	Commercial/	Carcinogenic	1.0E-01	1.0E-01	1.0E-03	5.0E-03	1.5E-02	1.5E-01	2.0E-01	5.0E-03	
		Industrial	Hazard	1.0E-01	1.0E-01	1.0E-03	5.0E-03	1.5E-02	1.5E-01	2.0E-01	5.0E-03
Water Used for	Ingestion/	Residential	Carcinogenic			4.5E-02	6.0E-02				1.8E-01
Recreation [mg/l]	Dermal		Hazard	2.1E+00	9.3E+00	4.9E+00	5.3E-01	6.7E-06	1.1E+01	4.3E+00	7.8E-01

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water

Table 8. Oakland Tier 2 SSTLs for Clayey Silts

Medium	Exposure Pathway	Land Use	Type of Risk	Trichloro- ethylene (TCE)	Vanadium	Vinyl Chloride	Xylenes	Zinc
	Innesties/	Residential	Carcinogenic	1.3E+02		3.5E+00	Section 1975	THE THIRD OF
Surficial Soil	Ingestion/ Dermal/		Hazard	2.2E+02	5.0E+02		5.3E+04	2.1E+0
[mg/kg]	Inhalation	Commercial/	Carcinogenic	3.3E+02		9.1E+00		
		Industrial	Hazard	1.1E+03	7.2E+03		2.6E+05	3.1E+0
		Residential	Carcinogenic	2.7E+01		3.0E-02		
	Inhalation of Indoor Air		Hazard	3.2E+01			SAT	
	Vapors	Commercial/	Carcinogenic	4.4E+02		4.8E-01		
		Industrial	Hazard	9.3E+02			SAT	
	****	Residential	Carcinogenic	2.5E+03		2.7E+00		
Subsurface Soil	Inhalation of Outdoor Air	residential	Hazard	3.4E+03			SAT	
[mg/kg]	Vapors	Commercial/	Carcinogenic	SAT		1.0E+01		
		Industrial	Hazard	SAT			SAT	
	Ingestion of Groundwater Impacted by Leachate	Residential	Carcinogenic	5.5E-02		1.1E-03	2.7E+01	
			Hazard	5.5E-02	3.3E+02	1.1E-03	2.7E+01	8.9E+0
		Commercial/ Industrial	Carcinogenic	5.5E-02		1.1E-03	2.7E+01	0.02.10
			Hazard	5.5E-02	2.2E+03	1.1E-03	2.7E+01	5.8E+0
		Residential	Carcinogenic	5.4E+01		6.6E-01		
	Inhalation of Indoor Air	Residential	Hazard	6.3E+01			>SOL	
	Vapors	Commercial/	Carcinogenic	8.6E+02		1.0E+01	- 002	
1		Industrial	Hazard	>SOL			>SOL	
		Residential	Carcinogenic	>SOL		2.7E+02	- 552	
Froundwater [mg/l]	Inhalation of Outdoor Air	residential	Hazard	>SOL			>SOL	
,	Vapors	Commercial/	Carcinogenic	>SOL		1.0E+03		
		Industrial	Hazard	>SOL			>SOL	
		Residential	Carcinogenic	5.0E-03		5.0E-04	1.8E+00	
	Ingestion of		Hazard	5.0E-03	1.1E-01	5.0E-04	1.8E+00	4.7E+00
	Groundwater	Commercial/	Carcinogenic	5.0E-03		5.0E-04	1.8E+00	
		Industrial	Hazard	5.0E-03	7.2E-01	5.0E-04	1.8E+00	3.1E+01
Water Used for	Ingestion/	Residential	Carcinogenic	4.6E-02		2.6E-02		
Recreation [mg/l]	Dermal	coldential	Hazard	7.2E-02	2.8E+00		6.6E+01	1.2E+02

SAT = RBSL exceeds saturated soil concentration of chemical

>SOL = RBSL exceeds solubility of chemical in water