# SCS ENGINEERS















### Phase I Environmental Site Assessment

Assessor's Parcel Numbers 395-250-08, -09, -15, and -22 and 398-110-09, -10, and -75 14109, 14135, and 14173 Olde Highway 80, and 14207 Rios Canyon Road El Cajon, California

**Record ID:** PDS2014-GPA-14-005; PDS2014-REZ-14-004; PDS2014-TM-5590; PDS2014-STP-14-019; PDS2014-MUP-15-004

Environmental Log No.: PDS2014-ER-14-14013

Presented to:

#### SOUTH COAST DEVELOPMENT, LLC

PO Box 1053 Solana Beach, California 92075 (858) 720-6675

Presented by:

#### SCS ENGINEERS

8799 Balboa Avenue, Suite 290 San Diego, California 92123 (858) 571-5500

June 24, 2014 Project Number: 01205547.04

Offices Nationwide www.scsengineers.com

June 24, 2014

**Project Number: 01205547.04** 

Mr. Keith Gregory South Coast Development, LLC PO Box 1053 Solana Beach, California 92075

Subject: Phase I Environmental Site Assessment (Assessment)

Site: Assessor's Parcel Numbers 395-250-08, -09, -15, and -22 and 398-110-09, -10,

and -75

14109, 14135, and 14173 Olde Highway 80 and 14207 Rios Canyon Road

El Cajon, California

Dear Mr. Gregory:

SCS Engineers (SCS) is pleased to present this report (Report) of the Assessment of the above-described Site. This Report summarizes the results of the Assessment that was conducted in order to evaluate the Site's current environmental conditions. The work described in this Report was performed by SCS in general accordance with Exhibit 04 to the Professional Services Contract (Contract) between SCS and South Coast Development, LLC. Exhibit 04 was executed on May 23, 2014 and the Contract was executed on November 9, 2005.

Because your full understanding of the Assessment is important to us, we recommend that you read the Report in its entirety. However, if time does not allow you a complete reading, summaries may be found in text boxes at the end of each section, and within our conclusion and recommendation. A glossary of terms commonly used in environmental assessments is also provided as an Appendix to this Report.

SCS enjoyed working with you on this project. Providing economical environmental solutions to meet your needs is more than our goal—it is our mission and the measure of our success. If we may assist you in any way, now or in the future, please do not hesitate to call our office at (858) 571-5500.

Sincerely,

Harry Bishop, PE Project Professional

**SCS ENGINEERS** 

Luke Montague, MESM, PG 8071

Senior Project Professional

**SCS ENGINEERS** 

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#### 1 BACKGROUND

Based on conversations with South Coast Development, LLC (Client), and a review of in-house databases, SCS Engineers (SCS) understands that the site consists of approximately 13.05 acres of land with addresses of 14109, 14135, and 14173 Olde Highway 80 and 14207 Rios Canyon Road, El Cajon, California (Site).

SCS understands that the Client is proposing to purchase and develop the above-referenced Site into an approximately 76,100-square-foot shopping center (Lake Jennings Market Place) with slab-on-grade construction. The Client stated that no soil export is planned. The portion of Pecan Park Lane between Olde Highway 80 and Rios Canyon Road that transects the Site will reportedly be closed and included in the proposed shopping center.

A review of our in-house ParcelQuest database of information from the County of San Diego Assessor's Office and conversations with the Client indicated the following in connection with the Site:

Assessor's Parcel			
Number (APN)	Address	Area	Description
395-250-08	None	0.30acres	Vacant land
395-250-09	14135 Olde Highway 80	0.80 acres	Vacant land
395-250-15	14173 Olde Highway 80	0.45 acres	Vacant Single-family residence (SFR)
395-250-22	None	0.60 acres	Vacant land
398-110-09	14109 Olde Highway 80	5.40 acres	Vacant SFR
398-110-10	14207 Rios Canyon Road	4.50 acres	Vacant land
398-110-75	None	1.00 acres	Vacant land

## 2 STANDARDS BACKGROUND

This Assessment was conducted in general accordance with the following:

- U.S. Environmental Protection Agency (EPA), 40 Code of Federal Regulations (CFR) Part 312, Standards and Practices for All Appropriate Inquiries; Final Rule (AAI).
- American Society for Testing and Materials (ASTM) Standard Practice for Phase I Environmental Site Assessment Process E1527-13.
- The scope, conditions, and limitations of Exhibit 04 and the Contract.

The Client understands that the above-referenced EPA and ASTM standards were not developed to identify all environmental risk to property. The standards were developed to allow a user (Client) to qualify for the innocent purchaser defense, bona fide prospective purchaser defense, and contiguous property owner defense to the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA, a.k.a Superfund) liability. This Assessment is intended to constitute an appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice, as part of the due diligence

process required by CERCLA, the Superfund Amendments and Reauthorization Act of 1986, and the Small Business Liability Relief and Brownfields Revitalization Act of 2002 (collectively, Acts).

While this Assessment may initially qualify the Client for a CERCLA defense, after purchase, there may be "continuing obligations" that must be implemented in order to preserve this defense through the term of property ownership. There may be additional requirements under state law that also apply. The Client should contact qualified legal counsel regarding matters of liability, interpretation of the Acts, and potential continuing obligations. While it is outside the scope of this Assessment, SCS would be pleased to work with your legal counsel to develop and implement a strategy to preserve your CERCLA liability defenses through the term of your ownership.

This Assessment focused on potential sources of hazardous substances and petroleum products that could be considered a recognized environmental condition<sup>1</sup> and liability due to their presence in significant concentrations (e.g., above acceptable limits set by the federal, state, or local government) or due to the potential for exposure and risk due to contaminant migration and complete exposure pathways (e.g., soil vapor inhalation or groundwater ingestion). Materials that contain substances that are not currently deemed hazardous by the EPA or the California Environmental Protection Agency were not considered as part of this Assessment.

Unless specifically included in SCS' scope of services, building materials such as asbestos, lead-based paint, urea formaldehyde, and pressure-treated lumber, as well as lead in drinking water, are not considered in this Assessment, nor are building issues such as fire safety, indoor air quality (with the possible exception of vapor intrusion), mold, or similar matters. SCS did not evaluate the Site for compliance with land use, zoning, wetlands, or similar laws. This Assessment also excludes regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, and high-voltage power lines. This Assessment is not intended to be an environmental compliance audit.

Hazardous substances occurring naturally in plants, soils, and rocks (e.g., heavy metals, naturally occurring asbestos, and radon) are not typically considered in these investigations. Similarly, construction debris (e.g., discarded concrete, asphalt) is not considered, unless obvious indications suggest that hazardous substances are likely to be present in significant concentrations or likely to migrate.

An evaluation of business environmental risk associated with a parcel of commercial real estate may necessitate investigation beyond that included herein.

1

minimis is not a recognized environmental condition.

<sup>&</sup>lt;sup>1</sup> Recognized environmental conditions, as defined by ASTM, include the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. However, the term is not intended to include *de minimis* conditions (a condition that generally present a threat to human health or the environment and that generally would not be subject to an enforcement action if brought to the attention of appropriate governmental agencies). A condition considered de

#### 3 OBJECTIVE

The objective of the scope of services was to assess the likelihood<sup>2</sup> that recognized environmental conditions are present at the Site as a result of the current or historical Site land use or from a known and reported off-Site source.

#### 4 SCOPE OF SERVICES

The scope of services designed and conducted to meet the objective was as follows:

- Site Reconnaissance, Site Research, Interviews, and User Requirements
- Topography, Geology, Hydrogeology, and Water Quality Survey
- Site Vicinity Reconnaissance and Off-Site Source Survey
- Historical Site and Site Vicinity Land Use Review
- Identification of Data Gaps
- ata Evaluation, Figure Preparation, and Assessment Report Preparation

#### SITE RECONNAISSANCE

On May 29, 2014, SCS personnel conducted a Site reconnaissance to observe and document existing Site conditions. The general Site location is shown in Figure 1, and a Site and Site vicinity plan is shown in Figure 2. Selected color photographs of the Site and Site vicinity are presented as Figures 3a through 3i.

The Site grounds and Site perimeter were systematically traversed on foot during the Site reconnaissance.

#### **General Information**

The following table summarizes general information in connection with the Site:

APNs	395-250-08, -09, -15, and -22 and 398-110-09, -10, and -75
Address	14109, 14135, and 14173 Olde Highway 80 and 14207 Rios Canyon Road, El Cajon, California
Area	13.05 acres
Site Land Use	Vacant SFRs and vacant land
Occupants	None

<sup>&</sup>lt;sup>2</sup> Statements of "likelihood" are made in this Assessment, based on the professional judgment of SCS. A description of likelihood statements, as made in this Assessment, is included in the "Likelihood Statements" section.

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Figure Reference	Figures 2 and 3a-1 through 3f-1 (for Site only)
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#### Site Buildings

The following tables summarize information in connection with the Site buildings.

Number of Buildings	Two
Interpreted Construction Dates	1920 and 1950
Number of Stories	One
Construction Type	Wood-frame, wood and stucco-covered walls, and concrete slab-on grade foundations
Figure Reference	Figure 2 and Figures 3a-1 to 3f-1

Two SFRs and detached garages/sheds with addresses of 14109 and 14173 Olde Highway 80 were observed to be located adjacent (south) of Olde Highway 80 (Figures 2, 3b-1, 3b-2, 3e-2, and 3f-1). The buildings were observed to be in poor condition with broken walls and debris-covered floors.

#### Site Grounds

The Site grounds were observed to be vacant land covered with natural vegetation. A storm culvert beneath Olde Highway 80 was observed adjacent to the northern edge of the Site perimeter. A 55-gallon plastic drum containing an unknown liquid was observed on the Site near the intersection of Pecan Park Lane and Rios Canyon Road (Figure 3c-2) and piles of construction debris were observed near the western Site building (Figure 3e-1). The debris appeared to be confined to the surface and there was no observed evidence of waste burial. No obvious indications of the presence of hazardous substances or petroleum products were observed in and around the inspected debris and no indications of a release from the plastic drum were observed. Therefore, there is a low likelihood that the debris and/or drum at the Site represent a recognized environmental condition. However, SCS recommends that they be removed from the Site for disposal in accordance with applicable requirements. A natural drainage feature (Los Coches Creek) was observed to be located adjacent to the south perimeter of the Site.

#### Hazardous Materials/Petroleum Products

Hazardous materials and petroleum products were not observed to be used or stored at the Site.

#### Hazardous Wastes

No obvious indications of the generation of hazardous wastes were observed at the Site during the Site reconnaissance.

# Indications of Releases of Hazardous Materials/Wastes or Petroleum Products

Indications of releases of hazardous materials/wastes or petroleum products were not noted during the Site reconnaissance.

#### On-Site Utilities

Gas and Electricity	San Diego Gas & Electric (SDG&E)
High-Power Transmission Lines	None observed
Storm Drains	None
Source of Heating and Cooling	SDG&E
Potable Water Source	Reported to be supplied by the Padre Dam Water District
Wastewater Conveyance	Reported to be provided by the Lakeside Sanitation District

One pole-mounted SDG&E transformer was observed to be located adjacent to the south perimeter of the Site. SDG&E was contacted regarding the possibility of polychlorinated biphenyls (PCBs) being present in transformers purchased by them. SDG&E reported that they have never specified PCBs in their transformers. A copy of a letter from SDG&E explaining this and their policy on testing for PCBs is included in the Appendices. No high-power transmission lines were observed above or adjacent to the Site. Based on the Site reconnaissance, the source of energy for heating and cooling at the Site is interpreted to be SDG&E.

With the exception of the plastic drum discussed in the Site Grounds section above, no obvious indications of wells, cisterns, pits, sumps, dry wells, or bulk storage tanks were observed at the Site. No septic tanks were observed during the Site reconnaissance; however, based on the rural location of the Site and the reported age of the Site buildings, septic tanks are interpreted to likely be present in the vicinity of the Site buildings. Possible environmental concerns with septic tank systems are that, to the extent they are used for other than domestic waste purposes (i.e., chemicals releases as waste water), they may act as a conduit for hazardous materials, petroleum products, and/or hazardous wastes to be released into the soil and possibly groundwater. Based on the interpreted domestic nature of the septic tank systems (associated with residential structures), there is a low likelihood that the septic tank system (if present) represents a recognized environmental condition.

If the Site is ever redeveloped, and a septic system does in fact exist at the Site, SCS recommends that the septic system be properly abandoned prior to Site redevelopment in accordance with applicable local laws and regulations.

## Potential Asbestos-Containing Materials (ACMs)

During the Site visit, SCS personnel conducted a visual assessment of the readily available/ observable materials at the Site for potential ACMs. Potential ACMs observed at the Site included, but may not be limited to, sheet vinyl flooring material and mastic, vinyl composition tiles and mastic, drywall and joint compound, roofing materials, exterior stucco, etc. However, to quantify the asbestos content in a potential ACM, polarized light microscopy or another approved technique would have to be employed.

Based on the reported date of construction of these Site buildings (1920 and 1950), in general accordance with 29 CFR, surfacing materials (such as fireproofing and sprayed-on acoustic ceilings material) and thermal system insulation must be presumed to contain asbestos if installed in structures prior to 1981, unless sampling and laboratory analysis have determined that these are not asbestos-containing. Based on the age of the Site buildings, there is the potential for both friable and non-friable ACMs to be present at the Site.

SCS understands that the current Site buildings are proposed to be demolished. Based on the reported date of construction for the Site buildings (1920 and 1950), we recommend performing an asbestos and lead-based paint survey at the Site prior to demolition. Although the SFR reportedly constructed in 1920 may have been built before asbestos was commonly used, subsequent remodeling may have incorporated ACM. To comply with local requirements and regulations, and the EPA's National Emissions Standards for Hazardous Air Pollutants 40 CFR 61, Sub-part M, Section 61.145, Standards for Demolition and Renovation, all affected ACMs shall be removed from a building prior to demolition. This should be done by a licensed and qualified asbestos contractor in accordance with the EPA's Asbestos Hazard Emergency Response Act protocols. If ACMs are found to be present, we strongly recommend the Site owner(s) retain a third party company, reporting directly to the owner(s), to monitor the performance of the selected abatement contractor and the quality of work, and to "clear" the spaces upon completion of the abatement. In addition, bidding specifications should be prepared which provide performance standards for abatement conditions.

#### SITE RESEARCH

#### Regulatory Records Review

The County of San Diego Department of Environmental Health (DEH) was contacted<sup>ii</sup> and indicated that there are no regulatory files associated with the Site. A copy of the DEH response is included in the Appendices.

#### Fire Department Records Review

The City of Lakeside Fire Department (LSFD) was contacted regarding hazardous materials/waste or underground storage tank (UST) records for the Site<sup>iii</sup>. The LSFD reported that they have no files for the Site.

#### **Building Department Records Review**

The San Diego County Building Department (SDCBD) was contacted regarding building department records for the Site<sup>iv</sup>. The SDCBD reported that they had no records for the Site.

#### INTERVIEWS

The previously referenced EPA and ASTM standards require that attempts be made to conduct interviews with past and present owners and occupants of the Site to obtain information indicating recognized environmental conditions in connection with the Site. As part of this

Assessment, the following contacts were either interviewed, or attempts were made to conduct interviews.

Contact	Affiliation to Site	Description
Mr. Keith Gregory	Owner/Client	See User Requirements section below

Mr. Gregory stated that his company (South Coast Development Company, LLC) acquired the Site property over a period of several years (2003 to 2006). Mr. Gregory stated that a barn structure formerly located at 14135 Olde Highway 8 and a SFR formerly located at 14207 Rios Canyon Road, were demolished circa 2010 to 2011. Mr. Gregory stated that current Site buildings were constructed circa 1920 and 1950.

Mr. Gregory stated that, to his knowledge, hazardous materials and petroleum products have never been used or stored at the Site, hazardous wastes have never been generated at the Site, and there has never been a release of hazardous materials/wastes at the Site.

Mr. Gregory stated that to his knowledge fill soils have not been placed on the property and he is unaware of any environmental cleanup liens or activity and use limitations on the Site.

#### USER REQUIREMENTS

In order to qualify for one of the landowner liability protections offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (discussed in the Background section above), 40 CFR Part 312 requires that the user (Client) provide the following information to the environmental professional. Mr. Keith Gregory, President of South Coast Development, LLC, completed the User Questionnaire on May 21, 2014. The following table summarizes the responses by the Client.

Question	Response
Have environmental cleanup liens been filed or recorded against the Site?	No
Are activity or land use limitations in place at the Site or have they been filed or recorded in the registry?	No
Does the user have specialized knowledge or experience in connection with the Site?	No
Does the purchase price being paid for the Site reasonably reflect the fair market value of the Site?	N/A*
Is the Client aware of commonly known or reasonably ascertainable information about the Site, which would indicate releases or threatened releases?	No
Are there obvious indications that point to the presence of contamination at the Site?	No

Note:

N/A Property currently owned by Client

## DATA GAPS IN CONNECTION WITH CURRENT SITE LAND USE

Based on observations and research, there are no obvious indications of data gaps in connection with the Site land use.

#### Findings and Opinions—Current Site Land Use

Based on observations and research, there is a low likelihood that a recognized environmental condition exists at the Site as a result of the current Site land use.

The following environmental concerns in connection with the current Site buildings were identified:

- Existing SFRs on-Site potentially contain asbestos and lead-based paint (LBP).
- An asbestos and LBP assessment should be conducted on these structures prior to demolition.

# TOPOGRAPHY, GEOLOGY, HYDROGEOLOGY AND WATER QUALITY SURVEY

#### Topography

A topographic map for the Site vicinity was reviewed and is summarized in the following table:

Reported Elevation	Approximately 660 to 700 feet above mean sea level	
Reported Slope Direction	Gradually slopes down to the south and west	
Source	United States Geological Survey 7.5 Minute Topographic Map, Alpine	
	Quadrangle, California, 1988	

#### Geology

A geological map for the Site vicinity was reviewed and is summarized in the following table.

Reported Formation	Medasedimentary rocks (Jurassic/Cetaceous )
Reported Description	Mildly Metamorphosed (greenchist facies), sandstone, siltstone, shale schist, quartzite metabasalt , Metatuff-breccias with gneiss fine grain gronodiorite tonolite
Source	Tan. S. S., Geology of the El Cajon Quadrangle, San Diego County, California, 2002.

#### Hydrogeology

Data regarding depth to groundwater and flow direction for the Site were not readily available. In the absence of Site-specific data, depth to groundwater and flow direction information was reviewed for properties within the Site vicinity using reports provided by the State Water Resources Control Board (SWRCB) Geotracker database. The following table summarizes the

results of this review. Please note that a natural drainage feature (Los Coches Creek) was observed to be located adjacent to the south perimeter of the Site.

Property Location	Adjacent (north) to the Site
Reported Depth	4 to 15 feet below grade
Reported Flow Direction	Southwest
Source	Stantec Consulting Service, Quarterly Groundwater Monitoring Report, 14110 Old Highway 80, El Cajon, CA 92021, dated January 2012

Many variables influence depth to groundwater and flow direction, and the actual depth to groundwater and flow direction at the Site may be different than presented in this section.

#### Water Quality Survey

The following table summarizes the reported water quality in the Site vicinity:

Reported Hydrologic Subarea	Coches (907.14)		
Reported Hydrologic Area	Lower San Diego Mesa (907.1)		
Reported Hydrologic Unit	San Diego (907)		
Reported Beneficial Use	Designated as having beneficial use for municipal, agricultural, and		
	industrial, and potential beneficial uses for processing purposes.		
Source	RWQCB's "Comprehensive Water Quality Plan" (Plan) originally		
	adopted in 1974, Amendments to the Plan, adopted in May 1998 by		
	the RWQCB.		

# SITE VICINITY RECONNAISSANCE AND OFF-SITE SOURCE SURVEY

#### **Current Site Vicinity Conditions**

The following table summarizes land use and observations in the immediate Site vicinity<sup>v</sup>. For the purpose of this Report, the immediate Site vicinity includes those properties judged to be adjacent<sup>3</sup> to the Site.

<sup>&</sup>lt;sup>3</sup> *Adjacent* is defined by ASTM E1527-13 as any real property or properties the border of which is contiguous or partially contiguous with that of the Site or that would be contiguous or partially contiguous with that of the Site but for a street, road, or other public thoroughfare separating them.

Direction	Land Use	Comments	
North	14110 Olde Highway 80 - gasoline service station (7-Eleven) (Figure 3f-2) 14120 Olde Highway 80 - restaurant (Marechiaro's Pizza) 14134 Olde Highway 80 - liquor store (Hunter's Liquor) 14136 Olde Highway 80 - restaurant (Burger King) (Figure 3g-1) APN 395-250-21 (vacant land)	With the exception of the 7-Eleven gasoline service station (discussed in the Additional SCS Research section below), no obvious indications of the use, storage, or generation of	
East	14219 Olde Highway 80 - highway maintenance equipment storage (Luzaich Striping, Inc.) (Figure 3g-2) 14201 Rios Canyon Road/14215 Pecan Park Lane - Pecan Community Association (mobile home park) (Figure 3g-2)	hazardous materials/ wastes or petroleum products were observed.	
South	14106 Kelli Lane (SFR) (Figure 3h-2) 14106 Kelli Lane (SFR) 14118 Kelli Lane (SFR) 14134 Kelli Lane (SFR) 14239 Rios Canyon Road (SFR) APN 395-250-21 (vacant land) (Figure 3i-1) APN 398-110-60 (vacant land) APN 398-110-42 (vacant land) Los Coches Creek		
Southwest	14069 Ridge Hill Road - religious (East Valley Christian Fellowship of San Diego) (Figure 3i-2)		
West	Freeway off/on ramp		

#### Environmental Regulatory Database Report

An environmental regulatory database report (FirstSearch<sup>TM</sup> report) was prepared by Environmental Data Resources (EDR) for the Site. Local, state, and federal regulatory databases were reviewed for the Site and for those facilities within up to 1 mile of the Site. The FirstSearch<sup>TM</sup> report was reported to have been prepared in general accordance with the ASTM standard for the regulatory database review for Phase I Environmental Site Assessment. The locations of the referenced facilities relative to the Site are shown on the "Map of Sites Within One Mile," which is included in the FirstSearch<sup>TM</sup> report. A description of the various databases, as well as the date each database was most recently updated, is included in the FirstSearch<sup>TM</sup> report. The FirstSearch<sup>TM</sup> report is included in the Appendices to this Report.

Based on a review of the FirstSearch<sup>TM</sup> report, the following table summarizes the facilities within the selected search radii and whether the Site or a facility that was interpreted to be adjacent to the Site was listed on each database.

Federal or State Government Database	Search Radius	Number of Reported Facilities	On Site	Adjacent to the Site
National Priorities List (NPL)	1.00 mile	0	No	No
NPL delisted	1.00 mile	0	No	No

Federal or State Government Database	Search Radius	Number of Reported Facilities	On Site	Adjacent to the Site
Comprehensive Environmental Response Compensation and Liability System (CERCLIS)	0.50 mile	0	No	No
No Further Remedial Action Planned (NFRAP)	0.50 mile	0	No	No
Resource Conservation and Recovery Act-Corrective Action (RCRA COR ACT)	1.00 mile	0	No	No
RCRA Treatment and Disposal Facilities (RCRA TSD)	0.50 mile	0	No	No
RCRA Generators (RCRA Gen)	0.25 mile	0	No	No
Federal Engineering and Institutional Controls (IC/EC)	0.25 mile	0	No	No
Emergency Response Notification System (ERNS)	Site	0	No	NA
State/Tribal NPL	1.00 mile	0	No	No
State/Tribal CERCLIS (Envirostor)	1.00 mile	0	No	No
State/Tribal solid waste list (SWL)	0.50 mile	0	No	No
State/Tribal leaking underground storage tanks (LUST)	0.50 mile	7	No	Yes
State/Tribal underground/aboveground storage tanks (USTs/ASTs)	0.25 mile	2	No	No
State/Tribal voluntary cleanup program (VCP)	0.50 mile	0	No	No
State/Tribal Brownfields	0.50 mile	0	No	No
Other solid waste facilities (SWF)	0.50 mile	0	No	No
Other Tanks	0.25 mile	1	No	Yes
Other Hazard Sites	Site	0	No	N/A
Local land records	0.25 mile	0	No	No
Spills	Site	0	No	NA
Others (Haznet)	0.25 mile	3	No	Yes

#### Note:

NA: Not Applicable

The Site was not listed on any of the regulatory databases reviewed.

Off-Site facilities listed in the FirstSearch<sup>TM</sup> report were evaluated as to their potential to impact the Site. The databases included in the FirstSearch<sup>TM</sup> report can be grouped into two general categories: databases reporting unauthorized releases of hazardous substances or petroleum products (e.g., Leaking Underground Storage Tanks, RCRA Corrective Action facilities, National Priorities List [a.k.a. Superfund] sites), and databases reporting permitted hazardous materials users and hazardous waste generators, which have not necessarily experienced a release.

SCS evaluated each of the off-Site facilities listed in the FirstSearch<sup>TM</sup> report as to their potential to impact the Site, based on the following factors:

- Reported distance of the facility from the Site;<sup>4</sup>
- The nature of the database on which the facility is listed, and/or because the facility was not listed on a database reporting unauthorized releases of hazardous materials, petroleum products, or hazardous wastes;
- Reported case type (e.g., soil only, failed UST test only);
- Reported substance released (e.g., chlorinated solvents, gasoline, metals);
- Reported regulatory agency status (e.g., case closed, "no further action"); and/or
- Location of the facility with respect to the reported depth to and flow direction (discussed in the Hydrogeology section of this Report).

Based on one or more of the factors listed above, and with the possible exception listed in the Additional SCS Research section below, there is a low likelihood that the off-Site facilities listed in the FirstSearch<sup>TM</sup> report represent a recognized environmental condition in connection with the Site.

EDR listed 39 facilities as being orphans, which are facilities for which EDR does not have sufficient information to accurately locate them on a map. Based on a review of the orphans, with the possible exception of a highway maintenance company (Luzaich Striping, Inc.) located adjacent (east) to the Site at 14219 Olde Highway 80, none of the facilities are adjacent to the Site and no facilities having reported open releases were located within 0.20 miles of the Site.

This facility was listed on the Haznet database and is considered a facility for which there is a low likelihood of a recognized environmental condition for one or more of the reasons listed above.

#### Additional SCS Research

#### **Regulatory Records Review**

Based on its listing on the regulatory database and their proximity to the Site, the DEH file for the following adjacent facility was reviewed.

DEH File 20203 - 7-Eleven 14110 Olde Hwy 80 (located adjacent [north] to the Site)

This facility is listed on the LUST, San Diego SAM, and Sweeps UST databases. Based on the review of the DEH file, total petroleum hydrocarbon (TPH) concentrations of up to 8,400 milligrams per kilogram (mg/kg) were reportedly present in soils samples collected during a upgrade of the UST system in 1993 (SECOR International Inc. [SECOR], *Remediation System Shutdown*, 14110 Old Highway 80, El Cajon, California, dated September 2005) and a LUST case was opened. Approximately 18 cubic yards of TPH-bearing soil was reportedly

<sup>&</sup>lt;sup>4</sup> Based on the project performance by the Lawrence Livermore National Laboratory for distribution and remediation of methyl tertiary butyl ether (MTBE) in groundwater, on the average, approximately 94 percent of the MTBE plumes studied in detail (as measured by MTBE in a concentration of 20 micrograms per liter  $[\mu g/L]$ ) did not extend more than approximately 400 feet from the source, while approximately 89 percent of the benzene plumes (as measured by benzene in a concentration of 1  $\mu g/L$ ) extended less than 400 feet. Therefore, the detailed review radius for open groundwater cases has been conservatively established by SCS at 0.20 miles (approximately 1,000 feet).

removed during the UST upgrades. A total of 12 groundwater monitoring wells were reportedly installed to delineate the extent of TPH impact to soil and groundwater and a vapor extraction program was reportedly implemented (Stantec Consulting Corporation [SCC], *Limited Site Assessment Report*, 14110 Old Highway 80, El Cajon, California, dated August 2008 and SCC, Quarterly Groundwater Monitoring Report 14110 Old Highway 80, El Cajon, California, dated January 2012). The depth to groundwater was reported to be 4 to 15 feet below ground surface and the groundwater flow direction was reported to be southwest.

In a closure request submitted in 2012 (SCC, Addendum to Closure Request, *14110 Old Highway 80*, *El Cajon*, *California*, dated July 2012), SCC concluded that "no offsite receptors to the reported release were present within a one half mile radius of the facility and the remedial alternatives been effective in removing hydrocarbon impacts in the soil and groundwater." A closure letter was issued by the DEH on January 10, 2014. The DEH reportedly concurred with SCC's conclusions.

Based on the case status (closed), the location with respect to the reported groundwater flow direction (crossgradient), and the reported absence of constituents of concern (CoCs) in the groundwater monitoring wells nearest to the Site (MW-4, MW-5, and MW-12), there is a low likelihood that a recognized environmental condition exists at the Site as a result of this known and reported release.

The DEH files for this adjacent facility also included Compliance Inspection Reports (CIRs) from 1998 to 2002. These CIRs were also reviewed and are summarized in the table below.

Years Listed	Hazardous Waste (Quantities)	Violations
1993, 1995, 1996, 1997, 1998, 1999, 2001, 2002, 2003, 2005, 2006, 2008, 2009	Aqueous solution (1,300 gallons per year [gal/yr]) Organic solid waste (30 pounds per year [lb/yr])	Record keeping

Based on the types and quantities of hazardous waste reportedly generated at the facility, the regular inspections by the DEH, and the lack of known and reported releases, there is a low likelihood that a recognized environmental condition exists at the Site in connection with information obtained from the review of CIRs for this facility.

#### California Division of Oil, Gas, and Geothermal Resources

SCS personnel reviewed the California Division of Oil, Gas, and Geothermal Resources Map regarding oil and gas well locations within 1 mile of the Site<sup>vi</sup>. There were no wells interpreted to be located within a 1-mile radius of the Site.

#### DATA GAPS IN CONNECTION WITH OFF-SITE SOURCES

Based on a review of historical sources, there are no obvious indications of data gaps in connection with the historical Site and Site vicinity land use.

#### Findings and Opinions—Off-Site Source Survey

Based on the off-Site source survey, several facilities in the Site vicinity were reported to have had releases of hazardous materials/waste or petroleum products. However, there is a low likelihood that a recognized environmental condition exists at the Site as a result of known and reported releases of hazardous materials/wastes or petroleum products from an off-Site source. This judgment is based on one or more of the following: reported regulatory status (e.g., case closed), media affected (e.g., soil contamination only), distance from the Site, direction from the Site with respect to groundwater flow direction, and information obtained through a review of regulatory records.

#### HISTORICAL LAND USE REVIEW

In accordance with the ASTM Standard and AAI rule, numerous reasonably ascertainable standard historical information sources were reviewed, and an attempt was made to interpret the historical Site and Site vicinity land use back to the obvious first-developed use of the Site. The following table summarizes the historical resources reviewed as part of this Assessment:

Resource	Location	Years Available
Aerial Photographs	County of San Diego NETR Online (http://www.historicaerials.com)	1953, 1964, 1968, 1971, 1981, 1989, 2003, and 2005
City Directories	San Diego Public Library	1970, 1975, 1980, 1985, 1990, 1995, 2000, 2005, 2010, and 2013
Sanborn Fire Insurance Maps	SCS in-house collection	Coverage not available
Topographic Maps	US Geological Survey	1903, 1927, 1930, 1936, 1941, 1942, 1947, 1955, 1956, 1959, 1964, 1969, 1975, 1976, 1978, 1979, 1986, and 2001
Fire Department Records	LSFD	None available
Building Department Records	SDCBD	None available
Interviews	Not applicable	Please see Interview section above

#### Historical Site Land Use

The following table provides a chronology of the apparent historical Site land uses as interpreted from a review of information from the sources referenced.

Years	Interpreted Site Tenants	Interpreted Site Use
1903	None	No improvements shown (Site land use not specified on the topographic maps reviewed)
1920-1989	Various residents	SFRs/farm structures/agriculture land

Years	Interpreted Site Tenants	Interpreted Site Use	
1990-2000	Various residents	SFRs/Vacant land	
2005-2014	None	Vacant SFR and vacant land	

Because many of the dates listed above are based on a limited selection of historical resources, they are considered to be approximations only; the actual beginning/ending dates for many of the Site uses/development described above may have been earlier or later than indicated. With the possible exceptions of the potential presence of pesticides in soil due to the historical use of the Site for agricultural purposes, discussed below, no obvious historical facilities, features of concern, or land uses indicative of the use, storage, or generation of hazardous materials/wastes or petroleum products were found in the historical resources reviewed.

As indicated above, based on a review of historical resources, it is interpreted that agricultural activity took place at the southern portion of the Site (south of Pecan Park Lane) from prior to 1953 to prior to 1981. In addition, possibly agricultural related structures (barns or greenhouses) were present in historical aerial photographs. The agricultural activity is interpreted to have possibly taken place at the time when organochlorine pesticides such as dichlorodiphenyltrichloroethane (DDT), chlordane, and metal-based pesticides, such as copper and arsenic, were in wide general use for pest control.

These classes of pesticides are known to have the potential to remain detectable in the subsurface soil for extended periods of time. Based on the interpreted land use, SCS's experience with agricultural properties, and a review of the available literature, it is our judgment that it is likely that trace concentrations of organochlorine or metal-based pesticides are present in the soil at the Site and Site vicinity as a result of the agricultural land use. It has also been SCS's experience that trace concentrations are likely to be present even after mass grading and earth movement. However, it has generally been our experience that unless a pesticide mixing, storage, or disposal area was present, concentrations of organochlorine pesticides in the subsurface in general agricultural areas tend to be low. No such areas were reported or are known to have existed at the Site and Site vicinity.

While there are currently no regulations that stipulate cleanup levels for pesticides in soil, there is a level at which soil could be classified as a hazardous waste based on, for example, a DDT concentration. However, it has been SCS's experience that in order for pesticide-bearing soil at the Site and Site vicinity to be classified as a hazardous waste, the soil would first need to be classified as a "waste" (e.g., to be excavated and transported off-Site). In addition, it would need to have concentrations of pesticides, such as DDT, in excess of regulatory values, such as the total threshold limit or soluble threshold limit concentrations (TTLC/STLC) values, for specific pesticides in soil samples.

Based on our experience, if the Site were in fact used for agricultural purposes, there is a moderate likelihood that residual concentrations of organochlorine and metal-based pesticides are present in the shallow surface soil beneath the Site. Assuming the legal and permitted application of these pesticides, and assuming existing Site use remains the same, this common occurrence is, in SCS's experience, unlikely to lead to an enforcement action and is therefore likely to be considered *de minimis*, as defined by ASTM.

However, SCS understands that the Site is proposed to be redeveloped for commercial activities (shopping center) and will be covered with hardscape and landscape. Therefore, we recommend that limited soil sampling (of disturbed soil) be conducted as a precautionary measure to ensure construction workers and others are not exposed to elevated concentrations of pesticides, if present. In addition, if soil is to be excavated and exported as part of redevelopment activities, then the presence of pesticides and/or metals may result in the soil being considered a regulated or hazardous waste and the soil may need to be properly characterized and disposed of at an appropriate receiving facility.

### Historical Site Vicinity Land Use

The following table provides a chronology of the apparent historical Site vicinity land uses as interpreted from a review of information from the sources referenced:

Years	Interpreted Site Tenants	Interpreted Site Use			
	14110 Olde Highway 80 (North)				
1903-1947	None	No improvements shown			
1953-1968	Various residents	SFR			
1971-1975	None	Vacant land			
1976-2014	7-Eleven	Gasoline station and mini-mart			
	14120 Olde Highway 80	(North)			
1903-1947	None	No improvements shown			
1953-1979	None	Vacant land			
1980-2014	Marechiaro's Pizza	Restaurant			
	14134 Olde Highway 80	(North)			
1903-1947	None	No improvements shown			
1953-1979	None	Vacant land			
1980-2014	Hunter Liquor	Liquor store			
	14136 Olde Highway 80	(North)			
1903-1947	None	No improvements shown			
1953-1995	None	Vacant land			
2000-2014	Burger King	Restaurant			
	APN 395-250-21 Olde Highway 80 (North)				
1903-1947	None	No improvements shown			
1953-2014	None	Vacant land			
	14219 Olde Highway 80	(East)			
1903-1947	None	No improvements shown			
1953-2000	Various residents	SFRs			

Years	Interpreted Site Tenants	Interpreted Site Use	
2005-2014	Luzaich Stripping, Inc.	Highway painting contractor	
	14209 Rios Canyon Road	(East)	
1903-1947	None	No improvements shown	
1953-1968	Unknown	Agriculture	
1970-2014	Pecan Community Association	Mobile home park	
	14239 Rios Canyon Road/14106 to 141	34 Kelli Lane (South)	
1903-1947	None	No improvements shown	
1953-1989	Unknown	Agriculture	
1990-2014	Various residents	SFRs	
	APN 395-110-42 and -60 and 395	-250-21(South)	
1903-1947	None	No improvements shown	
1953-1989	Unknown	Agriculture	
1990-2014	None	Vacant land	
	14069 Ridge Hill Road (Sou	uthwest)	
1903-1947	None	No improvements shown	
1953-1964	Various residents	SFRs	
1968-2014	East Valley Christian Fellowship of San Diego	Religious	
Freeway Off-Ramp (West)			
1903-1947	None	No improvements shown	
1953-1959	None	Vacant land	
1964-2014	None	Freeway off-ramp	

Because many of the dates listed above are based on a limited selection of historical resources, they are considered to be approximations only; the actual beginning/ending dates for many of the Site uses/development described above may have been earlier or later than indicated.

With the exception of historical closed LUST case, discussed in the Additional SCS Research section above, no obvious historical facilities, features of concern, or land uses indicative of the use, storage, or generation of hazardous materials/wastes or petroleum products were found in the historical resources reviewed.

# DATA GAPS IN CONNECTION WITH THE HISTORICAL SITE LAND USE

Readily available historical information was limited, and information was not available that would provide 5-year data intervals between the following years: 1903 to 1927, 1930 to 1936, and 1947 to 1953. Based on the corroborating data from the historical information, SCS judged it likely that the historical Site land use during this time period was not significantly different from

the interpretation presented in the table above. The year portions of the Site was first developed (for SFRs) is interpreted to have been circa 1920.

#### Findings and Opinions—Historical Site and Site Vicinity Land Use

Based on a review of historical resources, and with the possible exceptions below, there is a low likelihood that a recognized environmental condition exists at the Site as a result of a release of hazardous materials/wastes or petroleum products from a known or interpreted historical Site or Site vicinity land use.

Based on a review of historical resources, it is interpreted that agricultural activity took place at the southern portion of the Site (south of Pecan Park Lane) from prior to 1953 to prior to 1981. In addition, possibly agricultural related structures (barns or greenhouses) were present in historical aerial photographs. The agricultural activity is interpreted to have possibly taken place at the time when organochlorine pesticides such as dichlorodiphenyltrichloroethane (DDT), chlordane, and metal-based pesticides, such as copper and arsenic, were in wide general use for pest control.

Based on our experience, if the Site were in fact used for agricultural purposes, there is a moderate likelihood that residual concentrations of organochlorine and metal-based pesticides are present in the shallow surface soil beneath the Site. Assuming the legal and permitted application of these pesticides, and assuming existing Site use remains the same, this common occurrence is, in SCS's experience, unlikely to lead to an enforcement action and is therefore likely to be considered *de minimis*, as defined by ASTM.

However, SCS understands that the Site is proposed to be redeveloped for commercial activities (shopping center) and will be covered with hardscape and landscape. Therefore, we recommend that limited soil sampling (of disturbed soil) be conducted as a precautionary measure to ensure construction workers and others are not exposed to elevated concentrations of pesticides, if present. In addition, if soil is to be excavated and exported as part of redevelopment activities, then the presence of pesticides and/or metals may result in the soil being considered a regulated or hazardous waste and the soil may need to be properly characterized and disposed of at an appropriate receiving facility.

#### 5 CONCLUSIONS AND RECOMMENDATIONS

This Assessment has been conducted by an environmental professional whose qualifications<sup>5</sup> were made known to the Client. The conclusion and recommendations presented below are based on the review of readily available data obtained as part of this Assessment, current regulatory guidelines, the Site and Site vicinity reconnaissance, and SCS' experience.

Phase I Environmental Site Assessment 18

<sup>&</sup>lt;sup>5</sup> SCS declares that, to the best of our professional knowledge and belief, the reviewer meets the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. The qualifications of the report preparers are included in the Appendices.

SCS has performed a Phase I Environmental Site Assessment of 14109, 14135, and 14173 Olde Highway 80 and 14207 Rios Canyon Road, El Cajon, California in general conformance with the American Society for Testing and Materials (ASTM) Standard Practice for Phase I Environmental Site Assessment Process E 1527-13 and the Environmental Protection Agency (EPA), 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries; Final Rule (AAI). Any exceptions to, or deletions from, the ASTM and AAI Scope of Work were previously described in this Report where applicable.

With the possible exceptions below, there is a low likelihood that recognized environmental conditions are present at the Site as a result of the current or historical Site land use or from a known and reported off-site source.

## Historical Agricultural Activities

Based on a review of historical resources, it is interpreted that agricultural activity took place at the southern portion of the Site (south of Pecan Park Lane) from prior to 1953 to prior to 1981. In addition, possibly agricultural related structures (barns or greenhouses) were present in historical aerial photographs. The agricultural activity is interpreted to have possibly taken place at the time when organochlorine pesticides such as dichlorodiphenyltrichloroethane (DDT), chlordane, and metal-based pesticides, such as copper and arsenic, were in wide general use for pest control.

Based on our experience, if the Site were in fact used for agricultural purposes, there is a moderate likelihood that residual concentrations of organochlorine and metal-based pesticides are present in the shallow surface soil beneath the Site. Assuming the legal and permitted application of these pesticides, and assuming existing Site use remains the same, this common occurrence is, in SCS's experience, unlikely to lead to an enforcement action and is therefore likely to be considered *de minimis*, as defined by ASTM.

However, SCS understands that the Site is proposed to be redeveloped for commercial activities (shopping center) and will be covered with hardscape and landscape. Therefore, we recommend that limited soil sampling (of disturbed soil) be conducted as a precautionary measure to ensure construction workers and others are not exposed to elevated concentrations of pesticides, if present. In addition, if soil is to be excavated and exported as part of redevelopment activities, then the presence of pesticides and/or metals may result in the soil being considered a regulated or hazardous waste and the soil may need to be properly characterized and disposed of at an appropriate receiving facility.

This Report is intended for the sole usage of the Client and other parties designated by SCS. The methodology used during this Assessment was in general conformance with the requirements of the Client and the specifications and limitations presented in the Agreement between the Client and SCS. This Report contains information from a variety of public and other sources, and SCS makes no representation or warranty about the accuracy, reliability, suitability, or completeness of the information. Any use of this Report, whether by the Client or by a third party, shall be subject to the provisions of the Agreement between the Client and SCS. Any misuse of or reliance upon the Report shall be without risk or liability to SCS.

Assessments are qualitative, not comprehensive, in nature and may not identify all environmental problems or eliminate all risk. For every property, but especially for properties in older downtown or urban areas, it is possible for there to be unknown, unreported recognized environmental conditions, USTs, or other features of concern that might become apparent through demolition, construction, or excavation activities, etc. In addition, the scope of services for this project was limited to those items specifically named in the scope of services for this Report. Environmental issues not specifically addressed in the scope of services for this project are not included in this Report.

Land use, condition of the properties within the Site, and other factors may change over time. The information and conclusions of this Report are judged to be relevant at the time the work described in this Report was conducted. This Report should not be relied upon to represent future Site conditions unless a qualified consultant familiar with the practice of Phase I Environmental Site Assessments in the County of San Diego is consulted to assess the necessity of updating this Report.

The property owners at the Site are solely responsible for notifying all governmental agencies and the public of the existence, release, or disposal of any hazardous materials/wastes or petroleum products at the Site, whether before, during, or after the performance of SCS services. SCS assumes no responsibility or liability for any claim, loss of property value, damage, or injury that results from hazardous materials/wastes or petroleum products being present or encountered within the Site.

Although this Assessment has attempted to assess the likelihood that the Site has been impacted by a hazardous material/waste release, potential sources of impact may have escaped detection for reasons that include, but are not limited to: 1) inadequate or inaccurate information rightfully provided to SCS by third parties, such as public agencies and other outside sources; 2) the limited scope of this Assessment; and 3) the presence of undetected, unknown, or unreported environmental releases.

#### 6 LIKELIHOOD STATEMENTS

Statements of "likelihood" have been made in this report. Likelihood statements are based on professional judgments of SCS. The term "likelihood," as used herein, pertains to the probability of a match between the prediction for an event and its actual occurrence. The likelihood statement assigns a measure for a "degree of belief" for the match between the prediction for the event and the actual occurrence of the event.

The likelihood statements in this Report are made qualitatively (expressed in words). The qualitative terms can be approximately related to quantitative percentages. The term "low likelihood" is used by SCS to approximate a percentage range of 10 to 20 percent; the term "moderate likelihood" refers to an approximate percentage range of 40 to 60 percent; and the term "high likelihood" refers to an approximate percentage range of 80 to 90 percent.

# 7 SPECIAL CONTRACTUAL CONDITIONS BETWEEN USER AND ENVIRONMENTAL PROFESSIONAL

There were no special contractual conditions between the user of this Assessment and the environmental professional, SCS.

# 8 ENDNOTES

<sup>&</sup>lt;sup>i</sup> Site reconnaissance conducted by Harry Bishop on May 29, 2014.

ii Records request - County of San Diego Department of Environmental Health by Harry Bishop (SCS) on May 28, 2014.

iii Records request - City of Lakeside Fire Department by Harry K. Bishop (SCS) May 29, 2014.

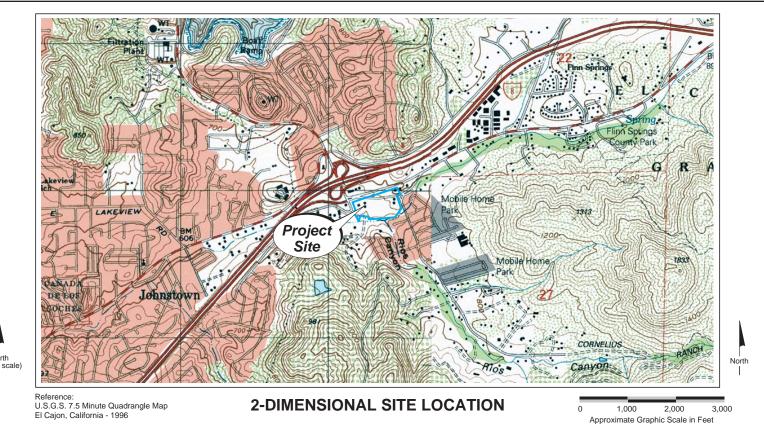
<sup>&</sup>lt;sup>iv</sup> Records request – County of San Diego Building Department by Harry K. Bishop (SCS) on May 29, 2014.

<sup>&</sup>lt;sup>v</sup> Site vicinity reconnaissance conducted by Harry Bishop (SCS) on May 29, 2014.

vi California Division of Oil, Gas, and Geothermal Resources (DOGGR) Regional Wildcat Map W1-7, 2009.

**FIGURES** 





# **REGIONAL SITE LOCATION**



SITE AERIAL PHOTOGRAPH

North (Not to scale)

Reference: U.S.G.S. 7.5 Minute Quadrangle Map El Cajon, California - 1996

3-DIMENSIONAL SITE LOCATION

# S C S E N G I N E E R S

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#### FOUR-WAY SITE LOCATION MAP South Coast Development, LLC 14109, 14135, and 14173 Olde Highway 80 and 14207 Rios Canyon Road El Cajon, California

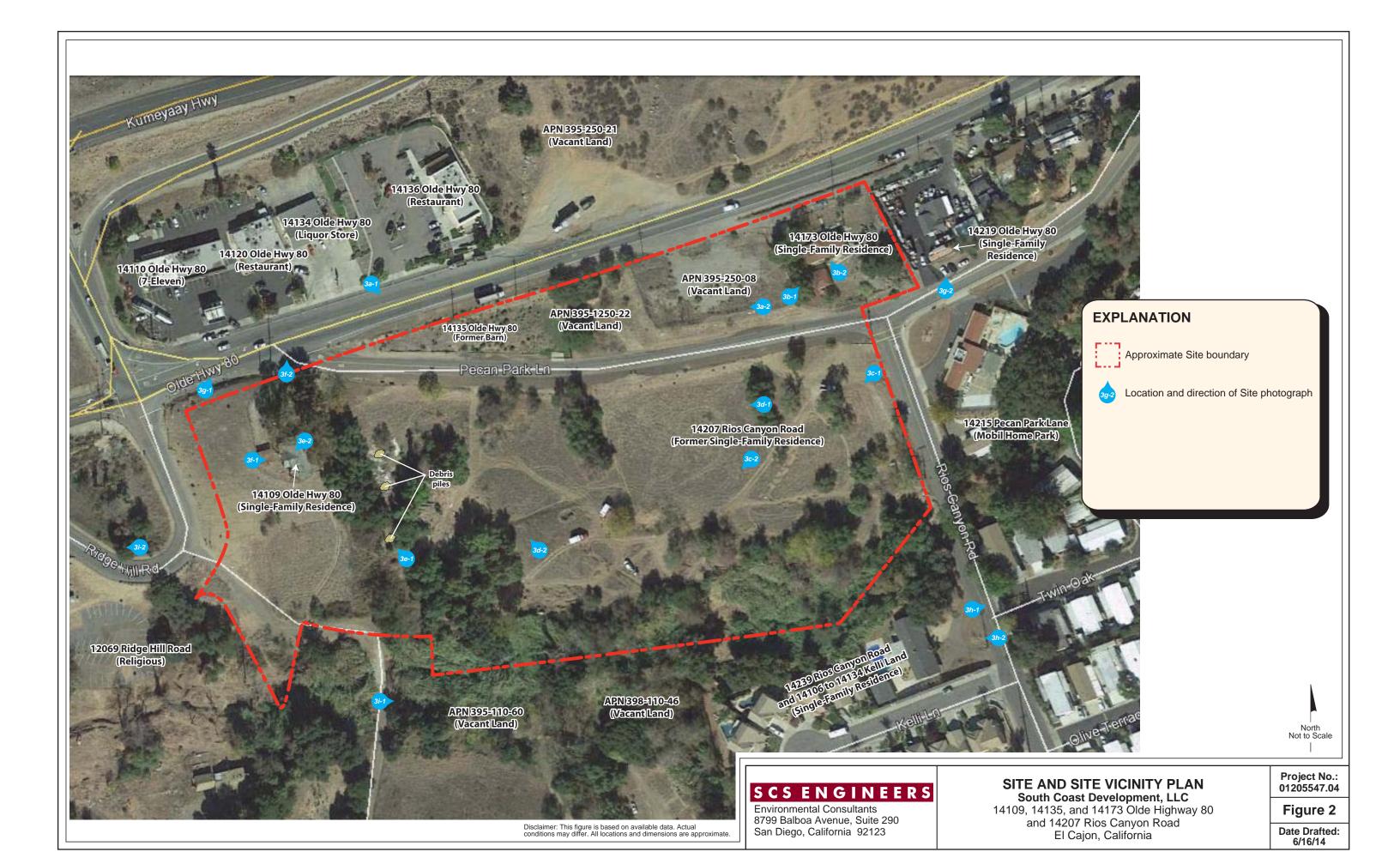
Project No.: 01205547.04

Figure 1

Date Drafted: 6/16/14

Disclaimer: This figure is based on available data. Actual conditions may differ. All locations and dimensions are approximate.

Google Earth Aerial Photograph
El Cajon, California - November 2013





1) View of the northern portion of the Site looking southeast.



2) View of the northern portion of the Site looking west.

# SCS ENGINEERS

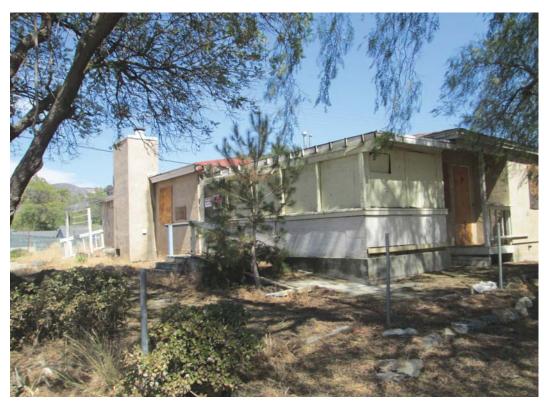
Environmental Consultants 8799 Balboa Avenue, Suite 290 San Diego, California 92123

# PHOTOGRAPHIC PLATE

South Coast Development, LLC 14109, 14135, and 14173 Olde Highway 80 and 14207 Rios Canyon Road El Cajon, California Project No.: 01205547.04

Figure 3a

Date Drafted: 6/11/14



1) View of eastern single-family residence.



2) Interior view of eastern single-family residence.

# SCS ENGINEERS

Environmental Consultants 8799 Balboa Avenue, Suite 290 San Diego, California 92123

# PHOTOGRAPHIC PLATE

South Coast Development, LLC

14109, 14135, and 14173 Olde Highway 80 and 14207 Rios Canyon Road El Cajon, California Project No.: 01205547.04

Figure 3b

Date Drafted: 6/11/14



1) View of the southern portion of the Site looking south.



2) View of the southern portion of the Site looking southwest.

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### PHOTOGRAPHIC PLATE

South Coast Development, LLC 14109, 14135, and 14173 Olde Highway 80 and 14207 Rios Canyon Road El Cajon, California Project No.: 01205547.04

Figure 3c



1) View of the southern portion of the Site looking west.



2) View of the southern portion of the Site looking northwest.

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### PHOTOGRAPHIC PLATE

South Coast Development, LLC 14109, 14135, and 14173 Olde Highway 80 and 14207 Rios Canyon Road El Cajon, California Project No.: 01205547.04

Figure 3d



1) View of debris on the western portion of the Site.



2) View of western single-family residence.

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### PHOTOGRAPHIC PLATE

South Coast Development, LLC 14109, 14135, and 14173 Olde Highway 80 and 14207 Rios Canyon Road El Cajon, California Project No.: 01205547.04

Figure 3e



1) Interior view of western single-family residence.



2) View of the adjacent property to the north of the Site (7-Eleven).

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### PHOTOGRAPHIC PLATE

South Coast Development, LLC

14109, 14135, and 14173 Olde Highway 80 and 14207 Rios Canyon Road El Cajon, California Project No.: 01205547.04

Figure 3f



1) View of the adjacent property to the north of the Site.



2) View of the adjacent property to the east of the Site.

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### PHOTOGRAPHIC PLATE

South Coast Development, LLC

14109, 14135, and 14173 Olde Highway 80 and 14207 Rios Canyon Road El Cajon, California Project No.: 01205547.04

Figure 3g



1) View of the adjacent property to the east of the Site.



2) View of the adjacent property to the south of the Site.

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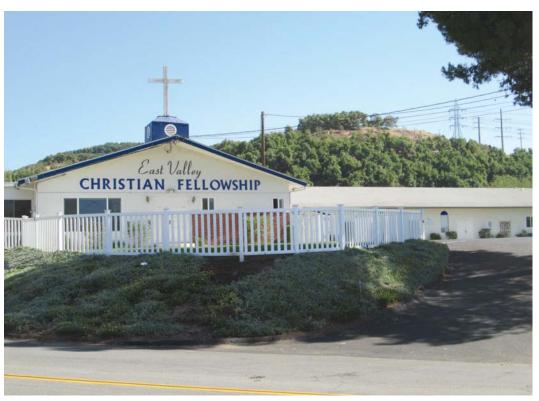
### PHOTOGRAPHIC PLATE

South Coast Development, LLC 14109, 14135, and 14173 Olde Highway 80 and 14207 Rios Canyon Road El Cajon, California Project No.: 01205547.04

Figure 3h



1) View of the adjacent property to the south of the Site.



2) View of the adjacent property to the east of the Site.

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### PHOTOGRAPHIC PLATE

South Coast Development, LLC

14109, 14135, and 14173 Olde Highway 80 and 14207 Rios Canyon Road El Cajon, California

Project No.: 01205547.04

Figure 3i

**APPENDICES** 

GLOSSARY

### **GLOSSARY**

- **adjoining property.** Any real property the border of which is contiguous or partially contiguous with that of the Site, or that would be contiguous or partially contiguous with that of the Site but for a street, road, or other public thoroughfare separating them.
- aerial photographs. Photographs taken from an airplane or helicopter of areas encompassing the Site.
- asbestos. Six naturally occurring fibrous minerals found in certain types of rock formations. Of the six, the minerals chrysotile, amosite, and crocidolite have been the most commonly used in building products. When inhaled in sufficient quantities, asbestos fibers can cause serious health problems.
- asbestos-containing material (ACM). Any material or product that contains more than 1% asbestos.
- **construction debris.** Any concrete, brick, asphalt, and other building materials discarded in the construction of a building or other improvement to property.
- **de minimis condition.** An environmental condition that does not generally present a material risk of harm to the public health or the environment and that generally would not be subject to an enforcement action if brought to the attention of appropriate governmental agencies.
- **drum.** A container (typically, but not necessarily, holding 55 gallons of liquid) that may be used to store hazardous substances or petroleum products.
- dry well. Underground areas where soil has been removed and replaced with pea gravel, coarse sand, or large rocks. Dry wells are used for drainage, to control storm runoff, for the collection of spilled liquids (spilled intentionally or not), and for wastewater disposal (often illegal).
- fill dirt. Dirt, soil, sand, or other earth that is obtained off site and that is used to fill holes or depressions, create mounds, or otherwise artificially change the grade or elevation of real property. It does not include material that is used in limited quantities for normal landscaping activities.
- **fire insurance map.** Maps produced for private fire insurance map companies that indicate uses of properties at specified dates and that encompass the property.
- hazardous material. Any material that, because of its quantity, concentration, or physical and chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment. Hazardous materials include, but are not limited to, hazardous substances, hazardous waste, and any material which a handler or the administering agency has a reasonable basis for believing would be injurious to the health or safety of persons or harmful to the environment if released into the workplace or the environment.

hazardous substance. Pursuant to CERCLA, hazardous substances include the following:

- 1) All toxic pollutants and hazardous substances listed under the Clean Water Act
- 2) Hazardous wastes regulated under RCRA
- 3) Any hazardous air pollutant under the Clean Air Act
- 4) Chemicals designated as "immediately hazardous" under the Toxic Substance Control Act

The EPA is also allowed to designate additional substances as hazardous if they present a substantial danger to the public health or welfare or the environment when released.

- hazardous waste. A substance defined pursuant to the Solid Waste Disposal Act amended by RCRA, a hazardous waste is a solid waste, or a combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics, may contribute to an increase in mortality or an increase in serious irreversible, or incapacitating illness or pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed.
- **landfill.** A place or area of land used for the disposal of solid wastes as defined by state solid waste regulations. Synonymous with the term *solid waste disposal site*, a landfill is also known as a garbage dump or trash dump.
- **likelihood.** As used in this Report, the term *likelihood* pertains to the probability of a match between the prediction of an event and its actual occurrence. As used by SCS Engineers, the term *low likelihood* approximates a percentage range to 10 to 20 percent; *moderate likelihood* approximates 40 to 60 percent; and *high likelihood* approximates 80 to 90 percent.
- Material Safety Data Sheet (MSDS). Written or printed material concerning a hazardous substance which is prepared by chemical manufacturers, importers, and employers for hazardous chemicals pursuant to OSHA standards.
- **obvious.** That which is plain or evident. The term refers to a condition or fact that could not be ignored or overlooked by a reasonable observer while physically observing the property.
- **PCE.** Perchloroethene/perchloroethylene, or "Perc"; also tetrachloroethene/tetrachloroethylene; commonly used as a solvent for dry-cleaning.
- petroleum products. Petroleum, including crude oil, natural gas, natural gas liquids, liquefied natural gas, synthetic gas usable for fuel, kerosene, diesel oil, jet fuels, motor oil, hydraulic oil, gear oils, and fuel oil.
- recognized environmental conditions (RECs). Recognized environmental conditions, as defined by the American Society for Testing and Materials (ASTM), include the presence or likely presence of hazardous substances or petroleum products on a property that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water on the property. However, the term is not intended to include de minimis conditions that do not generally present a material risk of harm to the public health or the environment and that generally would not be subject to an enforcement action if brought to the attention of appropriate governmental agencies.
- **retail quantities (RQs).** Quantities of hazardous materials usually less than 50 gallons, 100 pounds, or 200 cubic feet of gas (under the regulatory reporting limits).
- **small retail quantities (SRQs).** Quantities of hazardous materials in containers of 5 gallons or less, and less than 50 gallons in aggregate.
- **solvent.** A chemical compound that is capable of dissolving another substance and is itself a hazardous substance, such as TCE, TCA, PCE, Stoddard solvent, paint thinner, mineral spirits, and acetone. Solvents are used in a number of manufacturing or industrial processes.
- TCA. Trichloroethane; also 1,1,1 TCA; a commonly used industrial solvent for degreasing/cleaning. underground storage tank (UST). Any tank, including underground piping connected to the tank, that is

or has been used to contain hazardous substances or petroleum products and the volume of which is 10 percent or more beneath the surface of the ground.

visually and/or physically observed. This term refers to observations made by vision during the Site visit while walking through the Site or Site building(s), and observations made by the sense of smell, particularly awareness of noxious or foul odors.

### **ACRONYMS**

μg/kg micrograms per kilogram μg/L micrograms per liter

ARAR Applicable, Relevant, and Appropriate Requirements

ASPIS Abandoned Sites Program Information System

**APCD** Air Pollution Control District

**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers

**AST** aboveground storage tank

**ASTM** American Society for Testing and Materials

**BAT** Best Available Technology

**bg** below grade

bgs below ground surfaceBMP Best Management Practice

**BTEX** benzene, toluene, ethylbenzene, and xylenes

Cal-EPA California Environmental Protection Agency
CCDC Centre City Development Corporation
CCR California Code of Regulations

CEOA California Code of Regulations
CEOA California Environmental Quality Act

**CERCLA** Comprehensive Environmental Response, Compensation, and Liability Act of 1980

**CGI** Combustible Gas Indicator

CHSP Community Health and Safety Plan
CIR Compliance Inspection Report
CoCs Constituents of Concern
CPT Cone Penetration Testing

DAF Dilution and Attenuation Factor
DDT Dichlorodiphenyltrichloroethane

DEED RSTR California Department of Health Services Deed Restriction
DEH County of San Diego Department of Environmental Health

**DTSC** Department of Toxic Substance Control

**EPA** Environmental Protection Agency

**ERNS** Emergency Response Notification System

**ESA** Environmental Site Assessment

**FoPC** Features of Potential Concern

**HMMD** Hazardous Materials Management Division, County of San Diego

HVAC heating, ventilation, and air conditioningHVOCs halogenated volatile organic compoundsHWSSL Hazardous Waste and Substances Sites List

IDW investigation-derived wastes IPM integrated pest management

JURMP Jurisdictional Urban Runoff Management Program

LEL lower explosive limit

**LESA** Limited Environmental Site Assessment

**LNAPL** Light Nonaqueous Phase Liquid

**LOA** Letter of Authorization

LUFT leaking underground fuel tank
LUST leaking underground storage tank

mg/kg milligrams per kilogram

MIWD Metropolitan Industrial Wastewater Division

MSCP Multiple Species Conservation Plan

MSDS Material Safety Data Sheet

MTBE methyl tertiary butyl ether; also methyl tert-butyl ether

NA not applicable

NCP National Contingency Plan

ND not detected

**NESSHAPS** National Emissions Standards for Hazardous Air Pollutants

**NFA** no further action

**NFRAP** No Further Remedial Action Plan

NOI Notice of Intent

NPDES National Pollutant Discharge Elimination System

**NPL** National Priorities List

**OLS** ordinary least squared

**OSHA** Occupational Safety and Health Administration

**PCBs** polychlorinated biphenyls

PCE perchloroethene/perchloroethylene, or "Perc"; also tetrachloroethene/tetrachloroethylene

**PEAR** Preliminary Environmental Assessments Required

PID photoionization detector PMP Property Mitigation Plan

PAHs polynuclear aromatic hydrocarbons PRG Preliminary Remediation Goals

**PRP** potentially responsible party (pursuant to CERCLA)

**PSH** phase-separated hydrocarbons

**QAPP** Quality Assurance Project Plan

**RCRA** Resource Conservation and Recovery Act

RCRA VIOL Comprehensive Environmental Response, Compensation and Liability Act-hazardous

waste generators violations/enforcement actions

RCRIS-G Comprehensive Environmental Response, Compensation, and Liability Act Information

System-Generators (hazardous waste)

**REC** recognized environmental condition

RF remote fill

**RNA** remediation by natural attenuation

**RQs** retail quantities

**RWQCB** Regional Water Quality Control Board

SAM Site Assessment and Mitigation Program (San Diego County Department of

Environmental Health)

SAP Site Assessment Protocol

SCL Department of Toxic Substance Control database

**SDG&E** San Diego Gas and Electric

SI site inspection

SRQs small retail quantities
SMP Soil Management Plan

**SPCC** Spill Prevention Control and Countermeasure

STLC Soluble Threshold Limit Concentration

SWAT Solid Waste Assessment Test
SWIS Solid Waste Information System

**SWLF** Solid Waste Landfills

SWPPP Storm Water Pollution Prevention Plan SWRCB State Water Resources Control Board

TCA Trichloroethane; also 1,1,1 TCA trichloroethene; trichloroethylene

**TCLP** Toxicity Characteristic Leaching Procedure

THF Tetrahydrofuran

**TPH** total petroleum hydrocarbons

**TPHg** TPH as gasoline **TPHd** TPH as diesel

**TPHext** TPH extended range

**TPHo** TPH oil range

TRIS Toxic Release Information System
TRPH total recoverable petroleum hydrocarbons
TTLCs Total Threshold Limit Concentrations

UAR unauthorized release

USGS United States Geological Survey

**UST** underground storage tank

Voluntary Action Plan Vapor Extraction System **VAP VES** 

Waste Discharge Requirements Waste Extraction Test WDR

WET

Waste Management Unit Database System **WMUDS** 



SAN DIEGO GAS & ELECTRIC LETTER





Willis G. Brull Principal Environmental Specialist

Environmental Services—Hazardous Materials/Waste 6875 Consolidated Way San Diego, CA 92121-2602

> Telephone: (858) 547-3069 Fax: (858)547-6529 E-Mail: jbrull@semprautilities.com

March 7, 2008

Mr. Ralph Vasquez **Environmental Business Solutions** 8799 Balboa Avenue #290 San Diego, CA 92123

SAN DIEGO GAS & ELECTRIC (SDG&E) PCB TRANSFORMERS

Dear Mr. Vasquez,

This letter is in response to your inquiry on March 5, 2008 regarding the transformers purchased by San Diego Gas & Electric (SDG&E).

SDG&E has never specified PCB transformers for its distribution system. Although only mineral oil transformers were purchased, some older, pre 1980, mineral oil transformers were inadvertently contaminated with PCBs by the manufacturer.

Based on the SDG&E statistical sampling and testing program, it is unlikely that the SDG&E equipment is PCB contaminated. The only way to know with certainty is by testing.

SDG&E is responsible for ensuring that its transformers comply with EPA regulations governing PCBs. However, EPA regulations do not require the testing of individual mineral oil transformers. Therefore, should you wish for that to be done, there will be a charge associated with the testing and if a service interruption is deemed necessary then there will be additional charges for any high voltage line work and associated labor costs.

Please call me at (858) 547-3069 if you need additional information.

Sincerely,

Willis G. Brull

Principal Environmental Specialist



REGULATORY RECORDS FOR THE SITE



OFFICE USE ONLY
Request #5-35/

## County of San Diego

JACK MILLER DIRECTOR DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6700 FAX (858) 505-6848
www.sdcdeh.org

ELIZABETH POZZEBON ASSISTANT DIRECTOR

PUBLIC RECORDS REQUEST FOR THE SITE ASSESSMENT AND MITIGATION (SAM) PROGRAM AND HAZARDOUS MATERIALS DIVISION (HMD)

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[i	Harry K. Bishop, PhD, Pt Senior Project Professions				
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SCS ENGINE	ERS	FAX: <u>(</u>	)		
Environmental Consultants and Contractors	8799 Balboa Avenue, Sui San Diego, CA 92123-15 858 571-5500 x242				
Į.	Fax 858 571-5357				
	hbishop@scsengineers.com	l/overprint with be	usiness card if p	preferred)	
Additional Informatio	n may be access.	he DEH wel	osite, <u>www</u>	.sdcdeh.org. F	ax or email your
completed form to the	e Public Records I	Program at (858) 505-	5848 or <u>de</u>	<u>n.publicrecords@</u>	<u>vsacounty.ca.gov</u> .
The following informa	tion is required. <u>Se</u>	parate forms are neede	ed for each	address or parce	<u>i number</u> .
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Exact A	ddress (Street, City and	Zip Code) 92021		Assessor's Pa	arcel Number
Optional information (est	ablishment permit numl	per, business name, etc.):			
Please indicate the p	urpose of your sear	ch by checking all that	apply:		
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Other:				Written authorization letter)	from owner (attach
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DEH compiles fully with the California Public Records Act and the Federal Freedom of Information Act. Please be advised that photocopy and/or scanned file fees may apply.



OFFICE USE ONLY
Request # 5350

## County of San Diego

JACK MILLER DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6700 FAX (858) 505-6848
www.sdcdeh.org

ELIZABETH POZZEBON ASSISTANT DIRECTOR

PUBLIC RECORDS REQUEST FOR THE SITE ASSESSMENT AND MITIGATION (SAM) PROGRAM AND HAZARDOUS MATERIALS DIVISION (HMD)

	AND HA	ZARDOUS MATE	RIALS DIVISION	(HIMD)	
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SCS ENGINE	ERS		FAX: ()		
Environmental Consultants and Contractors	8799 Balboa Avenu San Diego, CA 921 858 571-5500 x24 Fax 858 571-5357 hbishop@scsenginee	23-15682	rint with business card if	preferred)	
Additional Information	www.scsengineers.c	he D	EH website, www	v.sdcdeh.org.	Fax or email your
completed form to the The following informat	e Public Recor	ds Program at (85	8) 505-6848 or <u>de</u> e peeded for each	<u>eh.publicrecoro</u>	<u>ds@sdcounty.ca.gov</u> . rcel number
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Request #5-349

# County of San Diego DEPARTMENT OF ENVIRONMENTAL HEALTH

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ELIZABETH POZZEBON ASSISTANT DIRECTOR

PUBLIC RECORDS REQUEST FOR THE SITE ASSESSMENT AND MITIGATION (SAM) PROGRAM AND HAZARDOUS MATERIALS DIVISION (HMD)

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	Harry K. Bishop, PhD, PE Senior Project Professional	E-Mail:				
SCS ENGINE	PS	FAX: (	)			
Environmental Consultants and Contractors	8799 Balboa Avenue, Suite 29 San Diego, CA 92123-1568 858 571-5500 x242 Fax 858 571-5357 hbishop@scsengineers.com	//overprint with bus	siness card if pr	eferred)		
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Request # 5-348

# County of San Diego DEPARTMENT OF ENVIRONMENTAL HEALTH

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P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6700 FAX (858) 505-6848
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ELIZABETH POZZEBON ASSISTANT DIRECTOR

PUBLIC RECORDS REQUEST FOR THE SITE ASSESSMENT AND MITIGATION (SAM) PROGRAM AND HAZARDOUS MATERIALS DIVISION (HMD)

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	Harry K. Bishop, PhD, PE Senior Project Professional	E-N	lail:		
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SCS ENGINE		TOTAL CONTRACTOR			
Environmental Consultants and Contractors	8799 Balboa Avenue, Suite 29 San Diego, CA 92123-1568 858 571-5500 x242 Fax 858 571-5357	(F-14)			
L	hbishop@scsengineers.com	l/overprint	with business card if p	preferred)	
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The following information	nn is required. Separ	grani at (656 <i>)</i> ste forms <i>ar</i> e n	eeded for each	address or parcel	number.
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DEH compiles fully with the California Public Records Act and the Federal Freedom of Information Act. Please be advised that photocopy and/or scanned file fees may apply.



USER QUESTIONNAIRES

# ATTACHMENT A USER QUESTIONNAIRE

One of the primary reasons an Environmental Site Assessment or Phase I (ESA) is completed for a real estate transaction is to document due diligence efforts and "all appropriate inquiry," thereby satisfying certain elements required by CERCLA in order to qualify for a Landowner Liability Protection or LLP.

LLP is the term used to describe the three types of potential defenses to Superfund (CERCLA) liability in EPA's Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability ("Common Elements" Guide) issued on March 6, 2003.

In order to qualify for one of the LLPs offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), 40 CFR Part 312 requires that the user must provide the following information (if available) to the environmental professional. Failure to provide this information could result in a determination that the "all appropriate inquiry" is incomplete.

This "Users Questionnaire" is outside the scope of work of the environmental professional completing an ESA for a user. When completed, return the questionnaire either by mail, email, or fax to the environmental professional prior to the site reconnaissance so your responses can be used and incorporated into the final ESA report by the environmental professional as required by 40 CFR Part 312.

(1) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25)

Are you aware of environmental cleanup l	iens against the	property that are filed or recorded
under federal, tribal, state or local law? □	Yes No	If Yes, please describe:

please explain:

(2) Activity and land use limitations (AUL's) that are in place on the site or that have been filled or recorded in a registry (40 CFR 312.26).
Are you aware of any AUL, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local laws?   Yes  No  If Yes, please describe:
(3) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28)
As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?  Yes  Yes  Yes, please explain:
(4) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29)
Does the purchase price being paid for this property reasonably reflect the fair market value of the property? ✓ Yes □ No
If the purchase price is lower than fair market value, do you conclude that is because contamination is known or believed to be present at the property?   Yes  No If Yes,

Scoule ownsthe property

(5) Commonly known or reasonably ascertainable information about the property (40 CFR 312.30)
Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,
(a) Do you know the past use(s) of the property? <b>ZYes</b> □ <b>No</b> If <b>Yes</b> , <b>please</b> describe:
SMACC FARMING
(b) Do you know specific chemicals that are present or once were present at the property?  ☐ Yes ☐ No If Yes, please describe:
(c) Do you know of spills or other chemical releases that have taken place at the property?   Yes No If Yes, please describe:
(d) Do you know of any environmental cleanups that have taken place at the property?  Yes No If Yes, please describe:

(6) The degree of obviousness of the presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)

As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indications that point to the presence or likely presence of contamination of the property? 

Yes 
No If Yes, please explain:

Please attach additional sheets and additional information as needed to complete this questionnaire.

South COAST DEVELOPMENT LLC [Company Name]

Print Name: KEI+h

Title: PRES. South COAST DEVELOPMENT

Date: S/21 14

### ADDITIONAL INFORMATION

In addition, certain information should be collected, if available, and provided to the environmental professional selected to conduct the Phase I. This information is intended to assist the environmental professional but is not necessarily required to qualify for one of the LLPs. The information includes:

(a) The reason the Phase I is required:

SAN DIEGO CORNTY REQUIRED IT

- (b) The type of property and type of property transaction, for example, sale, purchase, exchange, etc.:

  \*\*PROCEST\*\*

  \*\*REALT\*\*

  \*\*PROCEST\*\*

  \*\*PROC
- (c) The complete and correct address of the property (a map or other documentation showing property location and boundaries is helpful):

ALREADY PROVIDED

(d) The scope of services desired for the Phase I (including whether any parties to the property transaction may have a required standard scope of services on whether any consideration beyond the requirements of Practice 1527 are to be considered):

STANDARD SCOPE

(e) Identification of all parties who will rely on the Phase I report:

South COAST DEVELOPMENT LLC

(f) Identification of the site contact and how the contact can be reached:

KEITH GREGORY 958-720-6675 619-991-9829 KEITH OT SCD 2. COM

- (g) Any special terms and conditions which must be agreed upon by the environmental professional:
- (h) Any other knowledge or experience with the property that may be pertinent to the environmental professional (for example, copies of any available prior environmental site assessment reports, documents, correspondence, etc., concerning the property and its environmental condition):

NO

# PHASE I ENVIRONMENTAL SITE ASSESSMENT USER-FURNISHED INFORMATION

The following is a list of documents and information that are useful to SCS in preparing your Phase I Environmental Site Assessment. Check the appropriate boxes below, sign, and return this along with copies of any reasonably available documents or information. This will be attached to and made part of your completed Phase I Report.

Yes	No	
		1. Environmental site assessment reports
	7	2. Environmental audit reports
		3. Environmental permits, i.e. solid waste disposal permits, hazardous waste disposal permits, wastewater permits, National Pollutant Discharge Elimination System (NPDES) permits
		4. Registrations for underground and above-ground storage tanks
	1	5. Material safety data sheets
		6. Community right-to-know plan
		7. Safety plans: preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc.
7 (100)		8. Reports regarding hydrogeologic conditions on the property or surrounding area
	1	9. Notices or other correspondence from any government agency relating to past o existing environmental liens encumbering the property
		10. Hazardous waste generator notices or reports
		11. Geotechnical studies
		12. Information concerning any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products
		13. Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products
	1	14. Disclosure of sumps, pits, drainage systems (existence and location)
	П.	15. Building plans (architectural, utility, structural)
	1	16. Description of current site operations, including layout drawings or sketches
	Π,	17. Title report/chain of title
	/	18. Tax assessor records (previous owner and occupants)
		19. Purchase price analysis (if lower than comparable)
		20. Current and historical photographs of site

I have reviewed the above list and have provided copies of documents and information that exists that could be obtained within reasonable time and cost constraints.

Signature S/31/14
Date

# REGULATORY RECORDS FOR ADJACENT LUST CASE

Environmental Business Solutions

# **HE-17 Integrated Report**

06/13/2014

Date of Report:

Ezip: 92021 Ephone 619-443-5993 5/10/2005 BP Acceptance DT: Last Letter Type: Last Update: 02/10/04 CAD981406986 EL CAJON Ebldg: Ecity: Inp3: Epa: Gas: 155.0 Mp: Corp: Ct: Rinp3: Ename: 7-ELEVEN FOOD STORE #16439 In: Sic1: St: OLDE Estr: Fuel-Dispense no repair BARRY FEELEY MFITZMAU 120203 14110 Estrno: ActDesc: Contact: Estno: Iname: Edir:

Violation(s):	s):				
120203	6HV3253	8/5/2002	6193	STICKER/TAG NOT AFFIXED TO MONIT. EQUIP.	
120203	6HX3002	7/28/1998	1908	UST OWNR-OPR W/O HEALTH PERMIT	
120203	6HX3014	7/28/1998	1909	QUANT RELEASE DETECTION INADEQUATE	
120203	6HX3015	7/28/1998 1910	1910	ANNUAL INTEGRITY TEST NOT DONE	
120203	6HV1096	7/28/1998 1911	1911	NO EMPLOYEE TRAINING RECORDS	
120203	6HV1097	7/28/1998	1912	HMBP: NO EMPLOYEE TRAINING PROGRAM	
120203	6HV0135	9/14/1999	4219	MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT	
120203	6HX3004	9/14/1999 4220	4220	NO SIR DATA TO LOCAL AGENCY	
120203	6HV0135	3/1/2001 8496	8496	MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT	
120203	6HV1096	3/1/2001 8497	8497	NO EMPLOYEE TRAINING RECORDS	
120203	6HX0062	3/1/2001	8498	NO UST OWNER OPERATOR AGREEMENT	
120203	6HX3001	3/1/2001 8499	8499	UST RECORDS NOT MAINTAINED ONSITE	

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# **HE-17 Integrated Report**

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)					ī.
	NO CURRENT FINANCIAL RESPONSIBILITY	4667	2/23/2005	6HV3105	120203
	OPER. PERMIT NOT CURRENT/ONSITE	4666	2/23/2005	6HV3102	120203
	UPF PERMIT NOT CURRENT/ONSITE	4665	2/23/2005	6HV3101	120203
	IMPRESSED CURRENT TEST NOT DONE ON TIME	4535	3/27/2003	6HV3302	120203
	IMPRESSED CURRENT TEST NOT DONE ON TIME	4534	3/27/2003	6HV3302	120203
	IMPRESSED CURRENT TEST NOT DONE ON TIME	4533	3/27/2003	6HV3302	120203
ľ	2NDRY CONT TEST NOT DONE (6/36 MOS.)	4532	3/27/2003	6HV3112	120203
1	IMPRESSED CURRENT TEST NOT DONE ON TIME	6197	8/5/2002	6HV3302	120203
f	IMPRESSED CURRENT TEST NOT DONE ON TIME	6196	8/5/2002	6HV3302	120203
ľ	IMPRESSED CURRENT TEST NOT DONE ON TIME	6195	8/5/2002	6HV3302	120203
ſ	STICKER/TAG NOT AFFIXED TO MONIT. EQUIP.	6194	8/5/2002	6HV3253	120203
ſ	UNDERGROUND STORAGE TANK MONITORING/MAINTENANCE/CALIBRATION RECORDS ARE NOT MAINTAINED ON SITE. HSC 25293; CCR 2712(B), 2641(I)	V004	01 3/1/2001 V004 GENERAL VIOLATION		120203
	STICKER/TAG NOT AFFIXED TO MONIT. EQUIP,	6192	8/5/2002	6HV3253	120203
1	NO 2NDARY CONTAINMT. TEST/REPAIRS	2975	2/14/2006	6HV3115	120203
	MONITORING SYTEM NOT TESTED ANNUALLY	8500	3/1/2001	6HX3003	120203

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OR UNDERGROUND STORAGE TANK MONITORING/MAINTENANCE/CALIBRATION RECORDS UNDERGROUND STORAGE TANK MONITORING/MAINTENANCE/CALIBRATION RECORDS ARE NOT MAINTAINED ON SITE. HSC 25293; CCR 2712(B), 2641(I) PERSONNEL TRAINING RECORDS NOT AVAILABLE TO SHOW THAT PERSONNEL HAVE RECEIVED INITIAL AND ANNUAL REFRESHER TRAINING. CCR 2732(B) WRITTEN ROUTINE MONITORING PROCEDURE FOR THE UNDERGROUND STORAGE MONTHLY RECONCILIATION IS NOT BEING PERFORMED OR IS BEING PERFORMED IMPROPERLY. SPILL CONTAINER/OVERFILL PREVENTION SYSTEM IS NOT PROPERLY INSTALLED MAINTAINED AS REQUIRED. FAILED TO NOTIFY THE HMMD OF MONTHLY INVENTORY VARIATION EXCEEDING THE ALLOWABLE MONTHLY ERROR. OWNER/OPERATOR HAS NOT TESTED THE PRESSURIZED PRODUCT LINE LEAK DETECTION DEVICE ANNUALLY AS REQUIRED. HSC 25292(B) (4) (C) BUSINESS PLAN DOES NOT LIST THE NAME AND 24 HOUR PHONE NUMBERS OF EMERGENCY CONTACT PERSONS. HSC 25509(A)(7);CCR 2729(A)(6) DOCUMENTATION SHOWING EVIDENCE OF FINANCIAL RESPONSIBILITY IS NOT AVAILABLE. DOCUMENTATION SHOWING EVIDENCE OF FINANCIAL RESPONSIBILITY IS NOT AVAILABLE. TANK OWNER HAS FAILED TO CONDUCT AN ANNUAL INTEGRITY TEST AS TANK OWNER HAS FAILED TO CONDUCT AN ANNUAL INTEGRITY TEST AS HSC 25509(A)(7);CCR 2729(A)(6) CCR 2732(B) HSC 25293; CCR 2712(B), 2641(I) HSC 25293; CCR 2712(B), 2641(I) HSC 25292, CCR 2643,2645 HSC 25292, CCR 2643,2645 CCR 2646(K) TANK SYSTEM HAS NOT BEEN PREPARED AND IMPLEMENTED. HMBP: NO EMPLOYEE TRAINING PROGRAM NO 2NDARY CONTAINMT. TEST/REPAIRS ARE NOT MAINTAINED ON SITE. CCR2632(E)(1),2634(B)(2) REQUIRED. REQUIRED. 01 3/17/1995 V003 GENERAL VIOLATION 01 5/19/1993 V002 GENERAL VIOLATION 5/19/1993 V003 01 5/19/1993 V004 GENERAL VIOLATION 3/17/1995 V005 01 3/17/1995 V008 GENERAL VIOLATION 2/23/2005 4668 5/19/1993 V001 6/5/1996 V004 3/17/1995 V001 3/17/1995 V002 3/17/1995 V004 3/17/1995 V006 3/17/1995 V007 3/1/2001 8501 GENERAL VIOLATION 6HV3115 6HV1097 5 5 5 5 5 5 6 5 5 120203 120203 120203 120203 120203 120203 120203 120203 120203 120203 120203 120203 120203 120203 120203

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7009 7004 7007 7007 7007 7003 7003 7003	BUSINESS PLAN DOES NOT INCLUDE AN ADEQUATE EMPLOYEE TRAINING PROGRAM WITH EMERGENCY NOTIFICATION, MITIGATION&EVACUATION PROCEDURES. HSC25504(C)	BUSINESS PLAN WAS NOT AMENDED WITHIN 30 DAYS FOR A 100% QUANTITY IN- CREASE,NEW DISCLOSABLE MATERIALS OR A CHANGE IN BUSINESS INFO.HSC 25505	BUSINESS PLAN DOES NOT INCLUDE AN ADEQUATE EMPLOYEE TRAINING PROGRAM WITH EMERGENCY NOTIFICATION, MITIGATION&EVACUATION PROCEDURES. HSC25504(C)	PERSONNEL TRAINING RECORDS NOT AVAILABLE TO SHOW THAT PERSONNEL HAVE RECEIVED INITIAL AND ANNUAL REFRESHER TRAINING. CCR 2732(B)	MONITOR SYSTEM NOT ALL FUNCTIONAL	OPERATOR OF THE UNDERGROUND STORAGE TANK HAS NOT ENTERED INTO A WRITTEN CONTRACT WITH TANK OWNER AND NOTIFIED THE HMMD HSC 25293(B)	PERSONNEL TRAINING RECORDS NOT AVAILABLE TO SHOW THAT PERSONNEL HAVE RECEIVED INITIAL AND ANNUAL REFRESHER TRAINING. CCR 2732(B)	HAZARDOUS WASTE MANIFESTS/RECEIPTS ARE NOT MAINTAINED ON SITE TO DOCUMENT PROPER DISPOSAL OF HAZARDOUS WASTE CCR 66262.40, 66272.1	OWNER/OPERATOR HAS NOT PROVIDED STATISTICAL INVENTORY RECONCILIATION CONTRACTOR OR THE LOCAL ENFORCEMENT AGENCY WITH ADEQUATE DATA RECORDS.	OPERATOR OF THE UNDERGROUND STORAGE TANK HAS NOT ENTERED INTO A WRITTEN CONTRACT WITH TANK OWNER AND NOTIFIED THE HMMD HSC 25293(B)	BUSINESS PLAN DOES NOT INCLUDE AN ADEQUATE EMPLOYEE TRAINING PROGRAM WITH EMERGENCY NOTIFICATION, MITIGATION & EVACUATION	QUANTITATIVE RELEASE DETECTION METHOD (TANK/LINE TESTING, ATG, LINE LEAK DETECTORS, ETC.) DOES NOT MEET PERFORMANCE STANDARDS. CCR 2643	TANK OWNER HAS FAILED TO CONDUCT AN ANNUAL INTEGRITY TEST AS HSC 25292, CCR 2643,2645	QUANTITATIVE RELEASE DETECTION METHOD (TANK/LINE TESTING, ATG; LINE LEAK DETECTORS, ETC.) DOES NOT MEET PERFORMANCE STANDARDS. CCR 2643
		V001		V004	0595		V002	V001		V002		V003 N		

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OWNER/OPERATOR HAS NOT PROVIDED STATISTICAL INVENTORY RECONCILIATION CONTRACTOR OR THE LOCAL ENFORCEMENT AGENCY WITH ADEQUATE DATA OWNER/OPERATOR HAS NOT HAD MONITORING EQUIPMENT TESTED ANNUALLY AS TANK OWNER HAS NOT OBTAINED A VALID SAN DIEGO COUNTY UNDERGROUND HAZARDOUS WASTE MANIFESTS/RECEIPTS ARE NOT MAINTAINED ON SITE TO DOCUMENT PROPER DISPOSAL OF HAZARDOUS WASTE CCR 66262.40, 66272.1 OWNER/OPERATOR HAS NOT TESTED THE PRESSURIZED PRODUCT LINE LEAK DETECTION DEVICE ANNUALLY AS REQUIRED. HSC 25292(B) (4) (C) HSC 25292(B) (4) (C) HSC 25284, SDCC 68.1105 IMPRESSED CURRENT TEST NOT DONE ON TIME MONITORING SYTEM NOT TESTED ANNUALLY HMBP: NO EMPLOYEE TRAINING PROGRAM HMBP: NO EMPLOYEE TRAINING PROGRAM NO UST OWNER OPERATOR AGREEMENT **UST RECORDS NOT MAINTAINED ONSITE** NO EMPLOYEE TRAINING RECORDS MANIFESTS/RECEIPTS NO ONSITE MANIFESTS/RECEIPTS NO ONSITE REQUIRED. 23CCR 2630, 2641 (J) NO SIR DATA TO LOCAL AGENCY STORAGE TANK PERMIT. RECORDS. 1229 6/5/1996 V005 3/1/2001 V005 9/14/1999 V001 8/5/2002 9069 6940 6941 1226 1228 1230 7/28/1998 V001 9/23/1997 V001 7/28/1998 4603 1227 3/1/2001 1231 **GENERAL VIOLATION** GENERAL VIOLATION GENERAL VIOLATION GENERAL VIOLATION **GENERAL VIOLATION** 9/14/1999 3/1/2001 9/14/1999 3/1/2001 3/1/2001 3/1/2001 3/1/2001 6HV0135 6HV1096 6HX3003 6HV0135 6HV3302 6HV1097 6HX3004 6HX0062 6HX3001 6HV1097 5 5 5 5 6 120203 120203 120203 120203 120203 120203 120203 120203 120203 120203 120203 120203 120203 120203 120203

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120203	6HV3263	2/7/2007	3786	MONITOR SYSTEM NOT ALL FUNCTIONAL
120203	6HV3115	1/28/2008	1275	NO 2NDARY CONTAINMT. TEST/REPAIRS
120203	6HV3255	1/28/2008	1276	SPILL CONTAIN. NOT DRY/IN GOOD CONDITION
120203	6HV3302	8/5/2002	2906	IMPRESSED CURRENT TEST NOT DONE ON TIME
120203	6HX3003	3/1/2001	2573	MONITORING SYTEM NOT TESTED ANNUALLY
120203	6HV3115	1/28/2008	8239	NO 2NDARY CONTAINMT. TEST/REPAIRS
120203	6HV3255	1/28/2008	8240	SPILL CONTAIN. NOT DRY/IN GOOD CONDITION
120203	6HV3411	1/28/2008	8241	LLD NOT INSTALLED/NOT FUNCTIONAL
120203	6HV3263	1/14/2010	2465	MONITOR SYSTEM NOT ALL FUNCTIONAL
120203	6HX3002	7/28/1998	5984	UST OWNR-OPR W/O HEALTH PERMIT
120203	6HX3014	7/28/1998	5985	QUANT RELEASE DETECTION INADEQUATE
120203	6HX3015	7/28/1998	5986	ANNUAL INTEGRITY TEST NOT DONE
120203	6HV1096	7/28/1998	5987	NO EMPLOYEE TRAINING RECORDS
120203	6HV1097	7/28/1998	5988	HMBP: NO EMPLOYEE TRAINING PROGRAM
120203	6HV0135	9/14/1999	8348	MANIFESTS/RECEIPTS NO ONSITE
120203	6HX3004	9/14/1999	8349	NO SIR DATA TO LOCAL AGENCY

Environmental	Business	Solutions

120203	6HV0135	3/1/2001	2569	MANIFESTS/RECEIPTS NO ONSITE
120203	6HV1096	3/1/2001	2570	NO EMPLOYEE TRAINING RECORDS
120203	6HV1096	7/28/1998	4602	NO EMPLOYEE TRAINING RECORDS
120203	6HV3302	8/5/2002	0413	IMPRESSED CURRENT TEST NOT DONE ON TIME
120203	6HV3411	1/28/2008	1277	LLD NOT INSTALLED/NOT FUNCTIONAL
120203	6HX3002	7/28/1998	4599	UST OWNR-OPR W/O HEALTH PERMIT
120203	6HV3302	3/27/2003	8761	IMPRESSED CURRENT TEST NOT DONE ON TIME
120203	6HV3302	3/27/2003	8760	IMPRESSED CURRENT TEST NOT DONE ON TIME
120203	6HV3302	3/27/2003	8759	IMPRESSED CURRENT TEST NOT DONE ON TIME
120203	6HX0062	3/1/2001	2571	NO UST OWNER OPERATOR AGREEMENT
120203	6HV3302	8/5/2002	0414	IMPRESSED CURRENT TEST NOT DONE ON TIME
120203	6HX3001	3/1/2001	2572	UST RECORDS NOT MAINTAINED ONSITE
120203	6HV3302	8/5/2002	0412	IMPRESSED CURRENT TEST NOT DONE ON TIME
120203	6HV3253	8/5/2002	0411	STICKER/TAG NOT AFFIXED TO MONIT. EQUIP.
120203	6HV3253	8/5/2002	0410	STICKER/TAG NOT AFFIXED TO MONIT. EQUIP.
120203	6HV3253	8/5/2002	0409	STICKER/TAG NOT AFFIXED TO MONIT. EQUIP.

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REGULAR UNLEADED UNDERGROUND TANK 120203 T004 REGULAR UNLEADED UNDERGROUND TANK 120203 T004 METAL DRUMS 0-5 GALLONS RECYCLE METAL DRUMS 0-5 GALLONS RECYCLE METAL DRUM 001 RECYCLE METAL DRUM 001 RECYCLE 001 RECYCLE METAL DRUM 001 RECYCLE METAL DRUM REGULAR UNLEADED SUPER UNLEADED HMBP: NO EMPLOYEE TRAINING PROGRAM 2NDRY CONT TEST NOT DONE (6/36 MOS.) ANNUAL INTEGRITY TEST NOT DONE 352 134 352 134 352 352 55 GAL 1300 10 LBS 30 10 LBS 30 10 LBS 30 FIRE ACUTE FIRE ACUTE FIRE FIRE 3/1/2001 ORGANIC SOLIDS (OTHER)
PACIFIC TREATMENT ENVIRON 9/14/1999 ORGANIC SOLIDS (OTHER) PACIFIC TREATMENT ENVIRON 1/28/2008 ORGANIC SOLIDS (OTHE 2997 BELSHIRE ENVIRONMENT 1/28/2008 AQUEOUS SOL'N W/LESS 2997 BELSHIRE ENVIRONMENT 2997 BELSHIRE ENVIRONMENT 2997 BELSHIRE ENVIRONMENT 3006-61-9 8006-61-9 3006-61-9 8006-61-9 1/14/2010 AQUEOUS SOL'N W/LESS 1/14/2010 ORGANIC SOLIDS (OTHE 4601 3/27/2003 8758 3/1/2001 2574 7/28/1998 6HX3015 6HV3112 6HV1097 120203 120203 120203 120203 Disclosures: 120203 120203 120203 W001 W001 **RE85 SU87 RE70** REG Waste: 134 134 352 352

Solutions	ons					Date of Report: 06/13/2014
RE10	120203	8006-61-9	FIRE		REGULAR UNLEADED UNDERGROUND TANK 120203 T004	ERGROUND TANK 120203
PRE	120203	8006-61-9	FIRE ACUTE		PREMIUM UNLEADED UNDERGROUND TANK 120203 T005	ERGROUND TANK 120203
PR71	120203	8006-61-9	FIRE		PREMIUM UNLEADED UNDERGROUND TANK 120203 T005	ERGROUND TANK 120203
PR11	120203	8006-61-9	FIRE ACUTE		PREMIUM UNLEADED UNDERGROUND TANK 120203 T005	ERGROUND TANK 120203
PL86	120203	8006-61-9	FIRE		PLUS UNLEADED	
SAM Releases:	eases:					
001	SOUTHLAND (UNKNOWN SOURC		COMPLAINT / Other	DEH	11/1/1984 CLOSED	3/7/1985
002	7-ELEVEN FOOD STORE #16439		TANK, Failed Test	DEH	7/30/1987 CLOSED	9/15/1987
003	7-ELEVEN FOOD STORE #16439		TANK, Failed Test	DEH	6/1/1988 CLOSED	6/16/1988
004	SOUTHLAND - OLD HY 80 EL CAJO TANK, Release (W)	HY 80 EL CAJO TAN	VK, Release (W)	DEH	7/27/1993 OPEN	6/15/1999
Tanks:						
1001	RT1383/NT 10000	REGULAR UNLEADED		SPILL BA	SINGLE WALL AUTO SHUTOFF & BALL FLOAT VEEDER ROOT	BALL FLOAT
T002	RT1383/NT 9940	MIDGRADE UNLE REMOVED	EADED	SPILL BA	SINGLE WALL AUTO SHUTOFF & BALL FLOAT VEEDER ROOT	BALL FLOAT

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T003	RT1383/NT 6000	0000	PREMIUM UNLEADED		SINGLE WALL
			REMOVED	SPILLBA	AUTO SHOTOFF & BALL FLOAT
					VEEDER ROOT
T004	NT2379(PO 10000	0000	REGULAR UNLEADED		DOUBLE WALL
			ACTIVE	AUTOS	SHUTOFF & SPILL BASIN
				)	VEERDER ROOT
T005	NT2379(PO 10000	0000	PREMIUM UNLEADED		DOUBLE WALL
			ACTIVE	SPIII BA	AUTO SUCIOET & TLA
					VEERDER ROOT



JACK MILLER Director

### County of San Diego

ELIZABETH POZZEBON
Assistant Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
Phone: (858) 505-6700/1 (800) 253-9933
www.sdcdeh.org

January 10, 2014

Mr. Jose Rios 7-Eleven, Inc. P.O. Box 711 Dallas, TX 75221-0711

McKinley Investments L P 12837 Camino Ramillette San Diego, CA 92128 Brunetto Family Trust 12-27-90 1875 Lisa Terrace El Cajon, CA 92021

Admiral Guest Trust Bank P.O. Box #A375 San Diego, CA 92112

Dear Responsible Parties:

UNDERGROUND STORAGE TANK (UST) CASE #H20203-004 7-ELEVEN LOCATION NO. 16439 14110 OLDE HIGHWAY 80, EL CAJON, CA 92021

This letter confirms the completion of a site investigation and corrective action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks is greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tanks site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code, and that no further action related to the petroleum release at the site is required.

Claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact Craig Burnett, at (858) 505-6978, if you have questions regarding this matter.

Sincerely,

JACK MILLER, Director

Department of Environmental Health Site Assessment and Mitigation Program

Enclosure

cc: Mr. Pat McConnell, Stantec Consulting Services, Inc.

## Case Closure Summary Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION		DATE: 1/10/2014
Agency Name: County of San Diego, Environmental Health, SAM	Address: P.O. Box 129261	
City/State/Zip: San Diego, CA 92112-9261	Phone: (858) 505-6700	FAX: (858) 505-6891
Responsible Staff Person: Craig Burnett	Title: Environmental Health S	pecialist II

Responsible	Staff Person: Craig Bu	ırnett	Title: Environ	mental Health Specialist	: 11
II. CA	ASE INFORMATION	N			
Site Facility	Name: 7-Eleven # 1643	9			
Site Facility	Address: 14110 Olde H	ighway 80, El Cajon, CA 9	2021		
RB LUSTIS C	Case No: 9UT2534	Local Cas	se No: H20203-004	LOP Case No:	N/A
URF Filing D	ate: 10/13/1993	SWEEPS	No: N/A		
Responsible	Parties		Address	F	Phone Number
Mr. Jose Rio	s, 7-Eleven Inc.	F	P.O. Box 711, Dailas, TX 75221-07	711 (	(972) 828-6592
Brunetto Fan	mily Trust 12-27-90	1	875 Lisa Terrace, El Cajon, CA 9	2021	
McKinley Inv	restments L P	1:	2837 Camino Ramillette, San Die	go, CA 92128	
Admiral Gue	st Trust Bank	Р	.O. Box #A375, San Diego, CA 92	2112	
Tank No.	Size in Gal.	Contents	Status	Date	
T001	10,000 Gallons	Regular Unleaded	Closed By Removal	1/12/2004	
T002	10,000 Gallons	Midgrade Unleaded	Closed By Removal	1/12/2004	
T003	6,000 Gallons	Premium Unleaded	Closed By Removal	1/12/2004	
T004	10,000 Gallons	Regular Unleaded	Current	Installed 1/23/2004	
T005	10,000 Gallons	Premium Unleaded	Current	Installed 1/23/2004	

III.	RELEASE AND SITE	CHARACTERIZATION INFORMATION
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Cause of Releas	se: Substance released from t	JST system.	Substance Rele	eased: Gasoline		
Site Characteriz	ation complete Yes	Date Ap	proved By Oversight Ag	gency: 2/1/2000		
Monitoring Well	s Installed Yes	Number	: 20	Proper Scree	ened Interval? Yes*	
Highest GW De	oth B.G. Surface: 3.62 feet	Lowest	Depth: 15.00 feet	Flow Direction	on: Southwest, 0.06 ft/ft	
Most Sensitive		ial Surface Water L	cipal, Agricultural, and I Jse: Agricultural, Indus ontact Recreation, Colo	trial Service and Pro	cess Supply, Non-	
Are Drinking Wa	iter Wells Affected? No		Aquifer Name: 907.14	- (Coches Hydrologi	c Subarea)	
Is Surface Water Affected? No			Nearest SW name: Hansen Reservoir, approximately 4,000 feet southwest			
Off-Site Benefic	ial Use Impacts None					
Report(s) on file	Yes	Where are Rep	orts Filed? County of	San Diego, Departme	ent of Environmental Health	
TREATMENT AN	ID DISPOSAL OF AFFECTED	MATERIAL				
Material	Amount (Include Units)	Action (Treatmer	nt or Disposal)		Date	
Tank(s)	3 Tanks	Recycled, Americ	can Metal Recycling, Inc	c., Ontario, CA	1/12/2004	
Soil `	18 Cubic Yards		te, Soil Wash, San Die		12/9/1997	
Soil	533 Cubic Yards		te, TPS Technologies,		1/13/2004 - 1/19/2004	
Water	2,400 Gallons		le, Demenno Kerdoon,		1/13/2004 - 2/2/2004	
Vapor	2,394 Pounds	Treatment On Sit			2/15/2000 - 11/11/2004	
Purge Water	Unknown		On Site 2/15/2000 - 1 Accordance with 40 CFR and Title 22 12/26/1993 -			

### **Case Closure Summary**

### Leaking Underground Fuel Storage Tank Program

### III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

H20203-004

	MAXIMUM	REMAINING
•		
Gasoline	= 8,400 mg/kg	= 1,300 mg/kg
Diesel	< 10 mg/kg	< 10 mg/kg
Benzene	= 75.08 mg/kg	= 0.2 mg/kg
Toluene	= 420.40 mg/kg	= 0.3 mg/kg
Ethyl benzene	= 83.33 mg/kg	= 8.6 mg/kg
Xylene (individual isomers or total)	= 566.56 mg/kg	= 18 mg/kg
Methyl-tert-butyl ether (MTBE)	= 3.8 mg/kg	= 0.12 mg/kg
tert-Butyl Alcohol (TBA)	= 0.356 mg/kg	< 0.005 mg/kg
tert-Amyl-methyl ether (TAME)	< 0.01 mg/kg	< 0.005 mg/kg
Ethyl-tert-butyl ether (ETBE)	< 0.01 mg/kg	< 0.005 mg/kg
di-isopropyl ether (DIPE)	< 0.01 mg/kg	< 0.005 mg/kg
ER		
Gasoline	= 210,000 ug/l	= 1,800 ug/l
Benzene	= 20,000 ug/l	= 3.1 ug/l
Toluene	= 53,000 ug/l	= 0.86 ug/l
Ethyl benzene	= 4,700 ug/l	= 1.0 ug/i
Xylene (individual isomers or total)	= 27,000 ug/i	= 1.9 ug/l
Methyl-tert-butyl ether (MTBE)	= 20,000 ug/l	= 13 ug/l
tert-Butyl Alcohol (TBA)	= 930 ug/l	= 9.0 ug/l
tert-Amyl-methyl ether (TAME)	= 1.3 ug/l	< 0.50 ug/l
Ethyl-tert-butyl ether (ETBE)	< 30 ug/i	< 0.50 ug/l
di-isopropyl ether (DIPE)	< 30 ug/l	< 0.50 ug/l
ID PHASE HYDROCARBONS	0.02 feet	0 feet

### Comments:

7-Eleven Store # 16439 (Site), located at the northeast corner of Olde Highway 80 and Lake Jennings Park Road, is an operating gas station located in a commercial shopping center. The site is bounded by Olde Highway 80 and residential property towards the south, commercial business towards the east, Lake Jennings Park Road towards the west, and Interstate 8 towards the north.

On July 27, 1993, soil sampling was conducted during upgrades to the Underground Storage Tank (UST) system at the site. Laboratory results from this initial investigation indicated Total Petroleum Hydrocarbons as gasoline (TPHg) ranging from below laboratory reporting limit (ND) to 8,400 milligrams per kilogram (mg/kg). Based on the results, Unauthorized Release case H20203-004 was opened. Approximately 27 tons (approximately 18 cubic yards) of hydrocarbon impacted soil were removed during UST system upgrades.

From 1993 to 1998, additional site assessment investigations were conducted to delineate the extent of hydrocarbons in soil and groundwater. These investigations included the installation of twelve groundwater monitoring and sampling wells. Results from soil sampling indicated TPHg concentrations ranging from ND to 5,057 mg/kg. Benzene concentrations in soil ranged from ND to 75.08 mg/kg. Concentrations of benzene and Methyl Tertiary Butyl Ether (MTBE) in groundwater ranged from ND to 20,000 µg/L. Dissolved-phase impacts to groundwater extended southwest approximately 250 feet offsite.

The site is located in a basin designated for beneficial municipal, agricultural, and industrial process and service supply uses. Groundwater flow direction is towards the southwest. Groundwater monitoring wells installed onsite and offsite have shown that groundwater has been impacted by the unauthorized release. Quarterly groundwater monitoring and sampling was conducted at the site from December 1993 through December 2009 and Semi-annually from January 2010 through May 2012.

In October 1998, three Air Sparge/Soil Vapor Extraction (AS/SVE) wells were installed. AS/SVE feasibility testing was conducted in December 1998 to obtain a long term cleanup solution. Based on the results, AS/SVE appeared to be an effective remedial alternative and was presented as the chosen remedial alternative in the Corrective Action Plan. In October 1999, an additional five AS/SVE wells were installed. Remedial efforts were conducted from February 2000 through November 2004 and then shut down to evaluate rebound conditions. The system was not restarted following the evaluation. The consultant estimates the AS/SVE system successfully removed approximately 2,394 pounds of hydrocarbons from the site. The consultant estimates approximately 237 cubic yards of hydrocarbon impacted soil greater than 100 mg/kg remain offsite. Remedial actions have reduced hydrocarbon concentrations in groundwater near or below Maximum Concentration Limits.

A receptor search was conducted within ½ mile radius of the site. Based on soil and groundwater concentrations, the consultant concludes there were no potential receptors. The consultant concludes that the remedial alternative has been effective in removing hydrocarbon impacts in soil and groundwater. The consultant recommends no further action for this unauthorized release. DEH concurs with this recommendation.

### **Case Closure Summary**

### Leaking Underground Fuel Storage Tank Program

IV. CLOSURE

H20203-004

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? No, MTBE and benzene are at or slightly above MCLs.

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? No, MTBE and benzene are at or slightly above MCLs.

Does corrective action protect public health for current land use? Yes

Case oversight completed based upon the following site use: Commercial

Site Management Requirements:

Any Contaminated Soil Excavated As Part Of Subsurface Construction Work Must Be Managed in Accordance With The Legal Requirements At That Time.

Should corrective action be reviewed if land use changes? Yes

Monitoring Wells Decommissioned: Yes

Number Decommissioned: 2 Number Retained: 18\*\*

List Actions Taken: Notice Of Reimbursement/Local None

List Enforcement Actions Rescinded: None

### V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Kevin M.	Heaton, PG 4163,	CHg 163	Title: Senior Hydrogeologist	
Signature:		Kevin Heaton 2014.01.10 11:05:21 -08'00'	Date: 1/10/2014	

### VI. RWQCB NOTIFICATION

Date Submitted to RB: 11/13/2013	RB Response: No Response	
RWQCB Staff Name: Craig Carlisle	Title: Senior Engineering Geologist	Date: 12/13/2013

### VII. ADDITIONAL COMMENTS, DATA, ETC

\* Monitoring Well MW-1 improperly sceened well (submerged screen).

\*\*A permit for the destruction of the monitoring wells was issued on 12/24/2013. The permit number is DEH2013-LMWP-000799.

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.



SECOR INTERNATIONAL INCORPORATED

www.secor.com

2655 Camino Del Rio N. Suite 302 San Diego, CA 92108 619-296-6195 TEL 619-296-6199 FAX

September 27, 2005

08EL.16439.05.0537

Mr. James Clay County of San Diego, LWQD P.O. Box 129261 San Diego, CA 92112-9261

Subject:

Justification for Remediation System Shut-Down

7-Eleven Location No. 16439 14110 Old Highway 80 El Caion, California 92021

Unauthorized Release No.: H20203-004

Dear Mr. Clay:

On behalf of 7-Eleven, Inc. (7-Eleven), SECOR International Incorporated (SECOR) has prepared this letter to provide justification for remediation system shut down at the subject site (Figure 1). This letter summarizes the assessment and remediation work performed to date at the site and compares the maximum and current groundwater conditions at the site to clean up goals provided in the Addendum to the Corrective Action Plan (CAP) dated October 11, 1999. This letter has been prepared in response to a request from the County of San Diego, Land and Water Quality Division (LWQD) dated July 26, 2005.

### BACKGROUND

### Previous Assessment

In July 1993, the gasoline product lines were excavated and replaced from the pump island to the underground storage tanks (USTs). In December 1993, Kleinfelder, Inc. installed three soil borings and groundwater monitoring well MW-1 (Figure 2). In August 1996, SECOR conducted a passive soil gas survey at the site. Based on the results of the survey, five groundwater monitoring wells (MW-2 through MW-6) were installed. In 1997 and 1998, SECOR installed six additional monitoring wells (MW-7 through MW-12).

In 1999, SECOR designed and installed a soil and groundwater remediation system. A combined air sparging/soil vapor extraction (AS/SVE) system began operating on February 15, 2000. The original SVE system consisted of a combined thermal and catalytic oxidizer unit (located north of the existing 7-Eleven store building) manifolded to eight soil vapor extraction wells (VE-1, VE-2, VE-3, VE-4, VE-5, VE-6, VE-7, and VE-8). The AS system consists of a 10-horsepower air compressor, capable of supplying up to 35 standard cubic feet per minute (scfm) of filtered atmospheric air at a regulated pressure, manifolded to eight air sparge wells (AS-1, AS-2, AS-3, AS-4, AS-5, AS-6, AS-7, and AS-8). A site plan illustrating the layout of the AS/SVE system is presented as Figure 2.

The SVE system began operation in catalytic destruction mode and operated intermittently to the end of August 2001. On August 29, 2001, the SVE system was shut down pending conversion to a carbon system. On November 15, 2001, the SVE system was dismantled and transported to another 7-Eleven site. In June 2003, a blower and carbon canisters were installed on site to allow air sparge and soil vapor extraction system operations

to resume. The SVE system started operating in carbon adsorption mode on July 3, 2003, and the AS system began operating on September 5, 2003. The AS/VE system removed and treated approximately 2,394 pounds of hydrocarbons during system operation. Due to equipment theft, the AS/VE system has been off-line since October 28, 2004. Soil vapor extraction system sample analytical results are summarized in Table 1.

In January 2004, SECOR observed the removal of one 6,000-gallon and two 10,000-gallon steel USTs at the site. Total petroleum hydrocarbons as gasoline (TPHg) concentrations of 8.0 milligrams per kilogram (mg/kg), 9.0 mg/kg and 24 mg/kg were detected in three of nine soil samples. Total petroleum hydrocarbons as diesel (TPHd) concentrations ranging from 1.0 mg/kg to 144 mg/kg were detected in six soil samples. Benzene was detected in one of nine soil samples at a concentration of 0.0031 mg/kg. Methyl-t-butyl ether (MTBE) was detected in four soil samples at concentrations ranging from 0.0015 mg/kg to 0.0049 mg/kg. Following the completion of soil sampling, two new double-walled fiberglass USTs were installed.

In March 2004, SECOR submitted a work plan to the LWQD for air sparge system installation to address persistent MTBE concentrations in groundwater in off-site wells MW-8 and MW-9. Following a series of discussions with Caltrans regarding encroachment permits for system installation, the Caltrans permit was approved in May 2005. MTBE concentrations in off-site wells MW-8 and MW-9 have declined and the off-site air sparge system installation has been put on hold pending LWQD review.

### **On-Site Groundwater Conditions**

Historical groundwater analytical results are summarized in Table 2. Maximum and current onsite groundwater concentrations are summarized in Table 3. Hydrographs are presented in Attachment A.

Quarterly groundwater monitoring has been conducted at the site since November 1996. The maximum TPHg and MTBE concentrations in groundwater were 210,000 micrograms per liter ( $\mu$ g/L) and 20,000  $\mu$ g/L, respectively, in well MW-7 (May 1998). The maximum benzene, toluene, ethylbenzene and xylene (BTEX) concentrations in groundwater were 20,000  $\mu$ g/L, 53,000  $\mu$ g/L, 4,700  $\mu$ g/L, and 27,000  $\mu$ g/L, respectively, in well MW-7 (May 1998).

In October 1999, SECOR submitted a CAP with the following clean-up goals for groundwater:

Benzene – 1 μg/L Toluene – 150 μg/L Ethylbenzene – 700 μg/L Total Xylenes – 1,750 μg/L MTBE – 5 μg/L

Benzene concentrations in MW-2 and MW-3 have been below CAP clean-up goals and Maximum Contaminant Levels (MCLs) since November 2000. Benzene concentrations in MW-7 have been below CAP clean-up goals and MCLs since December 2003. Benzene concentrations in MW-4 were below CAP clean up goals and MCLs from 1996 to February 2005. Benzene concentrations were detected in well MW-4 for the first time in January 2005.

Toluene, ethylbenzene and total xylenes concentrations have been below MCLs and CAP clean-up goals in MW-2, MW-3, and MW-4 from 1996 to 2005. Toluene, ethylbenzene and total xylenes concentrations have been below MCLs and CAP clean-up goals in MW-7 since November 2000.

MTBE concentrations in MW-2 and MW-3 have been below MCLs and CAP clean-up goals since February and December 2002, respectively. MTBE concentrations in MW-4 have been below MCLs and CAP clean-up goals since November 1999. From December 2003 to July 2005, MTBE concentrations have ranged from 13 to 72  $\mu$ g/L in well MW-7.

### **Off-Site Groundwater Conditions**

Historical groundwater analytical results are summarized in Table 2. Maximum and current onsite groundwater concentrations are summarized in Table 4. Hydrographs are presented in Attachment A.

In the off-site wells, the maximum TPHg concentration was 5,100  $\mu$ g/L in well MW-8 (September 1997). Maximum BTEX concentrations in groundwater were 72  $\mu$ g/L, 19  $\mu$ g/L, 800  $\mu$ g/L, and 420  $\mu$ g/L, respectively, in well MW-8 (September 1997 and April 2000). The maximum MTBE concentration of 1,200  $\mu$ g/L was detected in wells MW-9 (January 2001) and MW-11 (August 2000).

Benzene concentrations have been below CAP clean-up goals and MCLs in MW-5 (1996 to 2005), MW-6 (1996 to 2005), MW-8 (2001 to 2005), MW-9 (April 2003 to July 2005), MW-10 (1998 to 2005) and MW-11 (1998 to 2005).

Toluene, ethylbenzene and total xylenes concentrations have remained below MCLs and CAP clean-up goals in MW-5 and MW-6 (1996 to 2005), MW-8 and MW-9 (1997 to 2005), and MW-10 through MW-12 (May 1998 through 2005).

MTBE concentrations have been below MCLs and CAP clean-up goals in MW-5 and MW-6 since June 1997 and from 1996 to 2005, respectively. MTBE concentrations in MW-8 have ranged from 62 to 196  $\mu$ g/L from February 2004 to July 2005. MTBE concentrations have been less than 100  $\mu$ g/L for the last four quarters. MTBE concentrations in MW-9 have been less than 100  $\mu$ g/L from February 2004 to July 2005. In wells MW-10 and MW-11, MTBE concentrations have been below MCLs and CAP clean-up goals from 1998 to 2005, and from May 2002 to 2005, respectively. In MW-12, MTBE concentrations have ranged from 2.7 to 13  $\mu$ g/L in the last four quarters, and were less than MCLs and CAP clean-up goals for the four quarters prior to Fourth Quarter 2004.

### Estimated Time for Off-Site MTBE Concentrations to Reach MCLs

This section provides an estimate of the time required for groundwater concentrations below the site to reach State of California primary drinking water MCLs. There are currently two off-site monitoring wells (MW-8 and MW-9) that consistently have MTBE concentrations above the primary MCL of 5.0  $\mu$ g/L (Table 2). Hydrographs are presented in Attachment A.

The attenuation of dissolved hydrocarbon concentrations at fuel hydrocarbon sites generally follows a first-order decay trend once the majority of hydrocarbon source material has been

removed. The following equation has been used to describe the observed concentration decrease at a point (e.g. monitoring well) within a dissolved hydrocarbon plume:

 $C = C_0 e^{-kt}$ 

Where:

C = concentration at time t ( $\mu$ g/L) C<sub>0</sub> = initial peak concentration ( $\mu$ g/L)

k = overall attenuation rate constant (days<sup>-1</sup>)

t = elapsed time after observation of peak concentration (days)

To estimate the time for MTBE in wells MW-8 and MW-9 to attenuate to MCLs, SECOR used concentration trends in these wells to estimate first-order attenuation rate constants for MTBE. The resulting rate constants were then used to extrapolate the estimated time to reach MCLs at the site.

The highest reported MTBE concentrations in well MW-8 were 910  $\mu$ g/L and 950  $\mu$ g/L in February 2002 and August 2003, respectively. For well MW-8, a data set beginning with the MTBE concentration of 910  $\mu$ g/L (2002) through the most recent data point, 62  $\mu$ g/L (July 2005) was used for analysis. For well MW-9, a data set beginning with the maximum observed MTBE concentration of 1,200  $\mu$ g/L (2001) through the most recent data point, 35  $\mu$ g/L (July 2005) was used for analysis. Semi-log plots of MTBE concentrations versus time for wells MW-8 and MW-9 are presented as Figures 3 and 4, respectively.

A least-squares statistical method was used to calculate the best-fit trendline through each data set. The best-fit trendline and equation are included on Figures 3 and 4. The slope of the best-fit line is the estimated first-order attenuation rate constant for each data set. Based on the trend-line analyses, MTBE concentrations in the vicinity of wells MW-8 and MW-9 will reach  $5.0~\mu g/L$  (MCL) in approximately 2 to 4 years. The trend analysis is summarized in Table 5.

Based on a review of the site data and experience at similar sites, it is estimated that MTBE concentrations in MW-8 and MW-9 will reach MCLs in 5 to 10 years. This estimate allows for a reasonable amount of uncertainty due to the possible presence of small pockets of residual hydrocarbons below the site that could result in future short-term concentration spikes.

### Conclusions

Based on the current BTEX and MTBE concentrations in on-site wells MW-2, MW-3, MW-4, and MW-7 and off-site wells MW-5 and MW-6, groundwater beneath the site has reached CAP clean up goals except for the MTBE concentrations present in well MW-7. Based on the non-operational status of the AS/SVE system and the declining trends in groundwater concentrations, SECOR recommends that the on-site AS/VE system be shut down permanently.

MTBE concentrations have been less than 100  $\mu$ g/L in off-site wells MW-8 and MW-9 for a minimum of four consecutive quarters. Based on the trend-line analyses, MTBE concentrations in the vicinity of wells MW-8 and MW-9 will reach 5.0  $\mu$ g/L (MCL) in approximately 2 to 4 years. Based on the decreasing MTBE concentration trends, SECOR recommends that the proposed off-site AS treatment system not be installed, and that these concentrations be allowed to degrade naturally.

Should you have any questions or require any additional information please contact the undersigned at (619) 296-6195.

Patrick A. McConnell, P.G. #7205

PATRICK A. MACCOUNTE

Senior Geologist

Respectfully,

SECOR International Incorporated

Arthur E. Gunter Staff Geologist

**Enclosures:** 

Table 1 - Soil Vapor Extraction System Sample Analytical Results

Table 2 - Summary of Groundwater Quality and Elevation Data

Table 3 - Maximum and Current On-Site Groundwater Concentrations

Table 4 - Maximum and Current Off-Site Groundwater Concentrations

Table 5 - Concentration Trend Analysis Summary

Figure 1 - Site Location Map

Figure 2 - Site Plan with Remediation System Layout

Figure 3 – MTBE Concentration Trend Evaluation MW-8

Figure 4 - MTBE Concentration Trend Evaluation MW-9

Attachment A - Hydrographs

cc: Ken Hilliard, 7-Eleven, Inc. John Wainwright, SECOR

## TABLE 1 SOIL VAPOR EXTRACTION SYSTEM SAMPLE ANALYTICAL RESULTS 7-Eleven Location No. 16439 All concentrations in parts per million by volume (ppmv).

Vapor Sample Identification	Sampling Date	Total Volatile	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
Influent (No Dilution)	02/17/00	8,100	170	230	37	160	<5.0
Process (With Dilution)		1,100	18	43	4,700	21	<0,5
Effluent		2,9	0,021	0.025	0.003	0.016	0,004
influent (No Dilution)	03/02/00	6,400	96	370	27	100	66
Process (With Dilution)		650	6.0	44	12	60	<0.5
Effluent		<0.1	<0.001	<0.001	<0.001	<0.001	0.013
Influent (No Dilution)	04/03/00	1,300	11	60	14	120	15.000
Process (With Dilution)		50	0,400	2,500	0.440	3.600	0.740
Effluent		2.4	0,006	0.056	0.038	0,170	0.010
Influent (No Dilution)	05/02/00	3,800	15	71	16	220	11
Process (With Dijution)		350	1,300	6,100	1,300	19	0.900
Effluent		1.6	<0.001	0,008	0.002	0,020	<0.001
Influent (No Dilution)	06/07/00	590	4,400	20	2,400	110	3,200
Process (With Dilution)		84	0,590	2.200	0.360	10	0.420
Effluent		1.3	0,003	0.058	0.006	0.034	<0.001
Influent (No Dilution)	07/03/00	290	2.400	8.800	4.700	130	2.700
Process (With Dilution)		91	0,800	3,500	1.800	34	0,900
Effluent		1.1	0,002	0.024	0.002	0.016	0,038
Influent (No Dilution)	08/03/00	230	0,800	5.000	1,700	46	1,600
Process (With Dilution)	55,55,55	24	0.070	0.470	0,200	5.400	0.130
Effluent		1,0	0,002	0.028	0.004	830.0	0.002
Influent (No Dilution)	09/06/00	470	1,500	5,000	2,400	69	1.700
Process (With Dilution)	00/00/00	140	0,500	2,200	1,000	19	0.700
Effluent		2.4	0,002	0,023	0,004	0.05	<0.001
Influent (No Dilution)	10/05/00	260	0,200	1,300	0.400	11.000	
Process (With Dilution)	10/05/00	150	0.200	0.710	0,400	7,600	1.000 0.540
Effluent		3.0	0.002	0.03	0.005	0.033	0.002
Influent (No Dilution)	11/02/00	43	0.110	0.440	0.130	3,500	
. '	11/02/00	58	0,110	0.970	-		0.360
Process (With Dilution) Effluent		0,5	<0.001	0.005	0.200 0.002	10.000 0.022	0.670 0.002
	12/04/00	58	0,070	0.860	0.230		
Influent (No Ditution)	12/04/00					4.200	3.300
Process (With Dilution) Effluent		52 1,0	0.050 <0.001	0.750 0.006	0.200 <0.001	3.600 0.007	2,000
Influent (No Dilution)	01/04/01	25	0.040	0.006			<0.001
· · ·	01/04/01				<0.001	0.007	<0.001
Process (With Dilution) Effluent		24 0.6	0.040 <0.001	0.130 0.014	0.040 0.001	1.900	2.000
	50/07/04					0.013	0.004
Influent (No Dilution)	02/07/01	20	0.060	0.150	0.030	0.850	5.600
Process (With Dilution)		17 0.8	0.040	0.100	0.020	0.660	3,100
Effluent	00/00/04		<0.001	0.005	<0.001	0.007	0.014
Influent (No Dilution)	03/08/01	4.2	0.02	0.08	0.02	0.15	0.06
Process (With Dilution)		1.0	0.001	0.017	<0.001	0,009	0,008
Effluent	0E/00/04	0.8	0.001	0.014	0.002	0.023	0.034
Influent (No Dilution)	05/03/01	0.6	0.012	0.005	<0.004	0.016	0.034
Process (With Dilution)		<0.4	<0.004	0.005	<0.004	<0.004	0.005
Effluent	00/40/04	0.7	<0.004	0.004	<0.004	<0.004	<0.004
Influent (No Dilution)	06/12/01	5,6	<0.001	0.005	0.003	0.03	0.17
Process (With Dilution)		0.3	<0.001	0,004	0.002	0.011	0.048
Effluent		I U.5	<0,001	0,003	<0.001	0.004	<0.001
Effluent	DD /DD /D4	i e	0.004	0.005	40.004	0.010	
Effluent Influent (No Dilution) Process (With Dilution)	08/06/01	4.5 2.5	0.001 <0.001	0.025 0.055	<0.001 <0.001	0.012 0.006	0.27 0.10

## TABLE 1 SOIL VAPOR EXTRACTION SYSTEM SAMPLE ANALYTICAL RESULTS 7-Eleven Location No. 18439 All concentrations in parts per million by volume (ppmv).

Vapor Sample Identification	Sampling Date	Total Volatile Hydrocarbons	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
Source	07/09/03	20	0.08	0,63	0.07	0.48	1.9
Process	07709/03	1.6	0.007	0.051	0.07	0.44	0.14
Effluent		0.18	<0.007	0.003	<0.001	0.044	0.002
Source	08/12/03	16	<0.1	0.003	<0.01	0.8	0.002
	06/12/03		<0.003		<0.003	<0,005	<0.005
Process		0,22		0.011			
Effluent	_	0.48	<0.003	0.003	0.004	0.038	<0.005
Mid #1		0.26	<0.003	<0.003	0.007	0.061	<0,005
Mid #2		0.37	<0.003	0.003	0.016	0.11	<0.005
Source	10/21/03	7.3	<0,001	0,005	0,002	0.074	0.02
Process/Effluent		0.4	<0,0005	0,0047	0.0021	0.027	<0.0005
Process	11/04/03	2.9	<0,0005	<0.0005	<0,0005	0.011	0.011
Effluent		1.1	<0.0005	<0.0005	<0.0005	0.0044	1.1
Source	12/02/03	1.3	<0.0005	0.014	<0.0005	0.0075	0,0059
Process		<0.1	<0.0005	0,0039	<0,0005	<0.0005	<0.0005
Effluent		<0.1	<0.0005	<0.0005	<0.0005	<0.0005	<0,0005
Source	02/18/04	<5.0	0.026	0.049	0.0093	0.0436	0.03
Process		<5.0	0.046	0,073	0.016	0,065	0.142
Effluent		<5.0	0.045	0.032	0.004	0.014	<0.001
Source	03/02/04	<5.0	<0.001	<0.001	<1.0	<5.0	<5.0
Process		<5.0	<0.001	<0.001	<0.001	<0.002	<0.001
Effluent		<5.0	<0.001	<0.001	<0.001	0.0129	<0.001
Source	04/07/04	<5.0	<0.001	0.026	0.0064	0.125	<0.001
Process	_	<5.0	<0.001	0.036	0.0057	0.037	<0.001
Effluent	<del></del>	<5.0	<0.001	0.026	0.0073	0.067	<0.001
Source	05/12/04	2.4	<0.001	0.02	0.011	0.132	<0.001
Process	- 03/12/04	3.7	<0.001	0.0014	0.0015	0.0169	<0.001
Effluent		1.2	<0.001	0.0014	0,0055	0.0109	<0.001
	00/00/04				i i		1
Source	06/02/04	<1.0	<0.001	0.0081	<0.001	0.0047	<0.001
Process		<1.0	<0.001	0.0032	<0.001	0.0063	<0.001
Effluent	<del></del>	<1.0	<0.001	0.0066	<0.001	0.0096	<0.001
Source	07/27/04	2.8	<0.001	0.028	0.056	0.596	<0.001
Process		<1.0	<0.001	0.0028	<0.001	0.0074	<0.001
Effluent	_	<1.0	<0.001	0.0048	<0.001	0.0208	<0.001
Source	08/10/04	1.1	0,025	0.098	0.013	0.116	0.018
Process Effluent	_	<1.0 <1.0	<0.001 <0.001	0.027 0.066	0,0031 0.016	0.0086 0.109	<0.001 <0.001
Source	09/02/04	<1.0	0.0074	0.03	<0.001	0.0098	<0.001
Process		<1.0	0.023	0.054	<0.001	0.023	<0.001
Effluent	40/07/04	<1.0	<0.001	<0.001	<0.001	<0,002	<0,001
Source Process	10/07/04	<1.0 <1.0	<0.001 <0.001	0.039 0.022	0,004 <0.001	0.15 <0.001	<0.001 <0.001
Mid #1	$\dashv$	<1.0	<0.001	<0.001	<0.001	0.0029	<0.001
Mid #2		<1.0	<0.001	<0.001	<0.001	<0.001	0.149
Effluent	44100104	<1.0	<0.001	<0.001	<0.001	0.019	<0.001
Source Mid #1	11/03/04	1.3 <1.0	<0,001 0.025	0.0093	<0.001 <0.001	0.019	1.320 0.760
Mid #2	$\dashv$	<1.0	<0.001	0.019	<0.001	0,028	0.302
Effluent	7	<1.0	<0.001	0.019	<0.001	0.021	0.167

Notes: < ≃ Less than detection limit shown MTBE = Methyl-t-butyl ether

Well No./TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	T	E	х	TAME	ТВА	DIPE	ЕТВЕ	MTBE
MW-1	12/26/93	NM	NM	955	112	273	30	171					
668,00	11/15/96	8,55	659.45	<50	<0.5	<0.5	<0.5	<0.5					670
	2/28/97	6.03	661.97	<100	1.7	<1.0	<1.0	<1.0					720
	6/4/97	7.91	660,09	<50	10	<0.5	0.7	<0.5	7.5				1,800
	9/11/97 11/5/97	10.20 8.80	657.80 659.20	4,500	110 860	10	1.0 87	19			<del></del>		4,000
	1/29/98	6.80	661,20	7,000 2,000	350	1,000 520	40	540 180					2,800 600
	5/14/98	5.61	662.39	59,000	2,500	4,000	770	2,400			<del>-</del> -		4,500
	6/1/98	5,63	662.37										
	8/12/98	NM	NM				SAMPLED	- IMPROF	ER SCREE				
	12/2/98	NM	NM				SAMPLED						
	2/17/99	NM	NM				SAMPLED						
	5/12/99	6.83	661.17				SAMPLEC						
	8/4/99	8.63	659.37				SAMPLED						
	11/11/99	8,95	659,05				SAMPLED						
	2/15/00	7.80	660,20				SAMPLED						
	4/26/00 8/14/00	7.49 9.16	660.51 658.84				SAMPLED						
	11/13/00	13.89	654.11				SAMPLED						
	1/16/01	7.88	660.12				SAMPLED						
	4/24/01	5.94	662.06				SAMPLED						
	7/26/01	8.32	659.68	<50	0.7	<0.5	6.3	<0.5	<0.5	21	<0.5	<0.5	63
	11/13/01	8.99	659,01			NOT	SAMPLED	- IMPROP	ER SCREI	N INTERV	/AL		
	2/11/02	8.29	659.70			NOT	SAMPLED	- IMPROF	ER SCREI	N INTERV	/AL		
	5/10/02	8.54	659,46				SAMPLED						
	8/5/02	9.26	658.74			NOT	SAMPLED	- IMPROP	ER SCREE	N INTERV	/AL		
	12/2/02	8.47	659.53				SAMPLED						
	2/18/03 4/29/03	7.30 6.30	660.70				SAMPLED						
	8/5/03	8.08	661.70 659.92				SAMPLED						
	12/17/03	7.86	660.14				SAMPLED						
	2/13/04	6.82	661.18				SAMPLED						-
	5/20/04	7,50	660.50				SAMPLED					•	
	8/17/04	8.70	659.30				SAMPLED						
	11/1/04	6.43	661.57				SAMPLED						
	1/7/05	5,68	662.32				SAMPLED						
	4/15/05	NM	NM				SAMPLED						
MW-2	7/25/05 11/15/96	NM 9,47	NM 659.85	.Fo	.n.r		SAMPLED		,	EN INTERV			1 40
669.38	2/28/97	6.17	663.15	<50 <50	<0.5 <0.5	<0.5 <0,5	<0.5 <0.5	<0.5 <0.5					1.0 0,9
000.00	6/4/97	8.70	660.62	<50	<0.5	<0.5	<0.5	<0.5	-		<del></del>	<del>                                     </del>	<0.5
,	9/11/97	11.27	658.11	<50	<0.5	<0,5	<0,5	<0.5					0.8
	11/5/97	9.76	659.62	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	1/29/98	7.37	662.01	<50	<0.5	<0,5	<0,5	<0.5					2,5
	5/14/98	5,83	663,55	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	6/1/98	5.98	663.40					NOT SAM					
	8/12/98	8.02	661,36					NOT SAM					
	12/2/98	8.08	661.30	<50	<0.5	<0.5	<0.5	<0,5		==			1.3
	2/17/99	6,97	662,41	<50	<0.5	<0.5	<0.5	<0.5	<del></del>				<0.5
	5/12/99 8/4/99	7.69 9.73	661.69 659,65	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5					<0.5 <0.5
	11/11/99	10.07	659.31	<50	<0.5	<0.5	<0.5	<0.5			<del></del>		<0.5
	2/15/00	8.61	660,77	<50	<0.5	<0.5	<0.5	<0.5			<del></del>		<0.5
	4/26/00	8.15	661.23		-3,0			NOT SAM	1	1	l	1-	-4.4
669,38	8/14/00	10.30	659.08					NOT SAM					
	11/13/00	9.95	659.43					NOT SAM					
	1/16/01	8.64	660.74	<50	<0.5	<0,5	<0,5	<0,5	<0.5	<5.0	<0.5	<0,5	<0.5
	4/24/01	6.28	663.10					NOT SAM			,		
	7/26/01	9.36	660.02	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0,5	3.3
	11/13/01	10.11	659.27	<50	<0.5	<0.5	<0.5	<0.5	<0,5	<5.0	<0.5	<0.5	6.2
	2/11/02	9,45	659,93	<50	<0.5	<0,5	<0.5	<0.5	<0.5	<b>&lt;</b> 5.0	<0.5	<0,5	<0.5
	5/10/02	9.61	659.77	-				NOT SAM					
	8/5/02	10.52	658,86					NOT SAM					
	12/2/02 2/18/03	9.15 7.96	660.23	<50	√n E	<0.5	-0 E	NOT SAM		EΩ	-0 E	-0E	-0-
	4/29/03	6.83	661,42 662,55	<500	<0.5	<0.5	<0.5	C0.5 NOT SAMI	<0.5 PLED	<5.0	<0.5	<0.5	<0.5
		0.00	002.00										<del></del>
	<b>!</b>	9.07	660.31					NOLSAM	PLE()				
	8/5/03 12/17/03	9.07 8.87	660,31 660,51					NOT SAM					

Well No./TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	Т	E <sub>.</sub>	x	TAME.	ТВА	DIPE	ETBE	MTBE
MW-2	5/20/04	8,35	661.03					NOT SAM					
Cont'd	8/17/04 11/1/04	9.81 6.94	659.57 662.44					NOT SAM					
	1/7/05	5.92	663.43	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	4/15/05	5.52	663.86					NOT SAM		1,0	1110	41.0	1 411.0
	7/25/05	5.67	663.71					NOT SAM					
MW-3	11/15/96	7.79	660.93	2,300	49	330	63	270					37
668.72	2/28/97	4.97	663.75	1,300	28	160	62	150					29
	6/4/97 9/11/97	6.85 9.69	661,87 659,03	6,700 8,900	190 1,100	700 1,400	190 270	860 1,200					120 660
	11/5/97	8.16	660.56	31,000	460	1,200	1,100	3,500			==	<del></del>	170
	1/29/98	5.63	663.09	15,000	180	350	550	790					65
	5/14/98	5.03	663,69	5,800	1.6	31	150	130					2.6
	6/1/98	5.11	663.61					NOT SAMI			,		<del></del>
	8/12/98 12/2/98	4.32 6.12	664.40 662.60	4,500 8,600	1.1 82	17 180	120 310	150 700					6.9
	2/17/99	5.08	663,64	5,900	100	190	200	380					47 51
	5/12/99	5.32	663.40	2,500	20	43	76	71			7.7		19
	8/4/99	7.95	660,77	630	20	2.6	14	17					80
	11/11/99	8.45	660.27	450	<0.5	<0.5	2.8	1.9					53
	2/15/00 4/26/00	6.78 5.35	661.94 663.37	7,300	100	140	280 180	780 780					67
	8/14/00	8.60	660.12	6,800 100	1,000 <0.5	<0.5	<0.5	1.1	<0.5	<5.0	<0,5	<0.5	1,600 4.0
	11/13/00	8.88	659.84	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.0
	1/16/01	6.67	662.05	<50	<0.5	<0.5	<0.5	<0,5	<0.5	<5.0	<0.5	<0.5	1.4
	4/24/01	5.02	663,70	<50	<0,5	<0.5	<0.5	<0.5	<0.5	<5.0	<0,5	<0.5	0.8
	7/26/01	8.32	660.40	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	3,2
	11/13/01 2/11/02	8,78 8,11	659,94 660,61	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<5.0 <5.0	<0,5 <0.5	<0.5 <0.5	<0.5 5.2
	5/10/02	8,15	660.57	<50	<0.5	<0.5	<0.5	0.8	<0.5	6.1	<0.5	<0.5	6.0
	8/5/02	9.15	659.57	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	5.8
-	12/2/02	7.68	661.04	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	4.3
	2/18/03	6.33	662.39	<50 -50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.5
	4/29/03 8/5/003	5.00 7.47	663.72 661.25	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0,5 0.8	<0.5 <0.5	<5.0 <5.0	<0.5 <0.5	<0.5 <0.5	0.7 2.9
	12/17/03	7.27	661.45	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.4
	5/20/04	6.66	662,06	<50	<b>V</b> 1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	8/17/04	8.32	660.40	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	2.2
	11/1/04 1/7/05	5.34 4.47	663,38 664,25	<b>&lt;</b> 50	<1.0	<5.0	<5.0	<5.0 NOT SAME	<1.0	<10	<1.0	<1.0	<1.0
	3/5/05	4.26	664.46	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10.0	<1.0	<1.0	<1.0
	4/15/05	4.12	664,60	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	7/25/05	5.12	663.60	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
MW-4	11/15/96	5,32	664.12	<50	<0.5	<0.5	<0.5	<0.5					2.1
669.74	2/28/97 6/4/97	5.48 5.46	664.26 664.28	<50 <50	<0.5 <0.5	<0,5 <0,5	<0,5 <0.5	<0.5 <0.5					<0,5
	9/11/97	6.55	663.19	<50	<0.5	<0.5	<0.5	<0.5					0.6 0.9
	11/5/97	5,95	663.79	<50	<0.5	<0.5	<0.5	<0.5					0.7
	1/29/98 NP	5.37	664.37	<50	<0.5	<0.5	<0.5	<0.5					0.9
	5/14/98 NP	5.37	664.37	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	6/1/98 NP	5.11	664,63					NOT SAM					
	8/12/98 NP	5.06	664.14	<50 -F0	<0.5	<0.5	<0.5	<0.5					<0.5
	12/2/98 NP 2/17/99 NP	5.32	664,42 664,39	<50 -50	<0.5	<0.5	<0.5	<0.5					0.8
	5/12/99 NP	5.35 5.35	664.39	<50 <50	<0.5 <0.5	<0,5 <0,5	<0,5 <0,5	<0.5 <0.5					<0.5 <0.5
	8/4/99 NP	5.97	663,77	<50 <50	<0.5	<0.5	<0.5	<0.5					26
	11/11/99 NP	6.37	663,37	<50	<0.5	<0.5	<0.5	<0.5			===		<0.5
	2/15/00 NP	5,68	664.06	<b>&lt;</b> 50	<0.5	<0.5	<0.5	<0.5					<0.5
	4/26/00	5.41	664.33					NOT SAME					
	8/14/00	6.41	663,33					NOT SAME					
	11/13/00	6.36	663.38		-0.5		.0.5	NOT SAME		.F.o			
	1/16/01 NP 4/24/01	5.34 5.24	664.40 664.50	<50	<0.5	<0.5	<0.5	O.5 NOT SAME	<0.5	<5.0	<0.5	<0.5	<0.5
	7/26/01 NP	6.01	663.73	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0,5	<0.5	<0.5
	11/13/01 NP	6,63	663.11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	2/11/02 NP	6,01	663.73	<b>&lt;</b> 50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0,5	<0.5	<0.5
	5/10/02	6.09	663.65					NOT SAME	LED				
	8/5/02	6,77	662.97					NOT SAME					
	12/2/02	5.70	664.04					NOT SAME	LED.				

Well No./TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	ТРНд	В	Ţ	E	х	TAME	ТВА	DIPE	ETBE	MTBE
MW-4	2/18/03	5,28	664,46	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0,5	<0.5	<0.5
Cont'd	4/29/03	5.25	664.49					NOT SAM					
	8/5/03 12/17/03	5.79	663,95					NOT SAM					
	2/13/04	6.76 5,29	662.98 664.45	<50	<1.0	<5.0	<5.0	NOT SAMI <5.0	<1.0	<10	<1.0	<1.0	<1.0
	5/20/04	5.14	664.60	<u> </u>	V1.0	<u> </u>	<u> </u>	NOT SAM		<10	<u> </u>	<1.0	<1.0
	8/17/04	6.27	663.47					NOT SAM					
	11/1/04	5,09	664,65					NOT SAM					
	1/7/05	5.07	664.67	576	33	36	26	64	<1.0	<10	<1.0	<1.0	2,2
	3/5/05	4.75	664.99	822	67	102	11	80	<1.0	<1.0	<1.0	<1.0	1.2
	4/15/05	5.10	664.64					NOT SAM					
8.414.7.2	7/25/05	3,98	665.76		-0.5			NOT SAM		<u></u>			
MW-5 669.31	11/15/96 2/28/97	6,03	NM 663,28	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5			<del></del>	<del></del>	1.6 27
009791	6/4/97	6.61	662.70	<50	<0.5	<0.5	<0.5	<0.5					1.2
	9/11/97	9,60	659.71	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	11/5/97	7.18	662.13	<50	<0.5	<0.5	<0.5	<0.5					1.0
	1/29/98 NP	6,19	663,12	<50	<0.5	<0.5	<0.5	<0.5					0.6
	5/14/98 NP	5.61	663.70	<50	<0.5	<0.5	<0.5	<0.5					0.8
	6/1/98 NP	5.76	663.55										
	8/12/98 NP	6.18	663.13	<50	<0.5	<0,5	<0.5	<0.5					0.6
	12/2/98 NP	6.46	662.85	<50	<0.5	<0.5	<0.5	<0.5					0.6
	2/17/99 NP	6.19	663.12	<50	<0.5	<0,5	<0.5	<0.5					<0.5
	5/12/99 NP	6.21	663.10	<50	<0,5	<0,/5	<0.5	<0.5					<0.5
	8/4/99 NP	6.99	662.32	<50	<0,5	<0.5	<0.5	<0.5					0.5
	11/11/99 NP	8.19	661.12	<50	<0,5	<0,5	<0.5	<0.5					<0.5
	2/15/00 №	6,79	662.52	<50	<0,5	<0.5	<0.5	<0.5					<0.5
	4/26/00	6.34	662.97					NOT SAM	PLED				•••
	8/14/00	8.11	661.20					NOT SAM			·		
	11/13/00	8.31	661.00					NOT SAM					
	1/16/01	NM	NM					NOT SAM					
	4/24/01 7/26/01	NM NM	NM NM						PLED - WE				
	11/13/01	NM	NM					NOT SAM	PLED - WE	LL PAVEL	OVER		
	2/11/02	NM	NM					NOT SAM				•	-
	5/10/02	NM	NM			_		NOT SAM					
	8/5/02	NM	NM					NOT SAM	PLED - WE	LL PAVEL	OVER		-
	12/2/02	6.87	662.44	<50	<0.5	<0.5	<0,5	<0,5	<0.5	<0.5	<0.5	<0.5	<0.5
	2/18/03	6.33	662.98	<50	<0,5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0,5	0.6
	4/29/03 8/5/03	5.95 6.71	663.36					NOT SAM					<del></del> -
	12/17/03	6,70	662,60 662,61	6	<u>,                                     </u>			NOT SAM					
	2/13/04	6.29	663.02	<50	<1,0	<5,0	<5,0	<5.0	<1.0	<10	<1.0	<1.0	2.8
	5/20/04	6,36	662,95		*****			NOT SAM		-10	41,0	1 41,0	
	8/17/04	6.96	662.35					NOT SAM					
	11/1/04	5,99	663.32					NOT SAM	PLED				
	1/7/05	5.65	663,66	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	4/15/05	5,59	663.72					NOT SAM					
MW-6	7/25/05	5.92	663.39	<50	-0.5	I -o.c	-0.5	NOT SAM	1				
670.28	11/15/96 2/28/97	NM 6.75	NM 663.53	<50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<del></del>		-		<0.5 <0.5
U1 V.EO	6/4/97	7,16	663.12	<50 <50	<0.5	<0.5	<0.5	<0.5					<0.5
	9/11/97	8.02	662.26	<50	<0.5	<0.5	<0.5	<0.5				<del></del>	<0.5
	11/5/97	7.45	662.83	<50	<0.5	<0.5	<0.5	<0.5			-		<0.5
	1/29/98	6.72	663.56	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	5/14/98	6.17	664.11	<50	<0.5	<0.5	<0.5	<0.5					<0.5
_	6/1/98	6.30	663.98										
•	8/12/98	6.70	663,58	<50 -50	<0.5	<0.5	<0.5	<0.5			<del>  -</del>		<0.5
	12/2/98	6.74	663.54	<50 <50	<0.5	<0,5	<0.5	<0.5					<0.5
	2/17/99 5/12/99	6,70 6.69	663,58 663,59	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5			<u> </u>		<0.5 <0.5
	8/4/99	7,39	662,89	<50 <50	<0.5	<0.5	<0.5	<0.5					0.6
	11/11/99	7.64	662.64	<50	<0.5	<0.5	<0.5	<0.5			-		<0.5
	2/15/00	7.29	662.99	<del>√50</del>	<0.5	<0.5	<0.5	<0.5			<del></del>		<0.5
	4/26/00	6.88	663,40					NOT SAM		·			1
	8/14/00	7.70	662.58					NOT SAM	PLED				
	6/14/00												
	11/13/00	7.66	662.62					NOT SAM					
				<50	<0.5	<0.5	<0.5	NOT SAM NOT SAM <0.5		,		-	

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Well No./TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	Т	ш	х	TAME	ТВА	DIPE	ETBE	мтве
MW-6	11/13/01	7.73	662.55	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0,5	0.7
670,28	2/11/02	7,34	662.94	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.2
Cont'd	5/10/02	7.37	662.91					NOT SAMI					
	8/5/02	7.80	662,48					NOT SAMI					
	12/2/02	7.27	663.01			0.5		NOT SAMI			0.5		
	2/18/03 4/29/03	6,83	663,45 663,82	<50	<0.5	<0,5	<0.5	O.5 NOT SAMI	<0,5	<0.5	<0.5	<0,5	0.7
•	8/5/03	6.46 7.19	663,09					NOT SAM		•			
	12/17/03	7.13	663.04					NOT SAMI					
	2/13/04	6.91	663,37	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	5/20/04	6.93	663.35					NOT SAMI					
	8/17/04	7.50	662.78					NOT SAM					
	11/1/04	6,40	663,88					NOT SAMI					
	1/7/05	6.27	664.01	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	4/15/05	6,25	664.03					NOT SAMI					
14477	7/25/05	6.58	663.70	0.000	00	00		NOT SAMI	1				0.700
MW-7 667.78	9/11/97	10.13 8.72	657.65 659.06	3,000 15,000	86 2,400	38 3,400	<5.0 280	27 1,600	 	 			2,700 6,000
001.70	1/29/98	6.71	661.07	13,000	1,700	1,500	170	750					5,400
	5/14/98	5.39	662.42	210,000	20,000	53,000	4,700	27,000					20,000
	6/1/98	5,53	662,25				,,,,,,	NOT SAMI	PLED				
	8/12/98	6.89	660.89					NOT SAM	PLED - ME	ASURED L	PH THICK	NESS	
	12/2/98	7,17	660.62					NOT SAM	PLED - ME	ASURED L	PH THICK	NESS	
	2/17/99	6,30	661.48	11,000	1,600	1,500	200	1,400					4,000
	5/12/99	6.70	661.08	11,000	1,700	1,700	270	1,100					2,900
	8/4/99	8,49	659,30								PH THICK	NESS	
	11/11/99	8.76	659.02	7.000	1.000	000	450	NOT SAMI			HVED		
	2/15/00 4/26/00	7,62 7,36	660,16 660,42	7,300 6,000	1,000	920	150 180	840 510					2,000 1,800
	8/14/00	8.99	658,79	970	280	190	93	310	1.3	930	<0.5	<0.5	1,000
	11/13/00	8.54	659.24	<50	<0,5	<0.5	0.5	<0.5	<0.5	25	<0.5	<0.5	53
	1/16/01	8.57	659.21	<50	0.5	<0.5	1.5	4.8	<0.5	68	<0.5	<0.5	88
	4/24/01	5.80	661.98	<50	<0,5	<0.5	5,9	2.7	<0.5	15	<0.5	<0.5	72
	7/26/01	8.13	659.65	<50	<0.5	<0.5	3.4	<0.5	<0.5	67	<0.5	<0.5	70
	11/13/01	8,81	658.97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	24	<0,5	<0,5	76
	2/11/02	8.65	659.13	- 50	0.7		0.0	NOT SAMI				0.5	
	5/10/02 8/5/02	9.10	659.40 658.68	<50 <50	0.7 <0.5	<0.5 <0.5	0.9 <0.5	1.0 <0,5	<0.5 <0.5	170 14	<0.5 <0.5	<0.5 <0.5	230 180
	12/2/02	8.02	659.76	<50 <50	<0.5	<0.5	<0.5	<0.5	<0.5	91	<0.5	<0.5	300
	2/18/03	7.13	660,65	210	4,5	0,6	6,5	<0.5	<0.5	71	<0.5	<0.5	380
	4/29/03	6.23	661.55	58	2.3	1.4	1.1	3.5	0.6	72	<0.5	<0.5	230
	8/5/03	7.91	659.87	960	60	<5.0	50	10	<5.0	430	<0.5	<0,5	690
	12/17/03	7.85	659.93	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	33
	2/13/04	6.71	661.07	232	1.0	<5.0	1,6	3,6	<1.0	17	<1.0	<1.0	72
	5/20/04	7.39	660.39	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	28
	8/17/04 11/1/04	8,52 6.26	659,26 661,52	<50 <50	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<1.0 <1.0	<10 <10	<1.0 <1.0	<1.0 <1.0	26 13
	1/7/05	5,50	662,28		V1.0	_ <0.0	<b>\0.0</b>	NOT SAMI			_ <1.0	~1.0	
	3/5/05	4.91	662.87	60	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<1.0	<1.0	48
	4/15/05	5.34	662.44	68	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	52
	7/25/05	5.56	662.22	105	<1.0	<5.0	<5.0	<5.0	<1.0	11	<1.0	<1.0	60
MW-8	9/11/97	10.87	652.89	5,100	72	19	480	420					79
663.76	11/5/97	8.51	655.25	750	6.1	0.6	45	42					92
	1/29/98	7,23	656.53	340	1.0	0.7	8.3	6.2		***			98
	5/14/98 NP	0,77	657.32	1,700	10	<5.0	64	6.2					93
	0/1/00	0,72	657.34					NOT SAM					
	8/12/98 NP	7.18	656.58	3,700	23	2.8	250	10					100
	12230	7,70	656.27	280	16	<2.0	460	23					100
	2/17/99 NP	0.72	657.04	2,100	12	1.0	280	2.0					160
	0/12/00	0.00	656.88	1,700	10	1.0	310	1.7					170
	01-4788	7,50	655,80	1,700	14	1.3	440	4.3					200
	11/11/99 NP	8.39	655,37	2,400	11	1.4	620	3.5					250
	2/15/00 NP		656.03	1,300	5.6	<0,5	150	1.0					290
	4/26/00 NP	1.00	656.37	5,900	25	2.3	800	17		470			540
	8/14/00 NP 11/13/00 NP		655.14	2,700	21	1.5	250	6.2	<0.5	470	<0,5	<0.5	210
	1 11/13/በስ <sup>ለም</sup>	8.60	655.16	1,300	6.0	<1.0	78	1.3	<1.0	240	<1.0	<1.0	400
			1										370
	1/16/01 NP	7.99	655.77	680	3.8	<0.5	31	<0.5	<0.5	320	<0,5	<0.5	-
		7.99 6.82	655.77 656.94 656.11	680 890 1,500	7.0 13	<0.5 <0.5 <0.5	23 160	<0.5 1.1 <0.5	<0.5 <0.5 <0.5	200 200 650	<0.5 <0.5 <0.5	<0,5 <0,5 <0,5	590 720

Well No./TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	т	E	x	TAME	ТВА	DIPE	ЕТВЕ	MTBE
MW-8.	11/13/01 NP	8.20	655,56	500	3.3	<2.0	<2.0	<2.0	<2,0	330	<3.0	<2.0	730
Cont'd	2/11/02 NP	7.86	655.90	750	2.8	<2.0	<2.0	<2.0	<2,0	460	<2.0	<2.0	910
663.76	5/10/02 8/5/02	7.89 8.54	655.87 655.22	250 150	0.6	<0.5	2.3	<0.5	<0.5	540	<0.5	<0.5	580
	12/2/02	7.89	655.87	120	<0.5 <0.5	<0.5 <0.5	5.6 4.0	<0.5 <0.5	0.6	93 170	<0.5 <0.5	<0.5 <0.5	660 510
	2/18/03	7.25	656.51	230	0.9	0.6	5.4	<0.5	0.6	42	<0.5	<0.5	540
	4/29/03	6.70	657.06	400	2.3	2.8	16	4.3	<2.0	210	<2.0	<2.0	510
	8/5/03	7.54	656.22	<200	2.5	<2.0	2.9	<2.0	<2.0	94	<2.0	<2.0	950
	12/17/03 2/13/04	7.53 7.03	656,23	<100	<1.0	<1.0	1,3	<1.0	<1.0	57	<1.0	<1.0	470
	5/20/04	7.12	656.73 656.64	226 284	<1.0 2	<5.0 <5.0	1.2 6,8	<5.0 <5.0	<1.0 ·<1.0	23 48	<1.0 <1.0	<1.0 <1.0	174 196
	8/17/04	8.14	655.62	171	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	183
	11/1/04	6.79	656,97	163	1.2	<5.0	8,8	<5.0	<1.0	20	<1.0	<1.0	90
	1/7/05	6.02	657.74	285	8,1	7.4	14	16	<1.0	15	<1.0	<1.0	66
-	4/15/05 7/25/05	5,81 6,16	657.95 657.60	325 369	1.8	<5.0	53 51	<5.0	<1.0	25	<1.0	<1.0	73
MW-9 ·	9/11/97	10.82	652.49	4,200	1.8 16	<5.0 3.8	44	<5.0 32	<1.0 	20	<1.0	<1.0 	62 300
663,31	11/5/97	8.79	654.52	1,000	8.9	1.5	22	8					680
	1/29/98	7,59	655.72	1,300	22	3,0	34	25					330
	5/14/98	6.81	656.50	460	6.3	1.8	15	8.6					160
	6/1/98	6.88	656,43	000		0.5	10	NOT SAME	1				1 2.2
}	8/12/98 12/2/98	7.31 7.36	656.00 655.95	380 800	2.9 2.0	<0.5 <0.5	10	4.6 1.9					240 520
ŀ	2/17/99	6.70	656.61	800	3.4	<0.5	14	2.4					560
į	5/12/99	6.97	656,34	960	2.3	<0.5	24	7.2					600
-[	8/4/99	7.95	655.36	1,100	1.8	<0,5	11	2.0					870
	11/11/99	8.32	654,99	120	0.5	<0.5	5.2	<0.5					880
ŀ	2/15/00 4/26/00	7.69 7.42	655.62 655.89	130 120	0,6	<0.5 <0.5	3.8 10	<0.5 1.7					790 730
ŀ	8/14/00	8.57	654.74	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0,5	<0.5	3.5
į	11/13/00	8.60	654.71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	170	<0.5	<0.5	630
[	1/16/01	7.88	655.43	240	14	<2.0	4,2	<2.0	<2.0	370	<2.0	<2.0	1,200
	4/24/01	6.81	656,50	84	0.6	<0.5	4.7	<0.5	<0.5	67	<0.5	<0.5	370
ŀ	7/26/01 11/13/01	7.65 8.13	655.66 655.18	130 160	<0.5 <0.5	0.7 <0.5	4.3 4.7	<0.5 <0.5	<0.5 <0.5	55 42	<0.5 <0.5	<0.5	190
ŀ	2/11/02	7.81	655.50	83	· <0.5	0.5	2.9	<0.5	<0.5	100	<0.5	<0.5 <0.5	200 210
ľ	5/10/02	7.80	655.51	190	0.8	<0.5	13	<0.5	<0.5	230	<0.5	<0.5	220
[	8/5/02	8.45	654.86	120	<0.5	<0.5	4	<0.5	<0.5	18	<0.5	<0.5	330
-	12/2/02	7.77	655,54	210	0.5	<0,5	9.2	<0.5	<0.5	150	<0.5	<0.5	410
ŀ	2/18/03 4/29/03	7.12 6.67	656.19 656.64	260 280	0.8	0.6 1.2	13 17	<0.5 2	<0.5 <0.5	6.7 32	<0.5	<0,5	260
ŀ	8/5/03	7.51	655.80	140	<0,5	<0.5	9.3	<0.5	<0.5	7.9	<0.5 <0.5	<0.5 <0.5	130 240
Ī	12/17/03	7,4B	655,83	230	0.8	<0.5	11	<0.5	<0.5	22	<0.5	<0.5	160
	2/13/04	7.03	656.28	241	<1.0	<5.0	7.9	<5.0	<1.0	<10	<1.0	<1.0	88
1	5/20/04	7,16	656,15	168	<1.0	<5.0	10	<5.0	<1.0	10	<1.0	<1.0	66
}	8/17/04 11/1/04	8.01 6,55	655.30 656,76	146 127	<1.0	<5.0	9.7	<5.0	<1.0	<10	<1.0	<1.0	63
ŀ	1/7/05	6.81	656.50	183	<1.0 <1.0	<5.0 <5.0	8.2 22	<5.0 <5.0	<1.0 <1.0	<10 <10	<1.0 <1.0	<1.0 <1.0	55 35
ļ ļ	4/15/05	5.86	657.45	297	<1.0	<5.0	48	<5.0	<1.0	<10	<1.0	<1.0	37
	7/25/05	6.15	657.16	288	<1.0	<5.0	38	<5.0	<1.0	<10	<1.0	<1.0	35
MW-10	5/14/98	NM	NM										
659.51	6/1/98 8/12/98	8.24 8.77	651.27	<50 <50	<0.5	<0.5	<0.5	<0.5					0.7
ŀ	12/2/98 NP	8.84	650.74 650.67	<50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5					<0.5
f	2/17/99 NP	8.32	651.19	<50	<0.5	<0.5	<0.5	<0.5					<0.5 1.3
ļ ,	5/12/99 NP	8.58	650,93	<50	<0.5	<0.5	<0.5	<0.5					<0.5
Ť	8/4/99 NP	9.69	649.82	<50	<0,5	<0.5	<0.5	<0.5					<0.5
Ţ	11/11/99 NP	9.93	649,58	<50	<0.5	<0.5	<0.5	<0.5	<u></u>				<0.5
[	2/15/00 NP	9.32	650.19	<50	<0.5	<0.5	<0.5	<0.5	<b>#</b> L				0.5
[	4/26/00 NP	8.84	650.67	<50	<0.5	<0.5	<0.5	<0.5					<0.5
Ĺ	8/14/00 NP	10.54	648.97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
ļ	11/13/00 NP	11.88	647.63	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
.	1/16/01 NP	10.85	648.66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
].	4/24/01 NP	9,21	650,30	<50	<0.5	<0.5	<0.5	<0.5	<0,5	<5.0	<0.5	<0.5	<0.5
}	1/20/01	10.75	648.76	< <u>50</u>	<0.5	<0.5	<0,5	<0.5	<0.5	<5.0	<0.5	<0.5	1.2
ŀ	11/13/01 NP 2/11/02 NP	11,37	648.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
L	211/UZ	10,79	648.72	<50	<0.5	<0.5	<0,5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Γ	5/10/02	10.80	648.71	<50	<0.5	<0,5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5

Well No./TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	Т	E	х	TAME	ТВА	DIPE	ETBE	мтве
MW-10	12/2/02	11.27	648.24	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
659.51	2/18/03	10,03	649.48	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Cont'd	4/29/03 8/5/03	9.41 10.97	650,10 648,54	<50 <50	<0.5 <0.5	1.3 <0.5	<0.5 <0.5	1.8 <0.5	<0.5 <0.5	<5.0 <5.0	<0.5 <0.5	<0.5 <0.5	<0.5 4.4
	12/17/03	10.76	648.75	<del>- &lt;50</del>	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.0
	2/13/04	10.09	649.42	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1,0
	5/20/04	10,40	649,11	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	8/17/04	11.89	647.62	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	11/1/04	8.52	650.99	<50	<1.0	<5.0	<5,0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	1/7/05	8,22	651,29	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	4/15/05	8.65	650.86	<50 -E0	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
MW-11	7/25/05 5/14/98	9,69 MM	649,82 NM	<50 	<1.0 	<5,0 	<5,0 	<5.0 	<1.0 	<10	<1.0	<1.0	<1.0 
664.19	6/1/98	6,68	657.51	<50	<0.5	<0,5	<0,5	<0,5					5.5
004.15	8/12/98	7.58	656.61	<50	<0.5	<0.5	<0.5	<0.5					8.2
	12/2/98	7,72	656.47	<50	<0.5	<0.5	<0,5	<0.5					6.6
	2/17/99	7.18	657.01	<50	<0.5	<0.5	<0.5	<0.5					3,5
	5/12/99	7,38	656.81	<50	<0.5	<0,5	<0,5	<0.5					1.3
	8/4/99	8.44	655.75	<50	<0.5	<0.5	<0.5	<0.5					3,4
	11/11/99	8,84	655,35	<50	<0.5	<0.5	<0.5	<0.5					13
	2/15/00 4/26/00	8.13 7,84	656.06 656.35	<50 <50	<0.5 <0.5	<0.5 1.2	<0.5 <0.5	<0.5 1,3					11 5.0
	8/14/00	9.07	655.12	190	<0.5	<0.5	5.4	<0.5	<0.5	150	<0.5	<0.5	1,200
	11/13/00	8,91	655,28	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	7.6
	1/16/01	8.28	655.91	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	4,7
	4/24/01	7,30	656,89	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5,0	<0.5	<0.5	2.4
	7/26/01	7.99	656.20	<50	<0.5	<0.5	<0,5	<0.5	<0.5	<b>&lt;</b> 5.0	<0.5	<0.5	2,9
	11/13/01	8.48	655.71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<b>&lt;</b> 5.0	<0.5	<0.5	2.0
	2/11/02	8.23	655.96	<50	<0.5	<0.5	<0.5	<0.5	<0.5	6.2	<0.5	<0.5	10
	5/10/02	8.25	655.94	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	1.8
	8/5/02 12/2/02	8.96 8.25	655.23 655.94	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	√<5.0 <5.0	<0.5 <0.5	<0.5 <0.5	2.4 3.4
	2/18/03	7.62	656.57	<50	<0.5	0,5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.8
	4/29/03	7.12	657.07	<50	<0.5	1.2	<0.5	1.2	<0.5	<5.0	<0.5	<0.5	1.9
	8/5/03	8,00	656.19	<50	<0.5	<0,5	<0,5	<0.5	<0.5	<5.0	<0.5	<0.5	2.3
	12/17/03	7.88	656.31	<b>&lt;</b> 50	<0.5	<0.5	<0.5	<0.5	<0.5	<b>&lt;</b> 5.0	<0.5	<0.5	2.1
	2/13/04	7,45	656.74	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	5/20/04	7.63	656.56	<50	<1.0	<5,0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	8/17/04	8.55	655.64	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	11/1/04 1/7/05	7.02 6.33	657.17 657.86	<50 <50	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<5,0 <5.0	<1.0 <1.0	<10 <10	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0
	4/15/05	6,31	657.88	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	7/25/05	6.55	657.64	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
MW-12	5/14/98	NM	NM										
662.72	6/1/98	9.58	653.14	1,100	3.0	<0.5	16	27	-	-			110
	8/12/98	10.28	652.44	260	1.4	<0.5	4,3	5.7					41
	12/2/98	10.52	652.20	<50	<0.5	<0.5	<0.5	<0.5			***		1.6
	2/17/99 5/12/99	10,42 10.50	652.30 652.22	72 <50	<0.5 <0.5	<0.5	1,0 <0.5	1,3 <0.5					6.9 <0.5
	8/4/99	10.84	652.22	<50 <50	<0.5	<0.5 <0.5	1.7	2.2					<0.5
	11/11/99	10.90	651.82	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	2/15/00	10.78	651.94	<50	<0.5	<0.5	0.5	<0.5					2.5
	4/26/00	10.72	652.00	<50	<0.5	<0.5	0.8	0.6					2.7
	8/14/00	11.18	651.54	330	2.1	2.9	16	19	<0.5	20	<0.5	<0.5	8,5
	11/13/00	11.45	651.27	860	4.4	<0.5	37	35	<0.5	<5.0	<0.5	<0.5	5.2
	1/16/01	11.26	651.46	<50 450	<0.5	<0.5	0.8	0.7	<0.5	<5.0 CF	<0.5	<0.5	0.5
	4/24/01 7/26/01	10.67	652.05 651.61	450 370	1.0	<0.5	18 18	15 17	<0.5 <0.5	55 <5.0	<0.5 <0.5	<0.5 <0.5	140
	11/13/01	11.1 <b>1</b> 11.29	651.43	360	0.8	<0.5 <0.5	16	14	<0.5	<5.0 <5.0	<0.5	<0.5	7.0
	2/11/02	11.11	651.61	72	<0.5	<0.5	6,0	3.9	<0.5	7.5	<0.5	<0.5	20
	5/10/02	11.15	651.57	<50	<0.5	<0.5	2.1	1.0	<0.5	12	<0.5	<0.5	13
	8/5/02	11.38	651.34	<50	<0.5	1.0	<0,5	<0.5	<0.5	<5.0	<0.5	<0.5	3.8
	12/2/02	11.21	651.51	<50	<0.5	8.0	<0.5	<0.5	<0.5	10.0	<0.5	<0.5	35
	2/18/03	10.94	651,78	<50	<0.5	<0,5	<0,5	<0.5	<0.5	<5,0	<0.5	<0.5	6.6
	4/29/03	10.70	652.02	<50	<0.5	<0.5	0.5	<0.5	<0.5	<5.0	<0.5	<0.5	12
	8/5/03	11.14	651,58	<50	<0.5	<0.5	0.5	<0.5	<0.5	<5.0	<0.5	<0.5	7.1
	12/17/03	11.17	651.55 651.76	<50 <50	<0.5	<0.5	0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	2/13/04 5/20/04	10.96 10.98	651.76 651.74	<50 <50	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<1.0 <1.0	<10 <10	<1.0 <1.0	<1.0 <1.0	<1.0 1.0
	8/17/04	11.27	651.45	<50	<1.0	<5.0	<5.0	<5.0 <5.0	<1.0	<10	<1.0	<1.0	<1.0
					-110								-110

### TABLE 2 SUMMARY OF GROUNDWATER QUALITY AND ELEVATION DATA 7-Eleven Location No. 16439

All concentrations in micrograms per liter (ug/L).

Well No./TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	т	E	x	TAME	ТВА	DIPE	ЕТВЕ	MTBE
MW-12	11/1/04	10,64	652.08	79	<1.0	<5.0	7,3	<5.0	<1.0	<10	<1.0	<1.0	13
662.72	1/7/05	10.32	652.40	51	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	11
Cont'd	4/15/05	10.45	652,27	70	<1.0	<5,0	6.1	<5.0	<1.0	<10	<1.0	<1.0	11
	7/25/05	10.79	651.93	<50	<1.0	<b>√</b> 5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	2.7

Shaded area represents data obtained during this phase of work.

TOC = Top of Casing

No. = Number ft/MSL = Feet above/Mean sea level

DTW = Depth to water

TPHg = Total petroleum hydrocarbons characterized as gasoline B = Benzene

T = Toluene
E = Ethylbenzene

X = Total Xylenes

TAME = T-amyl methyl ether

TBA = T-butyl alcohol

DIPE = Di isopropyl ether ETBE = Ethyl-t-butyl ether MTBE = Methyl-t-butyl ether

NP = No Purge sample obtained

NM = Not Measured

-- = Not analyzed
<0.5 = Results below laboratory reporting

limits.

### TABLE 3

### Maximum and Current On-Site Groundwater Concentrations

7-Eleven Location No. 16439 14110 Old Highway 80, El Cajon Concentrations reported in micrograms per liter (µg/L)

### Maximum Concentrations On-Site (maximum for each consituent in bold)

Well ID/ TOC	Sample Date	TPHg	В	1	E	X	TAME	ТВА	DIPE	ЕТВЕ	MTBE
MW-7	5/14/98	210,000	20,000	53,000	4,700	27,000					20,000
				-							
Clear	ı-up Goals	NA	1.0	150	700	1,750	NA	NA	NA	NA	5.0

### **Current Concentrations On-Site**

Well ID/ TOC	Sample Date	TPHg	В	H T	E	X	TAME	ТВА	DIPE	ETBE	MTBE
MW-2	1/7/05	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
MW-3	4/15/05	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
MW-4	3/5/05	822	67	102	11	80	<1.0	<1.0	<1.0	<1.0	1.2
MW-5	1/7/05	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
MW-6	1/7/05 *	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
MW-7	4/15/05	68	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	52
Clean	-up Goals	NA	1.0	150	700	1,750	NA	NA	NA	NA	5.0

<sup>\*</sup> Due to the well reduction program established at the site, wells MW-2, MW-4, MW-5, and MW-6 were not sampled during the Second Quarter 2005 sampling event. Results from the First Quarter 2005 sampling event are listed as the current concentrations.

Notes:		
TPHg	=	Total petroleum hydrocarbons characterized as gasoline
В	=	Benzene
Т	=	Toluene
E	=	Ethylbenzene
X	=	Total xylenes
TAME	=	T-amyl methyl ether
TBA	=	T-butyl alcohol
DIPE	=	Diisopropyl ether
ETBE	=	Ethyl-t-butyl ether
MTBE	=	Methyl-t-butyl ether
<#	=	Less than the reporting limit shown
	=	Not analyzed, or not sampled
NA	=	Not Applicable

### **TABLE 4**

### **Maximum and Current Off-Site Groundwater Concentrations**

7-Eleven Location No. 16439 14110 Old Highway 80, El Cajon

Concentrations reported in micrograms per liter (µg/L)

### Maximum Concentrations Off-Site (maximum for each consituent in bold)

Well ID/ TOC	Sample Date	TPHg	В	Т	E	X	TAME	ТВА	DIPE	ЕТВЕ	MTBE
MW-8	4/26/00	5,900	25	2.3	800	17	–				540
MW-8	9/11/97	5,100	72	19	480	420	-				79
MW-9	11/16/01	240	14	<2.0	4.2	<2.0	<2.0	370	<2.0	<2.0	1,200
MW-11	8/14/00	190	<0.5	<0.5	5.4	<0.5	<0.5	150	<0.5	<0.5	1,200
Clear	Clean-up Goals		1.0	150	700	1,750	NA	NA	NA NA	NA	5.0

### **Current Concentrations Off-Site**

Well ID/ TOC	Sample Date	TPHg	В	T	E	X	TAME	ТВА	DIPE	ЕТВЕ	мтве
MW-8	4/15/05	325	1.8	<5.0	53	<5.0	<1.0	25	<1.0	<1.0	73
MW-9	4/15/05	297	<1.0	<5.0	48	<5.0	<1.0	<10	<1.0	<1.0	37
MW-10	4/15/05	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
MW-11	4/15/05	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
MW-12	4/15/05	70	<1.0	<5.0	6.1	<5.0	<1.0	<10	<1.0	<1.0	11
											_
Clean	-up Goals	NA	1.0	150	700	1,750	NA	NA	NA	NA	5.0

Notes:		
TPHg	=	Total petroleum hydrocarbons characterized as gasoline
В	=	Benzene
Т	=	Toluene
E	=	Ethylbenzene
X	=	Total xylenes
TAME	=	T-amyl methyl ether
TBA	=	T-butyl alcohol
DIPE	=	Diisopropyl ether
ETBE	=	Ethyl-t-butyl ether
MTBE	=	Methyl-t-butyl ether
<b>&lt;</b> #	=	Less than the reporting limit shown
	=	Not analyzed, or not sampled
NA	=	Not Applicable

**TABLE** 5

## CONCENTRATION TREND ANALYSIS SUMMARY 7-Eleven Location #16439

Well	Compound Well Evaluated	Max Contaminan Level - C <sub>MCL</sub> (ug/L) <sup>(1)</sup>	Initial Max. Concentration - Co	Sampling Date for C <sub>0</sub>	Current Sampling Reference Date for C <sub>0</sub> Date Used	Estimated Degradation Rate Constant - k (day-1)	Time to Reach MCL from C <sub>o</sub> - t (days)	Time to Reach Current Elapsed Reach $C_{MoL}$ from MCL from $C_0$ - t Time from Date $C_0$ Current Reference (days) Date (yrs)	Estimated Time to Reach C <sub>MCL</sub> from Current Reference Date (yrs)	Comments
MW-8	MTBE	5	910	2/11/02	7/25/05	0.002	2,602	1,260	3.68	
MW-9	MTBE	5	1,200	1/16/01	7/25/05	0.0023	2,383	1,651	2.01	

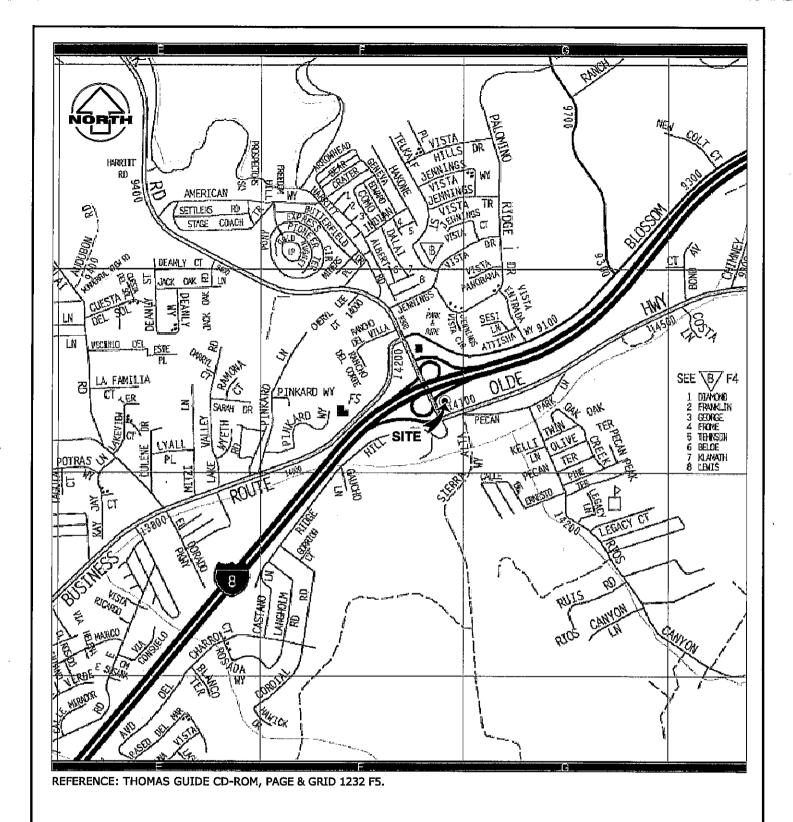
Notes: Equation used to estimate time to reach MCL is  $C = C_0e^{-i\alpha}$ , where:

C = Concentration at time t  $C_0 = Initial$  Concentration

k = Degradation rate constant (time<sup>-1</sup>)

t = time

State of California Primary Maximum Contaminant Level (MCL) for Drinking Water Recent maximum concentration from groundwater monitoring data €8



0 1320 2640

APPROXIMATE SCALE IN FEET



7-ELEVEN LOCATION NO. 16439
14110 Old Highway 80
El Cajon, California

lighway 80 California DRAWN BY: CHE SITE LOCATION MAP

1

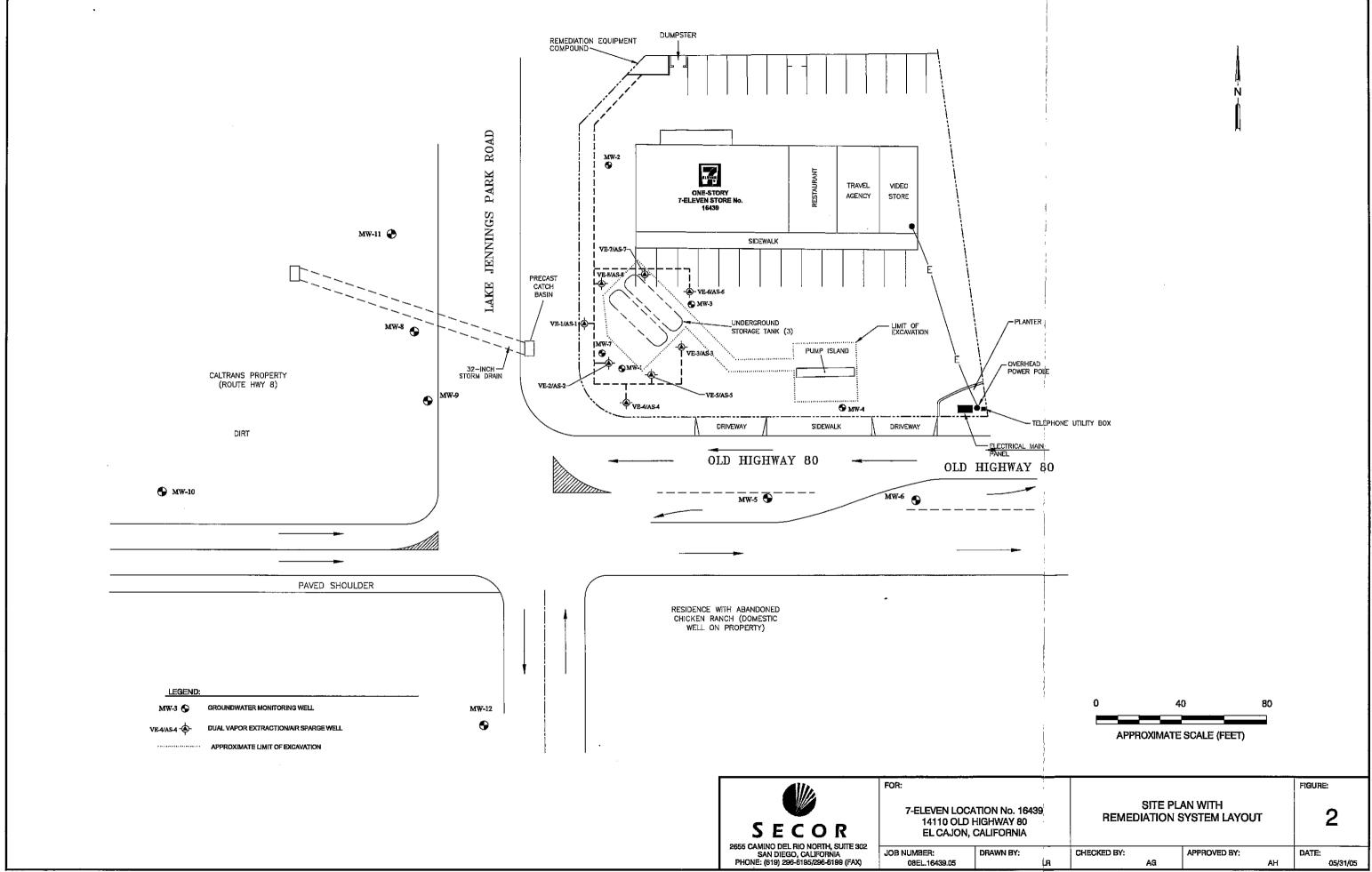
FIGURE:

CHECKED BY: APPROVED BY: DATE:

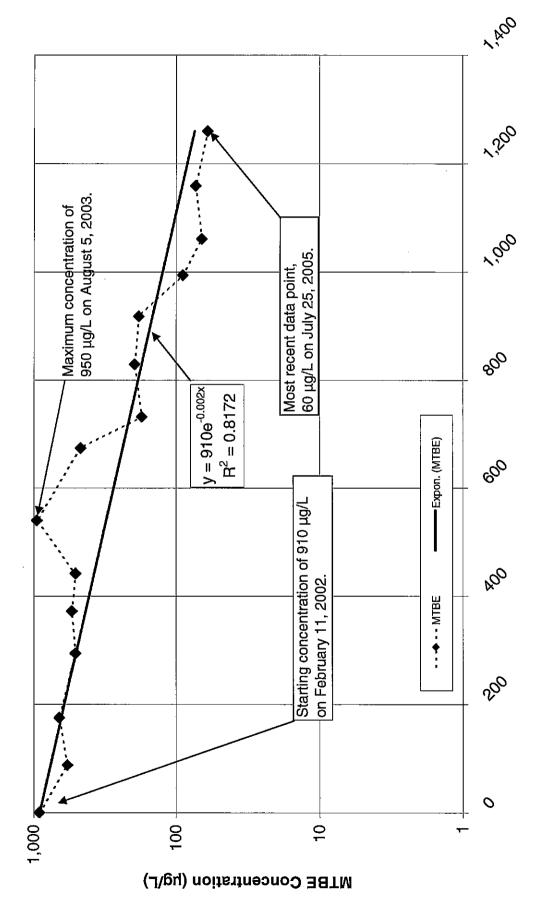
FOR:

JOB NUMBER:

08EL.16439.05

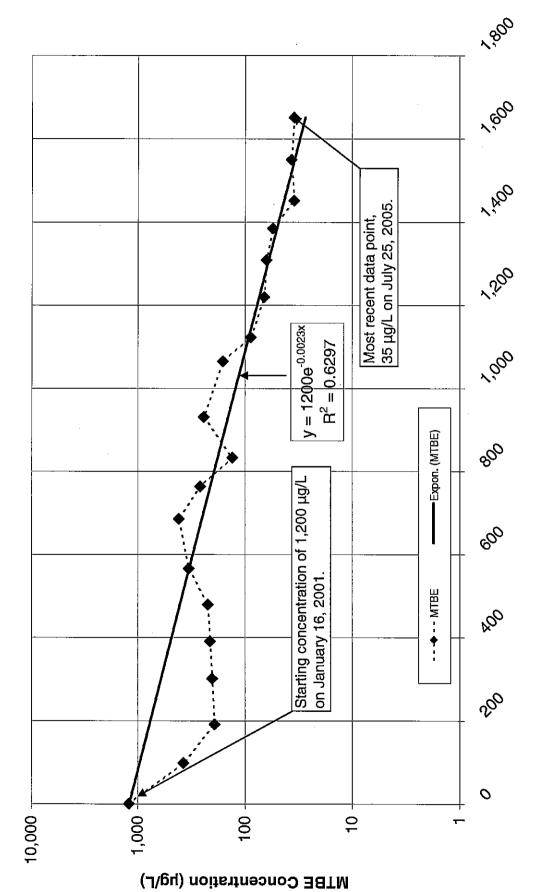


MTBE Concentration Trend Evaluation - Well MW-8 7-Eleven Location #16439 Figure 3



Elapsed Time (days)

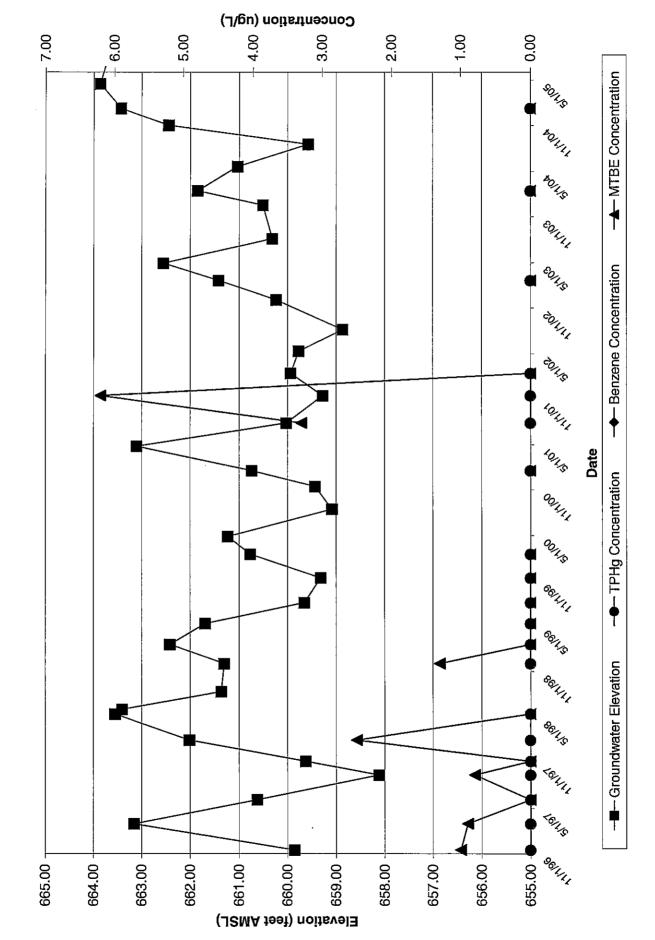
Figure 4
MTBE Concentration Trend Evaluation - Well MW-9
7-Eleven Location #16439



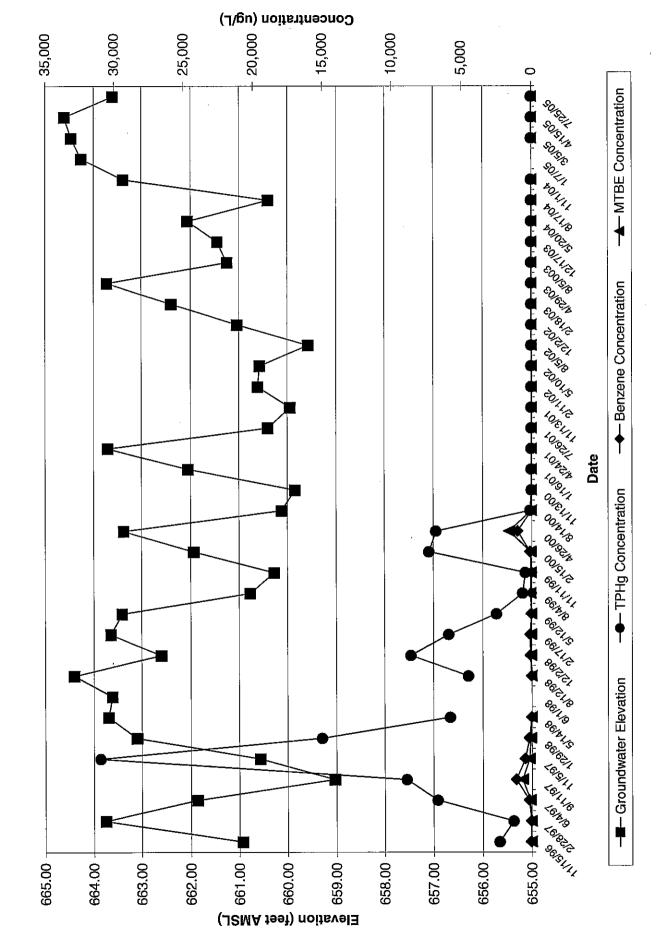
Elapsed Time (days)

# ATTACHMENT A Hydrographs

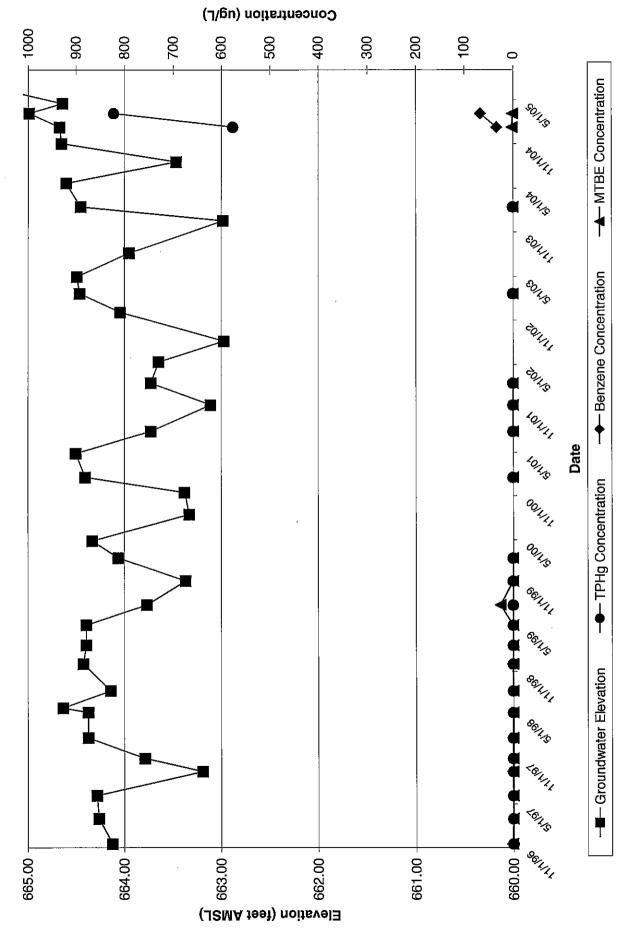
Hydrograph for MW-2 7-Eleven Location No. 16439



Hydrograph for MW-3 7-Eleven Location No. 16439



Hydrograph for MW-4 7-Eleven Location No. 16439



—★─ MTBE Concentration → Benzene Concentration Date ONS --- TPHg Concentration OOLL 001/5 66/1/1 OS NE ─■─ Groundwater Elevation OG LIL 80/15 TONIL TO NE SCHIII - 00.099

661.00

Concentration (ug/L)

10

Ŋ

0

7-Eleven Location No. 16439 Hydrograph for MW-5

30

25

- 004.00

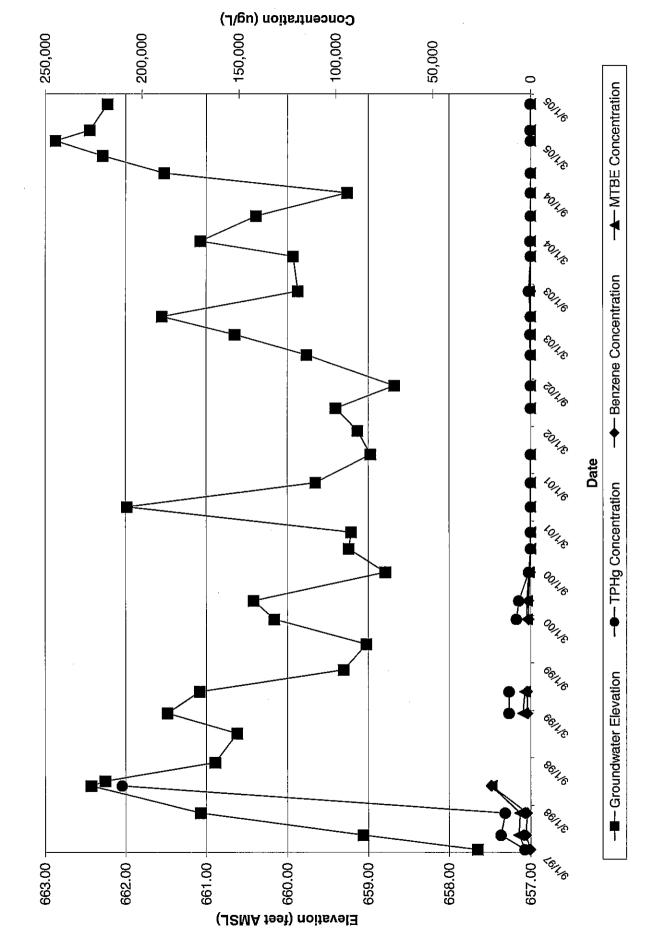
665.00

20

Concentration (ug/L) 0 က Q 60<sub>[52]</sub> ■ MTBE Concentration SOISIX SOLL POLL OLLO \*Ologic Ocho COLLET cole o → Benzene Concentration 60/65/K COSIC to delet 501518 COOLS COLLE LOENIA 10/0/1 OKCK Date ODENIA ■ TPHg Concentration OOKLO 00/02/8 00/5/2 COLLINI, Co A GO 66/51/6 66/1/2 OB CLICK -■- Groundwater Elevation OFFI OFFI 80 N.S 60 (62) 16<sub>611</sub> TO11/6 TO NO To BOLD 966111 655.00 🕂 665.00 664.00 659.00 663.00 662.00 658.00 657.00 656.00 661.00 660.00 (ISMA feet AMSL)

Hydrograph for MW-6 7-Eleven Location No. 16439

Hydrograph for MW-7 7-Eleven Location No. 16439



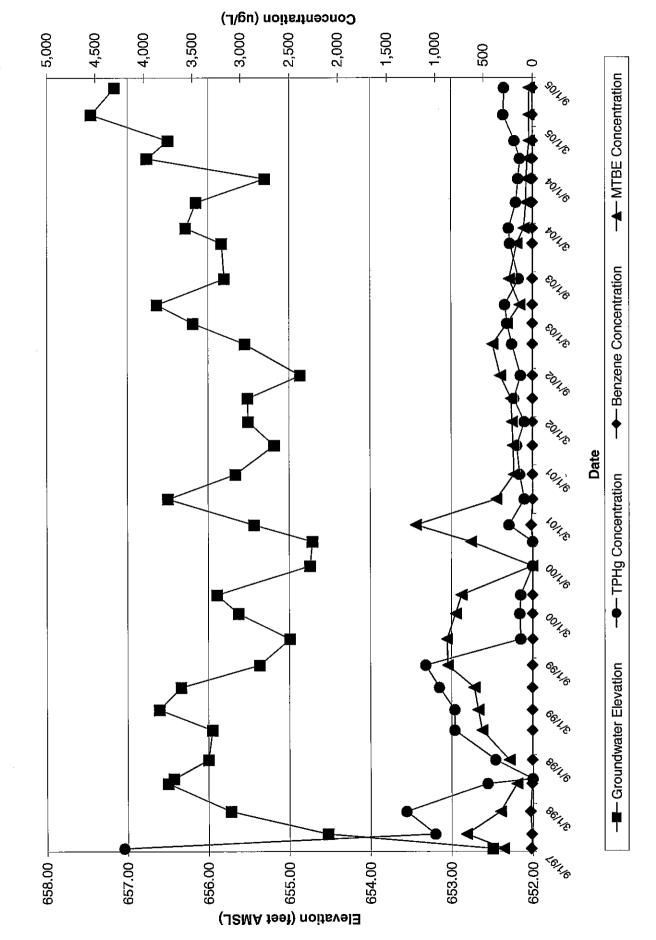
Concentration (ug/L) 6,000 5,000 4,000 3,000 2,000 1,000 0 → MTBE Concentration → Benzene Concentration CONG colle. COLO Date 10/16 --- TPHg Concentration ONE ONE 66/1/6 -- Groundwater Elevation OB VE Solle. 6/16 655.00 658.00 -659.00 657.00 656.00 Elevation (feet AMSL)

7-Eleven Location No. 16439

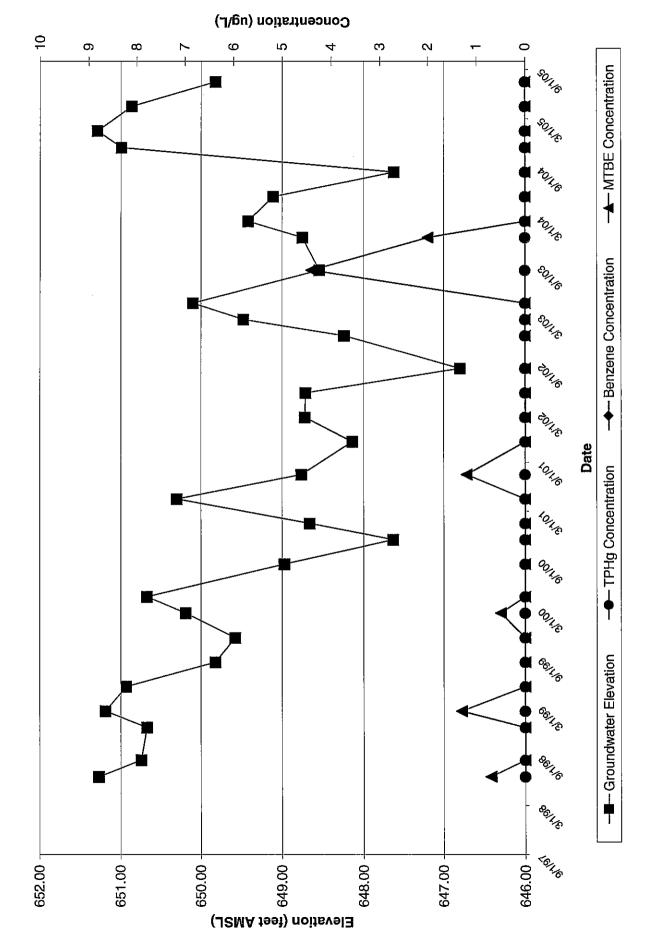
Hydrograph for MW-8

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Hydrograph for MW-9 7-Eleven Location No. 16439



Hydrograph for MW-10 7-Eleven Location No. 16439



MTBE Concentration 7-Eleven Location No. 16439 Hydrograph for MW-11 Date 10/16 ── TPHg Concentration ONE 60 NO 801/6

(ISMA feet AMSL)

656.00

657.00

Concentration (ug/L)

900

400

- 200

0

800

1,200

658.00

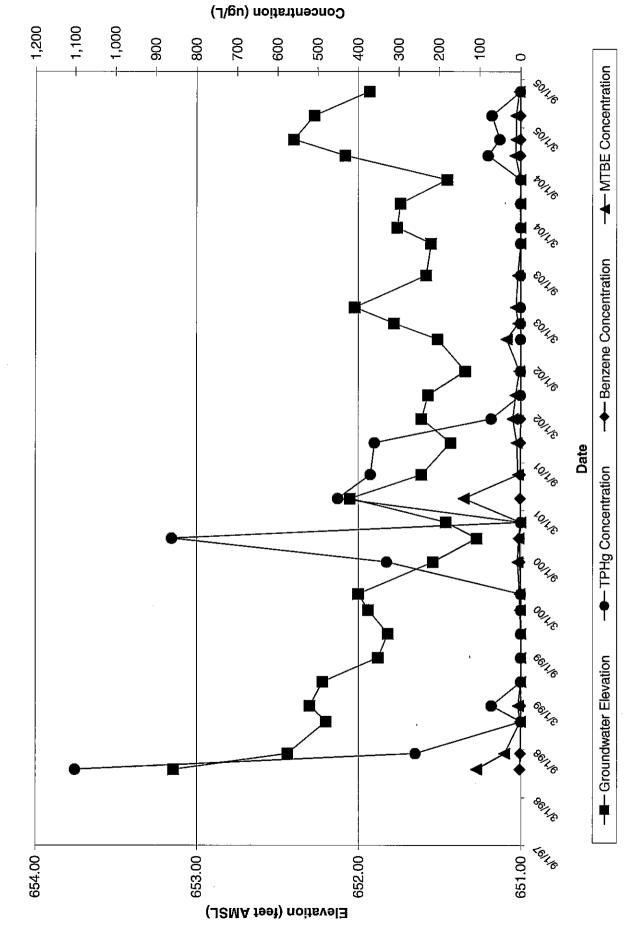
1,000

P:\SOUTHLND\REPORTS\16439\s1643967(justification).xls

TOLIG

655.00

Hydrograph for MW-12 7-Eleven Location No. 16439





**Stantec Consulting Corporation** 2655 Camino Del Rio North Suite 302 San Diego CA 92108 Tel: (619) 296-6195 Fax: (619) 296-6199

August 12, 2008 File: 08EL.16439.08

Mr. Craig Burnett County of San Diego Department of Environmental Health Land and Water Quality Division P.O. Box 129261 San Diego, CA 92112

Reference: Limited Site Assessment Report

> 7-Eleven Store #16439 14110 Old Highway 80 El Cajon, California 92019

Unauthorized Release No. H20203-004

### Dear Mr. Burnett:

On behalf of 7-Eleven, Inc. (7-Eleven), Stantec Consulting Corporation (Stantec) has prepared the following report for 7-Eleven Store No. 16439, located at 14110 Old Highway 80 in El Cajon, California (Figure 1). The purpose of the work was to assess the potential source of hydrocarbons concentrations detected in groundwater monitoring well MW-4.

The activities followed a work plan and revised work plan prepared by SECOR International Incorporated (SECOR) dated October 10, 2007 and December 3, 2007, respectively. The revised work plan was approved by the County of San Diego, Department of Environmental Health (DEH), Land and Water Quality Division (LWQD), Site Assessment and Mitigation Program (SAM) on January 25, 2008.

### SITE LOCATION AND DESCRIPTION

The site is located at the northeast corner of the intersection of Old Highway 80 and Lake Jennings Park Road in El Cajon, California (Figure 1). Access to the property is provided by Old Highway 80 to the south. The site is located in a mixed residential and commercial area.

The site is occupied by an operating 7-Eleven convenience store which is located in the northern portion of the property (Figure 2). Two 10,000-gallon double-walled, fiberglass underground storage tanks (USTs) are located in the southeastern portion of the property between the 7-Eleven building and Old Highway 80 (Figure 2). A concrete dispenser island pad is located adjacent and east of the USTs. The dispenser island and UST areas are paved with concrete and the remainder of the site is surfaced with asphalt.

Limited Site Assessment Report August 12, 2008 Page 2

### BACKGROUND

In July 1993, the gasoline product lines were excavated and replaced from the pump island to the underground storage tanks (USTs). In December 1993, Kleinfelder, Inc. drilled three soil boreholes and installed groundwater monitoring well MW-1 (Figure 2). In August 1996, SECOR conducted a passive soil gas survey at the site. Based on the results of the survey, five groundwater monitoring wells (MW-2 through MW-6) were installed. In 1997 and 1998, SECOR installed six additional monitoring wells (MW-7 through MW-12).

In 1999, SECOR designed and installed a soil and groundwater remediation system. A combined air sparging/soil vapor extraction (AS/SVE) system began operating on February 15, 2000. The original SVE system consisted of a combined thermal and catalytic oxidizer unit (located north of the existing 7-Eleven store building) manifolded to eight soil vapor extraction wells (VE-1, VE-2, VE-3, VE-4, VE-5, VE-6, VE-7, and VE-8). The AS system consisted of a 10-horsepower air compressor, capable of supplying up to 35 standard cubic feet per minute (scfm) of filtered atmospheric air at a regulated pressure, manifolded to eight air sparge wells (AS-1, AS-2, AS-3, AS-4, AS-5, AS-6, AS-7, and AS-8). The layout of the former AS/SVE system is illustrated in Figure 2.

The SVE system began operation in catalytic destruction mode and operated intermittently to the end of August 2001. On August 29, 2001, the SVE system was shut down pending conversion to a carbon system. On November 15, 2001, the SVE system was dismantled and transported to another 7-Eleven site. In June 2003, a blower and carbon canisters were installed on site to allow air sparge and soil vapor extraction system operations to resume. The SVE system started operating in carbon adsorption mode on July 3, 2003, and the AS system began operating on September 5, 2003. The AS/SVE system removed and treated approximately 2,394 pounds of hydrocarbons during system operation.

In January 2004, SECOR observed the removal of one 6,000-gallon and two 10,000-gallon steel USTs at the site. Total petroleum hydrocarbons as gasoline (TPHg) concentrations of 8.0 milligrams per kilogram (mg/kg), 9.0 mg/kg and 24 mg/kg were detected in three of nine soil samples. Total petroleum hydrocarbons as diesel (TPHd) concentrations ranging from 1.0 mg/kg to 144 mg/kg were detected in six soil samples. Benzene was detected in one of nine soil samples at a concentration of 0.0031 mg/kg. Methyl-t-butyl ether (MTBE) was detected in four soil samples at concentrations ranging from 0.0015 mg/kg to 0.0049 mg/kg. Following the completion of soil sampling, two new double-walled fiberglass USTs were installed.

In March 2004, SECOR submitted a work plan to the LWQD for air sparge system installation to address persistent MTBE concentrations in groundwater in off-site wells MW-8 and MW-9. Following a series of discussions with Caltrans regarding encroachment permits for system installation, the Caltrans permit was approved in May 2005. MTBE concentrations in off-site wells MW-8 and MW-9 declined and the off-site air sparge system installation was not completed.

On October 28, 2004, the AS/SVE system was turned off to allow for equipment repairs. On November 18, 2004, SECOR personnel returned to the site to conduct system repairs but noticed that equipment theft had occurred. In an electronic mail dated November 18, 2004, SECOR reported the incident to the LWQD. The LWQD reply requested keeping the system off to monitor for potential rebound in hydrocarbon concentrations in groundwater. In a report dated September 27, 2005, SECOR formally requested that the AS/SVE system be permanently shut down. A response from the LWQD has not been received.

During the First Quarter 2005, low hydrocarbon concentrations were reported in monitoring well MW-4. Historically, this well had been the up-gradient point of groundwater plume delineation. In

Limited Site Assessment Report August 12, 2008 Page 3

October 2005, however, a noticeable increase in hydrocarbon concentrations was detected. This condition was reported in the Fourth Quarter 2005 report. In an effort to determine the potential source, inventory records were reviewed, including UST testing records. In February 2006, Jenal Engineering Corporation was contracted to further inspect (visually and manually) the USTs, product lines and fuel dispenser sumps. Jenal reported no evidence of UST system malfunction.

In an electronic mail dated March 9, 2006, SECOR notified the LWQD of elevated hydrocarbon concentrations detected in MW-4 and efforts conducted to find a probable cause. In the Second Quarter 2007 report, SECOR recommended that the vicinity of MW-4 be assessed to evaluate the potential source of fuel hydrocarbons in this well.

In the Second Quarter 2008, TPHg was detected in the groundwater samples collected from MW-4, MW-7, and MW-8, at concentrations of 2,800 micrograms per liter ( $\mu$ g/L), 360  $\mu$ g/L, and 380  $\mu$ g/L, respectively. TPHg was below a laboratory reporting limit of 50  $\mu$ g/L in the samples collected from MW-2, MW-3, MW-5, MW-6, MW-9, MW-10, MW-11, and MW-12. Benzene was detected in the groundwater samples collected from MW-4 and MW-7 at concentrations of 2.1  $\mu$ g/L and 2.2  $\mu$ g/L, respectively. Benzene was below the laboratory reporting limit of 0.50  $\mu$ g/L in the samples collected from MW-2, MW-3, MW-5, MW-6, and MW-8 through MW-12. MTBE was detected in the groundwater samples collected from MW-4, MW-8, and MW-9 at concentrations of 1.1  $\mu$ g/L, 10  $\mu$ g/L and 11  $\mu$ g/L, respectively. MTBE concentrations were below the laboratory reporting limit of 0.50  $\mu$ g/L in the samples collected from MW-2, MW-3, MW-5 through MW-7, and MW-10 through MW-12. Historical groundwater analytical results are presented in Table 1.

### DRILLING AND SOIL SAMPLING

A drilling permit application was submitted to the LWQD and approved prior to the field activities. A copy of the drilling permit is included in Attachment A.

On June 25, 2008, soil borings SB1 through SB4 were advanced using an air knife to depths ranging from approximately 2.5 to 4 feet below ground surface (bgs) at the locations shown on Figure 2. Refusal was encountered at total depth of each borehole with the air knife. Five soil borehole locations were proposed and permitted, but the location south of MW-4 was abandoned due to a utility conflict. On June 26, 2008, soil boreholes SB1 and SB3 were drilled to depths of 10 and 9.5 feet bgs (Figure 2). Drilling was conducted using a CME-75 drill rig equipped with eight-inch diameter hollow stem augers and operated by Test America Drilling Corporation (Test America). Drilling activities were directed by a Stantec scientist working under the supervision of a State of California Professional Geologist.

Grab soil samples for chemical analysis and logging purposes were collected at selected intervals using a laboratory supplied 4-ounce glass jars with a Teflon-lined polypropylene closure. Each sample was immediately sealed to avoid possible loss of volatiles. The glass jars were then labeled and placed in a chilled cooler for delivery to a State of California-certified analytical laboratory for chemical analysis. Remaining soil was visually classified in accordance with the Unified Soil Classification System. In addition, the soil samples were monitored for volatile organic vapors by the headspace method using a photoionization detector (PID). The borehole logs are presented in Attachment B.

Sampling equipment was cleaned in an aqueous solution of non-phosphate cleanser, a tap water rinse, and a distilled water rinse to prevent cross-contamination between sample intervals. Soil cuttings generated during drilling activities were placed in 55-gallon steel drums and left on-site pending appropriate disposal. Soil cuttings generated during the drilling activities were later transported by Belshire Environmental Services, Inc. (BESI) to the TPS Technologies, Inc. facility in Adelanto, California, for proper disposal.

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### TEMPORARY GROUNDWATER MONITORING WELL INSTALLATION AND DEVELOPMENT

Temporary monitoring wells SB1 and SB3 were constructed of two-inch diameter polyvinyl chloride (PVC) blank and screened casing. Each well was screened with 0.02-inch slotted casing placed from ground surface to 9.5 feet bgs in SB1 and from ground surface to 9.0 feet bgs in SB3. During construction of the temporary monitoring wells, the annular space between the well casing and borehole was packed with clean #3 Monterey sand from the bottom of the well annulus to approximately three feet bgs. The well was then surged to ensure that the sand filter pack had completely settled within the well annulus. Hydrated bentonite chips were placed from one foot to three feet bgs and a steel plate with cold patch was used to seal the remaining well annulus to the ground surface. Well construction details are illustrated on the borehole/well logs in Attachment B.

On June 30, 2008, temporary wells SB1 and SB3 were developed by removing groundwater with a two-inch diameter PVC bailer. Approximately three borehole volumes were removed from each well. Water quality parameters and water clarity were evaluated periodically during well development. Well development continued until the water removed appeared to be less turbid and sand-free, and the parameter readings stabilized. The purged water was temporarily stored on-site in 55-gallon steel drums pending receipt of laboratory analytical results. The drums were later transported by BESI for appropriate disposal. The well development logs are included in Attachment C.

### TEMPORARY GROUNDWATER MONITORING WELL PURGING AND SAMPLING

On July 3, 2008, temporary wells SB1 and SB3 were purged and sampled. The wells were purged using a PVC bailer. Purged groundwater was placed in 55-gallon drums and stored on-site pending laboratory results. During purging, physical and chemical parameters including pH, temperature, and conductivity were monitored for stabilization. Groundwater samples were collected in laboratory-supplied 40-milliliter volatile organic analysis (VOA) containers, and placed on ice for transport to a State of California-certified analytical laboratory. All purging and sampling equipment was cleaned with a non-phosphate detergent solution, rinsed with tap water, and a final distilled water rinse prior to use and between sampling each well. Purged groundwater and decontamination water were stored in 55-gallon steel drums, which were later transported by BESI for appropriate disposal. Groundwater purging and sampling data are included in Attachment C.

### **ANALYTICAL METHODS**

Soil and groundwater samples were submitted under chain-of-custody to Kiff Analytical, LLC (Kiff), a State of California-certified analytical laboratory. Sample containers were clearly labeled with the sample number, date, time, and job description. Five soil samples and two groundwater samples were analyzed for TPHg, and benzene, toluene, ethylbenzene and total xylenes (BTEX) using Environmental Protection Agency (EPA) Test Method 8260B. In addition, the samples were analyzed for t-amyl methyl ether (TAME), t-butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl-t-butyl ether (ETBE), and MTBE using EPA Test Method 8260B. Minimum detection limits for each analytical constituent are shown on the laboratory report. A copy of the soil and groundwater laboratory reports and chain-of-custody documentation is included in Attachment D.

### SOIL SAMPLE ANALYTICAL RESULTS

TPHg was not detected in any of the five soil samples collected above a laboratory reporting limit of 1.0 mg/kg. BTEX, TAME, TBA, DIPE, ETBE, and MTBE were not detected in any of the five soil samples collected above a laboratory reporting limit of 0.0050 mg/kg.

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Soil sample analytical results are summarized in Table 2. TPHg, benzene, and MTBE results from the soil boreholes are presented on Figure 3. A copy of the soil sample laboratory analytical report and chain-of-custody documentation is included in Attachment D.

### **GROUNDWATER SAMPLE ANALYTICAL RESULTS**

TPHg was not detected in SB1 and SB3 above a laboratory reporting limit of 50 µg/L.

BTEX was not detected in SB1 and SB3 above a laboratory reporting limit of 0.50 µg/L.

TAME, DIPE, and ETBE were not detected in SB1 and SB3 above a laboratory reporting limit of 0.50 µg/L.

TBA was detected in SB1 at a concentration of 12  $\mu$ g/L. TBA was not detected in SB3 above a laboratory reporting limit of 5.0  $\mu$ g/L.

MTBE was detected in SB1 and SB3 at concentrations of 3.1 μg/L and 1.0 μg/L, respectively.

Groundwater sample analytical results are summarized in Table 1. TPHg, benzene, and MTBE concentrations from the temporary groundwater wells are presented on Figure 4. A copy of the groundwater sample laboratory analytical report and chain-of-custody documentation is included in Attachment D.

### TEMPORARY GROUNDWATER MONITORING WELL ABANDONMENT

On July 3, 2008, temporary groundwater monitoring wells SB1 and SB3 were destroyed under the supervision of a Stantec scientist following groundwater sampling activities. Well destruction was accomplished utilizing a truck-mounted drill rig equipped with eight-inch diameter hollow-stem augers and operated by Test America. Drilling activities were directed by a Stantec scientist working under the supervision of a state of California Professional Geologist. Well destruction activities were performed following California Well Standards.

Well destruction was performed by removing the well casings, drilling out each well to total depth, and removing the well materials (sand and bentonite). Each borehole was backfilled with hydrated bentonite chips from total depth to three feet bgs. Each borehole was completed with a minimum of a three-foot concrete seal to ground surface. Drill cuttings were placed in 55-gallon steel drums, labeled, and stored on-site pending disposal. The drums were transported to the TPS Technologies facility in Adelanto, California. The well casings were transported to a local landfill for disposal.

### CONCLUSIONS

Based on the results of soil samples collected from SB1 through SB4 and groundwater samples collected from SB1 and SB3, the hydrocarbon impact to groundwater present in MW-4 beginning in the Fourth Quarter 2005, appears to be confined to the vicinity of MW-4 and is of an unknown origin. It does not appear that hydrocarbon concentrations have migrated from MW-4 nor does there appear to be a source area for the impact in the vicinity of MW-4. Benzene concentrations in MW-4 have declined from a maximum of 4,900 µg/L in January 2006 to 2.1 µg/L in May 2008. No benzene concentration was detected in SB-3, approximately 20 feet downgradient of MW-4.

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Based on the decline in benzene concentrations in MW-4, and current maximum MTBE concentrations of 10  $\mu$ g/L and 11  $\mu$ g/L in wells MW-8 and MW-9, Stantec recommends that a closure summary report be prepared for this site. The data appear to support closure (No Further Action).

Should you have any questions or require any additional information please contact the undersigned at (619) 296-6195.

Respectfully,

**Stantec Consulting Corporation** 

Jenna Martinez Associate Scientist

Attachments: Table 1 – Summary of Groundwater Quality and Elevation Data

Patrick A. McConnell, PG #7

PATRICK A. McCOMMEL No. 7205

Principal Geologist

Table 2 - Soil Sample Analytical Results

Figure 1 – Site Location Map

Figure 2 – Site Plan with Soil Borehole Locations

Figure 3 - Soil Sample Concentrations - Soil Boreholes

Figure 4 – Groundwater Sample Concentrations – Temporary Monitoring

Attachment A - Drilling Permit

Attachment B - Borehole/Well Logs and Legend

Attachment C - Well Development, Purging, and Sampling Logs

Attachment D - Soil and Groundwater Sample Laboratory Reports and Chain-of-

**Custody Documentation** 

cc: Ken Hilliard, 7-Eleven

John Wainwright, Stantec

# **Tables**

7-Eleven Store No. 16439

Well No./TOC (ff/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	T	E	X	TAME	TBA	DIPE	EIBE	MTBE
MW-1	12/26/93	NM	NM	955	112	273	30	171		2	 50 - 10 miles - 10 miles		aronica (2.2
668.00	11/15/96	8.55	659.45	<50	<0.5	<0.5	<0.5	<0.5					670
000.00	2/28/97	6.03	661.97	<100	1.7	<1.0	<1.0	<1.0					720
	6/4/97	7.91	660.09	<50	10	<0.5	0.7	<0.5					1,800
1	9/11/97	10.20	657.80	4,500	110	10	1.0	19					4,000
	11/5/97	8.80	659.20	7,000	860	1,000	87	540					2,800
	1/29/98	6.80	661.20	2,000	350	520	40	180					600
	5/14/98	5.61	662.39	59,000	2,500	4,000	770	2,400					4,500
	6/1/98	5.63	662.37		<del></del>	<u> </u>				<u> </u>	<u></u>		
	8/12/98	NM	NM				SAMPLED						
	12/2/98	NM	NM	_			SAMPLED						
	2/17/99	NM	NM				SAMPLED						
	5/12/99	6.83	661.17				SAMPLED						
	8/4/99	8.63	659.37				SAMPLED						
	11/11/99 2/15/00	8.95	659.05				SAMPLED						
į	4/26/00	7.80	660.20 660.51				SAMPLED SAMPLED						
	8/14/00	7.49 9.16	658.84				SAMPLED						
	11/13/00	13.89	654.11	<u> </u>	<del>.</del>		SAMPLED						<del></del>
	1/16/01	7.88	660.12	<del> </del>	<del> </del>		SAMPLED						<del></del>
	4/24/01	5.94	662.06	<del> </del>			SAMPLED						
	7/26/01	8.32	659.68	<50	0.7	<0.5	6.3	<0.5	<0.5	21	<0.5	<0.5	63
	11/13/01	8.99	659.01		<u> </u>		SAMPLED					, 5.5	<u> </u>
	2/11/02	8.29	659.70				SAMPLED						
	5/10/02	8.54	659.46				SAMPLED						
	8/5/02	9.26	658.74				SAMPLED						
	12/2/02	8.47	659.53				SAMPLED				<del></del>		
	2/18/03	7.30	660.70			NOT	SAMPLED	- IMPROF	PER SCR	EEN INTE	RVAL		
	4/29/03	6.30	661.70			NOT	SAMPLED	- IMPROI	PER SCR	EEN INTE	RVAL		
	8/5/03	8.08	659.92			NOT	SAMPLED	- IMPRO	PER SCR	EEN INTE	RVAL		
	12/17/03	7.86	660.14				SAMPLED						
	2/13/04	6.82	661.18	<u> </u>	_		SAMPLED						
	5/20/04	7.50	660.50				SAMPLED						
	8/17/04	8.70	659.30				SAMPLED						
II Ii	11/1/04	6.43	661.57				SAMPLED						
	1/7/05	5.68	662.32				SAMPLED						
	4/15/05	NM	NM				SAMPLED						
	7/25/05	NM	NM 204.74	-			SAMPLED					·	
	10/28/05	6.29	661.71	<del> </del>			SAMPLED						
	1/20/06	6.29	661.71	<del> </del>			SAMPLED						
	4/14/06	5.55	662.45	<u> </u>			SAMPLED						
	7/21/06	7.11	660.89	<u> </u>			SAMPLED						
	10/23/06	8.00	660.00	ļ			SAMPLED	<del> </del>					
	2/12/07	6.78	661.22	1			SAMPLED						
	6/4/07	7.76	660.24	<del>                                     </del>	<del></del>		SAMPLED						
	9/14/07 12/10/07	8.56 7.45	659.44 660.55	1			SAMPLED SAMPLED						
	3/31/08	5.93	662.07	<del>                                     </del>			SAMPLED						
	5/30/08	6.88	661.12	<del> </del>			SAMPLED						
MW-2	11/15/96	9.47	659.85	<50	<0.5	<0.5	<0.5	<0.5					1.0
669.38	2/28/97	6.17	663.15	<50	<0.5	<0.5	<0.5	<0.5				<del> </del>	0.9
	6/4/97	8.70	660.62	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	9/11/97	11.27	658.11	<50	<0.5	<0.5	<0.5	<0.5	<b>-</b>				0.8
	11/5/97	9.76	659.62	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	1/29/98	7.37	662.01	<50	<0.5	<0.5	<0.5	<0.5					2.5
	5/14/98	5.83	663.55	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	6/1/98	5.98	663.40					OT SAMP					
1	8/12/98	8.02	661.36				N	OT SAMP	LED				
	12/2/98	8.08	661.30	<50	<0.5	<0.5	<0.5	<0.5				T =_	1.3
	2/17/99	6.97	662.41	<50	<0.5	<0.5	<0.5	<0.5					<0.5
i	5/12/99	7.69	661.69	<50	<0.5	<0.5	<0.5	<0.5	<u> </u>				<0.5

7-Eleven Store No. 16439

Well No./TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	T	E	X	TAME	тва	DIPE	ЕТВЕ	MTBE
MW-2	8/4/99	9.73	659.65	<50	<0.5	<0.5	<0.5	<0.5					<0.5
Cont'd	11/11/99 2/15/00	10.07	659.31	<50	<0.5	<0.5 <0.5	<0.5	<0.5					<0.5
669.38	4/26/00	8.61 8.15	660.77 661.23	<50	<0.5	<0.5	<0.5	<0.5 OT SAMPL					<0.5
	8/14/00	10.30	659.08					T SAMPL					
	11/13/00	9.95	659.43			<del></del>		OT SAMPL					
	1/16/01	8.64	660.74	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	4/24/01	6.28	663.10			-0.0		T SAMPL		-0.0	10.0	.0.0	-0.0
	7/26/01	9.36	660.02	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	3.3
	11/13/01	10.11	659.27	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	6.2
	2/11/02	9.45	659.93	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	5/10/02	9.61	659.77				NC	T SAMPL	.ED				
	8/5/02	10.52	658.86					T SAMPL					
	12/2/02	9.15	660.23					T SAMPL					
	2/18/03	7.96	661.42	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	4/29/03	6.83	662.55					T SAMPL					
	8/5/03	9.07	660.31					T SAMPL					
	12/17/03	8.87	660.51	-ED	44.0	4F.0		T SAMPL		-40	1 .4 0		-4.0
	2/13/04	7,53	661.85	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	5/20/04 8/17/04	8.35 9.81	661.03 659.57		<del></del>			OT SAMPL					
	11/1/04	6.94	662.44					OT SAMPL					
	1/7/05	5.92	663.46	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	4/15/05	5.52	663.86	<b>\</b>	<u> </u>	~5.0		T SAMPL		<u> </u>	<u> </u>	<u> </u>	<u> </u>
	7/25/05	5.67	663.71	<u> </u>				OT SAMPL					
	10/28/05	6.49	662.89					OT SAMPL					
	1/20/06	6.60	662.78	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	4/14/06	5.63	663.75	100	1 10.00	10.00		OT SAMPL		₹0.0	1 40.00	1 10.50	10.50
	7/21/06	8.06	661.32					OT SAMPL					
	10/23/06	8.96	660.42					OT SAMPL				•	
	2/12/07	7.53	661.85	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	6/4/07	8.72	660.66	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	9/14/07	9.70	659.68	<50	<0.50	<0.50	<0.50	0.51	<0.50	<5.0	<0.50	<0.50	<0.50
	12/10/07	8.20	661.18	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	3/31/08	6.10	663.28	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	5/30/08	7.60	661.78	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
MW-3	11/15/96	7.79	660.93	2,300	49	330	63	270	<u> </u>				37
668.72	2/28/97	4.97	663.75	1,300	28	160	62	150	<u> </u>				29
	6/4/97	6.85	661.87	6,700	190	700	190	860		<u> </u>	<del> </del>	<del> </del>	120
	9/11/97	9.69	659.03	8,900	1,100	1,400	270	1,200			<del></del>		660
	1/5/97	8.16 5.63	660.56 663.09	31,000 15,000	460 180	1,200 350	1,100 550	3,500 790	<del>  -</del> -	<del></del>	<del> </del>	<u> </u>	170 65
	5/14/98	5.03	663.69	5,800	1.6	31	150	130		<del></del>		<del></del>	2.6
	6/1/98	5.11	663.61	0,000	1 1.0	) 01		OT SAMPI					
	8/12/98	4.32	664.40	4,500	1.1	17	120	150			T		6.9
	12/2/98	6.12	662.60	8,600	82	180	310	700			<del>  _</del>		47
	2/17/99	5.08	663.64	5,900	100	190	200	380	<del> </del>		<del> </del>		51
	5/12/99	5.32	663.40	2,500	20	43	76	71	1 –				19
	8/4/99	7.95	660.77	630	20	2.6	14	17					80
	11/11/99	8.45	660.27	450	<0.5	<0.5	2.8	1.9				7-	53
	2/15/00	6.78	661.94	7,300	100	140	280	780					67
	4/26/00	5.35	663.37	6,800	1,000	1,000	180	780					1,600
	8/14/00	8.60	660.12	100	<0.5	<0.5	<0.5	1.1	<0.5	<5.0	<0.5	<0.5	4.0
	11/13/00	8.88	659.84	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.0
	1/16/01	6.67	662.05	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	1.4
	4/24/01 7/26/01	5.02 8.32	663.70 660.40	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<5.0 <5.0	<0.5 <0.5	<0.5 <0.5	0.8 3.2
l	11/13/01	8.78	659.94	<50 <50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0 <5.0	<0.5	<0.5	<0.5
		. 0.10	UUU.U4	_ ~UU	_ ~v.u	~0.0	70.0	<del></del>					
				<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	52
	2/11/02 5/10/02	8.11 8.15	660.61 660.57	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 0.8	<0.5 <0.5	<5.0 6.1	<0.5 <0.5	<0.5 <0.5	6.0

7-Eleven Store No. 16439

Well		¥	GW Elev.										
₹No./TOC ∄(ft/MSL)	Date	DTW (ft)	(ft/MSL)	TPHg	. В		<b>.</b>	X	TAME	TBA	DIPE	ETBE	MTBE
MW-3	12/2/02	7.68	661.04	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	4.3
Cont'd	2/18/03	6.33	662.39	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.5
668.72	4/29/03	5.00	663.72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	< 0.5	<0.5	0.7
	8/5/003	7.47	661.25	<50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	0.8 <0.5	<0.5 <0.5	<5.0 <5.0	<0.5 <0.5	<0.5 <0.5	2.9 2.4
	12/17/03 5/20/04	7.27 6.66	661.45 662.06	<50 <50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	8/17/04	8.32	660.40	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	2.2
	11/1/04	5.34	663.38	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	1/7/05	4.47	664.25				NC	T SAMPL	ED				
	3/5/05	4.26	664.46	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10.0	<1.0	<1.0	<1.0
	4/15/05	4.12	664.60	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	7/25/05	5.12	663.60	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	10/28/05	4.75	663.97	<50	<1.0	<5.0 <0.50	<5.0 <0.50	<5.0 <0.50	<1.0 <0.50	<10 <5.0	<1.0 <0.50	<1.0 <0.50	<1.0 <0.50
	1/20/06 4/14/06	4.87 4.02	663.85 664.70	<50 <50	<0.50 <0.50	<0.50	<0.50	<0.50	<0.50	<5.0 <5.0	<0.50	<0.50	<0.50
	7/21/06	6.11	662.61	94	<0.50	0.52	1.4	14	<0.50	<5.0	<0.50	<0.50	<0.50
	10/23/06	7.31	661.41	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	2/12/07	6.62	662.10	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	6/4/07	7.05	661.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	9/14/07	8.27	660.45	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	12/10/07	6.61	662.11	<50	1.1	0.56	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	3/31/08	4.63	664.09	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
MW-4	5/30/08 11/15/96	5.54 5.32	663.18 664.12	<50 <50	<0.50 <0.5	<0.50 <0.5	<0.50 <0.5	<0.50 <0.5	<0.50	<5.0 	<0.50	<0.50	<0.50 2.1
669.74	2/28/97	5.48	664.26	<50 <50	<0.5	<0.5	<0.5	<0.5			<del>                                     </del>		<0.5
003.74	6/4/97	5.46	664.28	<50	<0.5	<0.5	<0.5	<0.5	_				0.6
	9/11/97	6.55	663.19	<50	<0.5	<0.5	<0.5	<0.5					0.9
	11/5/97	5.95	663.79	<50	<0.5	<0.5	<0.5	<0.5					0.7
	1/29/98 NF	5.37	664.37	<50	<0.5	<0.5	< 0.5	<0.5				_	0.9
	5/14/98 NF	5.37	664.37	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	6/1/98 NF	5.11	664.63				NO	OT SAMPI	_ED				
	8/12/98 NF		664.14	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	12/2/98 NF		664.42	<50	<0.5	<0.5	<0.5	<0.5					0.8
	2/17/99 NF		664.39	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	5/12/99 NF		664.39	<50	<0.5	<0.5	<0.5	<0.5					<0.5
1	8/4/99 NF		663.77	<50	<0.5	<0.5	<0.5	<0.5					26
	11/11/99 NF		663.37	<50	<0.5	<0.5	<0.5	<0.5		<b> </b>	<u> </u>	<u> </u>	<0.5
	2/15/00 NE		664.06	<50	<0.5	<0.5	<0.5	<0.5				<del> </del>	<0.5
	4/26/00	5.41	664.33	100	1 40.0	1 10.0		OT SAMP	<u> </u>	l		1	1 10.0
	8/14/00	6.41	663.33	1				OT SAMP					
	11/13/00	6.36	663.38	<del>                                     </del>				OT SAMP					
	1/16/01 NF	5.34	664.40	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	4/24/01	5.24	664.50			-	N	OT SAMP	LED				,
	7/26/01 NE	6.01	663.73	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
H	11/13/01 N	6.63	663.11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	2/11/02 N	6.01	663.73	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	5/10/02	6.09	663.65					OT SAMP					
	8/5/02	6.77	662.97					OT SAMP					
	12/2/02	5.70	664.04		T	T	<del>,</del>	OT SAMP		1	T	1	1 .5 =
	2/18/03	5.28	664.46	<50	<0.5	<0.5	<0.5	<0.5 OT CAMP	<0.5	<5.0	<0.5	<0.5	<0.5
	4/29/03 8/5/03	5.25 5.79	664.49 663.95	1.				OT SAMP					
1	12/17/03	6.76	662.98	···				OT SAMP			· · · · · · · · · · · · · · · · · · ·		
	2/13/04	5.29	664.45	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	5/20/04	5.14	664.60					OT SAMP			<u> </u>		
1	8/17/04	6.27	663.47					OT SAME					
	11/1/04	5.09	664.65					OT SAME	LED	-,			
	1/7/05	5.07	664.67	576	33	36	26	64	<1.0	<10	<1.0	<1.0	2.2
	3/5/05	4.75	664.99	822	67	102	11	80	<u>  &lt;1.0</u>	<1.0	<1.0	<1.0	1.2
<u> </u>	4/15/05	5.10	664.64	J			N	OT SAME	LED				

7-Eleven Store No. 16439

Well No./TOC	Date	DTW (ft)	GW Elev.	TPHg	В	T	E	X	TAME	TBA	DIPE	ЕТВЕ	мтве
(ft/MSL)		**	(ft/MSL)					inconstruction of the second					
MW-4	7/25/05	3.98	665.76		!		NC	T SAMPL	ED		***************************************		
Cont'd	10/28/05	4.51	665.23	33,000	1,130	3,950	572	3,100	<25	<250	<25	<25	<25
669.74	1/20/06	4.81	664.93	76,000	4,900	13,000	2,400	12,000	<30	<150	<30	<30	<30
	2/27/06	3.87	665.87	73,000	2,200	12,000	1,800	12,000	<30	<150	<30	<30	<30
•	4/14/06	3.86	665.88	78,000	850	7,000	2,000	15,000	<20	<90	<20	<20	<20
	7/21/06	4.53	665.21	41,000 57,000	500 190	660 590	1,300 1,800	9,600 13,000	<9.0 <9.0	<50 <50	<9.0 <9.0	<9.0 <9.0	<9.0 <9.0
	10/23/06 2/12/07	5.38 4.99	664.36 664.75	69,000	63	240	2,200	13,000	<9.0	<50	<9.0	<9.0	<9.0
	6/4/07	5.03	664.71	30,000	20	32	1,200	4,400	<5.0	<25	<5.0	<5.0	<5.0 <5.0
	9/14/07	6.06	663.68	29,000	11	14	1,100	4,000	<0.50	7.8	<0.50	<0.50	1.7
	12/10/07	5.02	664.72	3,800	4.6	4.2	110	14	<0.50	150	<0.50	<0.50	1.6
	3/31/08	3.76	665.98	16,000	3.2	1.7	540	880	<0.50	110	<0.50	<0.50	1.2
	5/30/08	3.99	665.75	2,800	2.1	2.6	83	4.0	<0.50	110	<0.50	<0.50	1.1
MW-5	11/15/96	NM	NM	<50	<0.5	<0.5	<0.5	<0.5					1.6
669.31	2/28/97	6.03	663.28	<50	<0.5	<0.5	<0.5	<0.5					27
	6/4/97	6.61	662.70	<50	<0.5	<0.5	<0.5	<0.5					1.2
	9/11/97 11/5/97	9.60	659.71	<50	<0.5	<0.5	<0.5	<0.5			<del></del>		<0.5 1.0
		7.18	662.13	<50	<0.5	<0.5	<0.5	<0.5			<del></del>		i - I
	1123130	0.10	663.12	<50	<0.5	<0.5	<0.5	<0.5	<del> </del>	<del></del>		<del> </del>	0.6
	0/14/30	0.01	663.70	<50	<0.5	<0.5	<0.5	<0.5					0.8
	0/1/00	3.70	663.55	NM	<u> </u>	<u> </u>					<del></del>		NM
	8/12/98 NF	- 0.10	663.13	<5 <u>0</u>	<0.5	<0.5	<0.5	<0.5					0.6
	12/2/98 NF	0.70	662.85	<50	<0.5	<0.5	<0.5	<0.5					0.6
	2/17/99 NF	0.10	663.12	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	5/12/99 NF	0.61	663.10	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	8/4/99 NF	6.99	662.32	<50	<0.5	<0.5	<0.5	<0.5			-		0.5
	11/11/99 NF	8.19	661.12	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	2/15/00 NE		662.52	<50	<0.5	<0.5	<0.5	<0.5		<u> </u>	l		<0.5
	4/26/00	6.34	662.97					OT SAMP					
	8/14/00	8.11	661.20	<u> </u>				OT SAMP					
	11/13/00	8.31	661.00					OT SAMP					
	1/16/01	NM _	NM NM	ļ			T SAMPLE T SAMPLE						
	4/24/01 7/26/01	NM NM	NM NM	<u> </u>			T SAMPLE				·		
	11/13/01	NM	NM	<del>                                     </del>			T SAMPLI						
	2/11/02	NM	NM				T SAMPLE						
	5/10/02	NM	NM	<del> </del>			T SAMPLE						_
	8/5/02	NM	NM				T SAMPLI						
	12/2/02	6.87	662.44	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2/18/03	6.33	662.98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6
	4/29/03	5.95	663.36					OT SAMP					
	8/5/03	6.71	662.60					OT SAMP					
	12/17/03	6.70	662.61	450	-44.0	-5.5		OT SAMP		1 -40	1 44 0	T -4 0	7 20
	2/13/04	6.29	663.02	<50	<1.0	<5.0	<5.0	│ <5.0 OT SAMP	<1.0	<10	<1.0	<1.0	2.8
	5/20/04 8/17/04	6.36 6.96	662.95 662.35					OT SAMP		-			
	11/1/04	5.99	663.32	<del>                                     </del>		<del></del>		OT SAMP					
	1/7/05	5.65	663.66	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	4/15/05	5.59	663.72	1	1 110			OT SAMP	<del> </del>		, ,,,,	, ,,,,	1
	7/25/05	5.92	663.39					OT SAMP		••			
ŀ	10/28/05	5.63	663.68					OT SAMP					
	1/20/06	6.11	663.20	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	4/14/06	5.67	663.64					OT SAMP					
ļ	7/21/06	6.30	663.01	ļ				OT SAME					
	10/23/06	6.62	662.69			1 -0 =0	1	OT SAME	1	1 .= 2	1 -0.50	7 20.50	1 40 50
	2/12/07	6.08	663.23	<50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50	
	6/4/07 9/14/07	6.41 6.95	662.90 662.36	<50	<0.50	<0.50	<0.50	<0.50 IOT SAMF	<0.50	<5.0	<0.50	<0.50	<0.50
L	1 011-1101	ຸ່ບ.ສບ	1 002.00	<del></del>	<del></del>		IV.	O I OAIVIE	<u></u>				

7-Eleven Store No. 16439

Well No./TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	7	E	X	TAME	тва	DIPE	ЕТВЕ	MTBE
MW-5	12/10/07	6.40	662.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
Cont'd	3/31/08	5.81	663.50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
669.31	5/30/08	6.13	663.18	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
MW-6	11/15/96	NM	NM	<50	<0.5	<0.5	<0.5	<0.5					<0.5
670.28	2/28/97	6.75	663.53	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	6/4/97	7.16	663.12	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	9/11/97	8.02	662.26	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	11/5/97	7.45	662.83	<50	<0.5	<0.5	<0.5	<0.5					<0.5
!	1/29/98	6.72	663.56	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5					<0.5
i	05/14/98 6/1/98	6.17	664.11 663.98	<u>\50</u>			<0.5 	<0.5					<0.5
	8/12/98	6.70	663.58	<50	<0.5	<0.5	<0.5	<0.5	<del></del>			<del></del>	<0.5
	12/2/98	6.74	663.54	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	2/17/99	6.70	663.58	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	5/12/99	6.69	663.59	<50	<0.5	<0.5	<0.5	<0.5		<u></u>	-		<0.5
	8/4/99	7.39	662.89	<50	<0.5	<0.5	<0.5	<0.5					0.6
	11/11/99	7.64	662.64	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	2/15/00	7.29	662.99	<50	<0.5	<0.5	<0.5	<0.5		-			<0.5
	4/26/00	6.88	663.40					OT SAMPL					
	8/14/00	7.70	662.58					OT SAMPL					
	11/13/00	7.66	662.62					OT SAMPL					
	4/24/01	6.39	663.89					OT SAMPL	7				T
	7/26/01 NP		663.12	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	1.6
	11/13/01	7.73	662.55	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	0.7
	2/11/02	7.34	662.94	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.2
	5/10/02 8/5/02	7.37 7.80	662.91 662.48					OT SAMPL					
	12/2/02	7.27	663.01					OT SAMPL					
	2/18/03	6.83	663.45	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7
	4/29/03	6.46	663.82		1 0.0			OT SAMPI		10.0	-0.0	10.0	1
	8/5/03	7.19	663.09					OT SAMPI					
	12/17/03	7.24	663.04					OT SAMPI					
	2/13/04	6.91	663.37	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	5/20/04	6.93	663.35				NO	OT SAMPI	LED				
	8/17/04	7.50	662.78					OT SAMPI					
	11/1/04	6.40	663.88	<u> </u>	r	<del></del>	<del>,</del>	OT SAMPI		1			1
	1/7/05	6.27	664.01	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	4/15/05	6.25	664.03					OT SAMP					
	7/25/05 10/28/05	6.58 6.55	663.70 663.73					OT SAMPI OT SAMPI					
	1/20/06	6.60	663.68	<50	<0.50	<0.50		<0.50		<5.0	<0.50	<0.50	<0.50
	4/14/06	6.22	664.06	1 100	1 40.00	1 40.00		OT SAMP		1 40.0	1 10.00	1 40.00	1 40.00
	7/21/06	6.89	663.39					OT SAMP			<u> </u>		
	10/23/06	7.12	663.16					OT SAMP					
	2/12/07	6.71	663.57	<50	<0.50	<0.50	< 0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	6/4/07	7.02	663.26	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	9/14/07	7.47	662.81			1	1	OT SAMP					
	12/10/07	6.82	663.46	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	3/31/08	6.56	663.72	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	5/30/08	6.85	663.43	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
MW-7	9/11/97	10.13	657.65	3,000	86	38	<5.0	27			<del>-</del>		2,700
667.78	11/5/97	8.72	659.06	15,000	2,400	3,400	280	1,600				<del> </del>	6,000
	1/29/98 5/14/98	6.71 5.39	661.07 662.42	13,000 210,000	1,700 20,000	1,500 53,000	170 4,700	750 27,000	<del></del>	<u></u>			5,400 20,000
	6/1/98	5.53	662.25	210,000	20,000	1 00,000		OT SAMP					1 20,000
	8/12/98	6.89	660.89	<del> </del>		NOT SA	MPLED -			-IICKNES	S		•
	12/2/98	7.17	660.62	<u> </u>			MPLED -						
	2/17/99	6.30	661.48	11,000	1,600	1,500	200	1,400	T		T	T	4,000
	5/12/99	6.70	661.08	11,000		1,700	270	1,100					2,900
	8/4/99	8.49	659.30				MPLED -	MEASUR			S	_ <del></del>	
	11/11/99	8.76	659.02	1		NIC	TOMADI	ED - SHE	EN OBCE	OVED			

7-Eleven Store No. 16439

Well No:/TOC	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	. 20-20-22 . 20- <b>37</b> - 26	E	X	TAME	TBA	DIPE	ЕТВЕ	MTBE
(ft/MSL)								7. 2.	# (A			Pasta da	
MW-7 Cont'd	2/15/00 4/26/00	7.62 7.36	660.16 660.42	7,300 6,000	1,000 1,100	920 1,100	150 180	840 510					2,000 1,800
667.78	8/14/00	8.99	658.79	970	280	190	93	310	1.3	930	<0.5	<0.5	1,000
	11/13/00	8.54	659.24	<50	<0.5	<0.5	0.5	<0.5	<0.5	25	<0.5	<0.5	53
	1/16/01	8.57	659.21	<50	0.5	<0.5	1.5	4.8	<0.5	68	<0.5	<0.5	88
	4/24/01	5.80	661.98	<50	<0.5	<0.5	5.9	2.7	<0.5	15	<0.5	<0.5	72
	7/26/01	8.13	659.65	<50	<0.5	<0.5	3.4	<0.5	<0.5	67	<0.5	<0.5	70
	11/13/01 2/11/02	8.81 8.65	658.97 659.13	<50	<0.5	<0.5	<0.5	<0.5 D - SHEE	<0.5 N OBSEF	24 2VED	<0.5	<0.5	76
	5/10/02	8.38	659.40	<50	0.7	<0.5	0.9	1.0	<0.5	170	<0.5	<0.5	230
	8/5/02	9.10	658.68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	14	<0.5	<0.5	180
	12/2/02	8.02	659.76	<50	<0.5	<0.5	<0.5	<0.5	<0.5	91	<0.5	<0.5	300
	2/18/03	7.13	660.65	210	4.5	0.6	6.5	<0.5	<0.5	71	<0.5	<0.5	380
	4/29/03	6.23	661.55	58	2.3	1.4	1.1	3.5	0.6	72	<0.5	<0.5	230
	8/5/03 12/17/03	7.91 7.85	659.87 659.93	960 <50	60 <0.5	<5.0 <0.5	50 <0.5	10 <0.5	<5.0 <0.5	430 <5.0	<0.5 <0.5	<0.5 <0.5	690 33
	2/13/04	6.71	661.07	232	1.0	<5.0	1.6	3.6	<1.0	17	<1.0	<1.0	72
	5/20/04	7.39	660.39	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	28
	8/17/04	8.52	659.26	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	26
	11/1/04	6.26	661.52	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	13
	1/7/05	5.50	662.28					OT SAMPL					
	3/5/05	4.91	662.87	60	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<1.0	<1.0	48
	4/15/05 7/25/05	5.34 5.56	662.44 662.22	68 105	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<1.0 <1.0	<10 11	<1.0 <1.0	<1.0 <1.0	52 60
	10/28/05	5.96	661.82	132	2.0	7.5	<5.0 <5.0	<5.0	<1.0	<10	<1.0	<1.0	39
	1/20/06	6.11	661.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	5.1	<0.50	<0.50	34
	4/14/06	5.39	662.39	70	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	14
	7/21/06	6.92	660.86	91	<0.50	<0.50	<0.50	2.5	<0.50	<5.0	<0.50	<0.50	28
	10/23/06	7.78	660.00	92	<0.50	<0.50	<0.50	1.6	<0.50	<5.0	<0.50	<0.50	49
	2/12/07	6.56	661.22	290	1.1	<0.50	<0.50	0.96	<0.50	<5.0	<0.50	<0.50	13
	6/4/07 9/14/07	7.58 8.38	660.20 659.40	<50 <50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<5.0 <5.0	<0.50 <0.50	<0.50 <0.50	27 51
	12/10/07	7.26	660.52	240	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0 <5.0	<0.50	<0.50	8.8
	3/31/08	5.76	662.02	210	1.4	<0.50	<0.50	2.4	<0.50	<5.0	<0.50	<0.50	9.1
	5/30/08	6.70	661.08	360	2.2	<0.50	<0.50	8.4	<0.50	<5.0	<0.50	<0.50	<0.50
MW-8	9/11/97	10.87	652.89	5,100	72	19	480	420				ļ <u></u>	79
663.76	11/5/97	8.51	655.25	750	6.1	0.6	45	42	ļ. <u>.</u>	<u> </u>	<u> </u>		92
	1/29/98	7.23	656.53	340	1.0	0.7	8.3	6.2	-	<del></del>	-		98
	5/14/98 NF	6.44	657.32	1,700	10	<5.0	64	6.2			<u> </u>		93
	6/1/98 NF	6.42	657.34	<u> </u>	<del></del>	т		OT SAMPI	_ED			1	
	8/12/98 NF	7.18	656.58	3,700	23	2.8	250	10		<del></del>			100
	12/2/98 NE	7.49	656.27	280	16	<2.0	460	23	<del> </del> -			<del> </del> -	100
	2/17/99 NF	6.72	657.04	2,100	12	1.0	280	2.0	<del> </del> -	<del>  -</del>	<u> </u>	<del> </del>	160
	5/12/99 NF		656.88	1,700	10	1.0	310	1.7	<del> </del>	<del>  -</del>	<del>  -</del>	<del> </del>	170
	014100	7.00	655.80	1,700	14	1.3	440	4.3	<del> </del>			<del> </del>	200
	11/11/99 NE	8.39	655.37	2,400	11	1.4	620	3.5	<del> </del>	<u> </u>	<del>  -</del> -	<del> </del>	250
	2/15/00 NI	7.73	656.03	1,300	5.6	<0.5	150	1.0	ļ			ļ. <del></del>	290
	4/26/00 NI	7.39	656.37	5,900	25	2.3	800	17	<del> </del>				540
	8/14/00 NI		655.14	2,700	21	1.5	250	6.2	<0.5	470	<0.5	<0.5	210
	11/13/00 NI		655.16	1,300	6.0	<1.0	78	1.3	<1.0	240	<1.0	<1.0	400
	1/16/01 N	7.99	655.77	680	3.8	<0.5	31	<0.5	<0.5	320	<0.5	<0.5	370
	4/24/01 N		656.94	890	7.0	<0.5	23	1.1	<0.5	200	<0.5	<0.5	590
	7/26/01 N	7.00	656.11	1,500	13	<0.5	160	<0.5	<0.5	650	<0.5	<0.5	720
	11/13/01 N		655.56	500	3.3	<2.0	<2.0	<2.0	<2.0	330	<3.0	<2.0	730
	2/11/02 N		655.90	750	2.8	<2.0	<2.0	<2.0	<2.0	460	<2.0	<2.0	910
1	5/10/02	7.89	655.87	250	0.6	<0.5	2.3	<0.5	<0.5	540	<0.5	<0.5	580
	8/5/02 12/2/02	8.54 7.89	655.22 655.87	150 120	<0.5 <0.5	<0.5 <0.5	5.6 4.0	<0.5 <0.5	0.6	93 170	<0.5 <0.5	<0.5 <0.5	660 510
	2/18/03	7.25	656.51	230	0.9	0.6	5.4	<0.5	0.6	42	<0.5	<0.5	540
ш	1 4 10/00	1 1.20	1 00001		1 0.0	1 0.0	1 5.4	1 70.0	1 0.0		70.0		1. 040

7-Eleven Store No. 16439

MW-8    472903   670   66706   400   2.3   2.8   16   4.3   4.20   210   4.20   4.20   950	Well No./TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В		:	X	TAME	тва	DIPE	ETBE	MTBE
683.76   12/17/03   7.63   666.23   4100   41,0   41,0   13   41,0   41,0   57   41,0   470   470   170   470   170   470   170   470   170   470   170   470   170   470   170   470   170   470   170   470   170   470   170   470   170   470   170   470   170   470   170   470   170   470   170   470   170   470   170   470														
\$\frac{\text{21904}}{\text{67004}} \tag{7.03} \tag{666,73} \tag{226} \tag{22} \tag{4.10} \tag{4.50} \tag{4.50} \tag{4.50} \tag{4.50} \tag{4.50} \tag{4.61} \tag{4.81} \tag{4.10} 4.1														
S20004	003.70													
847704   8.14   655.62   171   <1,0   <5,0   <5,0   <5,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0														
11/10/4   6.79   686.07   163   1.2   5.0   8.8   5.0   <1.0   20   <1.0   <1.0   90			<del></del>							_				
415005   5.81   657.80   326   1.8   45.0   53   45.0   41.0   25   41.0   73   725005   6.16   657.60   389   1.8   45.0   51   45.0   41.0   20   41.0   41.0   41.0   62   102305   6.42   657.34   337   1.8   45.0   25   45.0   41.0   1.0   41.0   41.0   41.0   41.0   41.0   41.0   41.0   41.0   41.0   41.0   41.0   41.0   45.0   45.0   45.0   41														
		1/7/05	6.02	657.74	285	8.1	7.4	14	16	<1.0		<1.0	<1.0	66
10/28/05   6.42   657.34   410   10   40.50   16   40.50   0.50   12   41.0   65   64   64   64   64   64   64   64								_		<1.0				
1/20/06   6.42   657.34   410   1.0   4.050   16   40.50   40.50   11   40.50   40.50   30   30   41/406   5.83   657.93   400   0.96   40.50   40.5														
### A14/406					+									
17/21/06   6.92   686.84   94   0.50   0.50   1.8   0.50   0.50   0.50   8.7   0.50   0.50   0.90   40												<u> </u>		
10/23/06						<del>.                                      </del>								
271207						<del></del>		$\overline{}$						
GH/407														
91/407								<del></del>						
12/1007   7.72   656.04   71   <0.50   1.5   0.62   3.0   <0.50   <5.0   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.														
331/08					<del> </del>	1 -		<del></del>				+		
53008		<del> </del>	+											
MW-9			<del></del>							<del> </del>				
1/29/98	MW-9									1				
S/14/98	663.31		8.79		1,000	8.9	1.5		8					680
8/1/28			7.59		1,300	22	3.0	34	25					330
8/12/98			6.81	656.50	460	6.3	1.8			·				160
12/2/98				!	ļ		,			ED			,	
2/17/99			-		-									
5/12/99					<del></del>	<del></del>		<del></del>					ļ	
8/4/99         7.95         655.36         1,100         1.8         <0.5         11         2.0					<del></del>					<del> </del>	+	+	<del> </del>	
11/11/99	ļ.									<u> </u>				
2/15/00			<del></del>			· · · · · · · · · · · · · · · · · · ·				<del> </del>		+-	<u> </u>	
4/26/00								1	1		<del>                                     </del>	-	<del></del>	
8/14/00         8.57         654.74         <50         <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					<del></del>	<del></del>				+	<del>                                     </del>		•	
11/13/00										<del>-</del>				
1/16/01			-										<del></del>	
4/24/01         6.81         656.50         84         0.6         <0.5         4.7         <0.5         <0.5         67         <0.5         <0.5         370           7/26/01         7.65         655.66         130         <0.5					<del></del>					<del> </del>	<del></del>			
11/13/01         8.13         655.18         160         <0.5         <0.5         4.7         <0.5         <0.5         42         <0.5         <0.5         200           2/11/02         7.81         655.50         83         <0.5						<del></del>		<del></del>		+			<del>,                                     </del>	
2/11/02         7.81         655.50         83         <0.5         0.5         2.9         <0.5         <0.5         100         <0.5         <0.5         210           5/10/02         7.80         655.51         190         0.8         <0.5	1	7/26/01	7.65	655.66	130	<0.5	0.7	4.3	<0.5	<0.5	55	<0.5	<0.5	190
5/10/02         7.80         655.51         190         0.8         <0.5         13         <0.5         <0.5         230         <0.5         <0.5         220           8/5/02         8.45         654.86         120         <0.5		11/13/01	8.13	655.18	160	<0.5		4.7	<0.5	<0.5	42	<0.5	<0.5	
8/5/02         8.45         654.86         120         <0.5         <0.5         4         <0.5         <0.5         18         <0.5         <0.5         330           12/2/02         7.77         655.54         210         0.5         <0.5										+				
12/2/02         7.77         655.54         210         0.5         <0.5         9.2         <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         <	l													
2/18/03         7.12         656.19         260         0.8         0.6         13         <0.5         <0.5         6.7         <0.5         <0.5         260           4/29/03         6.67         656.64         280         1.1         1.2         17         2         <0.5					+			+				-		
4/29/03         6.67         656.64         280         1.1         1.2         17         2         <0.5         32         <0.5         <0.5         130           8/5/03         7.51         655.80         140         <0.5														
8/5/03         7.51         655.80         140         <0.5														
12/17/03         7.48         655.83         230         0.8         <0.5			1						1					
2/13/04         7.03         656.28         241         <1.0         <5.0         7.9         <5.0         <1.0         <1.0         <1.0         88           5/20/04         7.16         656.15         168         <1.0									<del></del>					
5/20/04         7.16         656.15         168         <1.0														
8/17/04         8.01         655.30         146         <1.0         <5.0         9.7         <5.0         <1.0         <1.0         <1.0         <1.0         <63           11/1/04         6.55         656.76         127         <1.0														
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						-			<del></del>					
1/7/05         6.81         656.50         183         <1.0	l.													
7/25/05         6.15         657.16         288         <1.0         <5.0         38         <5.0         <1.0         <1.0         <1.0         <1.0         35           10/28/05         6.34         656.97         214         <1.0				-1								<1.0		
10/28/05         6.34         656.97         214         <1.0														
1/20/06     6.33     656.98     420     <0.50										<del></del>				
4/14/06         5.76         657.55         590         0.62         <0.50         35         1.1         <0.50         <5.0         <0.50         <0.50         29           7/21/06         6.89         656.42         430         0.62         <0.50							+							
7/21/06         6.89         656.42         430         0.62         <0.50         22         0.72         <0.50         <5.0         <0.50         <0.50         33           10/23/06         7.33         655.98         190         <0.50														
10/23/06         7.33         655.98         190         <0.50							<del>-1</del>		<del>-</del>			_}		
2/12/07 7.03 656.28 330 <0.50 <0.50 14 <0.50 <0.50 <5.0 <0.50 <0.50 28														
	1										<del>-i</del>			
		6/4/07	7.03	655.87	600	0.59	<0.50	19	0.59	<0.50	<5.0 <5.0	<0.50	<0.50	25

7-Eleven Store No. 16439

No.710C   Chate   TITW (R)   OVER 1978   Fig.   F	Well		E RADE SERVICE		e e e e e e e e e e e e			ĝio ala j		sila edisajta	raning project	ali vyhijakini,		an, grain 19
		Date	DTW (ft)	GW Elev.	TPHa	В	T		X	TAME	TRA	DIPE	FTBF	MTBE
MMY-0  91407	St. California and Company and apply			(ft/MSL)				200 V						
Control   12/10/07   7.46   655.68   260   < <a <="" href="https://doi.org/10.10/&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;0/14/07&lt;/td&gt;&lt;td&gt;7.04&lt;/td&gt;&lt;td&gt;GEE 40&lt;/td&gt;&lt;td&gt;450&lt;/td&gt;&lt;td&gt;~∩ ED&lt;/td&gt;&lt;td&gt;&lt;b&gt;~&lt;/b&gt;0 €0&lt;/td&gt;&lt;td&gt;4.4&lt;/td&gt;&lt;td&gt;&lt;b&gt;-&lt;/b&gt;0 E0&lt;/td&gt;&lt;td&gt;&lt;0.50&lt;/td&gt;&lt;td&gt;- E Λ&lt;/td&gt;&lt;td&gt;&lt;0 €0&lt;/td&gt;&lt;td&gt;-0 E0&lt;/td&gt;&lt;td&gt;72&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;  B63.11   331/08   6.50   655.61   240   &lt;1.50   &lt;1.5&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;                                     &lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;  MW-10   Sf1498   NM&lt;/td&gt;&lt;td&gt;000.01&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;  669.51   671/98   8.24   651.27   &lt;50   &lt;0.5   &lt;0&lt;/td&gt;&lt;td&gt;MW-10&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;70.00&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;  19/298   8.77   680.14   &lt;50   &lt;0.5   &lt;0.5&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;-&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;  12/208                                      &lt;/td&gt;&lt;td&gt;555.51&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;0.5&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;  27/7/99   N&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;0.5&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;  S7/289   N   8.58   650,93   &lt;50   &lt;0.5   &lt;0.5  &lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;2/17/00 NP&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;-&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;  B4/499   \$9   9.89   648.82   &lt;50   &lt;0.5   &lt;0.5  &lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;  11/11/199   9,83   649.58   c50   c0.5   c0.5   c0.5   c0.5   c.   c.   c.   c.   c.   c.   c.  &lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;h&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;  2715/00   9.32   680.19   550   40.5   40.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;0/4/88&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;### 47800 N** 10.84 648.97 &lt; &lt;a&gt;               40.0&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;11/11/99 " td=""><td>9.93</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>&lt;0.5</td></a>	9.93			1								<0.5		
8/14/00 N 10.54 048.97				650.19	<50	<0.5	<0.5	<0.5	<0.5					0.5
11/13/10   N		7/20/00	8.84	650.67	<50	<0.5	<0.5	<0.5	<0.5					<0.5
11/13/10   N		8/14/00 NP	10.54	648.97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
1/16/01   M   10.85   648.66   <50   <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   <0.5   <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   <0.5   <0.5   <0.5   <0.5   <0.5		11/13/00 NP	11.88	647.63	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
4/24/01   18							<del></del>			<del> </del>				<0.5
						i								
11/13/01   10.79   648.14   <50   <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   <0.5   <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   <0.5   <0.5   <0.5   <0.5   <0.5   <			$\overline{}$			1	<del></del>							
17/13/03   11.07   046.172   <50   <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   <0.5   <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   <0.5   <0.5   <0.5   <0.5   <0.5		7720701	10.75		i	1		i						1
B/10/02		11/13/01	11.07									· · · · · · · · · · · · · · · · · · ·		
8/5/02 12.71 646.80 < 50 < 0.5							-					<del></del>		<0.5
12/20/2												<u> </u>		<0.5
2/18/03   10.03   649.48   <50   <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   <0.5   <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   <0.5   <0.5   <0.5   <0.5   <0.5   <0														<0.5
4/29/03							<del>1</del>							
81503						<del>i                                      </del>	<del> </del>		· · · · · · · · · · · · · · · · · · ·				<del></del>	
12/17/03														
2/13/04   10.09   649.42   <50   <1.0   <5.0   <5.0   <5.0   <5.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.5   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1							<del></del>			<del></del>				
S/20/04										<del>}</del>				<1.0
8/17/04						<del>.</del>								<1.0
11/1/04														<1.0
17/705					<u> </u>	· · · · · · · · · · · · · · · · · · ·				<del></del>				<1.0
4/15/05   8.65   650.86   <50   <1.0   <5.0   <5.0   <5.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.								<del></del>	<del></del>	<del> </del>		<del> </del>		<1.0
7/25/05   9.69   649.82   <50   <1.0   <5.0   <5.0   <5.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.														<1.0
1/20/06						<1.0						<1.0	<1.0	<1.0
4/14/06		10/28/05	9.79	649.72	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
7/21/06														<0.50
10/23/06		4/14/06	8.78	650.73	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
2/12/07   9.16   650.35   <50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.50   <0.5			10.46	649.05	<50	<0.50	<del>,</del>	<0.50		<0.50	<5.0	<0.50	<0.50	<0.50
6/4/07         10.41         649.10         <50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50 <th< td=""><td></td><td></td><td></td><td></td><td></td><td><del></del></td><td></td><td><del></del></td><td></td><td></td><td></td><td></td><td></td><td>&lt;0.50</td></th<>						<del></del>		<del></del>						<0.50
9/14/07								1		<del></del>	<del></del>	<del></del>		<0.50
12/10/07					<del> </del>					<del></del>				<0.50
NW-11   S/14/98   NM   NM   NM   NM   NM   NM   NM   N								+	<del>  </del>		<del></del>	<del></del>		<0.50
5/30/08         10.68         648.83         <50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50         <0.50 <t< td=""><td></td><td></td><td><del></del></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><del></del></td><td></td><td>&lt;0.50</td></t<>			<del></del>									<del></del>		<0.50
MW-11 664.19				<del>-</del>				+			<del></del>		<del></del>	<0.50
664.19  6/1/98  6.68  657.51   650  60.5 <p< td=""><td>LANAL 4.4</td><td></td><td>1</td><td></td><td><u> </u></td><td></td><td>1</td><td>1 .</td><td><del>i</del></td><td>+</td><td><del> </del></td><td>+</td><td></td><td>&lt;0.50</td></p<>	LANAL 4.4		1		<u> </u>		1	1 .	<del>i</del>	+	<del> </del>	+		<0.50
8/12/98         7.58         656.61         <50	ll .				+			<del></del>		i -				F E
12/2/98         7.72         656.47         <50	004.19					-			_	+	<del> </del>	<del></del>	+	5.5 8.2
2/17/99         7.18         657.01         <50         <0.5         <0.5         <0.5         <0.5             3.           5/12/99         7.38         656.81         <50					<del>- </del>					+	-	+	<del>                                     </del>	6.6
5/12/99         7.38         656.81         <50									<del>.                                      </del>	+	<del> </del>	+	1	3.5
8/4/99     8.44     655.75     <50					<del></del>			<del></del>		+	1	+	<del></del>	1.3
11/11/99     8.84     655.35     <50										+	<del> </del>	+	<del>                                     </del>	3.4
2/15/00     8.13     656.06     <50			<del></del>		<del> </del>		<del></del>			+	-		<del> </del>	13
4/26/00     7.84     656.35     <50				-				+		+	1	+		11
8/14/00     9.07     655.12     190     <0.5				<del></del>	<del></del>									5.0
11/13/00         8.91         655.28         <50         <0.5         <0.5         <0.5         <0.5         <5.0         <0.5         7.0           1/16/01         8.28         655.91         <50			1			_				<0.5	150	<0.5	1	1,200
1/16/01 8.28 655.91 <50 <0.5 <0.5 <0.5 <0.5 <0.5 <5.0 <0.5 <0.5					+							<del></del>		7.6
4/24/01 7.30 656.89 <50 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5				<del></del>	<50	<0.5	<0.5	+	<0.5	<del></del>	<5.0		<0.5	4.7
1 100 0000 00 000 000 000 000 000 000 0	<u> </u>	4/24/01	7.30	656.89	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.4

7-Eleven Store No. 16439

Well No:/TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	Т	Ē	×	TAME	ТВА	DIPE	ЕТВЕ	MTBE
MW-11	7/26/01	7.99	656.20	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.9
Cont'd	11/13/01	8.48	655.71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.0
664.19	2/11/02	8.23	655.96	<50	<0.5	<0.5	<0.5	<0.5	<0.5	6.2	<0.5	<0.5	10
	5/10/02	8.25	655.94	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	1.8
	8/5/02	8.96	655.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.4
	12/2/02	8.25	655.94	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	3.4
	2/18/03 4/29/03	7.62	656.57 657.07	<50 <50	<0.5 <0.5	0.5 1.2	<0.5	<0.5 1.2	<0.5	<5.0 <5.0	<0.5	<0.5 <0.5	2.8 1.9
	8/5/03	7.12 8.00	656.19	<50 <50	<0.5	1.∠ <0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<5.0 <5.0	<0.5 <0.5	<0.5	2.3
	12/17/03	7.88	656.31	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.1
	2/13/04	7.45	656.74	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	5/20/04	7.63	656.56	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	8/17/04	8.55	655.64	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	11/1/04	7.02	657.17	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	1/7/05	6.33	657.86	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	4/15/05	6.31	657.88	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	7/25/05	6.55	657.64	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	10/28/05 1/20/06	6.78 6.75	657.41 657.44	<50 <50	<1.0 <0.50	<5.0 <0.50	<5.0 <0.50	<5.0 <0.50	<1.0 <0.50	<10 <5.0	<1.0 <0.50	<1.0 <0.50	<1.0 <0.50
	4/14/06	6.16	658.03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0 <5.0	<0.50	<0.50	<0.50
Į.	7/21/06	7.30	656.89	<50 <50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	10/23/06	7.75	656.44	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
1	2/12/07	7.54	656.65	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	6/4/07	8.00	656.19	<50	<0.50	< 0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	9/14/07	8.51	655.68	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	12/10/07	8.15	656.04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	0.70
	3/31/08	7.13	657.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	5/30/08	8.10	656.09	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
MW-12	5/14/98	NM	NM	4 400					<del> </del>		<del></del>		
662.72	6/1/98	9.58	653.14 652.44	1,100 260	3.0	<0.5 <0.5	16	27 5.7	<u> </u>		<del>  -</del>		110 41
	8/12/98 12/2/98	10.28	652.20	<50	1.4 <0.5	<0.5	4.3 <0.5	<0.5					1.6
	2/17/99	10.32	652.30	72	<0.5	<0.5	1.0	1.3	<del>-</del>				6.9
1	5/12/99	10.50	652.22	<50	<0.5	<0.5	<0.5	<0.5				<del></del>	<0.5
	8/4/99	10.84	651.88	<50	<0.5	<0.5	1.7	2.2	<del> </del>				<0.5
	11/11/99	10.90	651.82	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	2/15/00	10.78	651.94	<50	<0.5	<0.5	0.5	<0.5			_		2.5
	4/26/00	10.72	652.00	<50	<0.5	<0.5	8.0	0.6					2.7
	8/14/00	11.18	651.54	330	2.1	2.9	16	19	<0.5	20	<0.5	<0.5	8.5
	11/13/00	11.45	651.27	860	4.4	<0.5	37	35	<0.5	<5.0	<0.5	<0.5	5.2
1	1/16/01	11.26	651.46	<50	<0.5	<0.5	8.0	0.7	<0.5	<5.0	<0.5	<0.5	0.5
	4/24/01 7/26/01	10.67	652.05 651.61	450 370	1.0	<0.5 <0.5	18 18	15 17	<0.5	55	<0.5 <0.5	<0.5 <0.5	7.0
	11/13/01	11.11	651.43	360	0.8	<0.5	16	14	<0.5 <0.5	<5.0 <5.0	<0.5	<0.5	10
	2/11/02	11.11	651.61	72	<0.5	<0.5	6.0	3.9	<0.5	7.5	<0.5	<0.5	20
	5/10/02	11.15	651.57	<50	<0.5	<0.5	2.1	1.0	<0.5	12	<0.5	<0.5	13
	8/5/02	11.38	651.34	<50	<0.5	1.0	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	3.8
	12/2/02	11.21	651.51	<50	<0.5	0.8	<0.5	<0.5	<0.5	10.0	<0.5	<0.5	35
	2/18/03	10.94	651.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	6.6
	4/29/03	10.70	652.02	<50	<0.5	<0.5	0.5	<0.5	<0.5	<5.0	<0.5	<0.5	12
	8/5/03	11.14	651.58	<50	<0.5	<0.5	0.5	<0.5	<0.5	<5.0	<0.5	<0.5	7.1
	12/17/03 2/13/04	11.17	651.55	<50	<0.5	<0.5	0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	5/20/04	10.96 10.98	651.76 651.74	<50 <50	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<1.0 <1.0	<10 <10	<1.0 <1.0	<1.0 <1.0	<1.0 1.0
	8/17/04	11.27	651.74	<50 <50	<1.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<1.0	<10	<1.0	<1.0	<1.0
	11/1/04	10.64	652.08	79	<1.0	<5.0	7.3	<5.0	<1.0	<10	<1.0	<1.0	13
	1/7/05	10.32	652.40	51	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	11
	4/15/05	10.45	652.27	70	<1.0	<5.0	6.1	<5.0	<1.0	<10	<1.0	<1.0	11
	7/25/05	10.79	651.93	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	2.7
	10/28/05	10.88	651.84	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	1/20/06	10.91	651.81	59	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
П	4/14/06	10.66	652.06	<50	< 0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	0.83

7-Eleven Store No. 16439

All concentrations in micrograms per liter (ug/L).

Well No:/TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	тРНд	В	<b>T</b>	<b>.</b>	X	TAME	тва	DIPE	ETBE	MTBE
MW-12	7/21/06	11.06	651.66	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
Cont'd	10/23/06	11.23	651.49	96	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
662.72	2/12/07	11.12	651.60	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	6/4/07	11.19	651.53	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	0.71
	9/14/07	11.35	651.37	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	12/10/07	11.19	651.53	<50	<0.50	0.85	<0.50	1.6	<0.50	<5.0	<0.50	<0.50	<0.50
	3/31/08	10.93	651.79	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	1.1
	5/30/08	11.81	650.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
SB1	7/3/08	5.65	NM .	<b>≺</b> 50	<0.50	<0,50	<0.50	<0.50	∹<0.50	12	<0.50	<0.50	3.1
SB3	7/3/08	5,38	NM =	<b>∹</b> <50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	≤0.50°	<b>3.1.0</b>

Shaded area represents data obtained during this phase of work.

TOC = Top of Casing

No. = Number

ft/MSL = Feet above/mean sea level

DTW = Depth to water

TPHg = Total petroleum hydrocarbons characterized as gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Total Xylenes

TAME = T-amyl methyl ether

TBA = T-butyl alcohol

DIPE = Di isopropyl ether

ETBE = Ethyl-t-butyl ether

MTBE = Methyl-t-butyl ether

NP = No Purge sample obtained

NM = Not Measured

-- = Not analyzed

<0.5 = Results below laboratory reporting

limits.

TABLE 2

# SOIL SAMPLE ANALYTICAL RESULTS

7-Eleven Store No. 16439

All concentrations in milligrams per kilogram (mg/kg).

Sample	Depth in Feet	Sample Date	TPHG	Benzene	Ethyl- Toluene benzene	Ethyl- benzene	Total Xylenes	TAME	ТВА	DIPE	ETBE	MTBE
SB1-1.5'	1.5	06/25/08	<1.0	<0.0050	<0.0050	<0.0050 <0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SB2-2'	2	06/25/08	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SB3-2.5'	2.5	06/25/08	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SB4-2.5'	2.5	06/25/08	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SB4-4'	4	06/25/08	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Notes:

TPHg = Total petroleum hydrocarbons characterized as gasoline
TAME = T-amyl methyl ether
TBA = T-butyl alcohol
DIPE = Di-isopropyl ether
ETBE = Ethyl-t-butyl ether
MTBE = Methyl-t-butyl ether
<### Below the reporting limit shown
-- = Not Analyzed

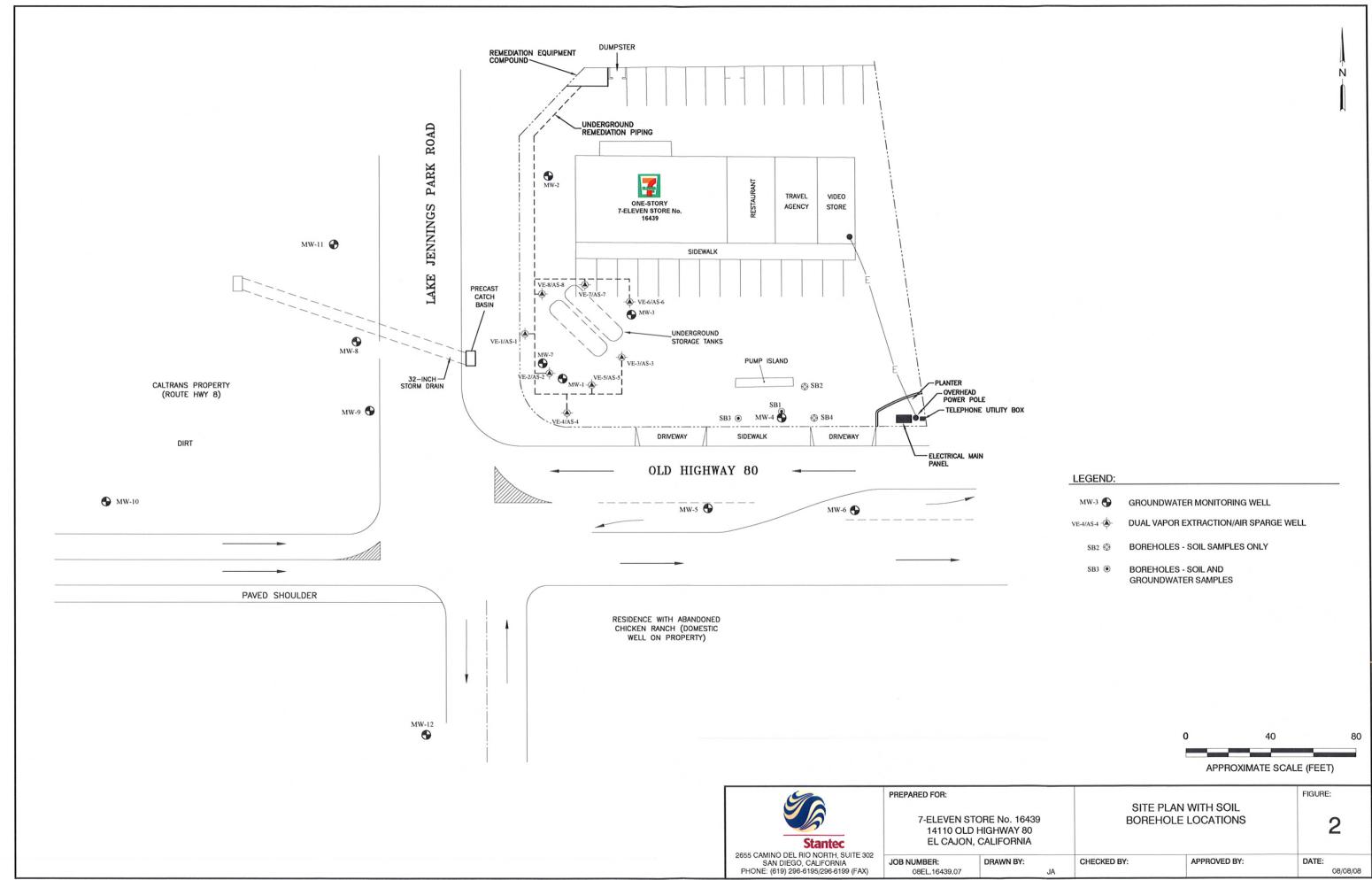
# **Figures**

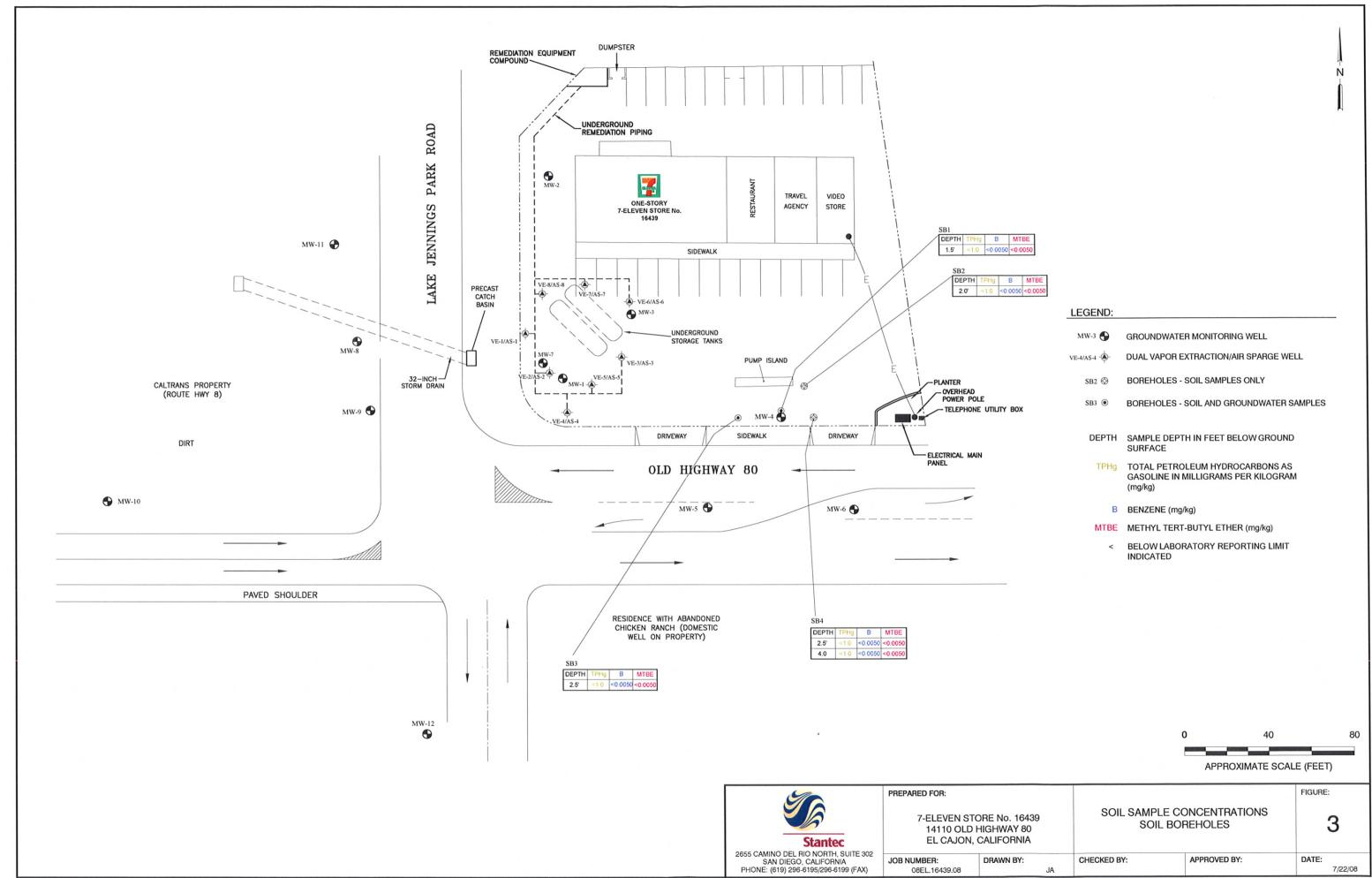


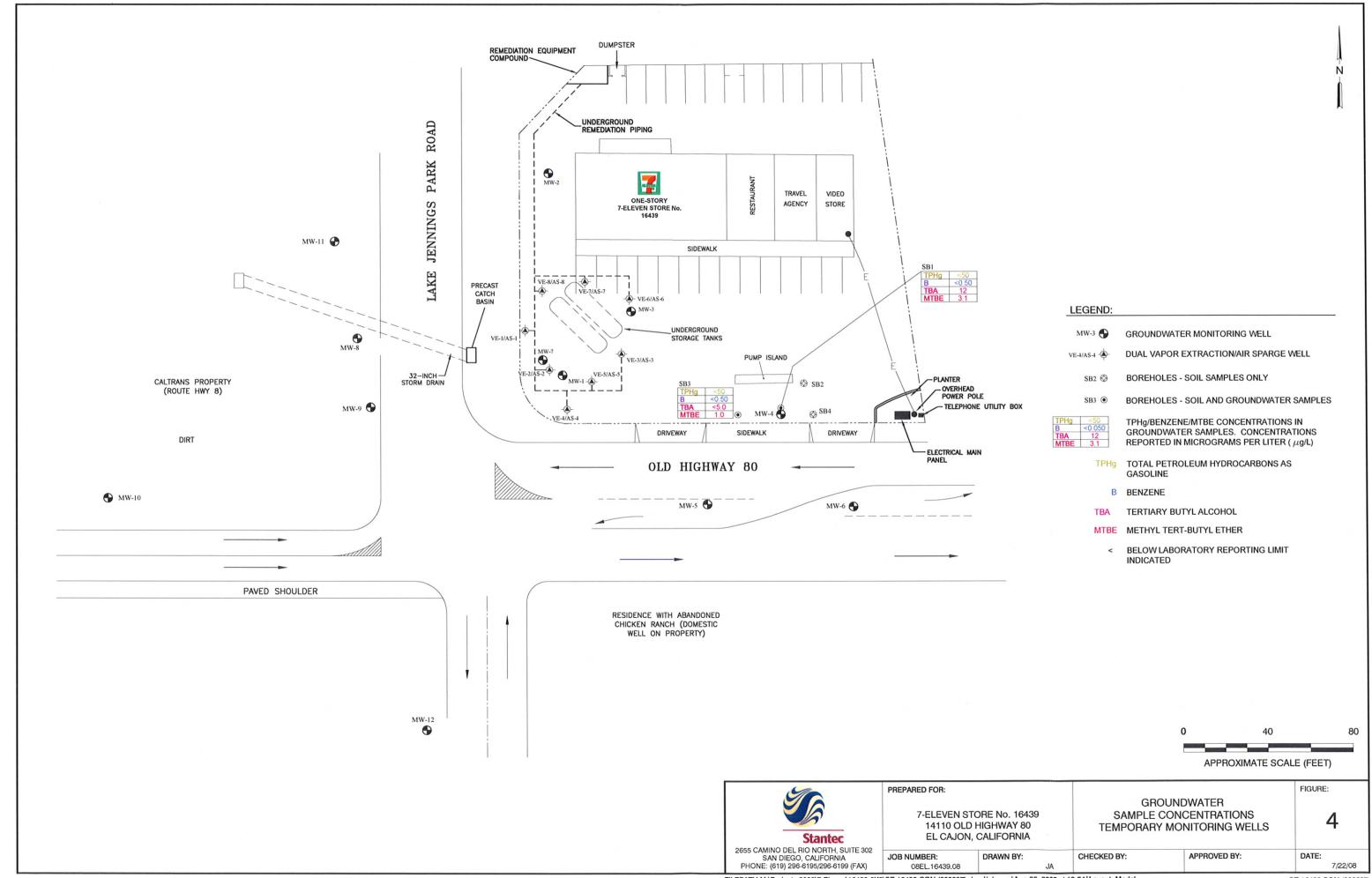
REFERENCE: THOMAS GUIDE CD-ROM, PAGE & GRID 1232 F5.



	PREPARED FOR:				FIGURE:	
Stantec	14110 Old	DRE NO. 16439 Highway 80 California	SITE LOC	ATION MAP	_	1
2655 CAMINO DEL RIO NORTH, SUITE 302 SAN DIEGO, CALIFORNIA PHONE: (619) 296-6195/296-6199 (FAX)	JOB NUMBER: 08EL.16439.08	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:	8/7/06







# Attachment A Drilling Permit



PERMIT #LMON105539 A.P.N. # 7-11 STORE #16739 EST #H20203-004

# COUNTY OF SAN DIEGO DEPARTMENT OF ENVIRONMENTAL HEALTH LAND AND WATER QUALITY DIVISION MONITORING WELL PROGRAM SOIL BORING CONSTRUCTION PERMIT

SITE NAME: 7-11 STORE #16\(\chi\)39

SITE ADDRESS: 14110 OLD HIGHWAY 80, EL CAJON, CA 92019

PERMIT FOR: 5 SOIL BORINGS

PERMIT APPROVAL DATE: MARCH 6, 2008

PERMIT EXPIRES ON: JULY 4, 2008

RESPONSIBLE PARTY: 7-ELEVEN, INC.

### **PERMIT CONDITIONS:**

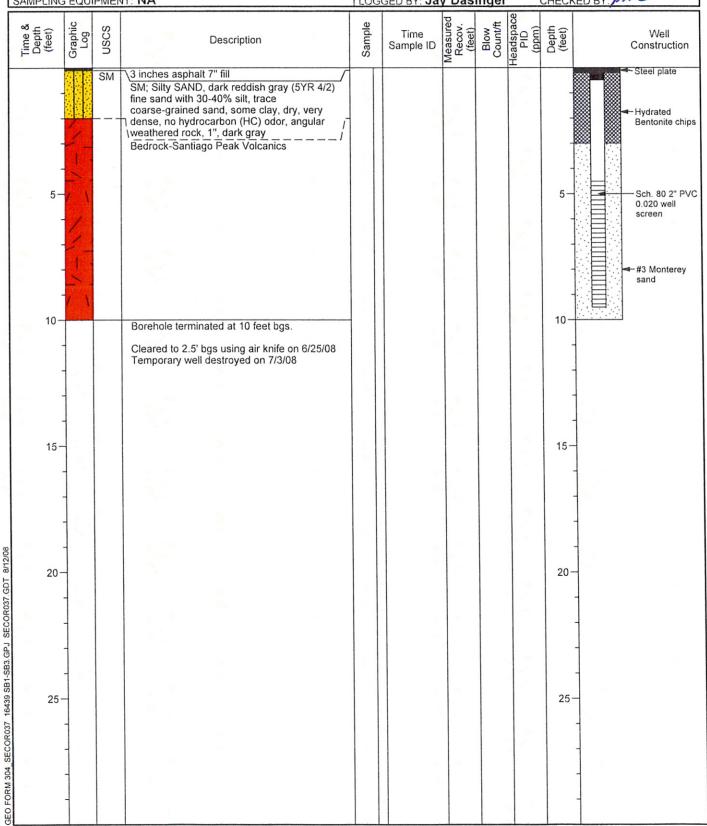
- 1. All borings must be sealed from the bottom of the boring to the ground surface with an approved sealing material as specified in California Well Standards Bulletin 74-90, Part III, Section 19.D. **Drill cuttings are not an acceptable fill material**.
- 2. All borings must be properly destroyed within 24 hours of drilling.
- 3. Placement of any sealing material at a depth greater than 30 feet must be done using the tremie method.
- 4. All water and soil resulting from the activities covered by this permit must be managed, stored and disposed of as specified in the SAM Manual in Section 5, II, E- 4. (http://www.sdcounty.ca.gov/deh/lwg/sam/manual guidelines.html). In addition, drill cuttings must be properly handled and disposed in compliance with the Stormwater Best Management Practices of the local jurisdiction.
- 5. Within 60 days of completing work, submit a well construction report, including all well and/or boring logs and laboratory data to the Well Permit Desk. This report must include all items required by the SAM Manual, Section 5, Pages 6 & 7.
- 6. This office must be given 48-hour notice of any drilling activity on this site and advanced notification of drilling cancellation. Please contact the Well Permit Desk at 619) 338-2339.

NOTE: This permit does not constitute approval of a work plan as defined in Section 2722 of Article 11 of C.C.R., Title 23. Work plans are required for all unauthorized release investigations in San Diego County.

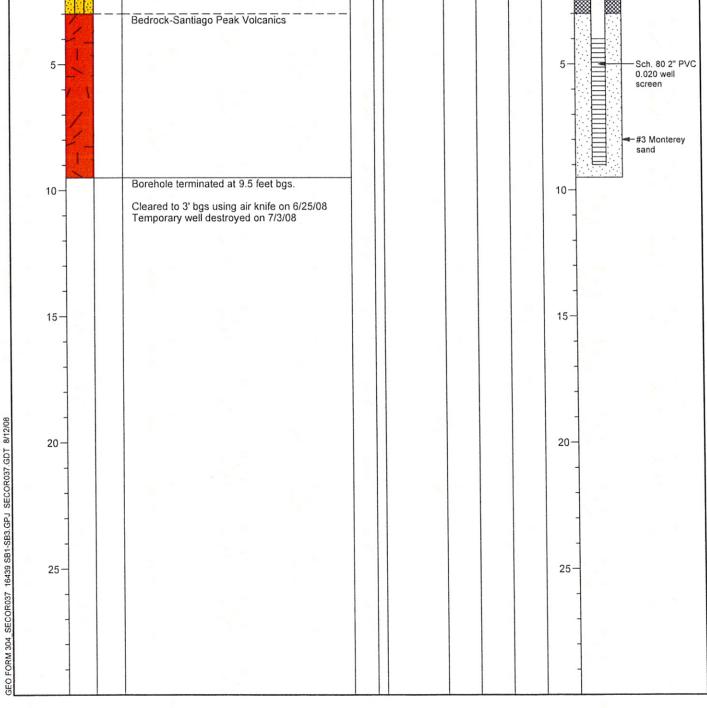
in a land of the second	. *
APPROVED BY: 1000 00000 M. Cupstal	
andler hudge look had it MARISUE CRYSTALING Well to	and these. This private our
NOTIFIED: by email 3/6/08 ms	Marca G & I
<i>1</i>	
DEH: SAM-9075 (1/06)	The substitution of the su

# Attachment B Borehole/Well Logs and Legend

PROJECT: 7-Eleven Store No. 16439 WELL / PROBEHOLE / BOREHOLE NO: LOCATION: 11410 Old Highway 80 El Cajon, CA SB1 PAGE 1 OF 1 PROJECT NUMBER: 08EL.16439.08 DATE: STARTED: 6/26/2008 COMPLETED: 6/26/2008 NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): DRILLING COMPANY: TestAmerica INITIAL DTW (ft): NE BOREHOLE DEPTH (ft): 10 DRILLING EQUIPMENT: CME 75 STATIC DTW (ft): NE WELL DEPTH (ft): 9.5 DRILLING METHOD: Hollow-Stem Auger WELL CASING DIAMETER (in): 2 BOREHOLE DIAMETER (in): 8 CHECKED BY: SAMPLING EQUIPMENT: NA LOGGED BY: Jay Dasinger



PROJECT: 7-Eleven Store No. 16439 WELL / PROBEHOLE / BOREHOLE NO: LOCATION: 11410 Old Highway 80 El Cajon, CA SB3 PAGE 1 OF 1 PROJECT NUMBER: 08EL.16439.08 DATE: STARTED: 6/26/2008 COMPLETED: 6/26/2008 NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): DRILLING COMPANY: TestAmerica INITIAL DTW (ft): NE BOREHOLE DEPTH (ft): 10 DRILLING EQUIPMENT: CME 75 STATIC DTW (ft): NE WELL DEPTH (ft): 9 DRILLING METHOD: Hollow-Stem Auger BOREHOLE DIAMETER (in): 8 CHECKED BY: WELL CASING DIAMETER (in): 2 SAMPLING EQUIPMENT: NA LOGGED BY: Jay Dasinger Headspace PID (ppm) Depth (feet) Measured Recov. (feet) Blow Count/ft Sample Graphic Log Time & Depth (feet) **USCS** Well Time Description Sample ID Construction Steel plate 3 inches asphalt over 7" fill SM; Silty SAND, dark reddish brown (5YR 3/2), fine sand with 30% silt, trace coarse-grained sand, some clay, dry, very Hydrated dense, no hydrocarbon odor Bentonite chips Bedrock-Santiago Peak Volcanics Sch. 80 2" PVC 0.020 well -#3 Monterey sand Borehole terminated at 9.5 feet bgs. 10-10 Cleared to 3' bgs using air knife on 6/25/08 Temporary well destroyed on 7/3/08 15 15



# **DEFINITION OF TERMS**

	PRIMARY DIVISIO	NS	GRAPHIC SYMBOL	GROUP SYMBOL	SECONDARY DIVISIONS
- 2		Clean Gravels (Less Than 5%		GW	Well graded gravels, gravel-sand mixtures, little or no fines.
.0	GRAVELS  More Than Half Of Coarse	Fines)		GP	Poorly graded gravels or gravel-sand mixtures, little or no fines.
SOILS al Is Large Size	Fraction Is Larger Than No. 4 Sieve	Gravel With		GM	Silty gravels, gravel-sand-clay mixtures, non-plastic fines.
COARSE GRAINED SOILS  Wore Than Half Of Coarse Fraction Is Larger Than No. 4 Sieve  SANDS  More Than Half Of Coarse Fraction Is Smaller Than No. 4 Sieve Fraction Is Smaller Than No. 4 Sieve		Fines		GC	Clayey gravels, gravel-sand-clay mixtures, plastic fines.
	SANDS	Clean Sands (Less Than 5%		SW	Well graded sands or gravelly sands, little or no fines.
	Fines)		SP	Poorly graded sands or gravelly sands little or no fines.	
	Smaller Than	Sands With		SM	Silty sands, sand-silt mixtures, plastic fines.
		Fines		SC	Clayey sands, sand-clay mixtures, plastic fines.
	SILTS AND	TS AND CLAYS		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
OILS Is Smaller size		Liquid Limit Is Less Than 50%			Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
RAINED SOILS alf Of Material Is Smalo. 200 Sieve Size				OL	Organic silts and organic silty clays of low plasticity.
GRAIN Half Of I	SILTS AND				Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
FINE GRAINED SOILS More Than Half Of Material Is Smaller Than No. 200 Sieve Size	Liquid Li Greater Th	mit Is		СН	Inorganic clays of high plasticity, fat clays.
				ОН	Organic clays of medium to high plasticity, organic silts.
	HIGHLY ORGANIC S	SOILS	\$ \$1. \$5. \$5. \$1. \$2. \$2. \$2. \$2. \$2. \$2. \$2.	PT	Peat and other highly organic soils.



GRAPHIC SYMBOL	Description
00	GP-GC - Poorly graded Gravel with Clay
	GW-GM - Well graded Gravel with Silt
5-5-5	OLSH - High plasticity organic Clay or Silt with shells
	SP-SM - Poorly graded Sand with Silt
	SW-SC - Well graded Sand with Clay
	SW-SM - Well graded Sand with Silt
	Basalt
	Bedrock
	Boulders and Cobbles
A A A A A A A A A A A A A A A A A A A	Breccia
	Chalk
	Claystone
	Coal
	Concrete
	Coral
	Decomposed Granite

GRAPHIC SYMBOL	Description		
	Fill		j.
	Gypsum	. 12	1
	Igneous		-
	Limestone		
	Metamorphic	1*:	1
	Sandstone		7.0
	Shale		*.
* * * * * * * * * * * * * * * * * * *	Siltstone		1.
	Till		-
10 40 70 40 44 45 45 40 44 45 45 44	Top Soil		



#### **GRAIN SIZES**

U.S. Standard Series Sieve					Clea	r Square Sieve Ope	enings
	200	40 1	10	4. 3	3/4"	3" 1	2"
SILT and CLAYS		SAND		GR	AVEL	COBBLES	BOULDERS
	Fine	Medium	Coarse	Fine	Coarse		

#### RELATIVE DENSITY

Sand and Gravels	Blows/Foot†
Very Loose	0 - 4
Loose	5-10
Medium Dense	11-30
Dense	31-50
Very Dense	Over 50

#### CONSISTENCY

Silt and Clays		Strength <sup>‡</sup>	Blows/Foot <sup>†</sup>
Very Soft	: -	0 - 1/4	0 - 2
Soft		1/4 - 1/2	2 - 4
Firm		1/2 - 1	4 - 8
Stiff		1 - 2	8 - 16
Very Stiff		2 - 4	16 - 32
Hard		Over 4	Over 32

- Number of blows of 140 pound hammer falling approximately 30 inches to drive a 2 inch O.D. (1-3/8 inch I.D.) standard pentetration test (SPT) split spoon (ASTM D-2488).
- Unconfined compressive strength in tons/sq.ft. as determined by laboratory testing or approximated by the standard penetration test (ASTM D-2488), pocket penetrometer, torvane, or visual observation.

## Graphic Log Symbols



OR SEA Liquid-Phase Hydrocarbons/ Phase Separated Hydrocarbons

Sample



Ground Water (Initial)

Ground Water (Static)

## Well Design Symbol



Centralizer

## Abbreviations Used

MSL Mean Sea Level

A/C Asphalt/Concrete

Bent Bentonite

bgs Below Ground Surface

dia Diameter

Feet

LPH Liquid-Phase Hydrocarbons

PSH Phase Separated Hydrocarbons

GW Groundwater

HC Hydrocarbon

Inches

med Medium

Moderate

Not Applicable

NE Not Encountered

NM Not Measured

NR Not Recorded

ppm Parts Per Million

# Well Design Fill Patterns



Asphalt

Concrete

Concrete Slurry

Bentonite

Bentonite Grout

Sand

Screened Interval



BOREHOLE/WELL LOG LEGEND Page 3 of 3

# Attachment C Well Development, Purging, and Sampling Logs



WELL DEVELOPMENT LC	Well Number:
AALLE DE AECOL MENT ET	SBI
Client:	Job No: OSEL.
7 - Eleven Inc.	16439.08
Location: 7-Eleven # 16439 11410 Old Hwy 80 El CATUN, CA	Sample Time:
11410 Old Huy 80 El CATON, CA	Sample #:
SECOR Rep:	Sample #.
JAY DASINGER	

# DEVELOPMENT/PURGING LOG

DATE 6/30/08 Gauge Well Purge	TIME	DTFP (0.01) ft.	DTW (0.01) ft.	(0.01		рH	Temp ⊡C	EC µ mohs	Water Descri (odor, turbidit	ption y, color)
Gauge Well	0880		6-11	9.2	5					
Pura	0926				O			<u> </u>		
7	0931	į	8.40		2.5	7.80	26.8	4770	Noodor	<u>Modera</u>
	0947	_	8.38	1	2.5	7.77	26.8	4750	11 11	-/(
	1023		8-80	9.2	5 2.5	7.19	26. 8	4770	11 (1	/i
					-					
		,		<u> </u>				<u> </u>	-	
				<u> </u>			<u> </u>			
							ļ			
		<u></u>		<u> </u>	<u> </u>			<u> </u>	<u> </u>	
				<u> </u>		· ·	<u> </u>			
				<u> </u>		<u></u>				
	,	Well Volum	e Calculations	3				Recovery (	Calculations	
	<u></u>		(WCH)	DTE	3-DTW	3.14	• Bailer/Pu	mp Type		PVC
Water Column     Casing Diameter			(WCH)	2".4		2"	• Pump Ra			
Casing Diameter     Casing Capacity (galacter)	· <del>····································</del>		(CK)	2"(0	I.16), 4"( <sub>-</sub> 65) .47)	.16	• DTW Be Purging	fore		6.11
Casing WC Volume			(CV)	7	(WCH)	0.50	• DTW Aft	er Purging		
					<u> </u>	8"	Recover	y Time After 80	% WC	
Borehole Diameter				<del></del>	3",10" 1.47),8"(2.63),	2.63		y Time To Stati	c Water	1
Borehole Capacity			(BK)	10"	(4.04)		Level		,	
Borehole WC Volume	<u> </u>		(BV)	(B <u>r</u>	()(WCH)	8.24		ge Rate(ft/min)	-	
Porosity		-	(N)	Sai	nd(.25)			<del>"</del>		<u> </u>
Annulus WC Volume			(AV)	(B)	V-CV)(N)	1.94	<u> </u>	ow he	charge	_
· Total Well Volume			(TV)	CV	/+AV	2.44	4			
• Min. Development V	ol.		(DV)		(TV) ·	7.32	-	-		
Free Product Thickn	ess		(Well)	DT	W-DTFP		<u>.l</u>			

#### Well Number: WELL DEVELOPMENT LC 5B3 Client: 7-Eleven Inc. 1140 Old Hay 80 Sample Time: 16439 El CATON, CA Sample #: TAY DASINGER Location: 7/11 Sture No. 16439 SECOR Rep: **Stantec** DEVELOPMENT/PURGING LOG DTB Vol. DTW DTFP Water Description EC Temp (0.01)(0.01)Purged TIME (0.01)(odor, turbidity, color) រូរ mohs ПС рΗ (Gal.) ft. ft. 9.05 6.25 0 8.07 26,8 4560 No dor, Moderale, tan 2.18 8.91 0904 8.07 26.7 4590 8.53 0935 26.7 4580 11 8.05 8.48 9.05 2.18 1015 Recovery Calculations Well Volume Calculations PVC 2.8 Bailer/Pump Type DTB-DTW (WCH) Water Column 2" · Pump Rate (GPM) 2".4" · Casing Diameter 6.25 DTW Before 2"(0.16), 4"(.65) 0,16 Purging (CK) 6"(1.47) · Casing Capacity (gal/ft) 8.48 0,45 DTW After Purging (CV) (CK) (WCH) Casing WC Volume Recovery Time After 80% WC Recharge 6",8",10" · Borehole Diameter Recovery Time To Static Water 2.43 6"(1.47),8"(2.63), Level (BK) 10"(4.04) · Borehole Capacity 7.36e · Recharge Rate(ft/min) (BK)(WCH) Borehole WC Volume (BV) ,25 Comments Sand(.25) (N) Porosity SLOW RECHARLE 1.73 (AV) (BV-CV)(N) · Annulus WC Volume 2.18 (TV) CV+AV - Total Well Volume

6.54

(DV)

(Well)

(3)(TV) ·

DTW-DTFP

· Min. Development Val.

· Free Product Thickness

		WEL	L PURGING	LOG		SB1		
OTA	ITEO	Project Name:	7 <b>-</b> E	leven Store No. 16	6439	Well No.:	301	
SIA	NTEC	Project Number:	(	Date:	7/3/2008			
International	Incorporated	Project Address:	14110	Old Hwy 80, El Ca	jon, CA		,	
	<del></del>	gitude:	Sampled by:	AV D Checke	d by: fluco	enly	License #: 7205	
WELL SF	PECIFICATIONS & N	/IEASUREMEN	ITS	( •	EQL	JIPMENT	r/METHODS	
Borehole Diameter (in.)	(BD): 6 8	10 12			Water Level Meter Type and ID: P. W.M -			
Casing Diameter (in.) (	CD): 2 4 6 8	-	-				ter Type and ID: EにやA	
Total Well Depth (ft.) (	I Well Depth (ft.) (WD): 9, 25 Product Thickness (ft.):					Subme	ersible Pump -3	
Static Water Level (ft.)	) (DTW1):	5.65	Time measured:		Equipment:	_Other:		
Water Column (ft.) (W	<u> </u>	J. 45 C	Filter Pack Por		Sample		able Bailer	
·	BV) Calculation *: BV = 0.  Borehole Diameter (in.):	.041 * [CD <sup>2</sup> +P(BD <sup>2</sup> - Calculated Borehole		* This equation is taken from the SAM Manual and applies to wells	Equipment:		r Pump ugal Pump	
2	8	0.779 *		constructed straddling the water table only. For		Other:		
4	4 10 1.517 * (WC) submerged screens,							
1 Borehole Volume (ga				calculations. Porosity is expressed in decimal	Decon Method:	Steam/High Pressure Wash  3 Stage (Alconox, tap water, Di rinse		
1/2 Borehole Volume (g Purging Method:	yals):			form.		Other:		
Method 3, Low-flo	e 1 BV, test parameters ow - install pump at leas e 1 BV, sample after 2 i irge method.	st 2 hours prior to	start of purging	g. Follow detailed	methodology in S	SAM Man	ual.	
<del></del>		PU	RGING INFO	RMATION				
	Depth to Water		Water		Measured	Paramete	rs	
Time 0 839	(feet below top of casing)	Drawdown (feet)	Volume Purged (gal)	Conductivity (µmhos)	Temperature (°C)	рН	Water Description (odor, turbidity, color)	
0847	8.84	3.19	3	3990	∌⊺ુ≎	7.88	No Odor, moderate,	
0909	9.10	3.45	1.5	34.80	27.9	7.87	·	
1027	6.17		SAMPLE					
	<del></del> .							
Total Water Purged (ga	al): 4-5	4		down Depth (DTW:				
Average pumping rate	(gpm): 0.15			er Column = (DTW:	2-DTW1) = ( <u>1 - (</u> 1	<u>ට) - (්&gt;.</u>	( <u>ر</u> ع) :	
90% receiven of drawde	use from purging = DTM/4		OVERY CALO	CULATIONS	1		<del>-</del> -	
80% recovery of drawdown from purging = DTW1 + (0.2)(Drawdown Water Column)  80% recovery of drawdown from purging = 5.65 + (0.2)(3.45) = 6.34  Well Recovery Type: X Fast Slow							e: XFastSlow	
	***		MPLING INFO		•			
Time of Sample: į	027		Depth to Wat	er at Time of Sa				
% Recovery = 1 -	(DTW1) - (DTW3) (DTW1) - (DTW2)	85	% of Recovery	= 1-	(5.65)-(1	(71.3	= -0.52 %	
Quantity	Container Type	Filtered (Y/N)	Sample F	reservatives			hods to Perform	
3	40mL VOAs	N		CE or None		•	, MTBE, DIPE,	
					TAME, E	ETBE, T	BA (EPA 8260B)	

٠.

		WEL	L PURGING	S/SAMPLING	LOG		CD2	
$\circ$	ITEO	Project Name:	7 <b>-</b> E	leven Store No. 16	6439	Well No.:	SB3	
STAN	NTEC	Project Number: 08EL.16439.08.0603					7/3/2008	
International	Incorporated	Project Address:	14110	Old Hwy 80, El Ca	jon, CA		1	
Well GPS: l	atitude: Lon	gitude:	Sampled by:	D Checke	d by AMe C	rnel	License #: 7205	
WELL SF	PECIFICATIONS & N	MEASUREMEN	NTS		EQU	JIPMEN	T/METHODS	
Borehole Diameter (in.)	(BD): 6 8	10 12			Water Level Met	ter Type a	nd ID: BP-WUN-1	
Casing Diameter (in.) (	CD): 2 4 6 8		pH/Temp/Condu	ıctivity Me	ter Type and ID: Ել- ၉၂			
Total Well Depth (ft.) (WD): 9,05 Product Thickness (ft.):					Submersible Pump			
Static Water Level (ft.) (DTW1): 5,38 Time measured:						∠Bailer Other:		
Water Column (ft.) (W	C=WD-DTW1):	5.67	Filter Pack Por	osity (P): 0.25	Sample	Teflon -≟_Dispos	Bailer able Bailer	
•	BV) Calculation *: $BV = 0$ .			* This equation is taken from the SAM Manual	Equipment:		r Pump ugal Pump	
Casing Diameter (in.):	Borehole Diameter (in.):	Calculated Borehole 0.779 *		and applies to wells constructed straddling		Other:	ugai Fump	
4	<u>°</u> 10	1,517 '		the water table only. For submerged screens,				
1 Borehole Volume (gals): 2 · 8 4 document all calculations. Porosity is					Decon Method:		/High Pressure Wash	
1/2 Borehole Volume (g	, ,, ,,			expressed in decimal form.		3 Stage (a Other:	Alconox, tap water, DI rinse)	
Purging Method:					<u></u>			
Method 3, Low-flo	e 1 BV, test parameters bw - install pump at leas e 1 BV, sample after 2 l groe method.	st 2 hours prior to	o start of purging	g. Follow detailed i	methodology in S	SAM Man	ual.	
modified of non-pe	ingo moniour	PU	RGING INFO	RMATION				
	Depth to Water		Water		Measured	Measured Parameters		
Time 0 82\	(feet below top of casing)	Drawdown (feet)	Volume Purged (gal)	Conductivity (µmhos)	Temperature (°C)	рН	Water Description (odor, turbidity, color)	
0831	8.25		3	3190	27.3	8.14	No Octor, - raiz,	
_0857	8.54	3-16	1.5	3200	27.3	8.14	Y-clear	
1011	6.01		SAMPLE	<del></del>				
<u> </u>								
Total Water Purged (ga	1): 4-5	<u> </u>	Maximum Draw	Ldown Depth (DTW2	L 2: feet below TOC	<u> </u>  : % ぐ	<u>'</u>	
Average pumping rate	–			er Column = (DTW:				
	······································	REC	OVERY CAL					
80% recovery of drawdo	wn from purging = DTW1	+ (0.2)(Drawdowr	n Water Column)					
80% recovery of dra	80% recovery of drawdown from purging = $5.38 + (0.2)(3.14) = 4.01$ Well Recovery Type: $4$ FastSlow							
		SAI	MPLING INFO					
Time of Sample: 1	011		Depth to Wat	er at Time of Sa				
% Recovery = 1 -	(DTW1) - (DTW3) (DTW1) - (DTW2)	80	% of Recovery	= 1-	(5.38)-(6 (5.38)-(8	.01) .54)	= ~0.63 %	
Quantity	Container Type	Filtered (Y/N)	Sample F	Preservatives	<del>,                                     </del>		hods to Perform	
3	40mL VOAs	N N		CE or None		<u> </u>	, MTBE, DIPE,	
					1	• •	BA (EPA 8260B)	

# **Attachment D**

# Soil and Groundwater Sample Laboratory Reports and Chain-of-Custody Documentation



Date: 07/07/2008

Arturo Hoyos Stantec Consulting Corp - San Diego 2655 Camino Del Rio North, Suite 302 San Diego, CA 92108

Subject: 5 Soil Samples

Project Name: 7-Eleven #16439 Project Number: 08EL.16439.08

Dear Mr. Hoyos,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely.



Date: 07/07/2008

Report Number: 63559

Sample: SB1-1.5'

Matrix: Soil

Lab Number: 63559-01

Sample Date :06/25/2008

Sample Date :06/25/2008					
Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/04/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/04/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/04/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/04/2008
Methyl-t-butyl ether (MTBE) Diisopropyl ether (DIPE)	< 0.0050 < 0.0050	0.0050 0.0050	mg/Kg mg/Kg	EPA 8260B EPA 8260B	07/04/2008 07/04/2008
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/04/2008
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/04/2008
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/04/2008
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/04/2008
1,2-Dichloroethane-d4 (Surr) Toluene - d8 (Surr)	105 100		% Recovery % Recovery	EPA 8260B EPA 8260B	07/04/2008 07/04/2008

Approved By:



Report Number: 63559

Date: 07/07/2008

Sample: SB2-2'

Matrix : Soil

Lab Number: 63559-02

Sample Date :06/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/03/2008
1,2-Dichloroethane-d4 (Surr) Toluene - d8 (Surr)	99.9 99.0		% Recovery % Recovery	EPA 8260B EPA 8260B	07/03/2008 07/03/2008

Approved By:

Joel Kiff



Report Number: 63559

Date: 07/07/2008

Sample: SB3-2.5'

Matrix: Soil

Lab Number : 63559-03

Sample Date :06/25/2008

Sample Date .06/25/2006		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/03/2008
1,2-Dichloroethane-d4 (Surr)	99.0		% Recovery	EPA 8260B	07/03/2008
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	07/03/2008

Approved By:

loel Kiff



Report Number: 63559

Date: 07/07/2008

Sample: SB4-2.5'

Matrix : Soil

Lab Number : 63559-04

Sample Date :06/25/2008

Sample Date .00/25/2006		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/03/2008
1,2-Dichloroethane-d4 (Surr)	99.3		% Recovery	EPA 8260B	07/03/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	07/03/2008

Approved By:

Joel Kiff



Report Number: 63559

Date: 07/07/2008

Sample: SB4-4'

Matrix: Soil

Lab Number: 63559-05

Sample Date :06/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/03/2008
1,2-Dichloroethane-d4 (Surr) Toluene - d8 (Surr)	97.2 99.3		% Recovery % Recovery	EPA 8260B EPA 8260B	07/03/2008 07/03/2008

Approved By:

Joel Kiff

Date: 07/07/2008

Date Analyzed\_

Analysis Method

Measured Reporting
Value Limit Units

QC Report: Method Blank Data

Project Name: 7-Eleven #16439

Project Number: 08EL.16439.08

	Measured	Method Reporting	ත	Analysis	Date
Parameter	Value	Limit	Units	Method	Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Ethylbenzene	< 0.0050	0.000.0	mg/Kg	EPA 8260B	07/03/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Difsopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0000	mg/Kg	<b>EPA 8260B</b>	07/03/2008
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	<b>EPA 8260B</b>	07/03/2008
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/03/2008
TPH as Gasoline	× 1.0	1.0	mg/Kg	EPA 8260B	07/03/2008
1,2-Dichloroethane-d4 (Surr)	106		%	EPA 8260B	07/03/2008
Toluene - d8 (Surr)	266		%	EPA 8260B	07/03/2008
	•				

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

Date: 07/07/2008

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name: 7-Eleven #16439

Project Number: 08EL.16439.08

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Analysis Units Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov.	Relative Percent Diff. Limit
Benzene	63512-10 <0.0050	<0.0050	0.0397	0.0397	0.0318	0.0362	mg/Kg EPA 8260E		80.1		12.8	70-130	25
Methyl-t-butyl ether 63512-10	er 63512-10	<0.0050	0.0397	0.0397	0.0349	0.0372	mg/Kg EPA 8260B		88.1		6.21	70-130	25
Tert-Butanol	63512-10 <0.0050	<0.0050	0.198	0.198	0.170	0.174	mg/Kg EPA 8260B	80/8/	96.0	87.7	1.97	70-130	25
Toluene	63512-10 <0.0050	<0.0050	0.0391	0.0391	0.0320	0.0369			81.6		14.3	70-130	25

Approved By: Joe Kiff

KIFF ANALYTICAL, LLC

Date: 07/07/2008

QC Report: Laboratory Control Sample (LCS)

Project Name: 7-Eleven #16439

Project Number: 08EL,16439.08

LCS LCS Percent Percent Recov.
Date Analyzed
Analysis Method
Units
Spike Level
arameter

Approved By:

KIFF ANALYTICAL, LLC

2795 2nd Street Suite 300 Davis, CA 95616 Lab: 530.297.4800 Fax: 530.297.4802

SRG#/Lab No.

ġ.

Page

Project Contact Nationals and Arralysis Request   Contact Lot Co			L'AX.	27.75	530.237.4602	,																			
Fig. 58   Fig.	Project Contact (Hardcopy or F Arturo Hoy	ነጋF To): ለ <b>os</b>		Calif	omia E	EDF R	eport?		Ò	SS	Ž				hair	)-o-(	Sustr	ğ R	ecord	and	Anal	sis Re	dnest		
Sumpling	Company / Address: Stant	28		Sam	pling C	ompa	Į,	Code	â				L				Añ	alvsis F	Redues	#			T		
Part	2655 Camino del Rio North, Ste. 302, Sa	n Diego, CA 921	80					SIS	O					-		$\vdash$		-	-	F				Ι,	
TEleven #16439   Sumpling   Confidence To Ceremin Address)   Sumpling   Confidence To Ceremin Address   Sumpling   Confidence To Ceremina   Confidence Ceremina   C	9-296-6195	Fax #: 619-296-	6199	S S S	ā D E			19	0730	1281			<b>(a</b>												
TEleven #16439   Sampling   Container   Preservative   Marks		P.O. #		EDF	Delive	rable	To (E)	mail A	ddress	;): ter: c:	Ę		0928)										3 🗆		e Only
Designation   Date   Time do mit you   Date   Time   Date   Date   Time   Received by Abortion   Date   Date   Time   Received by Abortion   Date   Time   Date   Date   Time   Received by Abortion   Date   Time   Date   Date   Date   Time   Date		ven #1643	6	Sami	pler Si	gnatur	(i a)	130		-3	1 >	1. 4	X3Ta\e	··							<del></del>		<u> </u>		sU ds.
Charge   C	Project Address:	Sam	pling	Ц	Conte	ainer	Γ	P	servati	Š		atrix	<b>14</b> 9										<b>→</b> 4.		) JQ:
Designation   Date   Time	14110 Old Highway 80 El Cajon, CA		:	A			स		HOS	1100			H9T\zela					·							4
Size 2006   130	Sample Designation	Date	Time		Poly		18L SOA						6 Oxygen	······									D -		
025/2008   1310	SB1-1.5'	6/25/2008					×				<u>  ×</u>		×			<del> </del>					-		-		-
Schebook 1020	SB2-2'	6/25/2008			_		<b>′×</b>				×		×			-							-	_	6
Scriptions   1206	SB3-2.5'	6/25/2008					×				×		×			-		_					-		(C)
DAS IN SER.   Time   Received by:   Carlotte   Carlot	SB4-2.5′	6/25/2008					×				×		×	_		$\vdash$		-			-		_		7
DAS IN LEGA   17/40%   17/40	SB4-4'	6/25/2008					×				×		×			$\vdash$		<del>                                     </del>			<del> </del>		-		1
DAS IN DEER TIME Received by:  A Remarks:  Those has been by:  The Received by:  The Remarks:  The Remar																-		-					-	_	
DAS IN LEER																							-	¥	
DAS IN GER    Date   Time   Received by:   CANA   Remarks:   Remarks:   CANA   Cana   Received by:   CANA						-																	-	¥	
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Date: 07/11/2008

Arturo Hoyos Stantec Consulting Corp - San Diego 2655 Camino Del Rio North, Suite 302 San Diego, CA 92108

Subject: 2 Water Samples

Project Name: 7-Eleven #16439 Project Number: 08EL.16439.08.0410

Dear Mr. Hoyos,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Project Name: 7-Eleven #16439

Project Number: 08EL.16439.08.0410

Report Number: 63637

Date: 07/11/2008

Sample: SB1

Matrix: Water

Lab Number : 63637-01

Sample Date: 07/03/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/11/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/11/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/11/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/11/2008
Methyl-t-butyl ether (MTBE)	3.1	0.50	ug/L	EPA 8260B	07/11/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/11/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/11/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/11/2008
Tert-Butanol	12	5.0	ug/L	EPA 8260B	07/11/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/11/2008
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	07/11/2008
Toluene - d8 (Surr)	94.1		% Recovery	EPA 8260B	07/11/2008

Approved By:

oel Kiff



Project Name: 7-Eleven #16439

Project Number: 08EL.16439.08.0410

Report Number: 63637

Date: 07/11/2008

Sample: SB3

Matrix: Water

Lab Number : 63637-02

Sample Date :07/03/2008

Sample Date :07/03/2006		Method			<b>-</b> .
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/11/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/11/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/11/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/11/2008
Methyl-t-butyl ether (MTBE)	1.0	0.50	ug/L	EPA 8260B	07/11/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/11/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/11/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/11/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/11/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/11/2008
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	07/11/2008
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	07/11/2008

Approved By:

Joel Kiff

Date: 07/11/2008

Analysis Method

Measured Reporting
Value Limit Units

Project Name: 7-Eleven #16439 QC Report: Method Blank Data

Project Number: 08EL.16439.08.0410

Benzene	< 0.50			Method	Analyzed	Parameter
			ua/L	EPA 8260B	07/11/2008	
			ug/L	EPA 8260B	07/11/2008	
		0.50	ug/L	EPA 8260B	07/11/2008	
		0.50	ng/L	EPA 8260B	07/11/2008	
		0.50	ng/L	EPA 8260B	07/11/2008	
Ethyl-t-butyl ether (ETBE) < 0.50		0.50	ng/L	EPA 8260B	07/11/2008	
Methyl-t-butyl ether (MTBE) < 0.50		0.50	ng/L	EPA 8260B	07/11/2008	
Tert-Butanol < 5.0			ng/L	EPA 8260B	07/11/2008	
Tert-amyl methyl ether (TAME) < 0.50		0.50	ng/L	EPA 8260B	07/11/2008	
TPM as Gasoline < 50	05	20	ug/L	EPA 8260B	07/11/2008	
1,2-Dichloroethane-d4 (Surr)	4		%	EPA 8260B	07/11/2008	
Toluene - d8 (Surr) 93.2	.2		%	EPA 8260B	07/11/2008	
Benzene < 0.50		0.50	ug/l	EPA 8260B	07/11/2008	
Ethylbenzene < 0.50			ug/L	EPA 8260B	07/11/2008	
Toluene < 0.50		0.50	ug/L	EPA 8260B	07/11/2008	
Total Xylenes < 0.50		0.50	ug/L	EPA 8260B	07/11/2008	
Diisopropyl ether (DIPE) < 0.50		0.50	ug/L	EPA 8260B	07/11/2008	
Ethyl-t-butyl ether (ETBE) < 0.50		0.50	ng/L	EPA 8260B	07/11/2008	
íú			ug/L	EPA 8260B	07/11/2008	
			ng/L	EPA 8260B	07/11/2008	
Tert-amyl methyl ether (TAME) < 0.50		_	ug/L	EPA 8260B	07/11/2008	
TPH as Gasoline < 50	02	20	ug/L	EPA 8260B	07/11/2008	
1,2-Dichloroethane-d4 (Surr) 103	es.		%	EPA 8260B	07/11/2008	
Toluene - d8 (Surr) 104	4		%	EPA 8260B	07/11/2008	

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

Report Number : 530 Date : 07/11/2008

QC Report: Matrix Spike/ Matrix Spike Duplicate

Project Name: 7-Eleven #16439

Project Number: 08EL.16439.08.0410

Relative Percent Diff. Limit									
P. P	25	25	25	25	1	22	25	25	25
Spiked Sample Percent Recov.	70-130	70-130	70-130	70-130	1	70-130	70-130	70-130	70-130
Relative Percent Diff.	2.52	0.349	0.535	2.67	1	2.20	3.37	2.00	4.10
Duplica Spiked Sample Percent	9.66	84.7	102	93.1	!	98.7	103	101	98.7
Spiked Sample Percent Recov.	102	84.4	101	95.7		101	106	99.1	103
Date P Analyzed P	7/11/08	7/11/08	7/11/08	7/11/08		7/11/08	7/11/08	7/11/08	7/11/08
Analysis Method	<b>EPA 8260B</b>	<b>EPA 8260B</b>	<b>EPA 8260B</b>	EPA 8260B		<b>EPA</b> 8260B	<b>EPA 8260B</b>	<b>EPA</b> 8260B	EPA 8260B
Units	ng/L	ng/L	ng/L	ng/L		7/Bn	ng/L	ug/L	ng/L
Duplicate Spiked Sample Value	40.0	53.8	203	36.8		39.6	41.1	202	39.0
Spiked Sample Value	41.0	53.7	202	37.8		40.5	42.5	198	40.7
Spike Dup. Level	40.1	40.1	200	39.5		40.1	40.1	200	39.5
Spike Level	40.1	40.1	200	39.5		40.1	40.1	200	39.5
Sample Value	<0.50	20	<5.0	<0.50		<0.50	<0.50	<5.0	<0.50
Spiked Sample	63652-03 <0.50	r 63652-03	63652-03	63652-03		63651-01 <0.50	r 63651-01	63651-01	63651-01
Parameter	Benzene	Methyl-t-butyl ether 63652-03	Tert-Butanol	Toluene		Benzene	Methyl-t-butyl ether 63651-01	Tert-Butanol	Toluene

Approved By: Joe Kiff

KIFF ANALYTICAL, LLC

QC Report : Laboratory Control Sample (LCS)

Report Number: 63637 Date: 07/11/2008

Project Number: 08EL.16439.08.0410 Project Name: 7-Eleven #16439

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	39.9	ug/L	<b>EPA 8260B</b>	7/11/08	98.5	70-130
Methyl-t-butyl ether	40.0	ng/L	<b>EPA</b> 8260B	7/11/08	85.2	70-130
Tert-Butanol	199	ng/L	<b>EPA 8260B</b>	7/11/08	7.76	70-130
Toluene	39.9	ng/L	EPA 8260B	7/11/08	91.3	70-130
Benzene	40.1	ng/L	EPA 8260B	7/11/08	103	70-130
Methyl-t-butyl ether	40.1	ng/L	<b>EPA 8260B</b>	7/11/08	109	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/11/08	102	70-130
Toluene	39.5	ng/L	<b>EPA 8260B</b>	7/11/08	109	70-130

Approved By:

KIFF ANALYTICAL, LLC

ರ d Ves / Coolant Present 5 Oxygenates include: MTBE, TAME, TBA, DIPE & ETBE 12 hr ٦ ٧ 24 hr ☐ 72 hr ᢐ ☐ \$ ... <u>₹</u> 7 ¥ 1 wk 7 ¥ 1 wk **₹** 1 wk 1 wk 1 wk 1 wk ₹ × Chain-of-Custody Record and Analysis Request Therm. ID # 1-72 Page Sample Receipt Time 6230 For Lab Use Only: 800140 Analysis Request Oate Initials 63637 Temp °C Remarks: Bill to: SRG #/Lab No. 42 5 Oxygenates/TPH Gas/BTEX (8260B) × × ή, Matrix **ջ** □ llos army Water × × T0607301281 martinez@secor.com ☑ Yes Preservative EDF Deliverable To (Email Address): HOBM & DANZ Received by Laboratory: Anoly Received by: Sampling Company Log Code: <sup>E</sup>ONH B 13:00 K.T. HCI × × California EDF Report? Sampler Signature: Lediar 2795 2nd Street Suite 300 Container 6220 330 3|922 Davis, CA 95616 Lab: 530.297.4800 Fax: 530.297.4802 me Time ίοσ Global ID: Sleeve 1/3/08 802160 AOV Im 04 M 64 Time 1011 1027 619-296-6199 Sampling 2655 Camino del Rio North, Ste. 302, San Diego, CA 92108 7-Eleven #16439 7/3/2008 7/3/2008 Date P.O. # Distribution: Original - Lab; Photocopy - Originator Rev: 081105 Project Contact (Hardcopy or PDF To) Fax# ) ASINGER Arturo M. Hoyos Stanfec Sample Designation KIFF Analytical LC 14110 Old Highway 80 El Cajon, CA 38EL.16439.08.0410 619-296-6195 Company / Address: Project Address: Refinquished by: Project Name: X Relinquished by: Relinquished by Project #: Phone #: SB3 SB1

For Lab Use Only



**Stantec Consulting Services Inc.** 9179 Aero Drive San Diego CA 92123

Tel: (619) 296-6195 Fax: (619) 296-6199

January 27, 2012 File: 211701006

Mr. Craig Burnett
County of San Diego
Department of Environmental Health
Land and Water Quality Division
P.O. Box 129261
San Diego, CA 92112

Reference: Quarterly Groundwater Monitoring Report – Fourth Quarter 2011

7-Eleven Store #16439 14110 Old Highway 80 El Cajon, CA 92021

Unauthorized Release # H20203-004

Dear Mr. Burnett:

Stantec Consulting Services Inc. (Stantec) has prepared the following report describing results of groundwater monitoring conducted on December 16, 2011, at the above-referenced site (Figure 1). The purpose of this work was to monitor hydrocarbon concentrations in groundwater and to evaluate trends in groundwater flow direction at the site. This report covers the fourth calendar quarter of 2011 (Fourth Quarter 2011) and is intended to satisfy the reporting requirements of the County of San Diego, Department of Environmental Health, Land and Water Quality Division (LWQD), the San Diego Water Board (SDWB), and requirements in Title 23 of the California Code of Regulations.

#### **Groundwater Elevation and Movement Direction**

On December 16, 2011, groundwater depth measurements were obtained from nine monitoring wells (MW-2 through MW-4 and MW-7 though MW-12). Depth to groundwater ranged from 4.06 feet below ground surface (bgs) in MW-4 to 11.11 feet bgs in MW-12. Calculated groundwater surface elevations ranged from 649.97 feet above mean sea level (MSL) in MW-10 to 665.68 feet above MSL in MW-4. The average hydraulic gradient was 0.06 with groundwater flow direction toward the southwest. The groundwater elevation contour map for this event is presented as Figure 2. Copies of the Gauging/Purging/Sampling Field Logs are presented in Attachment A.

### **Groundwater Purging and Sampling**

Well MW-1 was not purged or sampled due to improper screen interval. Wells MW-5 and MW-6 were destroyed on May 19, 2010. Wells MW-2 through MW-4 and MW-7 though MW-12 were purged and sampled on December 16, 2011. Purging and sampling was conducted in accordance with the attached Monitoring Well Purging and Sampling Procedures (Attachment B). Groundwater samples were collected in laboratory-supplied glass containers. Containers were capped with Teflon™ septa and placed on ice for transport under chain-of-custody to Kiff Analytical LLC (Kiff), located in Davis, California. Kiff is a hazardous waste laboratory certified by the California Department of Health Services for the required analytical test methods.

#### Stantec

Quarterly Groundwater Monitoring Report Fourth Quarter 2011 January 27, 2012 Page 2

### **Analytical Methods**

Groundwater samples collected from the monitoring wells were analyzed for total petroleum hydrocarbons characterized as gasoline (TPHg), and benzene, toluene, ethylbenzene, and total xylenes (BTEX) using Environmental Protection Agency (EPA) Test Method 8260B. In addition, the samples were analyzed for methyl-t-butyl ether (MTBE), t-amyl-methyl ether (TAME), t-butyl alcohol (TBA), di-isopropyl ether (DIPE), and ethyl-t-butyl ether (ETBE) using EPA Test Method 8260B.

### **Analytical Results**

TPHg was detected in the groundwater sample collected from MW-4 at a concentration of 1,600 micrograms per liter ( $\mu$ g/L). TPHg was below a laboratory reporting limit of 50  $\mu$ g/L in the remaining wells. Benzene was detected in groundwater samples collected from MW-4 and MW-7 at concentrations of 1.4  $\mu$ g/L and 3.1  $\mu$ g/L, respectively. Benzene was not detected above a laboratory reporting limit of 0.50  $\mu$ g/L in remaining wells. MTBE was detected in the groundwater samples collected from MW-4, MW-7, MW-8, and MW-9 at concentrations of 0.74  $\mu$ g/L, 17  $\mu$ g/L, 20  $\mu$ g/L, and 9.1  $\mu$ g/L, respectively. MTBE concentrations were below a laboratory reporting limit of 0.50  $\mu$ g/L in the remaining wells.

Recent and historical groundwater data are summarized in Table 1. A groundwater summary map is presented as Figure 2. A benzene and MTBE isoconcentration map is presented as Figure 3. A copy of the analytical report and chain-of-custody documentation is included as Attachment C. Hydrographs for monitoring wells MW-2 through MW-12 are included as Attachment D.

## Air Sparging/Soil Vapor Extraction

A combined air sparging/soil vapor extraction (AS/SVE) system was installed at the site in 1999 and began operating on February 15, 2000. The SVE system consisted of a combined thermal and catalytic oxidizer unit (located north of the existing 7-Eleven store building) manifolded to eight soil vapor extraction wells (VE-1, VE-2, VE-3, VE-4, VE-5, VE-6, VE-7, and VE-8). A positive displacement blower capable of 250 standard cubic feet per minute (scfm) air flow applied vacuum to the vapor extraction wells drawing petroleum hydrocarbon vapors from impacted soil in the subsurface to the oxidizer unit where they were abated. System flow rates varied depending on well vacuum, temperature and humidity. In June 2003, the SVE system was replaced with a blower and carbon canisters. The AS system consisted of a 10-horsepower air compressor, capable of supplying up to 35 scfm of filtered atmospheric air at a regulated pressure, manifolded to eight air sparge wells (AS-1, AS-2, AS-3, AS-4, AS-5, AS-6, AS-7, and AS-8). Well construction details are summarized in Table 2. The layout of the former AS/SVE system is presented on Figure 4.

The SVE system began operation on February 15, 2000, in catalytic destruction mode and operated intermittently to the end of August 2001. On August 29, 2001, the SVE system was shut down pending conversion to a carbon system. On November 15, 2001, the SVE system was dismantled and transported to another 7-Eleven site. In June 2003, a blower and carbon canisters were installed on site to allow air sparge system operations to resume. The SVE system started operating in carbon adsorption mode on July 3, 2003, and the AS system began operating on September 5, 2003. Historic influent, process, and effluent vapor sample analytical results are presented in Table 3.

The system was shut down on November 11, 2004, to evaluate potential rebound in hydrocarbon concentrations in groundwater. In a letter dated September 27, 2005, SECOR International Incorporated (now Stantec) formally requested that the AS/SVE system be permanently shut down.

#### Stantec

Quarterly Groundwater Monitoring Report Fourth Quarter 2011 January 27, 2012 Page 3

The system was decommissioned and the compound was removed during the Fourth Quarter 2008.

### **Hydrocarbon Recovery Calculations**

The total mass of hydrocarbons treated by the vapor extraction system was estimated using the following equation:

$$M = \frac{V C Mw F_1 T}{F_2 F_3}$$

Where: M = Total Mass of Hydrocarbons Treated, pounds

V = Average Volumetric Standardized Flow Rate, scfm

C = Average Contaminant Concentration, ppmv

Mw = Molecular Weight, lb/lb-mole

TPH = 86 lb/lb-mole

F<sub>1</sub> = Hour to Minute Conversion, 60 min/hr F<sub>2</sub> = Conversion Factor for ppm, 1 x 10<sup>6</sup> F<sub>3</sub> = Ideal Gas Molar Volume, 359 ft<sup>3</sup>/lb-mole T = Total System Operation Time, hours

Using the above equation, the vapor extraction system treated approximately 2,394 pounds of hydrocarbons from start-up to November 2004. Figures 5 and 6 illustrate pounds of hydrocarbons removed versus time and source TPH concentrations versus time, respectively, for the vapor extraction system.

#### **Conclusions and Recommendations**

Compared to the most recent monitoring event (Fourth Quarter 2010; June 20, 2011 for MW-8), TPHg concentrations increased in MW-4; decreased in MW-9; and remained below the laboratory reporting limits in wells MW-2, MW-3, MW-7, MW-8 and MW-10 through MW-12. Benzene concentrations increased in MW-7, decreased in MW-4 and remained below laboratory reporting limits in the remaining monitoring wells. MTBE concentrations decreased in MW-4, MW-7 through MW-9 and remained below laboratory reporting limits in wells MW-2 and MW-3 and MW-10 through MW-12.

On March 23, 2011, a confirmation drilling report and closure request was submitted to the LWQD. The purpose of the confirmation assessment was to evaluate the effectiveness of soil vapor extraction treatment operations in reducing hydrocarbon concentrations in soil beneath the site. And for the LWQD to consider site closure (no further action). In response to the above report, in a letter dated June 30, 2011, the LWQD requested additional information to properly evaluate the site for closure. On October 31, 2011, Stantec prepared and submitted an addendum to the closure report.

If necessary, the next groundwater sampling event will be conducted during the Second Quarter 2012. The LWQD response to the closure addendum is pending.

### Stantec

Quarterly Groundwater Monitoring Report Fourth Quarter 2011 January 27, 2012 Page 4

### Limitations

This report has been prepared for the exclusive use of 7-Eleven Inc. as it pertains to their site located at 14110 Old Highway 80 in El Cajon, California. The findings and conclusions rendered in this report are opinions based primarily on field testing of soil vapor and groundwater samples collected during this project. This report does not reflect subsurface variations which may exist

between sampling points. These variations cannot be anticipated nor can they be entirely accounted for even with additional exhaustive testing.

All work has been performed with the degree of skill generally exercised by practicing engineers and geologists in the environmental field. Stantec makes no other warranty, either expressed or implied, concerning the conclusions and professional advice which is contained within the body of this report.

If you have any questions, please call the undersigned at (619) 296-6195.

Respectfully,

STANTEC CONSULTING SERVICES INC.

Arturo M. Hoyes Project Manager

Patrick A. McConnell, PG#7205

PATRICK A. McCONNEL No. 7205

**Principal Geologist** 

Enclosures:

Figure 1 - Site Location Map

Figure 2 - Groundwater Summary Map - Fourth Quarter 2011

Figure 3 – Benzene and MTBE Isoconcentration Map – Fourth Quarter 2011

Figure 4 – Site Plan with Former Remediation System Layout Figure 5 - Pounds of Hydrocarbons Removed Versus Time Figure 6 - Influent Hydrocarbon Concentration versus Time Table 1 - Summary of Groundwater Quality and Elevation Data

Table 2 - Well Construction Summary

Table 3 - Soil Vapor Extraction System Sample Analytical Results

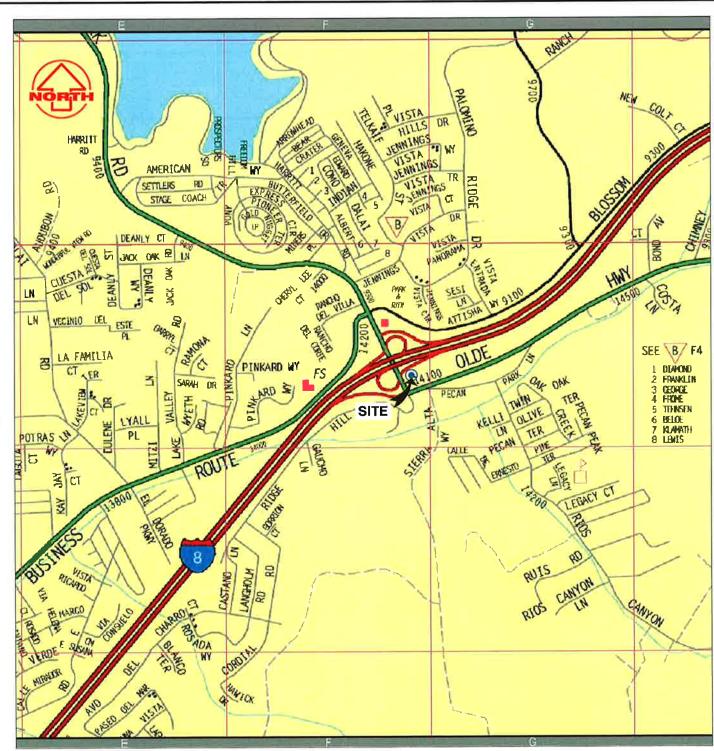
Attachment A - Gauging / Purging / Sampling Field Logs

Attachment B - Monitoring Well Purging and Sampling Procedures
Attachment C - Laboratory Report / Chain-of-Custody Documentation

Attachment D - Hydrographs

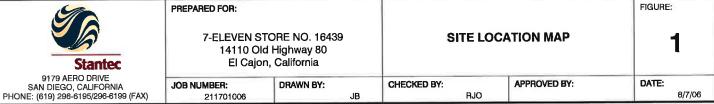
cc: Jose Rios, 7-Eleven Inc. John Wainwright, Stantec

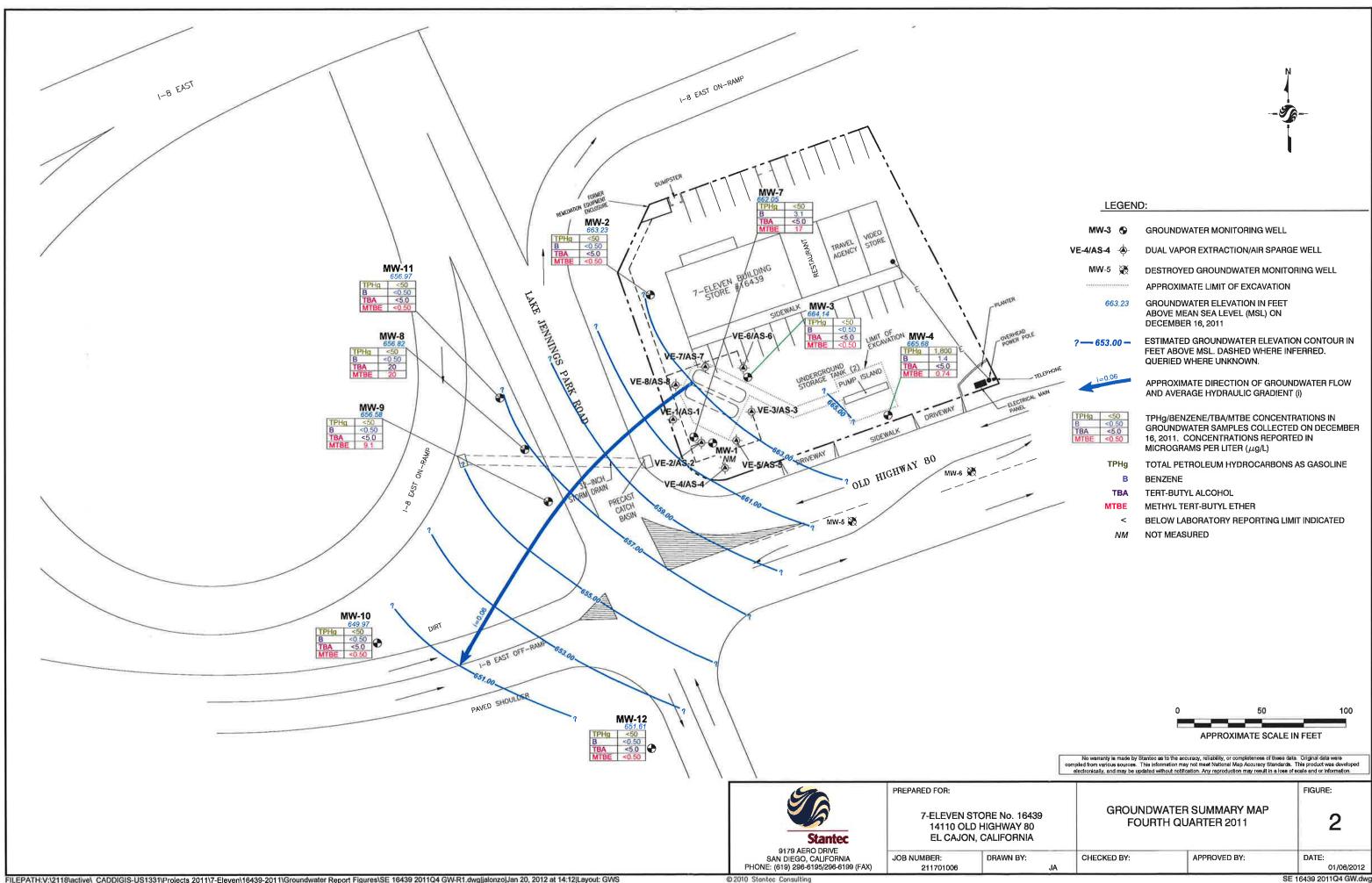
### **FIGURES**

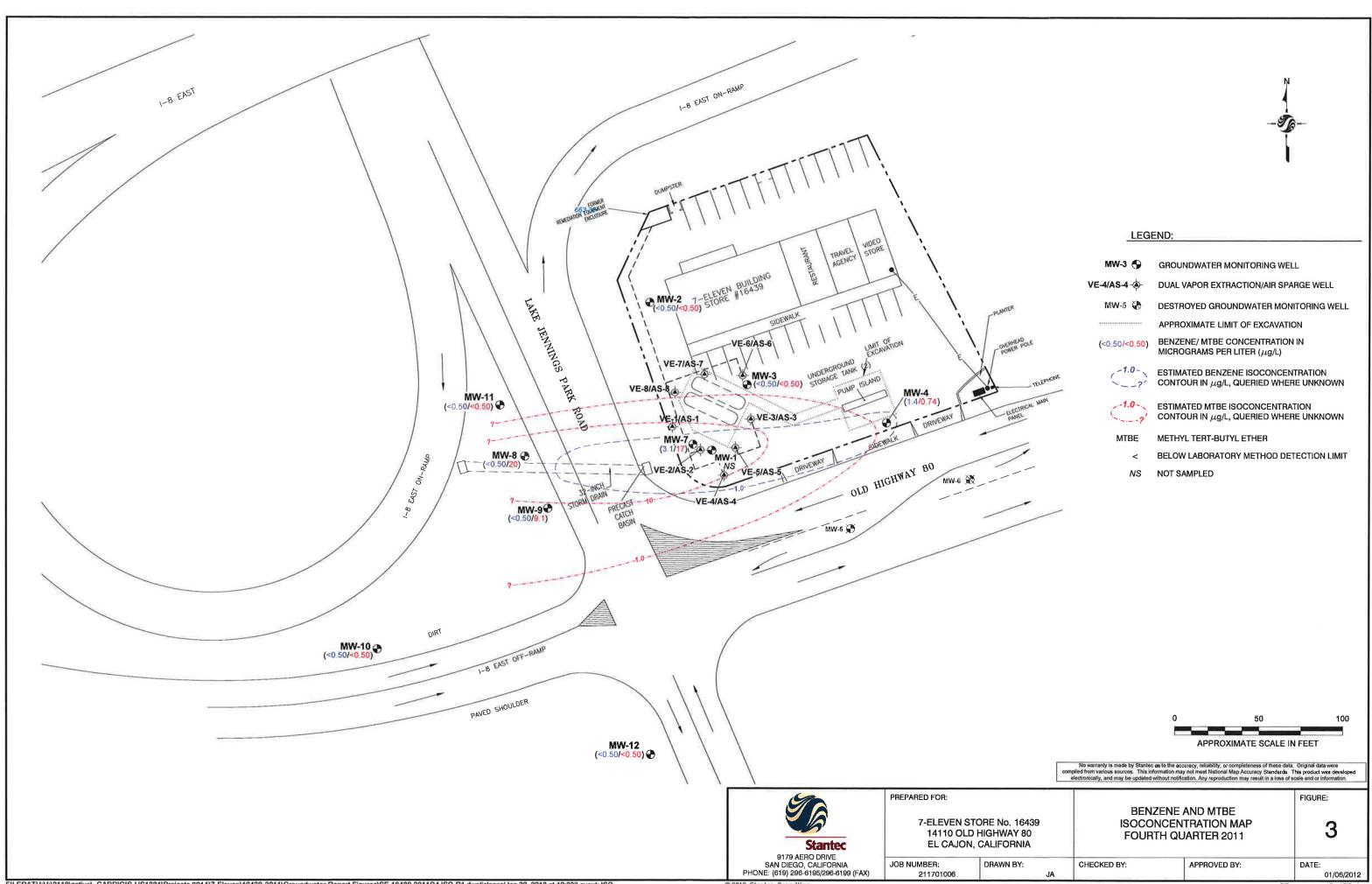


REFERENCE: THOMAS GUIDE CD-ROM, PAGE & GRID 1232 F5.









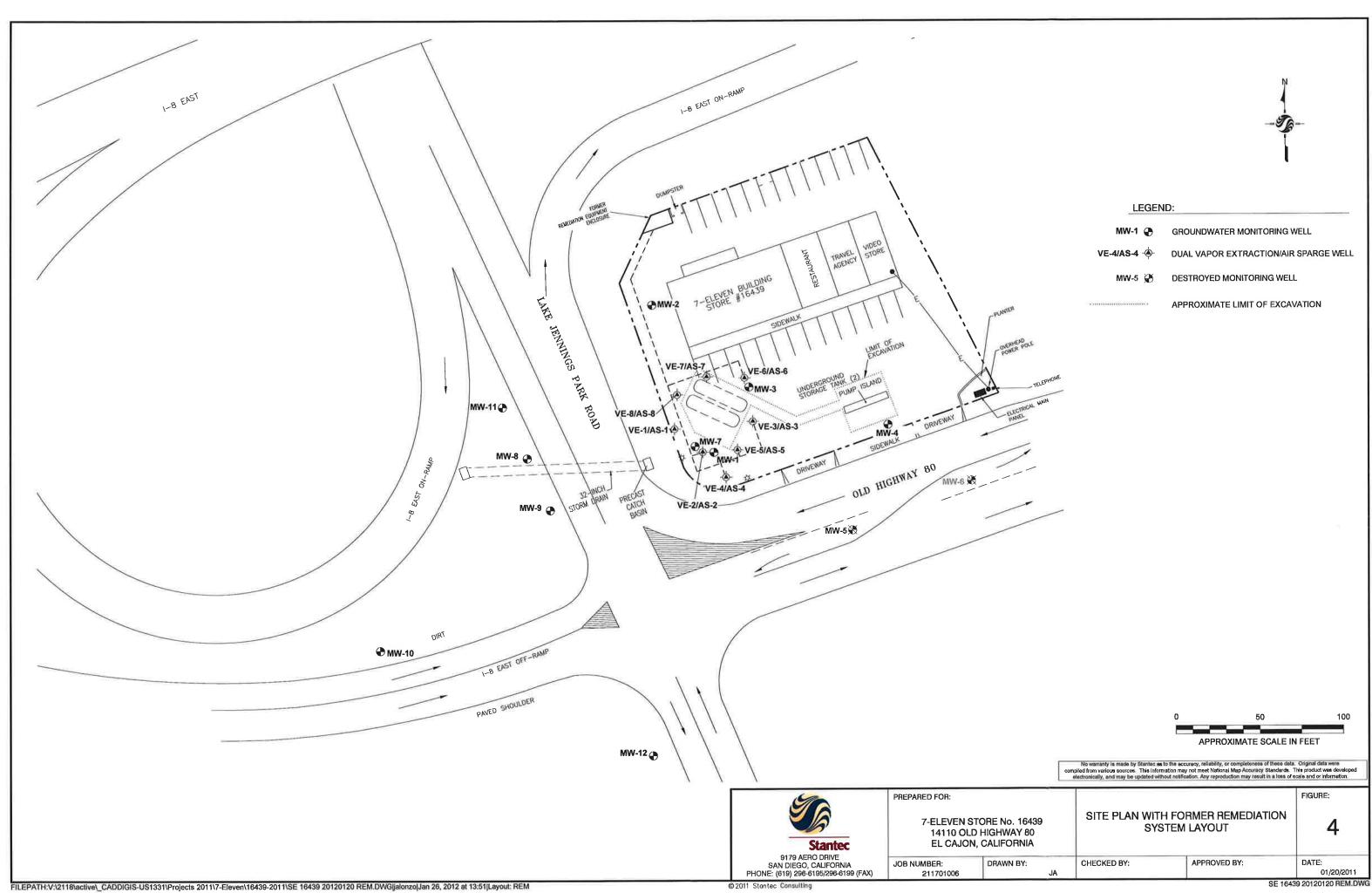
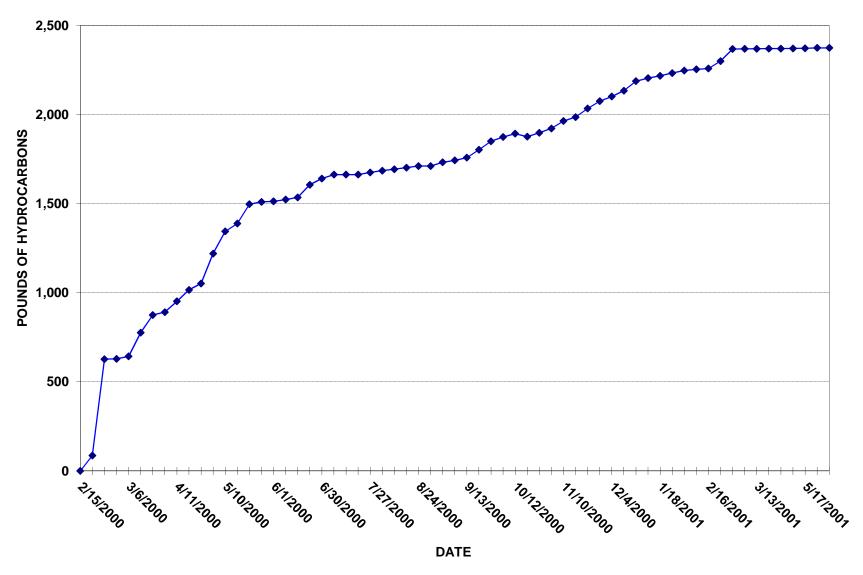


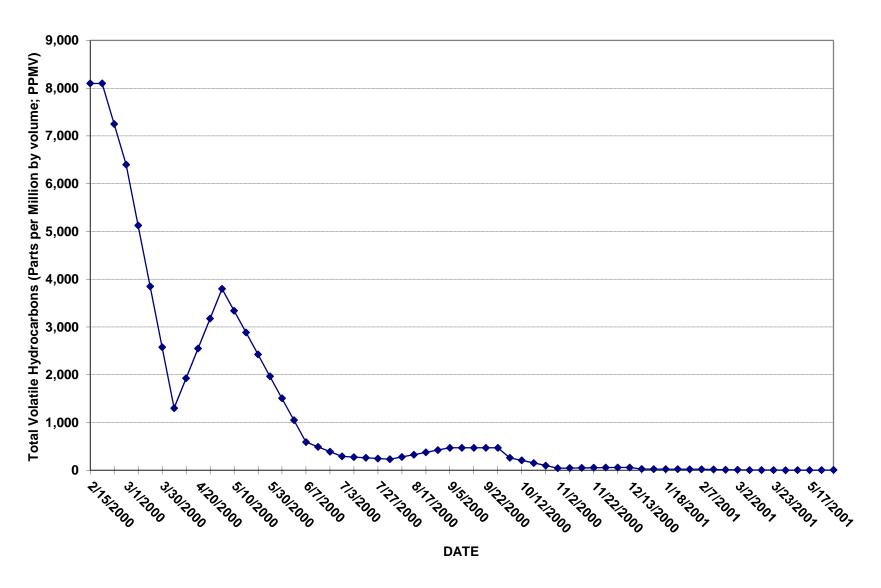
FIGURE 5 7-Eleven Store No. 16439

### **CUMULATIVE POUNDS OF HYDROCARBONS REMOVED VERSUS TIME**



### FIGURE 6 7-Eleven Store No. 16439

### SOURCE TVH CONCENTRATION VERSUS TIME



# TABLES

7-Eleven Store No. 16439

All concentrations in micrograms per liter (ug/L).

MAY-1   12/26/93   MM	Well No./TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	т	E	Х	TAME	ТВА	DIPE	ЕТВЕ	МТВЕ
22897													-	
64.97	668.00												+	
9/11/97   10.20   657.80   4,500   110   10   10   10   10   1-0   1-0   10   1													+	
11/9/97   8.80   659.20   7.000   860   1,000   87   540         2,800   1/29/98   6.80   681.20   2,000   350   350   40   180         4,500   6/19/98   5.63   662.37   5.000   4,000   770   2,400         4,500   6/19/98   5.63   682.37               4,500   6/19/98   5.63   682.37                   4,500   6/19/98   5.63   682.37                           4,500   6/19/98   5.000   5/19/98   5/19/98   5/19/98   5/19/99   6/19/98   6/19/98   5/19/99   6/19/98   6/19/98   5/19/99   6/19/98														
1/29/98   6.80   68120   2.000   3.500   5.20   40   180         6.00														
6/198   5.63   662.37		1/29/98		661.20	2,000	350		40	180					600
81/298 NM NM NM NOT SAMPLED - IMPROPER SCREEN INTERVAL					59,000	2,500	4,000	770	2,400					4,500
12/298														
2/17/99														
S1/299   6.83   661.17   NOT SAMPLED IMPROPER SCREEN INTERVAL														
84/99														
11/11/99   8.95   669.05   NOT SAMPLED - IMPROPER SCREEN INTERVAL   14/26/00   7.49   669.05   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/00   13.89   654.11   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/00   13.89   654.11   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/00   13.89   654.11   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/01   3.99   669.05   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/01   3.99   669.05   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/01   3.99   659.01   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/01   3.99   659.01   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/01   3.99   659.01   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/01   3.99   659.01   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/01   3.99   659.01   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/02   3.29   659.70   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/02   3.29   659.70   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/02   3.29   659.71   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/02   3.29   659.74   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/02   3.29   659.74   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/03   3.00   660.70   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/03   3.00   660.70   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/03   3.00   660.70   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/03   7.00   660.70   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/04   6.82   681.18   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/04   6.82   681.18   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/04   6.70   689.30   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/04   6.70   689.30   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/04   6.70   689.30   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/04   6.70   689.30   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/05   6.66   662.32   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/05   6.66   662.32   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/13/05   6.69   6.60   6.60   0.00   NOT SAMPLED - IMPROPER SCREEN														
2715/00														
B/14/00   9.16   658.84   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/16/01   7.88   669.12   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/16/01   7.88   669.12   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/16/01   7.88   669.12   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/16/01   8.99   659.01   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/16/01   8.99   659.01   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/16/01   8.99   659.01   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/16/01   8.90   659.01   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/16/01   8.90   659.01   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/16/01   8.90   659.01   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/16/01   8.90   659.01   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/16/01   8.90   659.02   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/16/03   7.30   660.70   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/16/03   7.30   660.70   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/16/03   7.30   660.70   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/16/03   7.30   660.70   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/17/03   7.86   660.14   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/17/03   7.86   660.14   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/17/03   7.86   660.14   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/17/04   6.82   661.18   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/17/04   6.70   660.50   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/17/05   5.68   662.32   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/17/05   5.68   662.32   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/17/05   5.68   662.32   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/17/05   5.68   662.32   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/17/05   5.68   660.30   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/17/05   5.68   660.30   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/17/05   5.68   660.30   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/17/05   5.68   660.30   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/17/05   660.50   660.30   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/17/05   660.50   660.30   NOT				660.20										
11/13/00														
1/16/01														
17/26/01   8.32   659.68   <50   0.7   <0.5   6.3   <0.5   21   <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   <0.5   <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   <0.5														
11/13/01   8.99   659.01   NOT SAMPLED : IMPROPER SCREEN INTERVAL					<50	0.7							<0.5	63
2/11/102   8.29   659.70   NOT SAMPLED - IMPROPER SCREEN INTERVAL					<b>\30</b>	0.7							<b>\0.5</b>	03
5/10/02														
88/502   9.26   658.74   NOT SAMPLED - IMPROPER SCREEN INTERVAL   12/2/02   8.47   659.53   NOT SAMPLED - IMPROPER SCREEN INTERVAL   2/18/03   7.30   660.70   NOT SAMPLED - IMPROPER SCREEN INTERVAL   4/29/03   6.30   661.70   NOT SAMPLED - IMPROPER SCREEN INTERVAL   8/5/03   8.08   669.92   NOT SAMPLED - IMPROPER SCREEN INTERVAL   12/17/03   7.86   660.14   NOT SAMPLED - IMPROPER SCREEN INTERVAL   12/13/04   6.82   661.18   NOT SAMPLED - IMPROPER SCREEN INTERVAL   12/13/04   6.82   661.18   NOT SAMPLED - IMPROPER SCREEN INTERVAL   12/13/04   6.82   661.18   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/10/4   6.43   661.57   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/10/4   6.43   661.57   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/10/4   6.43   661.57   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/10/4   6.43   661.57   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/10/4   6.43   661.57   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/10/4   11/10/4   6.43   661.57   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/10/4   11/10/4   6.43   661.57   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/10/4														
2/18/03														
4/29/03		12/2/02	8.47	659.53			NOT S	SAMPLED	- IMPROP	ER SCRE	EN INTE	RVAL		
8/5/03   8.08   659.92   NOT SAMPLED - IMPROPER SCREEN INTERVAL   12/17/03   7.86   660.14   NOT SAMPLED - IMPROPER SCREEN INTERVAL   2/13/04   6.82   661.18   NOT SAMPLED - IMPROPER SCREEN INTERVAL   5/20/04   7.50   660.50   NOT SAMPLED - IMPROPER SCREEN INTERVAL   8/17/04   8.70   659.30   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/1/04   6.43   661.57   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/1/05   5.68   662.32   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/1/05   5.68   662.32   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/1/05   5.68   662.32   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/1/05   5.68   662.32   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/1/05   5.68   662.32   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/1/05   6.29   661.71   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/1/06   6.29   661.71   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/1/06   5.55   662.45   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/1/06   7.11   660.89   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/1/07   6.78   661.22   NOT SAMPLED - IMPROPER SCREEN INTERVAL   6/4/07   7.76   660.24   NOT SAMPLED - IMPROPER SCREEN INTERVAL   6/4/07   7.76   660.24   NOT SAMPLED - IMPROPER SCREEN INTERVAL   6/4/07   7.76   660.24   NOT SAMPLED - IMPROPER SCREEN INTERVAL   12/10/07   7.45   660.55   NOT SAMPLED - IMPROPER SCREEN INTERVAL   12/10/07   7.45   660.56   NOT SAMPLED - IMPROPER SCREEN INTERVAL   12/10/07   7.45   660.56   NOT SAMPLED - IMPROPER SCREEN INTERVAL   12/10/07   7.45   660.56   NOT SAMPLED - IMPROPER SCREEN INTERVAL   12/10/07   8.56   659.35   NOT SAMPLED - IMPROPER SCREEN INTERVAL   12/10/07   8.56   659.35   NOT SAMPLED - IMPROPER SCREEN INTERVAL   12/10/07   8.56   659.35   NOT SAMPLED - IMPROPER SCREEN INTERVAL   12/10/07   8.65   659.35   NOT SAMPLED - IMPROPER SCREEN INTERVAL   12/10/09   NM														
12/17/03														
2/13/04   6.82   661.18   NOT SAMPLED - IMPROPER SCREEN INTERVAL														
5/20/04   7.50   660.50   NOT SAMPLED - IMPROPER SCREEN INTERVAL														
8/17/04   8.70   659.30   NOT SAMPLED - IMPROPER SCREEN INTERVAL   11/1/104   6.43   661.57   NOT SAMPLED - IMPROPER SCREEN INTERVAL   17/105   5.68   662.32   NOT SAMPLED - IMPROPER SCREEN INTERVAL   4/15/05   NM   NM   NOT SAMPLED - IMPROPER SCREEN INTERVAL   17/25/05   NM   NM   NOT SAMPLED - IMPROPER SCREEN INTERVAL   10/28/05   6.29   661.71   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/20/06   6.29   661.71   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/20/06   6.29   661.71   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/06   7.11   660.89   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/06   7.11   660.89   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/07   6.78   661.22   NOT SAMPLED - IMPROPER SCREEN INTERVAL   2/12/07   6.78   661.22   NOT SAMPLED - IMPROPER SCREEN INTERVAL   9/14/07   7.76   660.24   NOT SAMPLED - IMPROPER SCREEN INTERVAL   9/14/07   7.45   660.55   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/00/7   7.45   660.55   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/00/7   7.45   660.55   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/00/7   7.45   660.55   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/00/7   7.45   660.55   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/00/7   7.45   660.55   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/00/7   7.45   660.55   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/00/7   7.45   660.55   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/00/7   7.45   660.55   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/00/7   7.45   660.55   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/00/7   7.45   660.55   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/00/7   7.45   660.55   NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/00/10   NM NM NM NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/00/10   NM NM NM NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/00   NM NM NM NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/00   NM NM NM NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/01   NM NM NM NOT SAMPLED - IMPROPER SCREEN INTERVAL   1/21/01   NM NM NM NOT SAMPLED - IMPROPER SCREEN IN														
11/11/04   6.43   661.57   NOT SAMPLED - IMPROPER SCREEN INTERVAL		8/17/04												
177/05   5.68   662.32   NOT SAMPLED - IMPROPER SCREEN INTERVAL			1											
17/25/05   NM		1/7/05	5.68											
10/28/05														
1/20/06														
4/14/06   5.55   662.45   NOT SAMPLED - IMPROPER SCREEN INTERVAL														
7/21/06														
10/23/06														
2/12/07														
6/4/07														
9/14/07														
12/10/07														
5/30/08														
9/22/08														
12/22/08														
3/30/09														
5/14/09														
8/10/09														
11/20/09														
4/29/10														
12/1/10														
6/20/11         NM         NM         NOT SAMPLED - IMPROPER SCREEN INTERVAL           12/16/11         NM         NM         NOT SAMPLED - IMPROPER SCREEN INTERVAL           MW-2         11/15/96         9.47         659.85         <50														
MW-2     11/15/96     9.47     659.85     <50							NOT S	SAMPLED	- IMPROP	ER SCRE	EN INTE	RVAL		
669.38							i e	i e		ER SCRE	EN INTE	RVAL		
6/4/97 8.70 660.62 <50 <0.5 <0.5 <0.5 < < < < > < < < <													+	
	669.38												-	
		9/11/97	8.70 11.27	658.11	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5					<0.5 0.8

Well No./TOC	Date	DTW (ft)	GW Elev.	TPHg	В	т	E	х	TAME	ТВА	DIPE	ETBE	MTBE
(ft/MSL)		, ,	(ft/MSL)										
	11/5/97	9.76	659.62	<50	<0.5	<0.5	<0.5	<0.5					<0.5
MW-2	1/29/98	7.37	662.01	<50	<0.5	<0.5	<0.5	<0.5					2.5
Cont'd 669.38	5/14/98 6/1/98	5.83 5.98	663.55 663.40	<50	<0.5	<0.5	<0.5	<0.5 T SAMPL	 ED				<0.5
009.30	8/12/98	8.02	661.36					T SAMPL					
	12/2/98	8.08	661.30	<50	<0.5	<0.5	<0.5	<0.5		T			1.3
	2/17/99	6.97	662.41	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	5/12/99	7.69	661.69	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	8/4/99	9.73	659.65	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	11/11/99	10.07	659.31	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	2/15/00	8.61	660.77	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	4/26/00 8/14/00	8.15 10.30	661.23 659.08					T SAMPL T SAMPL					
	11/13/00	9.95	659.43					T SAMPL					
	1/16/01	8.64	660.74	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	4/24/01	6.28	663.10		-0.0	10.0		T SAMPL		10.0	-0.0	10.0	.0.0
	7/26/01	9.36	660.02	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	3.3
	11/13/01	10.11	659.27	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	6.2
	2/11/02	9.45	659.93	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	5/10/02	9.61	659.77		1	1		T SAMPL		1	1	1	1
	8/5/02	10.52	658.86					T SAMPL					
	12/2/02 2/18/03	9.15	660.23	<b>4</b> F0	-0 E	<0.5		T SAMPL <0.5		-E 0	<0 F	-0 F	-0 F
	4/29/03	7.96 6.83	661.42 662.55	<50	<0.5	<0.5	<0.5	T SAMPL	<0.5	<5.0	<0.5	<0.5	<0.5
	8/5/03	9.07	660.31					T SAMPL					
	12/17/03	8.87	660.51					T SAMPL					
	2/13/04	7.53	661.85	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	5/20/04	8.35	661.03		•		NO	T SAMPL	ED	•	•	•	
	8/17/04	9.81	659.57					T SAMPL					
	11/1/04	6.94	662.44		1	1		T SAMPL		1	1	1	1
	1/7/05	5.92	663.46	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	4/15/05	5.52	663.86					T SAMPL					
	7/25/05	5.67	663.71					T SAMPL					
	10/28/05 1/20/06	6.49 6.60	662.89 662.78	<50	<0.5	<0.50	<0.50	T SAMPL <0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	4/14/06	5.63	663.75	<b>\50</b>	<0.5	<0.50		T SAMPL		<b>\</b> 5.0	<0.50	<0.50	<0.50
	7/21/06	8.06	661.32					T SAMPL					
	10/23/06	8.96	660.42					T SAMPL					
	2/12/07	7.53	661.85	<50	<0.50	< 0.50	<0.50	< 0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	6/4/07	8.72	660.66	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	9/14/07	9.70	659.68	<50	<0.50	<0.50	<0.50	0.51	<0.50	<5.0	<0.50	<0.50	<0.50
	12/10/07	8.20	661.18	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	3/31/08	6.10	663.28	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	5/30/08 9/22/08	7.60 10.15	661.78 659.23	<50 <50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<5.0 <5.0	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50
	12/22/08	7.20	662.18	<50 <50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0 <5.0	<0.50	<0.50	<0.50
	3/30/09	6.02	663.36	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	5/14/09 <sup>1</sup>	7.17	662.21	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	8/11/09	9.67	659.71	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	11/20/09	12.86	656.52	<50 <50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	4/29/10	5.33	664.05	<50 <50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	12/1/10	6.93	662.45	<50 <50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	6/20/11	5.81	663.57	,00	-0.00	-0.00		T SAMPL		∪.∪	-0.00	-0.00	-0.00
	12/16/11	6.15	663.23	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
MW-3	11/15/96	7.79	660.93	2,300	49	330	63	270		~5.0 			37
668.72	2/28/97	4.97	663.75	1,300	28	160	62	150					29
	6/4/97	6.85	661.87	6,700	190	700	190	860					120
	9/11/97	9.69	659.03	8,900	1,100	1,400	270	1,200			-		660
	11/5/97	8.16	660.56	31,000	460	1,200	1,100	3,500					170
	1/29/98	5.63	663.09	15,000	180	350	550	790					65
	5/14/98	5.03	663.69	5,800	1.6	31	150	130	 FD				2.6
I	6/1/98	5.11	663.61	l			NU	T SAMPL	בט				

Well No./TOC	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	т	E	Х	TAME	ТВА	DIPE	ЕТВЕ	МТВЕ
(ft/MSL)			, ,										
MW-3	8/12/98	4.32	664.40	4,500	1.1	17	120	150					6.9
Cont'd 668.72	12/2/98 2/17/99	6.12 5.08	662.60 663.64	8,600 5,900	82 100	180 190	310 200	700 380					47 51
000.72	5/12/99	5.32	663.40	2,500	20	43	76	71					19
	8/4/99	7.95	660.77	630	20	2.6	14	17					80
	11/11/99	8.45	660.27	450	<0.5	<0.5	2.8	1.9					53
	2/15/00	6.78	661.94	7,300	100	140	280	780					67
	4/26/00	5.35	663.37	6,800	1,000	1,000	180	780					1,600
	8/14/00	8.60	660.12	100	<0.5	<0.5	<0.5	1.1	<0.5	<5.0	<0.5	<0.5	4.0
	11/13/00	8.88	659.84	<50	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<5.0	<0.5	<0.5	2.0
	1/16/01 4/24/01	6.67 5.02	662.05 663.70	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<5.0 <5.0	<0.5 <0.5	<0.5 <0.5	1.4 0.8
	7/26/01	8.32	660.40	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	3.2
	11/13/01	8.78	659.94	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	2/11/02	8.11	660.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	5.2
	5/10/02	8.15	660.57	<50	<0.5	<0.5	<0.5	0.8	<0.5	6.1	<0.5	<0.5	6.0
	8/5/02	9.15	659.57	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	5.8
	12/2/02	7.68	661.04	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	4.3
	2/18/03	6.33	662.39	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.5
	4/29/03 8/5/03	5.00 7.47	663.72 661.25	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 0.8	<0.5 <0.5	<5.0 <5.0	<0.5 <0.5	<0.5 <0.5	0.7 2.9
	12/17/03	7.47	661.45	<50 <50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0 <5.0	<0.5	<0.5	2.9
	5/20/04	6.66	662.06	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	8/17/04	8.32	660.40	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	2.2
	11/1/04	5.34	663.38	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	1/7/05	4.47	664.25				NO	T SAMPLI					
	3/5/05	4.26	664.46	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10.0	<1.0	<1.0	<1.0
	4/15/05	4.12	664.60	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	7/25/05	5.12	663.60	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	10/28/05 1/20/06	4.75 4.87	663.97 663.85	<50 <50	<1.0 <0.50	<5.0 <0.50	<5.0 <0.50	<5.0 <0.50	<1.0 <0.50	<10 <5.0	<1.0 <0.50	<1.0 <0.50	<1.0 <0.50
	4/14/06	4.02	664.70	<50 <50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0 <5.0	<0.50	<0.50	<0.50
	7/21/06	6.11	662.61	94	<0.50	0.52	1.4	14	<0.50	<5.0	<0.50	<0.50	<0.50
	10/23/06	7.31	661.41	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	2/12/07	6.62	662.10	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	6/4/07	7.05	661.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	9/14/07	8.27	660.45	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	12/10/07	6.61	662.11	<50	1.1	0.56	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	3/31/08 5/30/08	4.63 5.54	664.09 663.18	<50 <50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<5.0 <5.0	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50
	9/22/08	8.73	659.99	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	12/22/08	5.67	663.05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	3/30/09 1	4.74	663.98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	5/14/09 1	5.31	663.41	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	8/11/09	8.18	660.54	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	11/20/09	11.57	657.15	<50	<0.50	<0.50	0.63	<0.50	<0.50	<5.0	<0.50	<0.50	0.53
	4/29/10 <sup>1</sup>	5.00	663.72	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	12/1/10	5.20	663.52	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	6/20/11	4.70	664.02	,00	-5.50	1 3.00		T SAMPLI			1 .0.00		.0.00
	12/16/11	4.58	664.14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
MW-4	11/15/96	5.32	664.12	<50 <50	<0.50	<0.50	<0.5	<0.50					2.1
669.74	2/28/97	5.48	664.26	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	6/4/97	5.46	664.28	<50	<0.5	<0.5	<0.5	<0.5					0.6
	9/11/97	6.55	663.19	<50	<0.5	<0.5	<0.5	<0.5					0.9
	11/5/97	5.95	663.79	<50	<0.5	<0.5	<0.5	<0.5					0.7
	1/29/98 NP	5.57	664.37	<50	<0.5	<0.5	<0.5	<0.5					0.9
	5/14/98 NP	5.57	664.37	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	6/1/98 NP	3.11	664.63				NC	T SAMPL	ED				
[	8/12/98 NP	5.06	664.14	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	12/2/98 NP	5.32	664.42	<50	<0.5	<0.5	<0.5	<0.5					0.8
	2/17/99 NP	5.35	664.39	<50	<0.5	<0.5	<0.5	<0.5					<0.5

Well No./TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	Т	E	х	TAME	ТВА	DIPE	ЕТВЕ	МТВЕ
MW-4	5/12/99 NP	5.35	664.39	<50	<0.5	<0.5	<0.5	<0.5					<0.5
Cont'd	8/4/99 NP	5.97	663.77	<50	<0.5	<0.5	<0.5	<0.5					26
669.74	11/11/99 NP	6.37	663.37	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	2/15/00 NP	5.68	664.06	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	4/26/00 8/14/00	5.41 6.41	664.33 663.33					T SAMPL T SAMPL					
	11/13/00	6.36	663.38					T SAMPL					
	1/16/01 NP	5.34	664.40	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	4/24/01 NP	5.24	664.50			T		T SAMPL					l
	1120/01	6.01	663.73	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	11/13/01 NP 2/11/02 NP	6.63	663.11	<50	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	5/10/02	6.01 6.09	663.73 663.65	<50	<0.5	<0.5	<0.5	T SAMPL	<0.5 FD	<5.0	<0.5	<0.5	<0.5
	8/5/02	6.77	662.97					T SAMPL					
	12/2/02	5.70	664.04				NC	T SAMPL	ED				
	2/18/03	5.28	664.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	4/29/03 8/5/03	5.25 5.79	664.49 663.95					T SAMPL T SAMPL					
	12/17/03	6.76	662.98					T SAMPL					
	2/13/04	5.29	664.45	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	5/20/04	5.14	664.60					T SAMPL			•	•	
	8/17/04	6.27	663.47					T SAMPL					
	11/1/04 1/7/05	5.09 5.07	664.65 664.67	576	33	36	26	T SAMPL 64	<u>+</u> D <1.0	<10	<1.0	<1.0	2.2
	3/5/05	4.75	664.99	822	67	102	11	80	<1.0	<1.0	<1.0	<1.0	1.2
	4/15/05	5.10	664.64			-	NC	T SAMPL	ED				
	7/25/05	3.98	665.76		1			T SAMPL					
	10/28/05	4.51	665.23	33,000	1,130	3,950	572	3,100	<25	<250	<25	<25	<25
	1/20/06 2/27/06	4.81 3.87	664.93 665.87	76,000 73,000	4,900 2,200	13,000 12,000	2,400 1,800	12,000 12,000	<30 <30	<150 <150	<30 <30	<30 <30	<30 <30
	4/14/06	3.86	665.88	78,000	850	7,000	2,000	15,000	<20	<90	<20	<20	<20
	7/21/06	4.53	665.21	41,000	500	660	1,300	9,600	<9.0	<50	<9.0	<9.0	<9.0
	10/23/06	5.38	664.36	57,000	190	590	1,800	13,000	<9.0	<50	<9.0	<9.0	<9.0
	2/12/07	4.99	664.75	69,000	63	240	2,200	13,000	<9.0	<50	<9.0	<9.0	<9.0
	6/4/07 9/14/07	5.03 6.06	664.71 663.68	30,000 29,000	20 11	32 14	1,200 1,100	4,400 4,000	<5.0 <0.50	<25 7.8	<5.0 <0.50	<5.0 <0.50	<5.0 1.7
	12/10/07	5.02	664.72	3,800	4.6	4.2	110	14	<0.50	150	<0.50	<0.50	1.6
	3/31/08	3.76	665.98	16,000	3.2	1.7	540	880	<0.50	110	<0.50	<0.50	1.2
	5/30/08	3.99	665.75	2,800	2.1	2.6	83	4.0	<0.50	110	<0.50	<0.50	1.1
	9/22/08	6.16	663.58 664.69	12,000 1,100	4.7 1.0	2.9	360 43	280 10	<0.50	38	<0.50	<0.50	1.8 1.0
	12/22/08 3/30/09 <sup>1</sup>	5.05 3.82	665.92	6,800	1.8	0.89 4.5	210	66	<0.50 <0.50	120 78	<0.50 <0.50	<0.50 <0.50	1.0
	5/14/09	4.03	665.71	0,000	1.0			CAR PAR			<b>\0.50</b>	₹0.50	1.2
	8/11/09	5.56	664.18	7,500	1.5	6.2	100	18	<1.0	120	<1.0	<1.0	<1.0
	11/20/09	8.23	661.51	5,900	2.5	4.1	64	11	<1.0	120	<1.0	<1.0	<1.0
	4/29/10 <sup>1</sup>	3.62	666.12	2,200	0.98	1.4	5.2	4.0	<0.50	29	<0.50	<0.50	0.74
	12/1/10	4.28	665.46	1,600	1.5	<0.50	1.8	<0.50	<0.50	24	<0.50	<0.50	0.98
	6/20/11	4.80	664.94				NC	T SAMPL	ED				
	12/16/11	4.06	665.68	1,800	1.4	0.86	<0.50	1.5	<0.50	<5.0	<0.50	<0.50	0.74
MW-5	11/15/96	NM	NM	<50	<0.5	<0.5	<0.5	<0.5					1.6
669.31	2/28/97	6.03	663.28	<50	<0.5	<0.5	<0.5	<0.5					27
	6/4/97 9/11/97	6.61 9.60	662.70 659.71	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5					1.2 <0.5
	11/5/97	7.18	662.13	<50	<0.5	<0.5	<0.5	<0.5					1.0
	1/29/98 NP	6.19	663.12	<50	<0.5	<0.5	<0.5	<0.5					0.6
	5/14/98 NP	5.61	663.70	<50	<0.5	<0.5	<0.5	<0.5					0.8
	6/1/98 NP	5.76	663.55	NM	NM								NM
	8/12/98 NP	6.18	663.13	<50	<0.5	<0.5	<0.5	<0.5					0.6
	12/2/98 NP	0.40	662.85	<50	<0.5	<0.5	<0.5	<0.5					0.6
	2/17/99 NP	6.19	663.12	<50	<0.5	<0.5	<0.5	<0.5					<0.5

Well No./TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	ТРНд	В	т	E	х	TAME	ТВА	DIPE	ЕТВЕ	МТВЕ
MW-5	5/12/99 NP	6.21	663.10	<50	<0.5	<0.5	<0.5	<0.5					<0.5
Cont'd	8/4/99 NP	6.99	662.32	<50	<0.5	<0.5	<0.5	<0.5					0.5
669.31	11/11/99 NP	8.19	661.12	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	2/15/00 NP	6.79	662.52	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	4/26/00	6.34	662.97					T SAMPL					
	8/14/00 11/13/00	8.11 8.31	661.20 661.00					T SAMPL T SAMPL					
	1/16/01	NM	NM			NOT	SAMPLE			VER			
	4/24/01	NM	NM				SAMPLE						
	7/26/01	NM	NM				SAMPLE						
	11/13/01	NM	NM				SAMPLE						
	2/11/02	NM	NM				SAMPLE						
	5/10/02 8/5/02	NM NM	NM NM				SAMPLE						
	12/2/02	6.87	662.44	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2/18/03	6.33	662.98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6
	4/29/03	5.95	663.36		•	•		T SAMPL		•			•
	8/5/03	6.71	662.60					T SAMPL					
	12/17/03	6.70	662.61	-50	-4.0	45.0		T SAMPL		-40	140	140	
	2/13/04 5/20/04	6.29 6.36	663.02 662.95	<50	<1.0	<5.0	<5.0	<5.0 T SAMPL	<1.0	<10	<1.0	<1.0	2.8
	8/17/04	6.96	662.35					T SAMPL					
	11/1/04	5.99	663.32					T SAMPL					
	1/7/05	5.65	663.66	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	4/15/05	5.59	663.72					T SAMPL					
	7/25/05	5.92	663.39					T SAMPL					
	10/28/05 1/20/06	5.63	663.68 663.20	<50	<0.50	<0.50	<0.50	T SAMPL <0.50		<b>∠</b> E 0	<0.50	<0.50	<0.50
	4/14/06	6.11 5.67	663.64	<b>\30</b>	<0.50	<0.50		T SAMPL	<0.50	<5.0	<0.50	<0.50	<0.50
	7/21/06	6.30	663.01					T SAMPL					
	10/23/06	6.62	662.69				NO	T SAMPL	ED				
	2/12/07	6.08	663.23	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	6/4/07	6.41	662.90	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	9/14/07 12/10/07	6.95 6.40	662.36 662.91	<50	<0.50	<0.50	<0.50	T SAMPL <0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	3/31/08	5.81	663.50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	5/30/08	6.13	663.18	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	9/22/08	7.03	662.28	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	12/22/08	NM	NM		1	1	NO	T SAMPL	ED	1		1	
	3/30/09	5.90	663.41	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	5/14/09	6.07	663.24	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	8/10/09	6.73	662.58	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	11/20/09	11.10	658.21	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	4/29/10	5.65	663.66	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
NAVA / C	5/19/10	NIN 4	NIN 4	-50	-0.F	10.5	Well Dest		I	I		I	-0.5
MW-6 670.28	11/15/96 2/28/97	NM 6.75	NM 663.53	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5					<0.5 <0.5
070.20	6/4/97	7.16	663.12	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	9/11/97	8.02	662.26	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	11/5/97	7.45	662.83	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	1/29/98	6.72	663.56	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	05/14/98	6.17	664.11	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	6/1/98 8/12/98	6.30 6.70	663.98 663.58	 <50	 <0.5	<0.5	<0.5	<0.5					<0.5
	12/2/98	6.74	663.54	<50 <50	<0.5	<0.5	<0.5	<0.5					<0.5
	2/17/99	6.70	663.58	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	5/12/99	6.69	663.59	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	8/4/99	7.39	662.89	<50	<0.5	<0.5	<0.5	<0.5					0.6
	11/11/99	7.64	662.64	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	2/15/00	7.29	662.99	<50	<0.5	<0.5	<0.5	<0.5	 ED				<0.5
	4/26/00 8/14/00	6.88 7.70	663.40 662.58					T SAMPL T SAMPL					
	G/ 1-7/00	1.10	UUL.UU	<u> </u>			INC	. OAWII L					

7-Eleven Store No. 16439

All concentrations in micrograms per liter (ug/L).

Well No./TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	т	E	х	TAME	ТВА	DIPE	ЕТВЕ	МТВЕ
MW-6	11/13/00	7.66	662.62					T SAMPL					
Cont'd 670.28	4/24/01 7/26/01 NP	6.39	663.89	<b>450</b>	40 E	-0 F		T SAMPL		-E 0	40 F	-0 F	1.6
670.28	11/13/01	7.16 7.73	663.12 662.55	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<5.0 <5.0	<0.5 <0.5	<0.5 <0.5	1.6 0.7
	2/11/02	7.34	662.94	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.2
	5/10/02	7.37	662.91					T SAMPL					.1
	8/5/02	7.80	662.48					T SAMPL					
	12/2/02	7.27	663.01 663.45	<50	40 F	-0 F		T SAMPL <0.5	1	-0 F	-0 F	-0 F	0.7
	2/18/03 4/29/03	6.83 6.46	663.82	<50	<0.5	<0.5	<0.5	T SAMPL	<0.5 FD	<0.5	<0.5	<0.5	0.7
	8/5/03	7.19	663.09					T SAMPL					
	12/17/03	7.24	663.04				NO	T SAMPL	ED				
	2/13/04	6.91	663.37	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	5/20/04 8/17/04	6.93 7.50	663.35 662.78					T SAMPL T SAMPL					
	11/1/04	6.40	663.88					T SAMPL					
	1/7/05	6.27	664.01	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	4/15/05	6.25	664.03					T SAMPL			•		
	7/25/05	6.58	663.70					T SAMPL					
	10/28/05 1/20/06	6.55 6.60	663.73 663.68	<50	<0.50	<0.50	<0.50	T SAMPL <0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	4/14/06	6.22	664.06	<b>\50</b>	<b>\0.50</b>	<b>\0.50</b>		T SAMPL		<b>\</b> 5.0	<b>\0.50</b>	<b>\0.50</b>	<b>\0.50</b>
	7/21/06	6.89	663.39					T SAMPL					
	10/23/06	7.12	663.16					T SAMPL					
	2/12/07	6.71	663.57	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	6/4/07 9/14/07	7.02 7.47	663.26 662.81	<50	<0.50	<0.50	<0.50	<0.50 T SAMPL	<0.50	<5.0	<0.50	<0.50	<0.50
	12/10/07	6.82	663.46	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	3/31/08	6.56	663.72	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	5/30/08	6.85	663.43	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	9/22/08	7.62	662.66	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	12/22/08	NM	NM			T		T SAMPL		T			
	3/30/09 1	6.34	663.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	5/14/09 8/10/09	6.73 7.41	663.55 662.87	<50 <50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<5.0 <5.0	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50
	11/20/09	8.41	661.87	<50 <50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0 <5.0	<0.50	<0.50	<0.50
	4/29/10	6.68	663.60	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	5/19/10						Well Dest						
MW-7	9/11/97	10.13	657.65	3,000	86	38	<5.0	27					2,700
667.78	11/5/97	8.72	659.06	15,000	2,400	3,400	280	1,600					6,000
	1/29/98 5/14/98	6.71 5.39	661.07 662.42	13,000 210,000	1,700	1,500 53,000	170	750 27,000					5,400 20,000
	6/1/98	5.53	662.25	210,000	20,000	55,000		T SAMPL	 ED				20,000
	8/12/98	6.89	660.89			NOT SAN	/IPLED - M			ICKNESS	}		-
	12/2/98	7.17	660.62				/IPLED - M		D LPH TH	ICKNESS	5		
	2/17/99	6.30	661.48	11,000	1,600	1,500	200	1,400					4,000
	5/12/99 8/4/99	6.70 8.49	661.08 659.30	11,000	1,700	1,700 NOT SAN	270 //PLED - M	1,100	 D I PH TH	ICKNESS			2,900
	11/11/99	8.76	659.02				SAMPLE				<u> </u>		
	2/15/00	7.62	660.16	7,300	1,000	920	150	840					2,000
	4/26/00	7.36	660.42	6,000	1,100	1,100	180	510					1,800
	8/14/00	8.99	658.79	970	280	190	93	310	1.3	930	<0.5	<0.5	1,000
	11/13/00 1/16/01	8.54 8.57	659.24 659.21	<50 <50	<0.5 0.5	<0.5 <0.5	0.5 1.5	<0.5 4.8	<0.5 <0.5	25 68	<0.5 <0.5	<0.5 <0.5	53 88
	4/24/01	5.80	661.98	<50	<0.5	<0.5	5.9	2.7	<0.5	15	<0.5	<0.5	72
	7/26/01	8.13	659.65	<50	<0.5	<0.5	3.4	<0.5	<0.5	67	<0.5	<0.5	70
	11/13/01	8.81	658.97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	24	<0.5	<0.5	76
	2/11/02	8.65	659.13	∠E0	0.7		SAMPLE				-0 F	-0 F	220
	5/10/02 8/5/02	8.38 9.10	659.40 658.68	<50 <50	0.7 <0.5	<0.5 <0.5	0.9 <0.5	1.0 <0.5	<0.5 <0.5	170 14	<0.5 <0.5	<0.5 <0.5	230 180
	12/2/02	8.02	659.76	<50 <50	<0.5	<0.5	<0.5	<0.5	<0.5	91	<0.5	<0.5	300
	2/18/03	7.13	660.65	210	4.5	0.6	6.5	<0.5	<0.5	71	<0.5	<0.5	380
	4/29/03	6.23	661.55	58	2.3	1.4	1.1	3.5	0.6	72	<0.5	<0.5	230

Well No./TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	т	E	х	TAME	ТВА	DIPE	ЕТВЕ	МТВЕ
MW-7	8/5/03	7.91	659.87	960	60	<5.0	50	10	<5.0	430	<0.5	<0.5	690
Cont'd	12/17/03 2/13/04	7.85 6.71	659.93	<50 232	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0 17	<0.5	<0.5	33 72
667.78	5/20/04	7.39	661.07 660.39	<50	1.0 <1.0	<5.0 <5.0	1.6 <5.0	3.6 <5.0	<1.0 <1.0	<10	<1.0 <1.0	<1.0 <1.0	28
	8/17/04	8.52	659.26	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	26
	11/1/04	6.26	661.52	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	13
	1/7/05	5.50	662.28				NO	T SAMPL	ED				,
	3/5/05	4.91	662.87	60	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<1.0	<1.0	48
	4/15/05	5.34	662.44	68	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	52
	7/25/05 10/28/05	5.56	662.22	105 132	<1.0 2.0	<5.0 7.5	<5.0 <5.0	<5.0 <5.0	<1.0	11 <10	<1.0	<1.0 <1.0	60
	1/20/06	5.96 6.11	661.82 661.67	<50	<0.50	<0.50	<0.50	<0.50	<1.0 <0.50	5.1	<1.0 <0.50	<0.50	39 34
	4/14/06	5.39	662.39	70	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	14
	7/21/06	6.92	660.86	91	<0.50	<0.50	<0.50	2.5	<0.50	<5.0	<0.50	<0.50	28
	10/23/06	7.78	660.00	92	<0.50	<0.50	<0.50	1.6	<0.50	<5.0	<0.50	<0.50	49
	2/12/07	6.56	661.22	290	1.1	<0.50	<0.50	0.96	<0.50	<5.0	<0.50	<0.50	13
	6/4/07	7.58	660.20	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	27
	9/14/07	8.38	659.40	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	51
	12/10/07	7.26	660.52 662.02	240	<0.50	<0.50 <0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	8.8 9.1
	3/31/08 5/30/08	5.76 6.70	661.08	210 360	1.4 2.2	<0.50	<0.50 <0.50	2.4 8.4	<0.50 <0.50	<5.0 <5.0	<0.50 <0.50	<0.50 <0.50	<0.50
	9/22/08	8.10	659.68	91	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	51
	12/22/08	6.46	661.32	88	<0.50	<0.50	<0.50	1.8	<0.50	<5.0	<0.50	<0.50	0.84
	3/30/09	5.75	662.03				NO	T SAMPL	ED				,
	5/14/09 <sup>1</sup>	6.62	661.16	<50	1.0	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	20
	8/11/09	8.45	659.33	79	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	33
	11/20/09	11.19	656.59	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	40
	4/29/10	5.21	662.57	<50	2.0	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	12
	12/1/10	6.30	661.48	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	20
	6/20/11	5.70	662.08				NO	T SAMPL	ED		•	•	
	12/16/11	5.73	662.05	<50	3.1	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	17
MW-8	9/11/97	10.87	652.89	5,100	72	19	480	420					79
663.76	11/5/97	8.51	655.25	750	6.1	0.6	45	42					92
	1/29/98	7.23	656.53	340	1.0	0.7	8.3	6.2					98
	5/14/98 NP	0.44	657.32	1,700	10	<5.0	64	6.2					93
	6/1/98 NP	0.72	657.34					T SAMPL	ED		1	1	1
	8/12/98 NP	7.10	656.58	3,700	23	2.8	250	10					100
	12/2/98 NP	1 7 10		•									
		7.70	656.27	280	16	<2.0	460	23					100
	2/17/99 NP	6.72	656.27 657.04	2,100	16 12	<2.0 1.0	460 280						160
	5/12/99 NP	6.72	657.04 656.88	2,100 1,700	12 10	1.0 1.0		23 2.0 1.7					160 170
	5/12/99 NP 8/4/99 NP	6.72 6.88 7.96	657.04 656.88 655.80	2,100 1,700 1,700	12 10 14	1.0 1.0 1.3	280 310 440	23 2.0 1.7 4.3					160 170 200
	5/12/99 NP 8/4/99 NP 11/11/99 NP	6.72 6.88 7.96 8.39	657.04 656.88	2,100 1,700	12 10	1.0 1.0	280 310	23 2.0 1.7					160 170
	5/12/99 NF 8/4/99 NF 11/11/99 NF 2/15/00 NF	6.72 6.88 7.96 8.39 7.73	657.04 656.88 655.80 655.37 656.03	2,100 1,700 1,700	12 10 14	1.0 1.0 1.3	280 310 440	23 2.0 1.7 4.3		 			160 170 200
	5/12/99 NF 8/4/99 NF 11/11/99 NF 2/15/00 NF 4/26/00 NF	6.72 6.88 7.96 8.39 7.73 7.39	657.04 656.88 655.80 655.37	2,100 1,700 1,700 2,400	12 10 14 11	1.0 1.0 1.3 1.4	280 310 440 620	23 2.0 1.7 4.3 3.5	  	  		  	160 170 200 250
	5/12/99 NF 8/4/99 NF 11/11/99 NF 2/15/00 NF 4/26/00 NF 8/14/00 NF	7.43 6.72 6.88 7.96 8.39 7.73 7.39 8.62	657.04 656.88 655.80 655.37 656.03	2,100 1,700 1,700 2,400 1,300	12 10 14 11 5.6	1.0 1.0 1.3 1.4 <0.5	280 310 440 620 150	23 2.0 1.7 4.3 3.5 1.0		  			160 170 200 250 290
	5/12/99 NF 8/4/99 NF 11/11/99 NF 2/15/00 NF 4/26/00 NF 8/14/00 NF 11/13/00 NF	6.72 6.88 7.96 8.39 7.73 7.39 8.62 8.60	657.04 656.88 655.80 655.37 656.03 656.37	2,100 1,700 1,700 2,400 1,300 5,900	12 10 14 11 5.6 25	1.0 1.0 1.3 1.4 <0.5 2.3	280 310 440 620 150 800	23 2.0 1.7 4.3 3.5 1.0	   			   	160 170 200 250 290 540
	5/12/99 NF 8/4/99 NP 11/11/99 NP 2/15/00 NF 4/26/00 NF 8/14/00 NP 11/13/00 NF	6.72 6.88 7.96 8.39 7.73 7.39 8.62 8.60 7.99	657.04 656.88 655.80 655.37 656.03 656.37 655.14	2,100 1,700 1,700 2,400 1,300 5,900 2,700	12 10 14 11 5.6 25 21	1.0 1.0 1.3 1.4 <0.5 2.3 1.5	280 310 440 620 150 800 250	23 2.0 1.7 4.3 3.5 1.0 17 6.2	     <0.5	     470	      <0.5	     <0.5	160 170 200 250 290 540 210
	5/12/99 NF 8/4/99 NF 11/11/99 NF 2/15/00 NF 4/26/00 NF 8/14/00 NF 11/13/00 NF 1/16/01 NF 4/24/01 NF	6.72 6.88 7.96 8.39 7.73 7.39 8.62 8.60 7.99 6.82	657.04 656.88 655.80 655.37 656.03 656.37 655.14 655.16	2,100 1,700 1,700 2,400 1,300 5,900 2,700 1,300	12 10 14 11 5.6 25 21 6.0	1.0 1.0 1.3 1.4 <0.5 2.3 1.5 <1.0	280 310 440 620 150 800 250 78	23 2.0 1.7 4.3 3.5 1.0 17 6.2 1.3	     <0.5 <1.0	    470 240	     <0.5 <1.0	     <0.5 <1.0	160 170 200 250 290 540 210 400
	5/12/99 NF 8/4/99 NF 11/11/99 NF 2/15/00 NF 4/26/00 NF 8/14/00 NF 11/13/00 NF 1/16/01 NF 4/24/01 NF 7/26/01 NF	6.72 6.88 7.96 8.39 7.73 7.39 8.62 8.60 7.99 6.82 7.65	657.04 656.88 655.80 655.37 656.03 656.37 655.14 655.16 655.77	2,100 1,700 1,700 2,400 1,300 5,900 2,700 1,300 680	12 10 14 11 5.6 25 21 6.0 3.8	1.0 1.0 1.3 1.4 <0.5 2.3 1.5 <1.0 <0.5	280 310 440 620 150 800 250 78 31	23 2.0 1.7 4.3 3.5 1.0 17 6.2 1.3 <0.5	     <0.5 <1.0 <0.5	     470 240 320	     <0.5 <1.0 <0.5	     <0.5 <1.0 <0.5	160 170 200 250 290 540 210 400 370
	5/12/99 NF 8/4/99 NF 11/11/99 NF 2/15/00 NF 4/26/00 NF 11/13/00 NF 11/13/00 NF 1/16/01 NF 4/24/01 NF 7/26/01 NF	6.72 6.88 7.96 8.39 7.73 7.39 8.62 8.60 7.99 6.82 7.65	657.04 656.88 655.80 655.37 656.03 656.37 655.14 655.16 655.77 656.94	2,100 1,700 1,700 2,400 1,300 5,900 2,700 1,300 680 890	12 10 14 11 5.6 25 21 6.0 3.8 7.0	1.0 1.0 1.3 1.4 <0.5 2.3 1.5 <1.0 <0.5 <0.5	280 310 440 620 150 800 250 78 31 23	23 2.0 1.7 4.3 3.5 1.0 17 6.2 1.3 <0.5	     <0.5 <1.0 <0.5 <0.5	    470 240 320 200	     <0.5 <1.0 <0.5 <0.5	     <0.5 <1.0 <0.5 <0.5	160 170 200 250 290 540 210 400 370 590
	5/12/99 NF 8/4/99 NF 11/11/99 NF 2/15/00 NF 4/26/00 NF 8/14/00 NF 11/13/00 NF 1/16/01 NF 4/24/01 NF 7/26/01 NF 11/13/01 NF 2/11/02 NF	6.72 6.88 7.96 8.39 7.73 7.39 8.62 8.60 7.99 6.82 7.65 8.20 7.86	657.04 656.88 655.80 655.37 656.03 656.37 655.14 655.16 655.77 656.94 656.11 655.56 655.90	2,100 1,700 1,700 2,400 1,300 5,900 2,700 1,300 680 890 1,500 500 750	12 10 14 11 5.6 25 21 6.0 3.8 7.0	1.0 1.0 1.3 1.4 <0.5 2.3 1.5 <1.0 <0.5 <0.5 <0.5 <2.0 <2.0	280 310 440 620 150 800 250 78 31 23 160 <2.0 <2.0	23 2.0 1.7 4.3 3.5 1.0 17 6.2 1.3 <0.5 1.1 <0.5 <2.0	    <0.5 <1.0 <0.5 <0.5 <0.5 <2.0	    470 240 320 200 650 330 460	     <0.5 <1.0 <0.5 <0.5 <0.5 <0.5		160 170 200 250 290 540 210 400 370 590 720 730 910
	5/12/99 NF 8/4/99 NF 11/11/99 NF 2/15/00 NF 4/26/00 NF 8/14/00 NF 11/13/00 NF 1/16/01 NF 4/24/01 NF 7/26/01 NF 11/13/01 NF 2/11/02 NF	7.49 6.72 6.88 7.96 8.39 7.73 7.39 8.62 8.60 7.99 6.82 7.65 8.20 7.86 7.89	657.04 656.88 655.80 655.37 656.03 656.37 655.14 655.16 655.77 656.94 656.11 655.56 655.90 655.87	2,100 1,700 1,700 2,400 1,300 5,900 2,700 1,300 680 890 1,500 500 750	12 10 14 11 5.6 25 21 6.0 3.8 7.0 13 3.3 2.8 0.6	1.0 1.0 1.3 1.4 <0.5 2.3 1.5 <1.0 <0.5 <0.5 <0.5 <2.0 <2.0 <0.5	280 310 440 620 150 800 250 78 31 23 160 <2.0 <2.0 2.3	23 2.0 1.7 4.3 3.5 1.0 17 6.2 1.3 <0.5 1.1 <0.5 <2.0 <2.0 <0.5		    470 240 320 200 650 330 460 540	     <0.5 <1.0 <0.5 <0.5 <0.5 <3.0 <2.0 <0.5		160 170 200 250 290 540 210 400 370 590 720 730 910 580
	5/12/99 NF 8/4/99 NF 11/11/99 NF 2/15/00 NF 4/26/00 NF 8/14/00 NF 11/13/00 NF 1/16/01 NF 7/26/01 NF 7/26/01 NF 11/13/01 NF 2/11/02 NF 5/10/02 8/5/02	6.72 6.88 7.96 8.39 7.73 7.39 8.62 8.60 7.99 6.82 7.65 8.20 7.86 7.89 8.54	657.04 656.88 655.80 655.37 656.03 656.37 655.14 655.16 655.77 656.94 656.11 655.56 655.90 655.87	2,100 1,700 1,700 2,400 1,300 5,900 2,700 1,300 680 890 1,500 500 750 250 150	12 10 14 11 5.6 25 21 6.0 3.8 7.0 13 3.3 2.8 0.6 <0.5	1.0 1.0 1.3 1.4 <0.5 2.3 1.5 <1.0 <0.5 <0.5 <0.5 <2.0 <2.0 <0.5 <0.5 <0.5	280 310 440 620 150 800 250 78 31 23 160 <2.0 <2.0 <2.0 2.3 5.6	23 2.0 1.7 4.3 3.5 1.0 17 6.2 1.3 <0.5 1.1 <0.5 <2.0 <2.0 <0.5 <0.5		    470 240 320 200 650 330 460 540 93			160 170 200 250 290 540 210 400 370 590 720 730 910 580 660
	5/12/99 NF 8/4/99 NF 11/11/99 NF 2/15/00 NF 4/26/00 NF 11/13/00 NF 11/13/00 NF 1/16/01 NF 7/26/01 NF 11/13/01 NF 2/11/02 NF 5/10/02 8/5/02 12/2/02	6.72 6.88 7.96 8.39 7.73 7.39 8.62 8.60 7.99 6.82 7.65 8.20 7.86 7.89 8.54 7.89	657.04 656.88 655.80 655.37 656.03 656.37 655.14 655.16 655.77 656.94 656.11 655.56 655.90 655.87 655.22	2,100 1,700 1,700 2,400 1,300 5,900 2,700 1,300 680 890 1,500 500 750 250 150	12 10 14 11 5.6 25 21 6.0 3.8 7.0 13 3.3 2.8 0.6 <0.5 <0.5	1.0 1.0 1.3 1.4 <0.5 2.3 1.5 <1.0 <0.5 <0.5 <0.5 <2.0 <2.0 <0.5 <0.5 <0.5 <0.5	280 310 440 620 150 800 250 78 31 23 160 <2.0 <2.0 2.3 5.6 4.0	23 2.0 1.7 4.3 3.5 1.0 17 6.2 1.3 <0.5 1.1 <0.5 <2.0 <2.0 <0.5 <0.5 <0.5 <0.5		    470 240 320 200 650 330 460 540 93 170			160 170 200 250 290 540 210 400 370 590 720 730 910 580 660 510
	5/12/99 NF 8/4/99 NF 11/11/99 NF 2/15/00 NF 4/26/00 NF 11/13/00 NF 11/13/00 NF 1/16/01 NF 7/26/01 NF 11/13/01 NF 2/11/02 NF 2/11/02 NF 5/10/02 8/5/02 12/2/02 2/18/03	6.72 6.88 7.96 8.39 7.73 7.39 8.62 8.60 7.99 6.82 7.65 8.20 7.86 7.89 8.54 7.89	657.04 656.88 655.80 655.37 656.03 656.37 655.14 655.16 655.77 656.94 656.11 655.56 655.90 655.87 655.22 655.87 656.51	2,100 1,700 1,700 2,400 1,300 5,900 2,700 1,300 680 890 1,500 500 750 250 150 120 230	12 10 14 11 5.6 25 21 6.0 3.8 7.0 13 3.3 2.8 0.6 <0.5 <0.5	1.0 1.0 1.3 1.4 <0.5 2.3 1.5 <1.0 <0.5 <0.5 <0.5 <2.0 <2.0 <0.5 <0.5 <0.6	280 310 440 620 150 800 250 78 31 23 160 <2.0 <2.0 2.3 5.6 4.0 5.4	23 2.0 1.7 4.3 3.5 1.0 17 6.2 1.3 <0.5 1.1 <0.5 <2.0 <2.0 <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 <0.5 <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 <0.5 <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		    470 240 320 200 650 330 460 540 93 170 42			160 170 200 250 290 540 210 400 370 590 720 730 910 580 660 510 540
	5/12/99 NF 8/4/99 NF 11/11/99 NF 2/15/00 NF 4/26/00 NF 11/13/00 NF 11/13/00 NF 11/13/01 NF 7/26/01 NF 11/13/01 NF 2/11/02 NF 5/10/02 8/5/02 12/2/02 2/18/03 4/29/03	6.72 6.88 7.96 8.39 7.73 7.39 8.62 8.60 7.99 6.82 7.65 8.20 7.86 7.89 8.54 7.89	657.04 656.88 655.80 655.37 656.03 656.37 655.14 655.16 655.77 656.94 656.11 655.56 655.90 655.87 655.22 655.87 656.51 657.06	2,100 1,700 1,700 2,400 1,300 5,900 2,700 1,300 680 890 1,500 750 250 150 120 230 400	12 10 14 11 5.6 25 21 6.0 3.8 7.0 13 3.3 2.8 0.6 <0.5 <0.5	1.0 1.0 1.3 1.4 <0.5 2.3 1.5 <1.0 <0.5 <0.5 <0.5 <2.0 <2.0 <0.5 <0.5 <0.5 <0.5 <2.8	280 310 440 620 150 800 250 78 31 23 160 <2.0 <2.0 2.3 5.6 4.0 5.4	23 2.0 1.7 4.3 3.5 1.0 17 6.2 1.3 <0.5 1.1 <0.5 <2.0 <2.0 <0.5 <0.5 <0.5 <1.3		   470 240 320 200 650 330 460 540 93 170 42 210			160 170 200 250 290 540 210 400 370 590 720 730 910 580 660 510 540 510
	5/12/99 NF 8/4/99 NF 11/11/99 NF 2/15/00 NF 4/26/00 NF 11/13/00 NF 11/13/00 NF 1/16/01 NF 7/26/01 NF 11/13/01 NF 2/11/02 NF 2/11/02 NF 5/10/02 8/5/02 12/2/02 2/18/03	6.72 6.88 7.96 8.39 7.73 7.39 8.62 8.60 7.99 6.82 7.65 8.20 7.86 7.89 8.54 7.89	657.04 656.88 655.80 655.37 656.03 656.37 655.14 655.16 655.77 656.94 656.11 655.56 655.90 655.87 655.22 655.87 656.51	2,100 1,700 1,700 2,400 1,300 5,900 2,700 1,300 680 890 1,500 500 750 250 150 120 230	12 10 14 11 5.6 25 21 6.0 3.8 7.0 13 3.3 2.8 0.6 <0.5 <0.5	1.0 1.0 1.3 1.4 <0.5 2.3 1.5 <1.0 <0.5 <0.5 <0.5 <2.0 <2.0 <0.5 <0.5 <0.6	280 310 440 620 150 800 250 78 31 23 160 <2.0 <2.0 2.3 5.6 4.0 5.4	23 2.0 1.7 4.3 3.5 1.0 17 6.2 1.3 <0.5 1.1 <0.5 <2.0 <2.0 <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 <0.5 <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 <0.5 <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		    470 240 320 200 650 330 460 540 93 170 42			160 170 200 250 290 540 210 400 370 590 720 730 910 580 660 510 540
	5/12/99 NP 8/4/99 NP 11/11/99 NP 2/15/00 NP 4/26/00 NP 8/14/00 NP 11/13/00 NP 11/13/00 NP 1/16/01 NP 1/26/01 NP 11/13/01 NP 2/11/02 NP 5/10/02 8/5/02 12/2/02 2/18/03 4/29/03 8/5/03	6.72 6.88 7.96 8.39 7.73 7.39 8.62 8.60 7.99 6.82 7.65 8.20 7.86 7.89 8.54 7.89 7.25 6.70	657.04 656.88 655.80 655.37 656.03 656.37 655.14 655.16 655.77 656.94 656.11 655.56 655.90 655.87 655.22 655.87 656.51 657.06	2,100 1,700 1,700 2,400 1,300 5,900 2,700 1,300 680 890 1,500 500 750 250 150 120 230 400 <200	12 10 14 11 5.6 25 21 6.0 3.8 7.0 13 3.3 2.8 0.6 <0.5 <0.5 0.9 2.3 2.5	1.0 1.0 1.3 1.4 <0.5 2.3 1.5 <1.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0	280 310 440 620 150 800 250 78 31 23 160 <2.0 <2.0 2.3 5.6 4.0 5.4 16 2.9	23 2.0 1.7 4.3 3.5 1.0 17 6.2 1.3 <0.5 1.1 <0.5 <2.0 <2.0 <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 <0.5 <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 <0.5 <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		    470 240 320 200 650 330 460 540 93 170 42 210 94			160 170 200 250 290 540 210 400 370 590 720 730 910 580 660 510 540 510 950

Well No./TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	т	E	х	TAME	ТВА	DIPE	ЕТВЕ	МТВЕ
MW-8	8/17/04	8.14	655.62	171	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	183
Cont'd	11/1/04	6.79	656.97	163	1.2	<5.0	8.8	<5.0	<1.0	20	<1.0	<1.0	90
663.76	1/7/05	6.02	657.74	285	8.1	7.4	14	16	<1.0	15	<1.0	<1.0	66
	4/15/05 7/25/05	5.81 6.16	657.95 657.60	325 369	1.8 1.8	<5.0 <5.0	53 51	<5.0 <5.0	<1.0 <1.0	25 20	<1.0 <1.0	<1.0 <1.0	73 62
	10/28/05	6.42	657.34	337	1.6	<5.0 <5.0	25	<5.0 <5.0	<1.0	12	<1.0	<1.0	65
	1/20/06	6.42	657.34	410	1.0	<0.50	16	<0.50	<0.50	11	<0.50	<0.50	41
	4/14/06	5.83	657.93	460	0.96	<0.50	23	<0.50	<0.50	16	<0.50	<0.50	36
	7/21/06	6.92	656.84	94	<0.50	<0.50	1.8	<0.50	<0.50	8.7	<0.50	<0.50	30
	10/23/06	7.42	656.34	200	0.93	<0.50	6.8	<0.50	<0.50	8.3	<0.50	< 0.50	40
	2/12/07	7.12	656.64	440	0.94	<0.50	19	<0.50	<0.50	6.5	<0.50	<0.50	33
	6/4/07	7.59	656.17	140	<0.50	<0.50	2.8	<0.50	<0.50	12	<0.50	<0.50	34
	9/14/07	8.10	655.66	160	<0.50	<0.50	4.4	<0.50	<0.50	<5.0	<0.50	<0.50	9.6
	12/10/07	7.72	656.04	71	<0.50	1.5	0.62	3.0	<0.50	<5.0	<0.50	<0.50	7.1
	3/31/08	6.67	657.09	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	4.0
	5/30/08	7.64	656.12	380	<0.50	<0.50	5.9	<0.50	<0.50	<5.0	<0.50	<0.50 <0.50	10
	9/22/08 12/22/08	8.81 7.50	654.95 656.26	<50 79	<0.50 <0.50	<0.50 <0.50	<0.50 2.4	<0.50 <0.50	<0.50 <0.50	<5.0 7.6	<0.50 <0.50	<0.50	4.4 5.1
	3/30/09	6.70	657.06	<50	<0.50	1.7	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	7.4
	5/14/09	7.25	656.51	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	0.92
	8/11/09	8.70	655.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	0.74
	11/20/09	12.70	651.06	86	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	1.1
	4/29/10	6.05	657.71	62	<0.50	0.70	1.1	2.8	<0.50	30	<0.50	<0.50	19
	12/1/10	7.33	656.43	84	1.1	2.4	2.0	7.9	<0.50	17	<0.50	<0.50	24
	6/20/11	6.59	657.17	<50	0.62	0.75	0.62	1.5	<0.50	17	<0.50	<0.50	30
	12/16/11	6.94	656.82	<50	<0.50	<0.50	<0.50	<0.50	<0.50	20	<0.50	<0.50	20
MW-9	9/11/97	10.82	652.49	4,200	16	3.8	44	32					300
663.31	11/5/97	8.79	654.52	1,000	8.9	1.5	22	8					680
	1/29/98	7.59	655.72	1,300	22	3.0	34	25					330
	5/14/98	6.81	656.50	460	6.3	1.8	15	8.6					160
	6/1/98	6.88	656.43		ı	1		T SAMPL	1	1			1
	8/12/98	7.31	656.00	380	2.9	<0.5	10	4.6					240
	12/2/98	7.36	655.95	800	2.0	<0.5	10	1.9					520
	2/17/99	6.70	656.61 656.34	800 960	3.4 2.3	<0.5 <0.5	14 24	2.4 7.2					560 600
	5/12/99 8/4/99	6.97 7.95	655.36	1,100	1.8	<0.5	11	2.0					870
	11/11/99	8.32	654.99	120	0.5	<0.5	5.2	<0.5					880
	2/15/00	7.69	655.62	130	0.6	<0.5	3.8	<0.5					790
	4/26/00	7.42	655.89	120	0.9	<0.5	10	1.7					730
	8/14/00	8.57	654.74	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	3.5
	11/13/00	8.60	654.71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	170	<0.5	<0.5	630
	1/16/01	7.88	655.43	240	14	<2.0	4.2	<2.0	<2.0	370	<2.0	<2.0	1,200
	4/24/01	6.81	656.50	84	0.6	<0.5	4.7	<0.5	<0.5	67	<0.5	<0.5	370
	7/26/01	7.65	655.66	130	<0.5	0.7	4.3	<0.5	<0.5	55	<0.5	<0.5	190
	11/13/01	8.13	655.18	160	<0.5	<0.5	4.7	<0.5	<0.5	42	<0.5	<0.5	200
	2/11/02 5/10/02	7.81	655.50 655.51	83 190	<0.5 0.8	0.5 <0.5	2.9	<0.5 <0.5	<0.5	100 230	<0.5 <0.5	<0.5 <0.5	210 220
	8/5/02	7.80 8.45	654.86	120	<0.5	<0.5	13 4	<0.5	<0.5 <0.5	18	<0.5	<0.5	330
	12/2/02	7.77	655.54	210	0.5	<0.5	9.2	<0.5	<0.5	150	<0.5	<0.5	410
	2/18/03	7.12	656.19	260	0.8	0.6	13	<0.5	<0.5	6.7	<0.5	<0.5	260
	4/29/03	6.67	656.64	280	1.1	1.2	17	2	<0.5	32	<0.5	<0.5	130
	8/5/03	7.51	655.80	140	<0.5	<0.5	9.3	<0.5	<0.5	7.9	<0.5	<0.5	240
	12/17/03	7.48	655.83	230	0.8	<0.5	11	<0.5	<0.5	22	<0.5	<0.5	160
	2/13/04	7.03	656.28	241	<1.0	<5.0	7.9	<5.0	<1.0	<10	<1.0	<1.0	88
	5/20/04	7.16	656.15	168	<1.0	<5.0	10	<5.0	<1.0	10	<1.0	<1.0	66
	8/17/04	8.01	655.30	146	<1.0	<5.0	9.7	<5.0	<1.0	<10	<1.0	<1.0	63
	11/1/04	6.55	656.76	127	<1.0	<5.0	8.2	<5.0	<1.0	<10	<1.0	<1.0	55
	1/7/05	6.81	656.50	183	<1.0	<5.0	22	<5.0	<1.0	<10	<1.0	<1.0	35
	4/15/05	5.86	657.45	297	<1.0	<5.0	48	<5.0 <5.0	<1.0	<10	<1.0	<1.0	37
	7/25/05 10/28/05	6.15 6.34	657.16 656.97	288 214	<1.0 <1.0	<5.0 <5.0	38 22	<5.0 <5.0	<1.0 <1.0	<10 <10	<1.0 <1.0	<1.0 <1.0	35 29
	1/20/06	6.33	656.98	420	<0.50	<0.50	23	0.80	<0.50	<5.0	<0.50	<0.50	29
	4/14/06	5.76	657.55	590	0.62	<0.50	35	1.1	<0.50	<5.0	<0.50	<0.50	29
1		, ,		300		0.50			, 5.50		5.50	, ,,,,,,	

Well No./TOC (ft/MSL)	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	т	E	x	TAME	ТВА	DIPE	ЕТВЕ	МТВЕ
MW-9	7/21/06	6.89	656.42	430	0.62	<0.50	22	0.72	<0.50	<5.0	<0.50	<0.50	33
Cont'd	10/23/06	7.33	655.98	190	<0.50	<0.50	5	<0.50	<0.50	<5.0	<0.50	<0.50	32
663.31	2/12/07	7.03	656.28	330	<0.50	<0.50	14	<0.50	<0.50	<5.0	<0.50	<0.50	28
	6/4/07	7.44	655.87	600	0.59	<0.50	19	0.59	<0.50	<5.0	<0.50	<0.50	25
	9/14/07	7.91	655.40	450	<0.50	<0.50	14	<0.50	<0.50	<5.0	<0.50	<0.50	23
	12/10/07 3/31/08	7.46 6.50	655.85 656.81	260 240	<0.50 <0.50	0.63 <0.50	7.4 8.5	2.1 <0.50	<0.50 <0.50	<5.0 <5.0	<0.50 <0.50	<0.50 <0.50	24 18
	5/30/08	7.57	655.74	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0 <5.0	<0.50	<0.50	11
	9/22/08	8.79	654.52	210	<0.50	<0.50	5.6	<0.50	<0.50	<5.0	<0.50	<0.50	21
	12/22/08	7.06	656.25	<50	<0.50	<0.50	<0.5	<0.50	<0.50	<5.0	<0.50	<0.50	13
	3/30/09	6.60	656.71	71	<0.50	<0.50	<0.5	<0.50	<0.50	<5.0	<0.50	<0.50	10
	5/14/09 <sup>1</sup>	7.32	655.99	150	<0.50	<0.50	2.0	<0.50	<0.50	<5.0	<0.50	<0.50	10
	8/10/09	8.69	654.62	95	<0.50	<0.50	1.6	<0.50	<0.50	<5.0	<0.50	<0.50	14
	11/20/09	12.45	650.86	72	<0.50	<0.50	0.80	<0.50	<0.50	<5.0	<0.50	<0.50	18
	4/29/10	6.23	657.08	150	<0.50	<0.50	4.8	<0.50	<0.50	<5.0	<0.50	<0.50	7.4
	12/1/10	7.05	656.26	60	<0.50	<0.50	1.4	<0.50	<0.50	<5.0	<0.50	<0.50	10
	6/20/11	6.70	656.61	- 00	10.00	10.00		T SAMPL		10.0	1 0.00	10.00	
	12/16/11	6.73	656.58	<50	<0.50	<0.50	0.96	<0.50	<0.50	<5.0	<0.50	<0.50	9.1
MW-10	5/14/98	NM	NM										
659.51	6/1/98	8.24	651.27	<50	<0.5	<0.5	<0.5	<0.5					0.7
	8/12/98	8.77	650.74	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	12/2/98 NP	8.84	650.67	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	2/17/99 NP	8.32	651.19	<50	<0.5	<0.5	<0.5	<0.5					1.3
	5/12/99 NP	8.58	650.93	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	8/4/99 NP	9.69	649.82	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	11/11/99 NP	9.93	649.58	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	2/15/00 NP	9.32	650.19	<50	<0.5	<0.5	<0.5	<0.5					0.5
	4/26/00 NP	8.84	650.67	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	8/14/00 NP		648.97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	11/13/00 NP	11.88	647.63	<50 <50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	1/16/01 NP	10.85	648.66	<50 <50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	1/10/01												
	4/24/01	9.21	650.30	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	1120/01	10.75	648.76	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	1.2
	11/13/01	11.37	648.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	2/11/02	10.79	648.72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	5/10/02 8/5/02	10.80 12.71	648.71 646.80	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<5.0 <5.0	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
	12/2/02	11.27	648.24	<50 <50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0 <5.0	<0.5	<0.5	<0.5
	2/18/03	10.03	649.48	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	4/29/03	9.41	650.10	<50	<0.5	1.3	<0.5	1.8	<0.5	<5.0	<0.5	<0.5	<0.5
	8/5/03	10.97	648.54	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	4.4
	12/17/03	10.76	648.75	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.0
	2/13/04	10.09	649.42	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	5/20/04	10.40	649.11	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	8/17/04	11.89	647.62	<50	<1.0	<5.0	<5.0	<5.0 <5.0	<1.0	<10	<1.0	<1.0	<1.0
	11/1/04 1/7/05	8.52 8.22	650.99 651.29	<50 <50	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<1.0 <1.0	<10 <10	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0
	4/15/05	8.65	650.86	<50 <50	<1.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<1.0	<10	<1.0	<1.0	<1.0
	7/25/05	9.69	649.82	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	10/28/05	9.79	649.72	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	1/20/06	9.93	649.58	<50	<0.50	<0.50	<0.50	<0.50	<0.50	5.1	<0.50	<0.50	<0.50
	4/14/06	8.78	650.73	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	7/21/06	10.46	649.05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	10/23/06	10.88	648.63	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	2/12/07	9.16	650.35	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	6/4/07 9/14/07	10.41 10.97	649.10 648.54	<50 <50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 0.54	<0.50 <0.50	<5.0 <5.0	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50
	12/10/07	10.97	649.07	130	<0.50	4.3	<0.50	7.0	<0.50	<5.0 <5.0	<0.50	<0.50	<0.50
	3/31/08	9.10	650.41	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	5/30/08	10.68	648.83	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
		<del>-</del>							• • • • • • • • • • • • • • • • • • • •	·		• • • • •	

Well No./TOC	Date	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	Т	E	х	TAME	ТВА	DIPE	ЕТВЕ	МТВЕ
(ft/MSL)			, ,	= -									
MW-10 Cont'd	9/22/08 12/22/08	12.88 9.30	646.63 650.21	<50 <50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<5.0 <5.0	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50
659.51	3/30/09	9.30	650.41	<50 <50	<0.50	1.9	<0.50	<0.50	<0.50	<5.0 <5.0	<0.50	<0.50	<0.50
000.01	5/14/09	10.34	649.17	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	8/11/09	13.60	645.91	<50	<0.50	<0.50	<0.50	<0.50	< 0.50	<5.0	<0.50	<0.50	<0.50
	11/20/09						DRY - NO						
	4/29/10	8.73	650.78	<50	<0.50	<0.50	<0.50	0.87	<0.50	<5.0	<0.50	<0.50	<0.50
	12/1/10	9.92	649.59	<50	0.63	1.5	0.89	5.0	<0.50	<5.0	<0.50	<0.50	<0.50
	6/20/11 12/16/11	9.97 9.54	649.54 649.97	<50	<0.50	<0.50	<0.50	T SAMPL <0.50	<0.50	<5.0	<0.50	<0.50	<0.50
MW-11	5/14/98	NM	NM	<b></b>				~0.50 		~5.0 			
664.19	6/1/98	6.68	657.51	<50	<0.5	<0.5	<0.5	<0.5					5.5
	8/12/98	7.58	656.61	<50	<0.5	<0.5	<0.5	<0.5					8.2
	12/2/98	7.72	656.47	<50	<0.5	<0.5	<0.5	<0.5					6.6
	2/17/99	7.18	657.01	<50	<0.5	<0.5	<0.5	<0.5					3.5
	5/12/99	7.38	656.81	<50	<0.5	<0.5	<0.5	<0.5					1.3
	8/4/99	8.44	655.75	<50	<0.5	<0.5	<0.5	<0.5					3.4
	11/11/99 2/15/00	8.84 8.13	655.35 656.06	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5					13 11
	4/26/00	7.84	656.35	<50	<0.5	1.2	<0.5	1.3					5.0
	8/14/00	9.07	655.12	190	<0.5	<0.5	5.4	<0.5	<0.5	150	<0.5	<0.5	1,200
	11/13/00	8.91	655.28	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	7.6
	1/16/01	8.28	655.91	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	4.7
	4/24/01	7.30	656.89	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.4
	7/26/01	7.99	656.20	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.9
	11/13/01	8.48	655.71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.0
	2/11/02	8.23 8.25	655.96	<50	<0.5	<0.5	<0.5	<0.5	<0.5	6.2	<0.5	<0.5	10
	5/10/02 8/5/02	8.96	655.94 655.23	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<5.0 <5.0	<0.5 <0.5	<0.5 <0.5	1.8 2.4
	12/2/02	8.25	655.94	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	3.4
	2/18/03	7.62	656.57	<50	<0.5	0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.8
	4/29/03	7.12	657.07	<50	<0.5	1.2	<0.5	1.2	<0.5	<5.0	<0.5	<0.5	1.9
	8/5/03	8.00	656.19	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.3
	12/17/03	7.88	656.31	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	2.1
	2/13/04	7.45	656.74	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	5/20/04	7.63	656.56	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	8/17/04 11/1/04	8.55 7.02	655.64 657.17	<50 <50	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<1.0 <1.0	<10 <10	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0
	1/7/05	6.33	657.86	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	4/15/05	6.31	657.88	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	7/25/05	6.55	657.64	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	10/28/05	6.78	657.41	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	1/20/06	6.75	657.44	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	4/14/06	6.16	658.03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	7/21/06	7.30	656.89	<50 <50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	10/23/06 2/12/07	7.75 7.54	656.44 656.65	<50 <50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<5.0 <5.0	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50
	6/4/07	8.00	656.19	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	9/14/07	8.51	655.68	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	12/10/07	8.15	656.04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	0.70
	3/31/08	7.13	657.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	5/30/08	8.10	656.09	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	9/22/08	8.41	655.78	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	1.8
	12/22/08 3/30/09	7.87 7.29	656.32	<50 <50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50	<5.0 <5.0	<0.50	<0.50 <0.50	1.3 <0.50
	,		656.90						<0.50		<0.50		
	5/14/09	7.85	656.34	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	8/10/09	9.38	654.81	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	0.56
	11/20/09	14.26	649.93	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	6.6
	4/29/10	6.82	657.37	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/1/10	7.62	656.57	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/20/11	7.05	657.14					T SAMPL					
	12/16/11	7.22	656.97	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

7-Eleven Store No. 16439

All concentrations in micrograms per liter (ug/L).

662.72	5/14/98 6/1/98 8/12/98 12/2/98	DTW (ft)	GW Elev. (ft/MSL)	TPHg	В	т	Е	Х	TAME	ТВА	DIPE	ETBE	MTDE
MW-12 662.72	6/1/98 8/12/98		(IT/WISL)										MTBE
662.72	6/1/98 8/12/98												
	8/12/98		NM										
		9.58	653.14	1,100	3.0	<0.5	16	27					110
	12/2/08	10.28	652.44	260	1.4	<0.5	4.3	5.7					41
		10.52	652.20	<50	<0.5	<0.5	<0.5	<0.5					1.6
	2/17/99	10.42	652.30	72	<0.5	<0.5	1.0	1.3					6.9
	5/12/99	10.50	652.22	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	8/4/99	10.84	651.88	<50	<0.5	<0.5	1.7	2.2					<0.5
	11/11/99	10.90	651.82	<50	<0.5	<0.5	<0.5	<0.5					<0.5
	2/15/00	10.78	651.94	<50	<0.5	<0.5	0.5	<0.5					2.5
	4/26/00	10.72	652.00	<50	<0.5	<0.5	0.8	0.6					2.7
	8/14/00	11.18	651.54	330	2.1	2.9	16	19	<0.5	20	<0.5	<0.5	8.5
	11/13/00	11.45	651.27	860	4.4	<0.5	37	35	<0.5	<5.0	<0.5	<0.5	5.2
	1/16/01	11.26	651.46	<50	<0.5	<0.5	0.8	0.7	<0.5	<5.0	<0.5	<0.5	0.5
	4/24/01	10.67	652.05	450	1.0	<0.5	18	15	<0.5	55	<0.5	<0.5	140
	7/26/01	11.11	651.61	370	1.1	<0.5	18	17	<0.5	<5.0	<0.5	<0.5	7.0
	11/13/01	11.29	651.43	360	0.8	<0.5	16	14	<0.5	<5.0	<0.5	<0.5	10
	2/11/02	11.11	651.61	72	<0.5	<0.5	6.0	3.9	<0.5	7.5	<0.5	<0.5	20
	5/10/02 8/5/02	11.15 11.38	651.57 651.34	<50 <50	<0.5 <0.5	<0.5 1.0	2.1 <0.5	1.0 <0.5	<0.5 <0.5	12 <5.0	<0.5 <0.5	<0.5 <0.5	13 3.8
	12/2/02	11.30	651.54	<50 <50	<0.5	0.8	<0.5	<0.5	<0.5	10.0	<0.5	<0.5	35
	2/18/03	10.94	651.78	<50 <50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	6.6
	4/29/03	10.94	652.02	<50 <50	<0.5	<0.5	0.5	<0.5	<0.5	<5.0 <5.0	<0.5	<0.5	12
	8/5/03	11.14	651.58	<50	<0.5	<0.5	0.5	<0.5	<0.5	<5.0	<0.5	<0.5	7.1
<del> </del>	12/17/03	11.17	651.55	<50	<0.5	<0.5	0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
	2/13/04	10.96	651.76	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	5/20/04	10.98	651.74	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	1.0
	8/17/04	11.27	651.45	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	11/1/04	10.64	652.08	79	<1.0	<5.0	7.3	<5.0	<1.0	<10	<1.0	<1.0	13
	1/7/05	10.32	652.40	51	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	11
	4/15/05	10.45	652.27	70	<1.0	<5.0	6.1	<5.0	<1.0	<10	<1.0	<1.0	11
	7/25/05	10.79	651.93	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	2.7
	10/28/05	10.88	651.84	<50	<1.0	<5.0	<5.0	<5.0	<1.0	<10	<1.0	<1.0	<1.0
	1/20/06	10.91	651.81	59	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	4/14/06	10.66	652.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	0.83
	7/21/06	11.06	651.66	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	10/23/06	11.23	651.49	96	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	2/12/07	11.12	651.60	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	6/4/07	11.19	651.53	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	0.71
	9/14/07	11.35	651.37	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	12/10/07	11.19	651.53	<50	<0.50	0.85	<0.50	1.6	<0.50	<5.0	<0.50	<0.50	<0.50
	3/31/08	10.93	651.79	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	1.1
	5/30/08	11.81	650.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	9/22/08	12.22	650.50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	12/22/08	10.80	651.92	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	3/30/09 1	11.23	651.49	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	5/14/09	11.92	650.80	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	8/10/09	12.45	650.27	<50	<0.50	<0.50	<0.50	<0.50	< 0.50	<5.0	<0.50	<0.50	<0.50
7	11/20/09	15.00	647.72	240	<0.50	<0.50	4.5	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	4/29/10 1	11.02	651.70	<50	<0.50	<0.50	0.71	0.69	<0.50	<5.0	<0.50	<0.50	<0.50
	12/1/10	11.19	651.53	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	6/20/11			-50	٠٥.٥٥	٠٥.٥٥				1 -0.0	10.00	1 -0.00	10.00
		11.50	651.22	<b>4</b> F0	<b>20.50</b>	<b>20.50</b>		T SAMPL		4F.0	<b>20.50</b>	<0.50	<b>20.50</b>
	<u>12/16/11</u>	11.11	651.61 s data obtair	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50

TOC = Top of Casing

No. = Number

ft/MSL = Feet above/mean sea level

DTW = Depth to water

TPHg = Total petroleum hydrocarbons characterized as gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Total Xylenes

TAME = T-amyl methyl ether

TBA = T-butyl alcohol

DIPE = Di isopropyl ether

ETBE = Ethyl-t-butyl ether

MTBE = Methyl-t-butyl ether

NP = No purge sample obtained

NM = Not measured

-- = Not analyzed

<# = Results below laboratory reporting</pre> limits.

<sup>1</sup> = Well purged and sampled one day after gauging.

# TABLE 2 WELL CONSTRUCTION SUMMARY

7-Eleven Store No. 16439

Well Identification	Date of Construction	Borehole Total Depth (feet bgs)	Screened Interval (feet bgs)	Well Casing Diameter (inches)
MW-1	12/20/93	37	20-36	2
MW-2	unknown	22	unknown	4
MW-3	unknown	17	unknown	4
MW-4	unknown	25	unknown	4
MW-5	unknown	25	unknown	4
MW-6	unknown	25	unknown	4
MW-7	08/28/97	25	5-25	4
MW-8	08/28/97	25	5-25	2
MW-9	08/29/97	25	5-25	2
MW-10	04/28/98	22	2-22	2
MW-11	04/01/98	25	5-25	2
MW-12	04/28/98	25	5-25	2
VE-1/AS-1	10/01/98	20	4-10/18-20	4/1
VE-2/AS-2	10/01/98	20	4-10/18-20	4/1
VE-3/AS-3	10/01/98	20	4-10/18-20	4/1
VE-4/AS-4	10/20/99	14.5	4-10/12.5-14.5	4/1
VE-5/AS-5	10/20/99	14.5	4-10/12.5-14.5	4/1
VE-6/AS-6	10/20/99	17.5	4-10/15.5-17.5	4/1
VE-7/AS-7	10/20/99	20	4-10/18-20	4/1
VE-8/AS-8	10/20/99	17	4-10/15-17	4/1

Notes:

bgs = Below ground surface

# TABLE 3 SOIL VAPOR EXTRACTION SYSTEM SAMPLE ANALYTICAL RESULTS 7-Eleven Store No. 16439

All concentrations in parts per million by volume (ppmv).

Vapor Sample	Sampling	Total Volatile	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
Identification	Date	Hydrocarbons				,	
Influent (No Dilution)	02/17/00	8,100	170	230	37	160	<5.0
Process (With Dilution)		1,100	18	43	4.700	21	<0.5
Effluent		2.9	0.021	0.025	0.003	0.016	0.004
Influent (No Dilution)	03/02/00	6,400	96	370	27	100	66
Process (With Dilution)		650	6.0	44	12	60	<0.5
Effluent	1	<0.1	<0.001	<0.001	<0.001	<0.001	0.013
Influent (No Dilution)	04/03/00	1,300	11	60	14	120	15.000
Process (With Dilution)	1	50	0.400	2.500	0.440	3.600	0.740
Effluent		2.4	0.006	0.056	0.038	0.170	0.010
Influent (No Dilution)	05/02/00	3,800	15	71	16	220	11
Process (With Dilution)		350	1.300	6.100	1.300	19	0.900
Effluent		1.6	<0.001	0.008	0.002	0.020	<0.001
Influent (No Dilution)	06/07/00	590	4.400	20	2.400	110	3.200
Process (With Dilution)		84	0.590	2.200	0.360	10	0.420
Effluent		1.3	0.003	0.058	0.006	0.034	<0.001
Influent (No Dilution)	07/03/00	290	2.400	8.800	4.700	130	2.700
Process (With Dilution)		91	0.800	3.500	1.800	34	0.900
Effluent		1.1	0.002	0.024	0.002	0.016	0.038
Influent (No Dilution)	08/03/00	230	0.800	5.000	1.700	46	1.600
Process (With Dilution)		24	0.070	0.470	0.200	5.400	0.130
Effluent		1.0	0.002	0.028	0.004	0.068	0.002
Influent (No Dilution)	09/06/00	470	1.500	5.000	2.400	69	1.700
Process (With Dilution)		140	0.500	2.200	1.000	19	0.700
Effluent		2.4	0.002	0.023	0.004	0.05	<0.001
Influent (No Dilution)	10/05/00	260	0.200	1.300	0.400	11.000	1.000
Process (With Dilution)		150	0.200	0.710	0.160	7.600	0.540
Effluent		3.0	0.002	0.03	0.005	0.033	0.002
Influent (No Dilution)	11/02/00	43	0.110	0.440	0.130	3.500	0.360
Process (With Dilution)		58	0.220	0.970	0.200	10.000	0.670
Effluent		0.5	<0.001	0.005	0.002	0.022	0.002
Influent (No Dilution)	12/04/00	58	0.070	0.860	0.230	4.200	3.300
Process (With Dilution)		52	0.050	0.750	0.200	3.600	2.000
Effluent		1.0	<0.001	0.006	<0.001	0.007	<0.001
Influent (No Dilution)	01/04/01	25	0.040	0.006	<0.001	0.007	<0.001
Process (With Dilution)		24	0.040	0.130	0.040	1.900	2.000
Effluent		0.6	<0.001	0.014	0.001	0.013	0.004

# TABLE 3 SOIL VAPOR EXTRACTION SYSTEM SAMPLE ANALYTICAL RESULTS 7-Eleven Store No. 16439

All concentrations in parts per million by volume (ppmv).

Vapor Sample	Sampling	Total Volatile	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
Identification	Date	Hydrocarbons			-	-	
Influent (No Dilution)	02/07/01	20	0.060	0.150	0.030	0.850	5.600
Process (With Dilution)	1	17	0.040	0.100	0.020	0.660	3.100
Effluent	1	0.8	<0.001	0.005	<0.001	0.007	0.014
Influent (No Dilution)	03/08/01	4.2	0.02	0.08	0.02	0.15	0.06
Process (With Dilution)	1	1.0	0.001	0.017	<0.001	0.009	0.008
Effluent		0.8	0.001	0.014	0.002	0.023	0.034
Influent (No Dilution)	05/03/01	0.6	0.012	0.005	<0.004	0.016	0.034
Process (With Dilution)		<0.4	<0.004	0.005	<0.004	<0.004	0.005
Effluent		0.7	<0.004	0.004	<0.004	<0.004	<0.004
Influent (No Dilution)	06/12/01	5.6	<0.001	0.005	0.003	0.03	0.17
Process (With Dilution)		1.1	<0.001	0.004	0.002	0.011	0.048
Effluent		0.3	<0.001	0.003	<0.001	0.004	<0.001
Influent (No Dilution)	08/06/01	4.5	0.001	0.025	<0.001	0.012	0.27
Process (With Dilution)		2.5	<0.001	0.055	<0.001	0.006	0.10
Effluent		0.3	<0.001	0.003	<0.001	0.004	<0.001
Source	07/09/03	20	0.08	0.63	0.07	0.48	1.9
Process		1.6	0.007	0.051	0.006	0.044	0.14
Effluent		0.18	<0.001	0.003	<0.001	0.011	0.002
Source	08/12/03	16	<0.1	0.4	<0.1	8.0	8.0
Process		0.22	<0.003	0.011	< 0.003	<0.005	<0.005
Effluent		0.48	<0.003	0.003	0.004	0.038	<0.005
Mid #1		0.26	<0.003	< 0.003	0.007	0.061	<0.005
Mid #2		0.37	< 0.003	0.003	0.016	0.11	<0.005
Source	10/21/03	7.3	<0.001	0.005	0.002	0.074	0.02
Process/Effluent		0.4	<0.0005	0.0047	0.0021	0.027	<0.0005
Process	11/04/03	2.9	<0.0005	<0.0005	<0.0005	0.011	0.011
Effluent		1.1	<0.0005	<0.0005	<0.0005	0.0044	1.1
Source	12/02/03	1.3	<0.0005	0.014	<0.0005	0.0075	0.0059
Process	1	<0.1	<0.0005	0.0039	<0.0005	<0.0005	<0.0005
Effluent		<0.1	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Source	02/18/04	<5.0	0.026	0.049	0.0093	0.0436	0.03
Process		<5.0	0.046	0.073	0.016	0.065	0.142
Effluent		<5.0	0.045	0.032	0.004	0.014	<0.001
Source	03/02/04	<5.0	<0.001	<0.001	<1.0	<5.0	<5.0
Process		<5.0	<0.001	<0.001	<0.001	<0.002	<0.001
Effluent		<5.0	<0.001	<0.001	<0.001	0.0129	<0.001

TABLE 3
SOIL VAPOR EXTRACTION SYSTEM SAMPLE ANALYTICAL RESULTS
7-Eleven Store No. 16439

All concentrations in parts per million by volume (ppmv).

Vapor Sample	Sampling	Total Volatile	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
Identification	Date	Hydrocarbons					
Source	04/07/04	<5.0	<0.001	0.026	0.0064	0.125	<0.001
Process		<5.0	<0.001	0.036	0.0057	0.037	<0.001
Effluent	1	<5.0	<0.001	0.026	0.0073	0.067	<0.001
Source	05/12/04	2.4	<0.001	0.02	0.011	0.132	<0.001
Process	1	3.7	<0.001	0.0014	0.0015	0.0169	<0.001
Effluent	1	1.2	<0.001	0.016	0.0055	0.042	<0.001
Source	06/02/04	<1.0	<0.001	0.0081	<0.001	0.0047	<0.001
Process	1	<1.0	<0.001	0.0032	<0.001	0.0063	<0.001
Effluent	1	<1.0	<0.001	0.0066	<0.001	0.0096	<0.001
Source	07/27/04	2.8	<0.001	0.028	0.056	0.596	<0.001
Process	1	<1.0	<0.001	0.0028	<0.001	0.0074	<0.001
Effluent	1	<1.0	<0.001	0.0048	<0.001	0.0208	<0.001
Source	08/10/04	1.1	0.025	0.098	0.013	0.116	0.018
Process	1	<1.0	<0.001	0.027	0.0031	0.0086	<0.001
Effluent	1	<1.0	<0.001	0.066	0.016	0.109	<0.001
Source	09/02/04	<1.0	0.0074	0.03	<0.001	0.0098	<0.001
Process	1	<1.0	0.023	0.054	<0.001	0.023	<0.001
Effluent	1	<1.0	<0.001	<0.001	<0.001	<0.002	<0.001
Source	10/07/04	<1.0	<0.001	0.039	0.004	0.15	<0.001
Process	1	<1.0	<0.001	0.022	<0.001	<0.001	<0.001
Mid #1	1	<1.0	<0.001	<0.001	<0.001	0.0029	<0.001
Mid #2		<1.0	<0.001	<0.001	<0.001	<0.001	0.149
Effluent	1	<1.0	<0.001	<0.001	<0.001	0.019	<0.001
Source	11/03/04	1.3	<0.001	0.0093	<0.001	0.019	1.320
Mid #1		<1.0	0.025	0.066	<0.001	0.092	0.760
Mid #2		<1.0	<0.001	0.019	<0.001	0.026	0.302
Effluent		<1.0	<0.001	0.019	<0.001	0.021	0.167

### Notes:

< = Less than detection limit shown MTBE = Methyl-t-butyl ether



### ATTACHMENT A

### GAUGING/PURGING/SAMPLING FIELD LOGS

ō  $\overline{\phantom{a}}$ Page

# **MONITORING WELL GAUGING LOG**

Site Name & Facility No:

7-11 #16439

Field Representative(s):

Date:

12/16/2011

211701006.220.0700 5 N 0 D ? Project Number:

Checked by:

4.2,8,7,4		Corrected		Floating		Depth to		Previous	
18,9-2,8,7,9		Corrected		Flooring		A 44.			
2, 1, W V , 2	N.	1			•	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 0 .	6/11	0/
	a ry man	Checked by:				7	8	1)	( )

Comments	Do Not Gauge - Improper Screen Interval										
Corrected Groundwater Elevation <sup>1</sup> *											
Groundwater Elevation <sup>1</sup>		663,23	664.14	665.68	50799	58.950)	\$5'95g	CP. 979	1656.97	651.61	
Casing Elevation <sup>1</sup>	00:899	669.38	668.72	669.74	667.78	663.76	663.31	659.51	664.19	662.72	
Total Casing Depth (ft)	MN	20.12	16.80	25.51	25.60	25.15	23.50	21.39	25.18	23.34	
Floating Product Thickness											
Depth to Water (ft)		6.15	4.54	00. h	573	hb.0)	(0,73	9.54	1,33	=	
Depth to Floating Product											
Gauging Time		CH20	9h80	0449	2442	0437	0480	0350	1833	0135	
Previous QTR DTW	NN	5.81	4.70	4.80	5.70	6.59	6.70	9.97	7.05	11.50	
Well No.	MW-1	MW-2	MW-3	MW-4	MW-7	MW-8	6-WW	MW-10	MW-11	MW-12	

= feet above mean sea level unless noted otherwise Notes:

Sheen = discontinuous, non-measurable thickness of LPH

= continuous, non-measurable thickness of LPH

Trace

= elevation adjusted by adding (.75 x product thickness) to measured water elevation

= not measured due to the presence of liquid-phase hydrocarbons

			L PURGING	G/SAMPLING	LOG		MW-2	
Star	atoc	Project Name:		7-11 #16439		Well No.		
Stat	ILEC	Project Number:		211701006.220.070	00	Date:	12/16/2011	
Consulting (	Corporation	Project Address:	14110	Old Highway 80, E	El Cajon	,	10	
Well GPS: L	atitude: Lor	ngitude:	Sampled by: <b>A</b>	Checke	ed by: FML C	enne	ll License #: 77.05	
WELL SP	ECIFICATIONS & I	MEASUREMEN	NTS		EQL	IIPMEN	T/METHODS	
Borehole Diameter (in.)	(BD): 6 8	10 12			Water Level Me		<i>D</i> 1.01	
Casing Diameter (in.) (0	CD): 2 4 6 8	3			pH/Temp/Condu		eter Type and ID:B	
Total Well Depth (ft.) (	WD):	20.12	Product Thickness (ft.):	0	Purge	_XSubme Bailer	ersible Pump	
Static Water Level (ft.)	(DTW1):	0.18	Time measured: (	9842	Equipment:	Other:		
Water Column (ft.) (W		13.97	Filter Pack Po		Sample		able Bailer	
	V) Calculation *: BV = 0			* This equation is taken from the SAM Manual	Equipment:		r Pump ugal Pump	
Casing Diameter (in.):	Borehole Diameter (in.):	Calculated Borehole 0.779		and applies to wells constructed straddling		Other:		
4	10	1.517	· · · · · · · · · · · · · · · · · · ·	the water table only. For submerged screens,		Steam	/High Pressure Wash	
1 Borehole Volume (gal	1110			document all calculations. Porosity is	Decon Method:	X 3 Stag	e (Alconox, tap water, DI	
1/2 Borehole Volume (g	10 100			expressed in decimal form.		rinse) Other:		
Purging Method:				Journ				
	e 3 BV, sample after w	ell recovers 80%	of total purgeo	d drawdown.	-			
<del>\tau</del>	e 1 BV, test parameter				ecovers 80% of	total purg	ed drawdown.	
_	ow - install pump at lea			· ·				
	e 1 BV, sample after 2	•		_				
Method 5, non-pu	rge method.							
		PU	RGING INFO	RMATION				
Time	Depth to Water (feet below top of	Drawdown	Water Volume	On a divisit divi	Measured Temperature	Paramete T		
Time 0947	casing)	(feet)	Purged (gal)	Conductivity (µmhos)	(°C)	pН	Water Description (odor, turbidity, color)	
0953	17.90	11.75	215	2.27mg	A STATE			
1000	a0.ia	13.97	11	2.26 ms		7.70	COO / ODOR	
1015	8.94	_ ===	8MP	-	7.5			
1013	0.14		-01111					
Total Water Purged (ga	a): 32-6/13		Maximum Drav	udown Depth (DTW)	2; feet below TO	): <i>H</i> C	1,12	
Average pumping rate	2		Drawdown Wa	ter Column = (DTW	(2-DTW1) = (20.1	à)-(6.	15): 13.97	
	, , , , ,	REC	OVERY CAL	CULATIONS				
80% recovery of drawdo	wn from purging = DTW	1 + (0.2)(Drawdow	n Water Column	)				
80% recovery of dra	awdown from purgir	ng = 6.15 -	+ (0.2)(13.9	7)= 8,94	Well Reco	очегу Туре	e: XFastSlow	
			MPLING INFO				e weep -	
Time of Sample: \	015	O/A		iter at Time of Sa	ampling (DTW:	3): 4	,,94	
% Recovery = 1 -	(DTW1) - (DTW2)		% of Recover	y = 1- ,200	(6.15)-(a	0.13.)	13 97	
Quantity	Container Type	Filtered (Y/N)	Sample	Preservatives			hods to Perform	
3	40mL VOAs	N	HCL &	ICE or None	TPHg	, BTEX	, MTBE, DIPE,	
	200				TAME, E	TBE, T	BA (EPA 8260B)	
1237/129	55/ 1310							

		,	LDUDANY	2/0 4 5 5 7 12 12	1.00						
Stantec		WELL PURGING/SAMPLING LOG					MW-3				
		Project Name:		7-11 #16439		Well No.:					
		Project Number:	211701006.220.070		Date:	12/16/2011					
Consulting	Corporation	Project Address:		Old Highway 80, E	12111		20				
Well GPS:	atitude: Lon	gitude:	Sampled by: SC	Checke	ed by: PMUe	mel	License #:7705				
WELL SP	ECIFICATIONS & N	MEASUREMEN	NTS		EQUIPMENT/METHODS						
Borehole Diameter (in.)	(BD): <b>6 8</b>	10 12		Water Level Meter Type and ID: $\mathbb{R}^{\mathcal{O}}$							
Casing Diameter (in.) (	CD): 2 4 6 8				pH/Temp/Conductivity Meter Type and ID: ੴ						
Total Well Depth (ft.) (WD):		16.80	Product Thickness (ft.):		y_Submersible Pump Purge Equipment: —Bailer						
Static Water Level (ft.) (DTW1):		4.54	Time measured: (	A 41 ()		Other:					
Water Column (ft.) (WC=WD-DTW1):		12.22	Filter Pack Porosity (P): 0.25		Sample	Teflon Bailer ☑Disposable Bailer					
			41 "[CD +P(BD -CD )]"(VVC)		Equipment:	Bladde Centrif	r Pump ugal Pump				
Casing Diameter (in.):	Borehole Diameter (in.):	Calculated Borehole 0.779	10 - 50 - 10 Connect Co.	and applies to wells constructed straddling		Other:	<b>O</b> 1.1T				
4	10	1.517		the water table only. For submerged screens,		Steam/High Pressure Wash					
1 Borehole Volume (gals): 18.54				document all calculations. Porosity is	Decon Method:	X 3 Stage (Alconox, tap water, DI					
1/2 Borehole Volume (ç	001			expressed in decimal form.		rinse) Other:					
Purging Method:	100										
	e 3 BV, sample after w	ell recovers 80%	of total purged	d drawdown.							
X Method 2, remove	e 1 BV, test parameters	s until stable per	SAM Manual,	sample after well r	ecovers 80% of	total purg	ed drawdown.				
	ow - install pump at leas										
	e 1 BV, sample after 2	hours. Note - if	well recovers 8	0% of total purged	drawdown, use	another n	nethod.				
Method 5, non-pu	irge method.										
PURGING INFORMATION  Depth to Water Water Measured Parameters											
Time	Depth to Water (feet below top of	Drawdown	Volume	Conductivity	Temperature		Water Description (odor,				
1042	casing)	(feet)	Purged (gal)	(µmhos)	(°C)	pН	turbidity, color)				
1115	16.80	12.22	19	1775 US	24.0	735	COURY/ 10002				
1146	16.80	12.22	9.5	1756 vs	24.2	7.37	11 11				
1234	7.00		SMP								
	GOES DRY @	AROUT	13 G7	WILL 8	AUT OFF	FOL	10 MIN Q A				
			PURISE.								
	t tot or	,,,,,,									
Total Water Purged (ga	al): 285/64		Maximum Drav	vdown Depth (DTW ter Column = (DTW	2; feet below TO	D): [[6	.40				
Average pumping rate			Drawdown Wa	ter Column = (DTW	2-DTW1) = ( <u>l\@\f</u>	30)-(4,6	56): 12.22				
	nto what to	REC	OVERY CAL								
80% recovery of drawdo	own from purging = DTW	1 + (0.2)(Drawdow	n Water Column	)							
80% recovery of dr	own from purging = DTW awdown from purgin	g = <u>4.54</u>	7,44 + (0.2)( <u>12.26</u>	?_) = <u>7.02</u>	Well Recovery Type: X_Fasti <sup>≴</sup> Slow						
		SA	MPLING INFO								
Time of Sample: 1624 Depth to Water at Time of Sampling (DTW3): 1.02											
% Recovery = 1-	% of Recovery = 1 - 200			(4.58)-(4.02) 1222 309							
Quantity	Container Type	Filtered (Y/N)	Sample	Sample Preservatives		Analytical Methods to Perform					
3	40mL VOAs	N	HCL &	ICE or None	TPHg, BTEX, MTBE, DIPE,						
						TAME, ETBE, TBA (EPA 8260B)					
1335/ 141	16/1633										

						P				
Stantec		WELL PURGING/SAMPLING LOG					MW-4			
		Project Name: 7-11 #16439				Well No.				
		Project Number: 211701006.220.0700				Date:	12/16/2011			
Consulting	Corporation	Project Address:	- 71	Old Highway 80, E	El Cajon		18			
Well GPS:	Latitude: Lor	ngitude:	Sampled by:	Checke	ed by: MUC	mel	License #: 7705			
WELL S	PECIFICATIONS & I	MEASUREMEN	NTS	ITS			EQUIPMENT/METHODS			
Borehole Diameter (in.	) (BD): 6 8	10 12			Water Level Meter Type and ID:					
Casing Diameter (in.) (	(CD): 2 4 6 8				pH/Temp/Conductivity Meter Type and ID:					
Total Well Depth (ft.) (WD):		25.51	Product Thickness (ft.):		Submersible Pump Purge Bailer					
Static Water Level (ft.) (DTW1):		4.06	Time measured: 1949		Equipment:	Other:				
Water Column (ft.) (WC=WD-DTW1):		21.45	Filter Pack Porosity (P): 0.25		Sample		able Bailer			
Borehole Volume (i Casing Diameter (in.):	BV) Calculation *: BV = 0  Borehole Diameter (in.):	.041 * [CD <sup>2</sup> +P(BD <sup>2</sup> Calculated Borehole		This equation is taken from the SAM Manual	Equipment:	Bladder Pump Centrifugal Pump				
Casing Diameter (in.):	8	0.779 <sup>1</sup>	100000000000000000000000000000000000000	and applies to wells constructed straddling		_Other:				
4	10	1.517 '		the water table only. For submerged screens,		Steam	/High Pressure Wash			
1 Borehole Volume (gals): 32.54				document all calculations. Porosity is	Decon Method:		e (Alconox, tap water, DI			
1/2 Borehole Volume (gals):				expressed in decimal form.	,	rinse) Other:				
Purging Method:										
Method 1, remov	re 3 BV, sample after w	ell recovers 80%	of total purged	drawdown.						
	re 1 BV, test parameter	•		=						
	ow - install pump at lea									
Method 5, non-p	ve 1 BV, sample after 2	nours. Note - if \	well recovers at	of total purged	drawdown, use	another n	netnoa.			
ivictilod 5, non-p	arge metrou.	PH	RGING INFO	RMATION	**					
	Depth to Water	<u></u>	Water	1	Measured	Paramete	ers			
Time	(feet below top of	Drawdown	Volume	Conductivity	Temperature	рН	Water Description (odor,			
1345	casing)	(feet)	Purged (gal)	(µmhos)	(°C)		turbidity,,color)			
1346	19.00	14.99	16.5	187105	25.60	7.39	00004 /371000			
1403	25 81	21.45	9 <u></u>	183805	25.5	7.40	11 11			
1603	23.99		Smil							
1853	DRY @	22 Cm	WILL ST	AUT OFF	Pump +	OR-	TEN MIN			
	TO SEE	How M		1		o Pi	DRGE MORE			
	ONLY APOCE	TO GE	TZN	MORE GALS		PULL	DE WILL WATTZIA			
Total Water Purged (g	1al): 24.5/20		Maximum Drau	down Depth (DTW	2: feet below TOO	1 25	. 6			
Average pumping rate	(gpm): 1,23			er Column = (DTW	2-DTW1) = <u>(45</u> -	<u>51</u> ) - ( <u>41</u> )	21.45			
	il-		OVERY CAL							
80% recovery of drawdown from purging = DTW1 + (0.2)(Drawdown, Water Column)										
80% recovery of drawdown from purging = $\frac{4.00}{0.2} + (0.2)(21.45) = 3.35$ Well Recovery Type:Fast $X$ Slow										
SAMPLING INFORMATION  Time of Semales 11 0 2										
Time of Sample: 1603 Depth to Water at Time of Sampling (DTW3): 23.99										
% Recovery = $1 - \frac{(DTW1) - (DTW3)}{(DTW1) - (DTW2)}$		% of Recovery = 1-, 929		(4.06)-(23.99)(993 (4.06)-(2551)24.45						
Quantity Container Type Filtered (Y/N)					1100	10	14:45			
Quantity	Container Type	Filtered (Y/N)		Preservatives	Anal	ytical Met	hods to Perform			
Quantity 3	Container Type 40mL VOAs	Filtered (Y/N)		CE or None	Anal TPHg	ytical Met , BTEX				

p								
		WEL	L PURGING	3/SAMPLING	LOG		MW-7	
Sta	ntec	Project Name:		7-11 #16439		Well No.;		
Stai	ILEC	Project Number:		211701006.220.070	00	Date:	12/16/2011	
Consulting	Corporation	Project Address:	14110	Old Highway 80, E	I Cajon			
Well GPS:	Latitude: Lo	ngitude:	Sampled by: A	Checke	ed by fluc	nell	License #:7705	
WELL SF	WELL SPECIFICATIONS & MEASUREMENTS						/METHODS	
Borehole Diameter (in.)	) (BD): 6 8	10 12			Water Level Meter Type and ID: 👸 🎖			
Casing Diameter (in.) (	CD): 2 4 6 8	3			pH/Temp/Cond	uctivity Me	ter Type and ID:BP I	
Total Well Depth (ft.) (	(WD):	25.60	Product Thickness (ft.):	0	Purge	X Subme	ersible Pump	
Static Water Level (ft.	) (DTW1):	5.73	Time measured: (	X447	Equipment:	Other:		
Water Column (ft.) (W		19.87	Filter Pack Po	rosity (P): 0.25	Sample		able Bailer	
			141 * [CD*+P(BD*-CD*)]*(WC)		Equipment:	Bladder	r Pump ugal Pump	
Casing Diameter (in.): 2	Borehole Diameter (in.):	Calculated Borehole 0.779		and applies to wells constructed straddling		_Other:		
4	10	1.517		the water table only. For submerged screens,		Steam	/High Pressure Wash	
1 Borehole Volume (ga	orehole Volume (gals): 30, 14 document all calculations, Porosity is			Decon Method:	X 3 Stag	e (Alconox, tap water, DI		
2 Borehole Volume (gals): 15,57 expressed in decimal form.					rinse) Other:			
Purging Method:	<u> </u>							
Method 1, remove 3 BV, sample after well recovers 80% of total purged drawdown.  Method 2, remove 1 BV, test parameters until stable per SAM Manual, sample after well recovers 80% of total purged drawdown.  Method 3, Low-flow - install pump at least 2 hours prior to start of purging. Follow detailed methodology in SAM Manual.  Method 4, remove 1 BV, sample after 2 hours. Note - if well recovers 80% of total purged drawdown, use another method.  Method 5, non-purge method.								
		PU	RGING INFO	RMATION				
	Depth to Water		Water		Measured	Paramete	rs	
Time	(feet below top of	Drawdown /foot)	Volume Purged (gal)	Conductivity	Temperature	pН	Water Description (odor,	
1257	casing)	(feet)	30-S	(µmhos)	24,2	7.08	turbidity, color)	
13.17	21.45	15.72			7 3		CNOL	
1314	25.60	19.87	15.5	2.40 ins	24.0	7.09		
1330	9.70		5mp					
		ļ						
						L.,		
Total Water Purged (g	(9)		Maximum Drav	vdown Depth (DTW	2; feet below TO		2	
Average pumping rate	(gpm): 1 3,71			ter Column = (DTW	2-DTW1) = ( <del>/5) (</del>	<u> </u>	5):14.0+	
			OVERY CAL		1			
	own from purging = DTW				\Mall Dea	Nery Typo	: <u>X</u> FastSlow	
80% recovery of dr	awdown from purgir			t)=9.70	vven Necc			
- 10 1	770	SA	MPLING INFO		ii (DT)A	ov. 02	70	
Time of Sample: \	330		Depth to wa	ter at Time of Sa	ampling (DTVV	3): 7	70	
% Recovery = 1 -	(DTW1) - (DTW3) (DTW1) - (DTW2)		% of Recover	y = 1-, 200 ê	(5.73)-(9	-10)3 5.60)19	974 80%	
Quantity	Container Type	Filtered (Y/N)	Sample	Preservatives			nods to Perform	
3	40mL VOAs	N	HCL &	CE or None	_		MTBE, DIPE, BA(EPA 8260B)	
1355/14	20/1434	*					,	
1000/19	11101							

		v-							
			L PURGING	S/SAMPLING	LOG		MW-8		
Sta	ntec	Project Name:		7-11 #16439		Well No.:	10110011		
I Siai	IILOU	Project Number:		211701006.220.070		Date:	12/16/2011		
	Corporation	Project Address:	1	Old Highway 80, E		2	1		
		ngitude:	Sampled by:	Checke	ed by fluc	nell	License #.7725		
WELL SF	PECIFICATIONS & I	MEASUREMEN	NTS		EQU	IPMENT	/METHODS		
Borehole Diameter (in.	) (BD): 6 8	10 12		Water Level Meter Type and ID:					
Casing Diameter (in.) (	CD): 2 4 6 8	3			pH/Temp/Condu	pH/Temp/Conductivity Meter Type and ID: 4 L Submersible Pump			
Total Well Depth (ft.) (WD): 25.15			Product Thickness (ft.):				rsible Pump		
Static Water Level (ft.	) (DTW1):	6.94	Time measured:	····		Other:			
Water Column (ft.) (W	•	18.21	Filter Pack Por		Sample		able Bailer		
	3V) Calculation *: BV = 0			This equation is taken from the SAM Manual	Manual Equipment:		r Pump Igal Pump		
Casing Diameter (in.):	Borehole Diameter (in.):	Calculated Borehole 0.779		and applies to wells constructed straddling		Other:			
4	10	1.517	CONTRACTOR IN CO	the water table only. For submerged screens,		Steam	/High Pressure Wash		
1 Borehole Volume (ga	als): 14.18			document all calculations. Porosity is	Decon Method:		e (Alconox, tap water, DI		
1/2 Borehole Volume (	700			expressed in decimal form.		rinse) Other:			
Purging Method:									
	e 3 BV, sample after v								
	e 1 BV, test paramete								
	ow - install pump at lea re 1 BV, sample after 2								
_		nours. Note - II	well recovers of	7% or total purged	urawuowii, use	anomer n	ieulou.		
Wicthod o, non-po	Method 5, non-purge method. PURGING INFORMATION								
	Depth to Water	1	Water		Measured	Paramete	rs		
Time	(feet below top of	Drawdown	Volume	Conductivity	, I DH I		Water Description (odor,		
1242	casing)	(feet)	Purged (gal)	(µmhos)	(°C)	2 00	turbidity, color)		
1245	19:01	12.67	45 75	2.82ms	24.3	10+	COL. & ODOR		
1347	26.00	18.06	75 7	2.81mS		7.16	n u		
1547	21.81		,5AV	WIE -					
los	S 6						-4ELOW/SH-		
DRY (a)	10.5 GAL TI	RN OFF	PUMP, A	LOW RE	CHARGE	-CON	TTINUE PURGE		
	1		L			); Z5.	00		
Total Water Purged (g	4-7			vdown Depth (DTW ter Column = (DTW			14: 18.06		
Average pumping rate	(gpm): 2L	DEC	Drawdown Wat		2-DIVVI) = ( 50°	-)-(4	10.00		
80% recovery of drawd	own from purging = DTA								
80% recovery of drawdown from purging = DTW1 + (0.2)(Drawdown Water Column)  (a) (b) (b) (c) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d									
					Well Reco	overy Type	:Fast/Slow		
80% recovery of di	rawdown from purgi	ng = <u>6.94</u>	+ (0.2)(18.06	) = <u>10.55</u>	Well Reco	оvегу Туре	:FastSlow		
		ng = <u>6.94</u>	+ (0.2)( <u> </u>	ORMATION					
80% recovery of di	1547	ng = <u>6.94</u>	+ (0.2)( <u> </u>	) = <u>10.55</u>	ampling (DTW	3): 21			
Time of Sample:	1547	ng = <u>6.94</u>	+ (0.2)(18.00)  MPLING INFO  Depth to Wa	DRMATION  ter at Time of Sa	ampling (DTW		.81		
		ng = <u>6.94</u>	+ (0.2)( <u> </u>	DRMATION  ter at Time of Sa	ampling (DTW:	3): 21	.81		
Time of Sample:	1547	ng = <u>6.94</u>	+ (0.2)(18.00cm  MPLING INFO  Depth to Wa  % of Recovery	DRMATION  Iter at Time of Sa  y = 1-  Preservatives	ampling (DTW:	3): 2  2].8 ) 5 00)  ytical Met	- 81 - 18-06 nods to Perform		
Time of Sample:  % Recovery = 1 -	1597 (DTW1) - (DTW3) (DTW1) - (DTW2)	ng = <u>6.94</u> ·	+ (0.2)(18.00cm  MPLING INFO  Depth to Wa  % of Recovery	DEMATION  Iter at Time of Sa  y = 1-	ampling (DTW:  (	3): 21 21.8(1) 5 00) lytical Met	.81 = 14.87 %17 -18.06		

						_		
		WEL	L PURGING	S/SAMPLING	LOG		MW-9	
Sta	ntoo	Project Name:		7-11 #16439		Well No.		
Sia	ntec	Project Number:	:	211701006.220.070	0	Date:	12/16/2011	
Consulting	Corporation	Project Address:	14110	Old Highway 80, E	l Cajon			
Well GPS:	Latitude: Lor	ngitude:	Sampled by:	Checke	d by: Mul	end	26 License #: 7205	
WELL SF	PECIFICATIONS & N	MEASUREMEN	NTS		EQU	JIPMEN	T/METHODS	
Borehole Diameter (in.)	) (BD): 6 8	10 12			Water Level Meter Type and ID:			
Casing Diameter (in.) (	CD): 2 4 6 8	}			pH/Temp/Conductivity Meter Type and ID: & -Y			
Total Well Depth (ft.) (	(WD):	23.50	Product Thickness (ft.):	0	Submersible PumpPurge Bailer			
Static Water Level (ft.	) (DT <b>W</b> 1):	6.73	Time measured:	Equipment:	Other:			
Water Column (ft.) (WC=WD-DTW1):   Le 77   Filter Pack Porosity (P): 0.25					Sample		sable Bailer	
	BV) Calculation *: BV = 0.			from the SAM Manual	Equipment:		er Pump fugal Pump	
Casing Diameter (in.):  2	Borehole Diameter (in.):	Calculated Borehole		and applies to wells constructed straddling		_Other:	•	
4	10	1.517 '		the water table only. For submerged screens,	Steam/High Pressure Wa			
1 Borehole Volume (ga	ls): <u>13.06</u>			document all calculations. Porosity is	Decon Method:		ge (Alconox, tap water, DI	
1/2 Borehole Volume (gals):				expressed in decimal form.		rinse)Other	:	
Purging Method:								
<del></del> _	e 3 BV, sample after w							
	e 1 BV, test parameter	•		-				
	ow - install pump at lea	•		_				
Method 5, non-pu	e 1 BV, sample after 2	nours. Note - if \	well recovers at	or total purged	arawaown, use	another r	netnoa.	
Wethod 5, non-pt	arge method.	PU	RGING INFO	RMATION				
	Depth to Water		Water		Measured Parameters			
1358	(feet below top of casing)	Drawdown (feet)	Volume Purged (gal)	Conductivity (µmhos)	Temperature (°C)	pН	Water Description (odor, turbidity, color)	
1404	23.40	16.67	13.5	7.28 MS	24.4	7.01	CUL & ODOR	
1412	23.50	14.77	7	2.31 NS	24.5		Cu posoe	
1067	1000	-	SX	WOLE -		/3- 1	Cooper	
1101	70.00						-4ELLONISH -	
							(CCC 101511	
Total Water Purged (g	h 1	L	Maximum Draw	down Depth (DTW2	2; feet below TO	<u>)</u> :	-13	
Average pumping rate	(gpm): 1.0-7			er Column = (DTW2	2-DTW1) = ( <u>% 3, ;</u>	) - ( <u>((</u>	.17:	
2004			OVERY CAL					
• '	own from purging = DTW awdown from purgin			- /	Well Reco	overy Type	e:Slow	
			MPLING INFO					
Time of Sample:	1457		·	ter at Time of Sa	mpling (DTW:	3): /0	1.08	
% Recovery = 1 -	(DTW1) - (DTW3) (DTW1) - (DTW2)		% of Recovery	· = 1-	(6.13)-(10 (6.13)-(1	0.08) 35)	= 3.35 % %	
Quantity	Container Type	Filtered (Y/N)	Sample F	Preservatives	Anal	vtical Met	hods to Perform	
3	40mL VOAs	N N						
	1	N HCL & ICE or None			TPHg, BTEX, MTBE, DIPE, TAME, ETBE, TBA (EPA 8260B)			

1224/1250/1324 80%

		WEL	L PURGING	3/SAMPLING	LOG		MW-10	
l Sta	ntoo	Project Name:		7-11 #16439		Well No.		
J Sta	ntec	Project Number:		211701006.220.070	00	Date:	12/16/2011	
Consulting	Corporation	Project Address:	14110	Old Highway 80, E	El Cajon			
Well GPS:	Latitude: Lor	igitude:	Sampled by: 1	Checke	ed by: Mul	mel	License #:7705	
WELL SF	PECIFICATIONS & N	MEASUREMEN	NTS		EQI	JIPMEN	T/METHODS	
Borehole Diameter (in.	) (BD): 6 8	10 12				Meter Type and ID: BP-/		
Casing Diameter (in.) (	CD): (2) 4 6 8				pH/Temp/Cond	np/Conductivity Meter Type and ID: £ C 9		
Total Well Depth (ft.)	(WD):	21.39	Product Thickness (ft.):	0	Submersible Pump Purge Equipment:Bailer			
Static Water Level (ft.	) (DTW1):	7.54	64 Time measured: 0630			Other:		
Water Column (ft.) (W		1.85	Filter Pack Poi		Sample		able Bailer	
	BV) Calculation *: BV = 0.			* This equation is taken from the SAM Manual	Equipment:	_	r Pump ugal Pump	
Casing Diameter (in.):	Borehole Diameter (in.):	Calculated Borehole		and applies to wells constructed straddling		Other:		
4	10	1.517		the water table only. For submerged screens,		Steam	/High Pressure Wash	
1 Borehole Volume (ga	uls): 9.23			document all calculations, Porosity is	Decon Method:	<u>✓</u> 3 Stag rinse)	e (Alconox, tap water, DI	
1/2 Borehole Volume (	gals): 4.0	u,		expressed in decimal form.		Other:		
Purging Method:								
	e 3 BV, sample after w e 1 BV, test parameter				ecovers 80% of	total nuro	red drawdown	
	ow - install pump at lea							
	e 1 BV, sample after 2							
Method 5, non-pu	urge method.							
PURGING INFORMATION  Depth to Water Water Measured Parameters								
Time	Depth to Water (feet below top of	Drawdown	Water Volume	Conductivity	Temperature	Paramete	Water Description (odor,	
09:59	casing)	(feet)	Purged (gal)	(µmhos)	(°C)	pН	turbidity, color)	
1007	17.11	7.57	9555	7370	219	7.50	BON, OF OLOR	
1021	21.39	11.85	84	744us	21.9	7.39	n u	
1221	18-90	7	SAM	PUE -				
DRY@ 7 6	AL TURN OFF	PUMP A	LLOW RE	CHARGE-	CONT. PU	RGE		
	j							
Total Water Purged (g			Maximum Draw	down Depth (DTW	2; feet below TO	26	59	
Average pumping rate	(gpm): . 43		Drawdown Wat	er Column = (DTW	2-DTW1) = ( <u>41-3</u>	7)-(1	<u>21</u> ): 11.85	
			OVERY CAL					
	own from purging = DTW				Well Beer	went Type	e:FastSlow	
80% recovery of dr	awdown from purgin	$g = \frac{9.59}{1.59}$	+ (0.2)(11.85	) = //. 7/	vveii Neck	overy Type	a rast Slow	
		SA	MPLING INFO	ORMATION	<u>'</u>			
Time of Sample:	1221		Depth to Wa	ter at Time of Sa	ampling (DTW	3): /	8.90	
% Recovery = 1 -	(DTW1) - (DTW3) (DTW1) - (DTW2)		% of Recovery	y = 1-	(9.54)-(1) (1.54)-(2)	8.90) 1.39)	= <u>9.36 %1)</u> - <del>11.85</del>	
Quantity	Container Type	Filtered (Y/N)		Preservatives	Anal	ytical Metl	hods to Perform	
3	40mL VOAs	N	HCL & I	CE or None	_		, MTBE, DIPE,	
L	7 1 21	0.4	42		J TAME, E	IBE, T	BA (EPA 8260B)	
1000/101	4/1218	19%	130	(14L	1221			

	WELL PURGING/SAMPLING LOG								
		Project Name:		7-11 #16439		— <b>MW-11</b> Well No.:			
l Sta	ntec	Project Number:		211701006.220.070	00	Date:	12/16/2011		
Consulting	Corporation	Project Address:	14110	Old Highway 80, E	El Cajon		_		
		ngitude:	Sampled by:		ed by PMI	melk	License #7725		
WELL SF	PECIFICATIONS & I	MEASUREME	# //			JIPMEN'	T/METHODS		
Borehole Diameter (in.		10 12					and ID: BP-1		
Casing Diameter (in.) (	(CD): (2) 4 6 8	3			pH/Temp/Conductivity Meter Type and ID: £L - '4				
Total Well Depth (ft.)	25.18	Product Thickness (ft.):			&ubmersible Pump				
Static Water Level (ft.	.) (DTW1):	7.22	Time Equipment:		Bailer Other:				
Water Column (ft.) (W	/C=WD-DTW1):	17.96	Filter Pack Po	rosity (P): 0.25	Sample	Teflon	Bailer able Bailer		
Borehole Volume (I Casing Diameter (in.):	BV) Calculation *: BV = 0 Borehole Diameter (in.):		41 * [CD <sup>2</sup> +P(BD <sup>2</sup> -CD <sup>2</sup> )]*(WC)  Calculated Borehole Volume (gal.):  * This equation is from the SAM Mark and applies to we			Bladde Centrift			
2	8	0.779		constructed straddling the water table only. For		Other:			
4	10 13.99	1.517 * (WC) submerged screens, document all			S . Mathed		/High Pressure Wash e (Alconox, tap water, DI		
	expressed in decimal				rinse)	o ( noonox, tap weter, = .			
1/2 Borehole Volume ( Purging Method:	gais):			form.		Other:			
	re 3 BV, sample after w	ell recovers 80%	of total purged	d drawdown.					
	e 1 BV, test parameter				ecovers 80% of	total purg	ed drawdown.		
	ow - install pump at lea								
	re 1 BV, sample after 2	hours. Note - if	well recovers 80	0% of total purged	drawdown, use	another m	nethod.		
Method 5, non-pu	urge memou.	PII	RGING INFO	RMATION					
	Depth to Water	1	Water	I	Measured	Paramete	rs		
1032	(feet below top of casing)	Drawdown (feet)	Volume Purged (gal)	Conductivity (µmhos)	Temperature (°C)	pН	Water Description (odor, turbidity, color)		
1038	22.85	15.63	14	225 M	5 25.4	696	CUL. ODDOR		
1045	22.48	15.26	7	224 MS	248	702	n u		
1100	9.02			nPie -		,			
	001/12				0 ( )   1 70	22	85		
Total Water Purged (g Average pumping rate			Drawdown Wat	vdown Depth (DTW) ter Column = (DTW)	2; feet below 100 2-DTW1) = (27	85.7	<u>77</u> : 15.63		
	(0)	REC	OVERY CAL						
80% recovery of drawdo	own from purging = DTW	1 + (0.2)(Drawdow	n Water Column	)					
80% recovery of dr	rawdown from purgir	g = 4.22	+ (0.2)(15.6e	3)= 10.34	Well Reco	very Type	: Fast Slow		
		SA	MPLING INFO	ORMATION					
Time of Sample:	1100		Depth to Wa	ter at Time of Sa	ampling (DTW	3):			
% Recovery = 1 -	(DTW1) - (DTW3) (DTW1) - (DTW2)		% of Recovery	y = 1-	<del>(7.22)-(9</del> (2.22)-(2	(OZ) 7.85)	= 1.8 %88		
Quantity	Container Type	Filtered (Y/N)	Sample	Preservatives	Anal	ytical Meth	nods to Perform		
3	40mL VOAs	N	HCL & I	CE or None	1		MTBE, DIPE, BA(EPA 8260B)		
1118/1131	6/1150				1, 0,510-1	,	( )		
11.07									

	WELL PURGING/SAMPLING LOG								
01-	-1	Project Name:		7-11 #16439		Well No.	MW-12		
Stai	ntec	Project Number:		211701006.220.070	00	Date:	12/16/2011		
Consulting	Corporation	Project Address:	14110	Old Highway 80, E	I Cajon				
Well GPS:	Latitude: Loi	ngitude:	Sampled by:	Checke	ed by: Plul	mel	License #: 7205		
WELL SF	PECIFICATIONS & I	MEASUREMEN	NTS		EQL	JIPMEN'	T/METHODS		
Borehole Diameter (in.	) (BD): 6 8	10 12			Water Level Meter Type and ID: BP-/				
Casing Diameter (in.) (	CD): 2 4 6 8	3			pH/Temp/Conductivity Meter Type and ID: LL- 4				
Total Well Depth (ft.)	(WD):	23.34	Product Thickness (ft.):	0	Submersible Pump Purge Bailer				
Static Water Level (ft.	) (D <b>TW</b> 1):	[1.71	Time Equipment:			Other:			
Water Column (ft.) (WC=WD-DTW1): /2.23 Filter Pack Porosity (P): 0.25						Teflon	Bailer able Bailer		
Borehole Volume (E	Borehole Volume (BV) Calculation *: BV = 0.041 * [CD <sup>2</sup> +P(BD <sup>2</sup> -CD <sup>2</sup> )]*(WC)					Bladde	r Pump		
Casing Diameter (in.):	Borehole Diameter (in.):	Calculated Borehole	ole Volume (gal.): and applies to wells				ugal Pump		
2	8 10	0.779 <sup>1</sup>		the water table only. For submerged screens,		Steam	/High Pressure Wash		
1 Borehole Volume (ga	060		(1.0)	document all calculations. Porosity is	Decon Method:	✓ 3 Stag	e (Alconox, tap water, DI		
1/2 Borehole Volume (s	1101.			expressed in decimal form.	rinse) Other:				
Purging Method:	•				_				
	e 3 BV, sample after w				000/ 1				
	e 1 BV, test parameter ow - install pump at lea	-							
	e 1 BV, sample after 2	•		_					
Method 5, non-pu	The state of the s			, 0					
PURGING INFORMATION									
Timo	Depth to Water (feet below top of	Drawdown	Water Volume	0	Measured	Paramete			
1/24	casing)	(feet)	Purged (gal)	Conductivity (µmhos)	Temperature (°C)	pН	Water Description (odor, turbidity, color)		
1128	12.95	1.84	10	240ms	239	6.99	CLL. OF ODOR		
1130	13.58	2.47	5	2.39 mS	23.9	6.95	ii 4		
1152	11.60		- SAV	wit					
	1								
Total Water Purged (ga	10.1		Maximum Draw	down Depth (DTW) er Column = (DTW)	2; feet below TOO	3 /3/	111.207		
Average pumping rate	(gpm): 2.5	PEC	OVERY CAL		2-D1V(1) - ( <u>-2-5</u>	- ( <u>/ / .</u>	1.2.11		
80% recovery of drawdo	own from purging = DTW					_			
	awdown from purgin				Well Reco	очегу Туре	:Slow		
			MPLING INFO						
Time of Sample:	1152	<b>υ</b> Λι		ter at Time of Sa	mpling (DTW:	3): //.	WO		
	(DTW1) - (DTW3)				(11 11)-(1		110		
% Recovery = 1 -	(DTW1) - (DTW3) (DTW1) - (DTW2)	<b>.</b>	% of Recovery		(11.17)-(13	.58)	= .47 % - <del>7.47</del>		
Quantity	Container Type	Filtered (Y/N)		Preservatives			nods to Perform		
3	40mL VOAs	N	HCL & I	CE or None			, MTBE, DIPE, BA (EPA 8260B)		
1056/110	5/1140								

#### ATTACHMENT B

#### MONITORING WELL PURGING AND SAMPLING PROCEDURES

#### STANTEC MONITORING WELL PURGING AND SAMPLING PROCEDURES

Monitoring well purging and sampling methods follow procedures outlined by the County of San Diego Department of Environmental Health, Site Assessment and Mitigation Manual.

#### **Purge Procedures**

- A. Using a decontaminated instrument (i.e., tape measure, continuity meter, or interface probe) measure the depth to groundwater in reference to the measuring point at the top of the casing. Measure the total depth of the well to calculate the height and volume of water in the borehole.
- B. Decontaminate the purge pump and/or PVC bailers by scrubbing in Alconox detergent solution, followed by a tap water rinse and then a deionized water rinse.
- C. Purge, by pumping or bailing, approximately one borehole volume of groundwater as calculated according to the thickness of the water column and the diameter of the borehole.
- D. Conduct field measurements (i.e., pH and conductivity) after the approximately one borehole volume has been purged, or if the water level in the well is so low as to prevent further purging (dry).
  - 1) If the well has not been purged dry, continue to bail and/or pump one half additional borehole volumes and conduct field measurements again.
    - a) If the first and second series of measurements vary by less than 10 percent, the well has been adequately purged. Allow the well to recover to 80 percent of its static condition and begin the sampling procedure.
    - b) If the measurements vary by 10 percent or greater, repeat Step D1 above.
  - 2) If the well has been purged dry, measure the water level and allow the well to recharge to 80 percent, or for two hours, whichever occurs first. Calculate the percent recovery.
    - a) If the well recovers less than 80 percent within two hours, it is a slow recharging well. Begin the sampling procedure.
    - b) If the well recovers to 80 percent or more within two hours, it is a fast recharging well. Repeat Step D1 above.

#### **Sampling Procedures**

- Use a disposable bailer to collect the groundwater sample.
- Fit the stopcock onto the base of the bailer and transfer the groundwater sample into the appropriate container(s). Where applicable, some containers are completely filled to achieve zero headspace. Label the samples according to location and date of collection.
- Enter the samples into Stantec Chain-of-Custody protocol and preserve on ice until delivery to the analytical laboratory. Complete the Well Development/Purging/Sampling Log to be stored in the project file.
- When requested by the client, collect bailer rinsate blank of deionized water to check decontamination procedure. In addition, trip blanks prepared by the laboratory and kept with the samples may be included to check for cross contamination of samples within the cooler. Additional and/or alternate field QA/QC samples can be collected and analyzed upon client request.

#### ATTACHMENT C

# LABORATORY REPORT CHAIN-OF-CUSTODY DOCUMENTATION



Date: 12/28/2011

#### Laboratory Results

Arturo Hoyos Stantec Consulting Corp - San Diego 9179 Aero Dr. San Diego, CA 92123

Subject: 9 Water Samples

Project Name: 7-Eleven #16439 Project Number: 211701006

Dear Mr. Hoyos,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC standard. All soil samples are reported on a total weight (wet weight) basis unless noted otherwise in the case narrative. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Date: 12/28/2011

Project Name: **7-Eleven #16439** 

Project Number: 211701006

Sample: MW-2 Matrix: Water Lab Number: 79871-01

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 01:22
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 01:22
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 01:22
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 01:22
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 01:22
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 01:22
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 01:22
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 01:22
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/23/11 01:22
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/23/11 01:22
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	12/23/11 01:22
Toluene - d8 (Surr)	94.4		% Recovery	EPA 8260B	12/23/11 01:22



Date: 12/28/2011

Project Name: 7-Eleven #16439

Project Number: 211701006

Sample: MW-3 Matrix: Water Lab Number: 79871-02

	Measured	Method Reporting		Analysis	Date/Time
Parameter	Value	Limit	Units	Method	Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 01:54
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 01:54
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 01:54
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 01:54
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 01:54
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 01:54
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 01:54
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 01:54
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/23/11 01:54
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/23/11 01:54
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	12/23/11 01:54
Toluene - d8 (Surr)	93.6		% Recovery	EPA 8260B	12/23/11 01:54



Date: 12/28/2011

Project Name: **7-Eleven #16439** 

Project Number: 211701006

Sample: MW-4 Matrix: Water Lab Number: 79871-03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time
raiailletei	value	LIIIII	Ullis		Analyzed
Benzene	1.4	0.50	ug/L	EPA 8260B	12/23/11 02:27
Toluene	0.86	0.50	ug/L	EPA 8260B	12/23/11 02:27
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 02:27
Total Xylenes	1.5	0.50	ug/L	EPA 8260B	12/23/11 02:27
Methyl-t-butyl ether (MTBE)	0.74	0.50	ug/L	EPA 8260B	12/23/11 02:27
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 02:27
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 02:27
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 02:27
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/23/11 02:27
TPH as Gasoline	1800	50	ug/L	EPA 8260B	12/23/11 02:27
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	12/23/11 02:27
Toluene - d8 (Surr)	95.5		% Recovery	EPA 8260B	12/23/11 02:27



Date: 12/28/2011

Project Name: **7-Eleven #16439** 

Project Number: 211701006

Sample: MW-7 Matrix: Water Lab Number: 79871-04

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	3.1	0.50	ug/L	EPA 8260B	12/27/11 14:36
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/27/11 14:36
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/27/11 14:36
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/27/11 14:36
Methyl-t-butyl ether (MTBE)	17	0.50	ug/L	EPA 8260B	12/27/11 14:36
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/27/11 14:36
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/27/11 14:36
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/27/11 14:36
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/27/11 14:36
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/27/11 14:36
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	12/27/11 14:36
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	12/27/11 14:36



Date: 12/28/2011

Project Name: 7-Eleven #16439

Project Number: 211701006

Sample: MW-8 Matrix: Water Lab Number: 79871-05

Sample Date .12/10/2011		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 03:32
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 03:32
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 03:32
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 03:32
Methyl-t-butyl ether (MTBE)	20	0.50	ug/L	EPA 8260B	12/23/11 03:32
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 03:32
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 03:32
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 03:32
Tert-Butanol	20	5.0	ug/L	EPA 8260B	12/23/11 03:32
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/23/11 03:32
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	12/23/11 03:32
Toluene - d8 (Surr)	93.7		% Recovery	EPA 8260B	12/23/11 03:32



Date: 12/28/2011

Project Name: **7-Eleven #16439** 

Project Number: 211701006

Sample: MW-9 Matrix: Water Lab Number: 79871-06

	Measured	Method		Analysis	Date/Time
Parameter	Value	Reporting Limit	Units	Analysis Method	Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 04:04
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 04:04
Ethylbenzene	0.96	0.50	ug/L	EPA 8260B	12/23/11 04:04
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 04:04
Methyl-t-butyl ether (MTBE)	9.1	0.50	ug/L	EPA 8260B	12/23/11 04:04
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 04:04
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 04:04
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 04:04
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/23/11 04:04
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/23/11 04:04
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	12/23/11 04:04
Toluene - d8 (Surr)	94.3		% Recovery	EPA 8260B	12/23/11 04:04



Date: 12/28/2011

Project Name: 7-Eleven #16439

Project Number: 211701006

Sample: MW-10 Matrix: Water Lab Number: 79871-07

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 04:37
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 04:37
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 04:37
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 04:37
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 04:37
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 04:37
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 04:37
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 04:37
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/23/11 04:37
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/23/11 04:37
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	12/23/11 04:37
Toluene - d8 (Surr)	93.8		% Recovery	EPA 8260B	12/23/11 04:37



Date: 12/28/2011

Project Name: 7-Eleven #16439

Project Number: 211701006

Sample: MW-11 Matrix: Water Lab Number: 79871-08

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 05:09
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 05:09
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 05:09
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 05:09
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 05:09
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 05:09
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 05:09
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 05:09
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/23/11 05:09
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/23/11 05:09
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	12/23/11 05:09
Toluene - d8 (Surr)	94.0		% Recovery	EPA 8260B	12/23/11 05:09



Date: 12/28/2011

Project Name: 7-Eleven #16439

Project Number: 211701006

Sample: MW-12 Matrix: Water Lab Number: 79871-09

Sample Date : 12/10/2011		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 05:42
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 05:42
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 05:42
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 05:42
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 05:42
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 05:42
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 05:42
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/23/11 05:42
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/23/11 05:42
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/23/11 05:42
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	12/23/11 05:42
Toluene - d8 (Surr)	93.5		% Recovery	EPA 8260B	12/23/11 05:42

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report: Method Blank Data

Project Name: 7-Eleven #16439

Project Number: 211701006

Date Analyzed

Report Number: 79871

Date: 12/28/2011

		704+074						10 ch	
	Measured	Reporting	Вí	Analysis	Date		Measured	ou irting	Analysis
Parameter	Value	Limit	Units	Method	Analyzed	Parameter	Value	Limit Units	Method
Benzene	< 0.50	0.50	ng/L	<b>EPA 8260B</b>	12/27/2011				
Ethylbenzene	< 0.50	0.50	ng/L	<b>EPA 8260B</b>	12/27/2011				
Toluene	< 0.50	0.50	ng/L	<b>EPA 8260B</b>	12/27/2011				
Total Xylenes	< 0.50	0.50	ng/L	<b>EPA 8260B</b>	12/27/2011				
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	<b>EPA 8260B</b>	12/27/2011				
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ng/L	<b>EPA 8260B</b>	12/27/2011				
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ng/L	<b>EPA 8260B</b>	12/27/2011				
Tert-Butanol	< 5.0	2.0	ng/L	<b>EPA 8260B</b>	12/27/2011				
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ng/L	EPA 8260B	12/27/2011				
TPH as Gasoline	< 50	20	ng/L	EPA 8260B	12/27/2011				
1,2-Dichloroethane-d4 (Surr)	2.66		%	<b>EPA 8260B</b>	12/27/2011				
Toluene - d8 (Surr)	99.3		%	EPA 8260B	12/27/2011				
Benzene	< 0.50	0.50	ng/L	<b>EPA 8260B</b>	12/22/2011				
Ethylbenzene	< 0.50	0.50	ng/L	<b>EPA 8260B</b>	12/22/2011				
Toluene	< 0.50	0.50	ng/L	<b>EPA 8260B</b>	12/22/2011				
Total Xylenes	< 0.50	0.50	ng/L	EPA 8260B	12/22/2011				
Diisopropyl ether (DIPE)	< 0.50	0.50	ng/L	<b>EPA 8260B</b>	12/22/2011				
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ng/L	<b>EPA 8260B</b>	12/22/2011				
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ng/L	<b>EPA 8260B</b>	12/22/2011				
Tert-Butanol	< 5.0	2.0	ng/L	<b>EPA 8260B</b>	12/22/2011				
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ng/L	EPA 8260B	12/22/2011				
TPH as Gasoline	< 50	20	ng/L	EPA 8260B	12/22/2011				
1,2-Dichloroethane-d4 (Surr)	101		%	<b>EPA 8260B</b>	12/22/2011				
Toluene - d8 (Surr)	94.7		%	<b>EPA 8260B</b>	12/22/2011				

QC Report: Matrix Spike/ Matrix Spike Duplicate

Report Number: 79871

Date: 12/28/2011

Project Name: 7-Eleven #16439

Project Number: 211701006

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	J Units	Analysis Method	Spil San Date Per Analyzed Rec	Duplicate Spiked Spiked Sample Sample I Percent Percent I Recov. Recov.	te Relative Percent Diff.	Spiked Sample Percent Recov.	Relative Percent Diff. Limit
Benzene													
	79893-01	<0.50	40.0	40.0	39.7	39.3	ng/L	EPA 8260B	12/27/11 99.2	98.2	0.995	80-120	25
Diisopropyl ether	Ŀ												
	79893-01	<0.50	39.5	39.5	42.4	42.4	ng/L	EPA 8260B	12/27/11 107	107	0.0226	80-120	25
Ethyl-tert-butyl ether	ether												
	79893-01	<0.50	40.0	40.0	42.4	43.0	ng/L	EPA 8260B	12/27/11 106	107	1.25	76.5-120	25
Ethylbenzene													
	79893-01	<0.50	40.0	40.0	42.1	41.7	ng/L	EPA 8260B	12/27/11 105	104	1.1	80-120	25
Methyl-t-butyl ether	ther												
	79893-01	13	40.4	40.4	26.0	8.99	ng/L	EPA 8260B	12/27/11 106	108	1.97	69.7-121	25
P + M Xylene													
	79893-01	<0.50	40.0	40.0	41.8	41.8	ng/L	EPA 8260B	12/27/11 104	104	0.0838	76.8-120	25
Tert-Butanol													
	79893-01	<5.0	201	201	202	202	ng/L	EPA 8260B	12/27/11 101	100	0.378	80-120	25
Tert-amyl-methyl ether	yl ether												
	79893-01	<0.50	39.4	39.4	43.4	43.8	ng/L	EPA 8260B	12/27/11 110	111	1.10	78.9-120	25
Toluene													
	79893-01	<0.50	40.0	40.0	41.0	40.4	ng/L	EPA 8260B	12/27/11 103	101	1.61	80-120	25

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800 KIFF ANALYTICAL, LLC

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number: 79871

Date: 12/28/2011

Project Name: 7-Eleven #16439

Project Number: 211701006

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	J Units	Analysis Method	Spiked Sample Date Percent Analyzed Recov.	Duplicate Spiked Sample Int Percent Int Recov.	Relative Percent I	Spiked Sample Percent Recov.	Relative Percent Diff. Limit
Benzene													
	79869-02	1.2	40.0	40.0	43.0	42.5	ng/L	<b>EPA 8260B</b>	12/22/11 105	103	1.25	80-120	25
Diisopropyl ether	Je.												
	79869-02	<0.50	39.5	39.5	46.3	46.8	ng/L	<b>EPA 8260B</b>	12/22/11 117	118	1.23	80-120	25
Ethyl-tert-butyl ether	ether												
	79869-02	<0.50	40.0	40.0	44.4	44.9	ng/L	EPA 8260B	12/22/11 111	112	1.13	76.5-120	25
Ethylbenzene													
	79869-02	<0.50	40.0	40.0	42.7	42.4	ng/L	EPA 8260B	12/22/11 107	106	0.585	80-120	25
Methyl-t-butyl ether	ther												
	79869-02	<0.50	40.4	40.4	45.4	45.3	ng/L	EPA 8260B	12/22/11 112	112	0.173	69.7-121	25
P + M Xylene													
	79869-02	<0.50	40.0	40.0	43.4	43.0	ng/L	EPA 8260B	12/22/11 108	108	0.941	76.8-120	25
Tert-Butanol													
	79869-02	<5.0	201	201	201	201	ng/L	EPA 8260B	12/22/11 100	6.66	0.302	80-120	25
Tert-amyl-methyl ether	yl ether												
	79869-02	<0.50	39.4	39.4	42.5	42.1	ng/L	EPA 8260B	12/22/11 108	107	1.04	78.9-120	25
Toluene													
	79869-02	<0.50	40.0	40.0	39.4	39.3	ng/L	EPA 8260B	12/22/11 98.6	98.4	0.252	80-120	25

QC Report : Laboratory Control Sample (LCS)

Report Number: 79871

Date: 12/28/2011

Project Name: 7-Eleven #16439

Project Number: 211701006

					SS	LCS
Parameter	Spike Level	Units	Analysis Method	Date Analyzed	Percent Recov.	Recov. Limit
Benzene	40.1	ng/L	<b>EPA 8260B</b>	12/27/11	6.66	80-120
Diisopropyl ether	39.6	ng/L	<b>EPA 8260B</b>	12/27/11	109	80-120
Ethyl-tert-butyl ether	40.1	ng/L	<b>EPA 8260B</b>	12/27/11	110	76.5-120
Ethylbenzene	40.1	ng/L	<b>EPA 8260B</b>	12/27/11	107	80-120
Methyl-t-butyl ether	40.5	ng/L	<b>EPA 8260B</b>	12/27/11	107	69.7-121
P + M Xylene	40.1	ng/L	<b>EPA 8260B</b>	12/27/11	107	76.8-120
TPH as Gasoline	502	ng/L	<b>EPA 8260B</b>	12/27/11	96.5	70.0-130
Tert-Butanol	202	ng/L	<b>EPA 8260B</b>	12/27/11	102	80-120
Tert-amyl-methyl ether	39.5	ng/L	<b>EPA 8260B</b>	12/27/11	109	78.9-120
Toluene	40.1	ng/L	<b>EPA 8260B</b>	12/27/11	103	80-120
Benzene	39.9	ug/L	EPA 8260B	12/22/11	102	80-120
Diisopropyl ether	39.4	ng/L	<b>EPA 8260B</b>	12/22/11	114	80-120
Ethyl-tert-butyl ether	39.9	ng/L	<b>EPA 8260B</b>	12/22/11	108	76.5-120
Ethylbenzene	39.9	ng/L	<b>EPA 8260B</b>	12/22/11	104	80-120
Methyl-t-butyl ether	40.3	ng/L	<b>EPA 8260B</b>	12/22/11	108	69.7-121
P + M Xylene	39.9	ng/L	<b>EPA 8260B</b>	12/22/11	106	76.8-120
TPH as Gasoline	504	ng/L	<b>EPA 8260B</b>	12/22/11	104	70.0-130
Tert-Butanol	200	ng/L	<b>EPA 8260B</b>	12/22/11	100	80-120
Tert-amyl-methyl ether	39.4	ng/L	<b>EPA 8260B</b>	12/22/11	104	78.9-120
Toluene	39.9	ng/L	<b>EPA 8260B</b>	12/22/11	6.96	80-120

KIFF ANALYTICAL, LLC

KIFF Analytical LC	2795 2nd Street 8 Davis, CA 95616 Lab: 530.297.48 Fax: 530.297.44	2795 2nd Street Suite 300 Davis, CA 95616 Lab: 530.297.4800 Fax: 530.297.4802	300		, 	SRG#/Lab No.	ab No.	79	7987)			Page 1	of	-
Project Contact (Hardcopy or PDF To): Arturo Hovos		California EDF Report?	Report?	√ Yes		ջ □		Chain-o	f-Custod	Chain-of-Custody Record and Analysis Request	and Analy	sis Requ	est	
Company / Address: Stantec		Sampling Company Log	12	Code:			_		Analy	Analysis Request			TAT	
rive, San Diego, CA 92123				SISD										
Phone #: 619-296-6195   619-29	к#: 619-296-6199	Global IU:		T0607301281	281		(80						12 hr	λĮL
Project #: P.O. #: 211701006	_	EDF Deliverable To (Email Address): ☐ Jenna.Martinez@stan	rable To (Emai Jenna.Martin	nail Address): tine <b>z</b> @stantec.com	c.com		978) )						74 hr	IO 98
Project Name: 7-Eleven #16439		Sample Signature	1	h			s/BTE)							Uab U
Project Address: S.	Sampling	Containe	er (	Preservative	Н	Matrix	1 Gg						48hr	10-]
hway 80	,	AO		HOBN			HqT\asten						72 hr	
Sample Designation Date	Time	40 ml V Sleeve Poly Glass	Tedlar Tedlar	HNO3 None Spans	Water	Soil Air	э Охуде						<b>⊅</b> ‡	
ď		e	3		×		×						1 wk	0 [
MW-3	hEC/	8	3		×		×						1 wk	00
MW-4	1603	8	3		×		×						1 WK	63
MW-7	1330	en en	3		×		×						1 wk	٦0
MW-8	4451	3	3		×		×						1 wk	65
6-WM	£9h1	.3	3		×		×						1 wk	00
MW-10	1221	3	3		×		×						1 wk	10
MW-11	0011	3	3		×		×						1 wk	80
MW-12	11152	က	က		×		×						- k	ह
						7								
Relinquished by:	Date (19/21/11	Time // (3:35	Received by:	6	R. J.	40		Remarks:						
Relinquished by C. A.	Date	Time /	Received by:	X pull X	F) Ca	X S		5 Oxy	genates ir	5 Oxygenates include: MTBE, TAME, TBA, DIPE & ETBE	E, TAME, 1	BA, DIPE	& ETBE	
KA ASKEL RA	₹ 							Bill to:						
	Date	Time	Received b	Received by Laboratory:					For	For Lab Use Only:	y: Sample Receipt	Receipt		
	12221		My Wille	S. M.	3	' T a	KIF Frank	Temp °C	Initials	Date	Time	Therm. ID#	Yes / No	No No
Distribution: Original - Lab; Photocopy - Originator														



### SAMPLE RECEIPT CHECKLIST

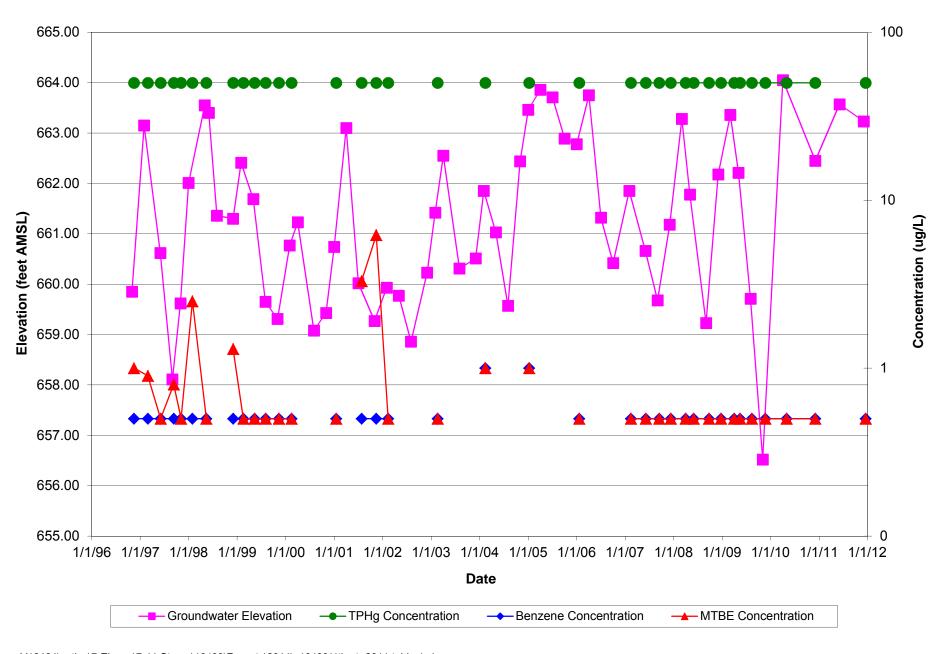
	RECEIVER	
	MAS	
1	Initiale	

SRG#:	79871	Date	e: 122211	
Project ID:	7-Eleven	H 16439		
Method of Receipt:	Courier	Over-the-counter	Shipper	
COC Inspection Is COC present? Custody seals on shipping container? Is COC Signed by Relinquisher? Is sampler name legibly indicated on COC Is analysis or hold requested for all sam Is the turnaround time indicated on COC Is COC free of whiteout and uninitialed	ples C?	Dated? Yes  Dated? Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes	☐ No	t \( \sum \text{No, Cross-outs} \)
Sample Inspection Coolant Present: Temperature °C	iners?  No No, Coll, water, air or carling or damaged? Yes, on sample contequested? Or the analyses requesting? Strong odor or are one No.	itial MAS Date/ Intact COC lists absent sample bon? Yes Yes ainers Yes, or Yes	No No No No No No No No No Eived 27 eived	Not present mple(s) present    N/A   N/A
Are the Sample ID's indicated: If Sample ID's are listed on both COC a Is the Project ID indicated: If project ID is listed on both COC and a Are the sample collection dates indicate If collection dates are listed on both CO Are the sample collection times indicate If collection times are listed on both CO COMMENTS:	On COC	ney all match?  sample container(s)  all match? Yes  On sample contain  o they all match?  On sample contain	No ∏ N/A iner(s) ☐ On Both Yoyes ∏ No	☐ Not indicated ☐ N/A indicated ☐ Not indicated ☐ N/A ☐ Not indicated ☐ N/A ☐ Not indicated ☐ N/A
*				

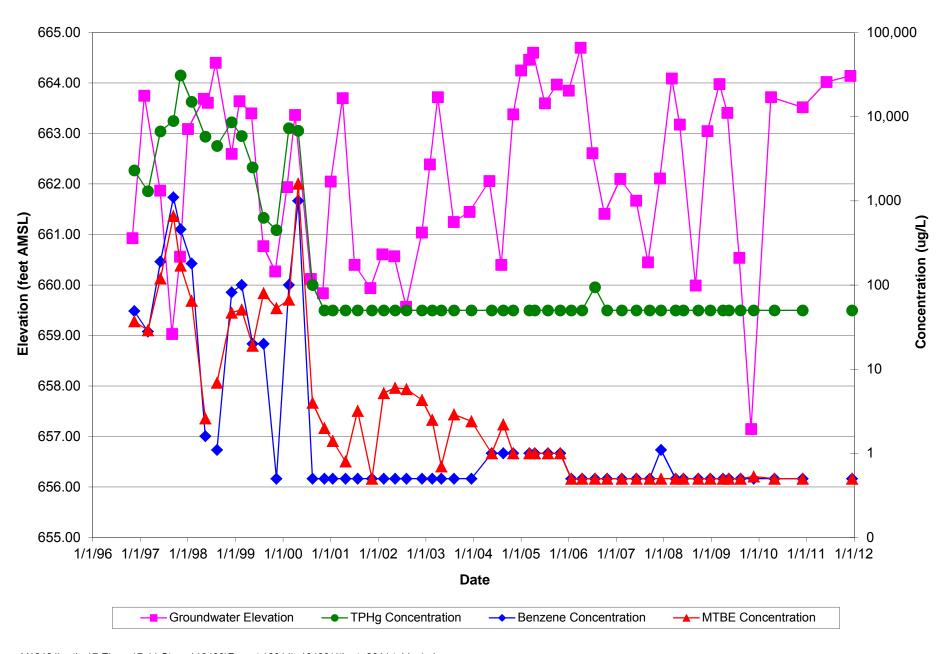
#### **ATTACHMENT D**

#### **HYDROGRAPHS**

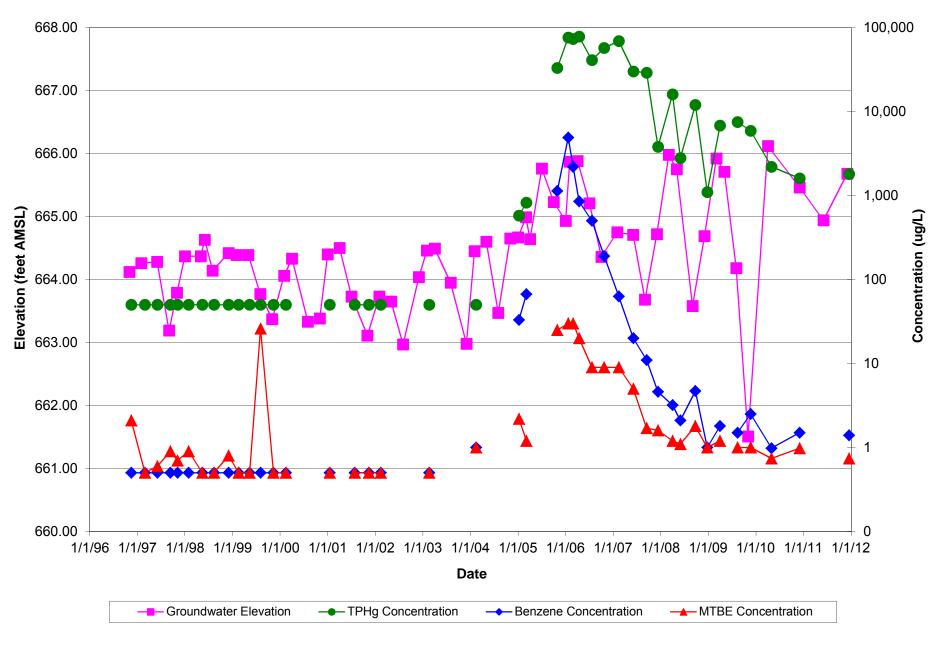
#### Hydrograph for MW-2 7-Eleven Store No. 16439



#### Hydrograph for MW-3 7-Eleven Store No. 16439



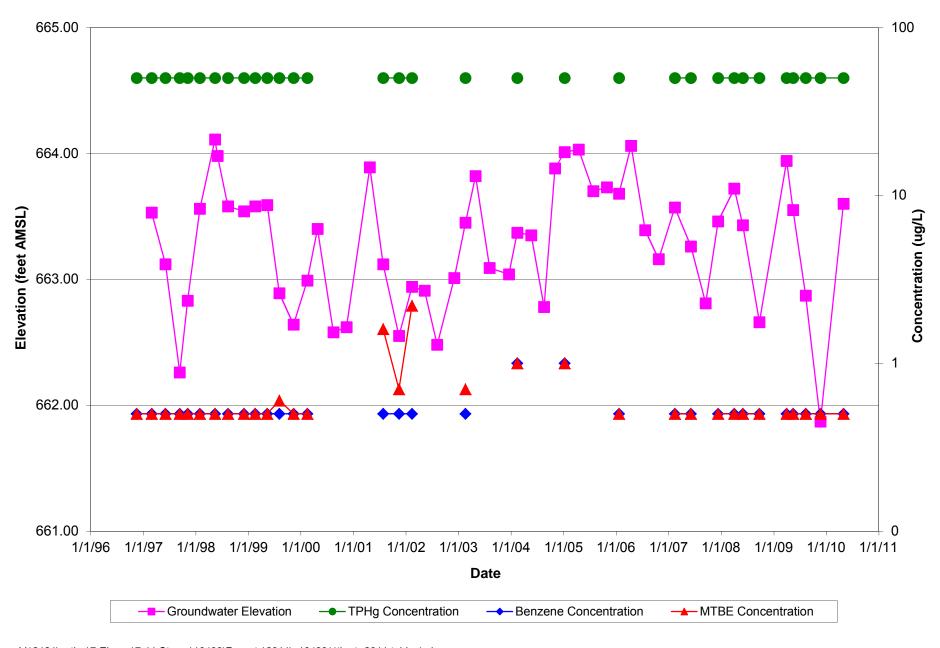
#### Hydrograph for MW-4 7-Eleven Store No. 16439



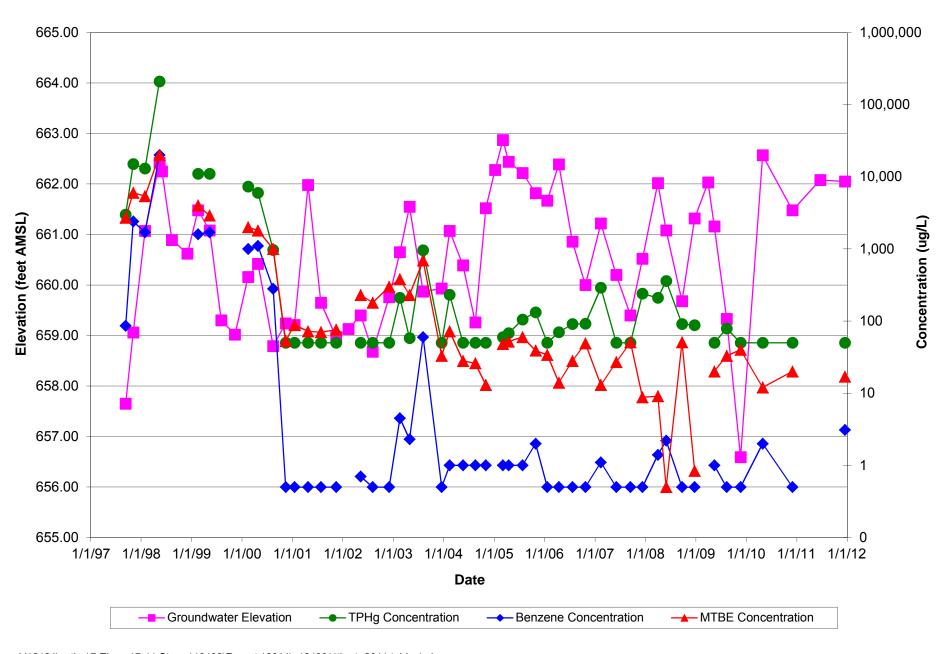
#### Hydrograph for MW-5 7-Eleven Store No. 16439



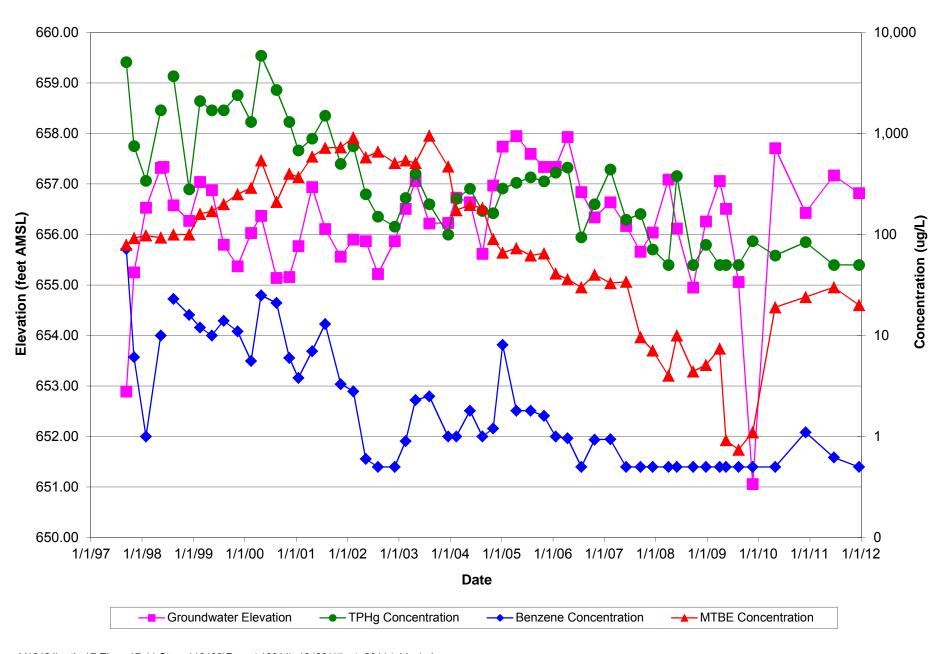
#### Hydrograph for MW-6 7-Eleven Store No. 16439



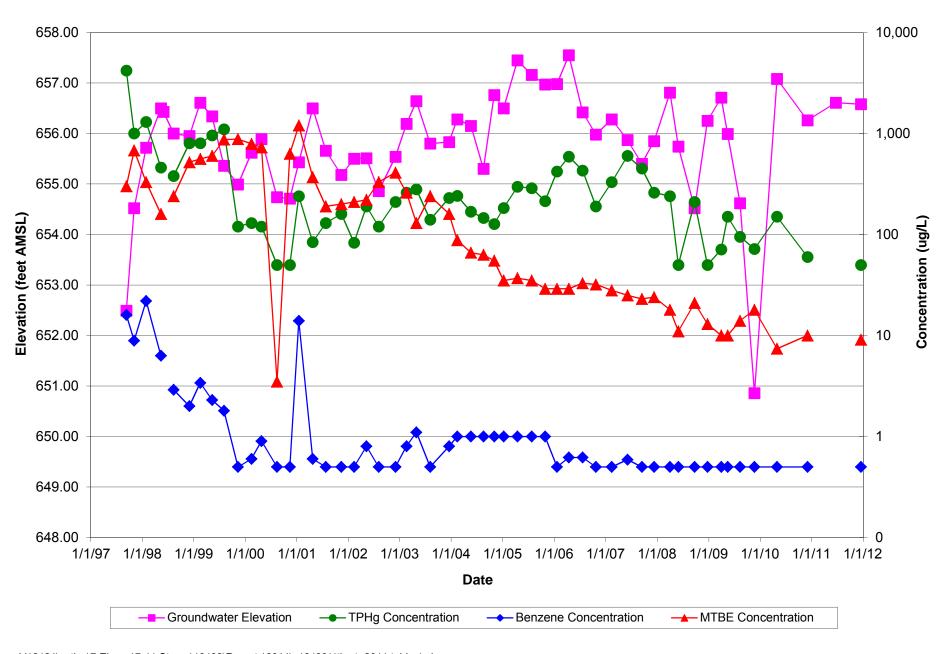
#### Hydrograph for MW-7 7-Eleven Store No. 16439



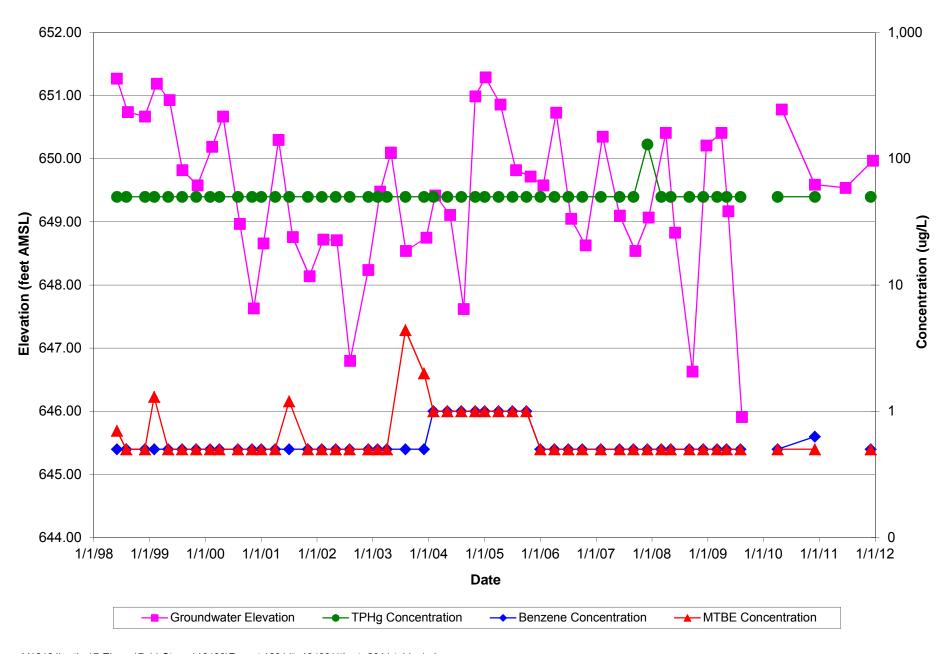
#### Hydrograph for MW-8 7-Eleven Store No. 16439



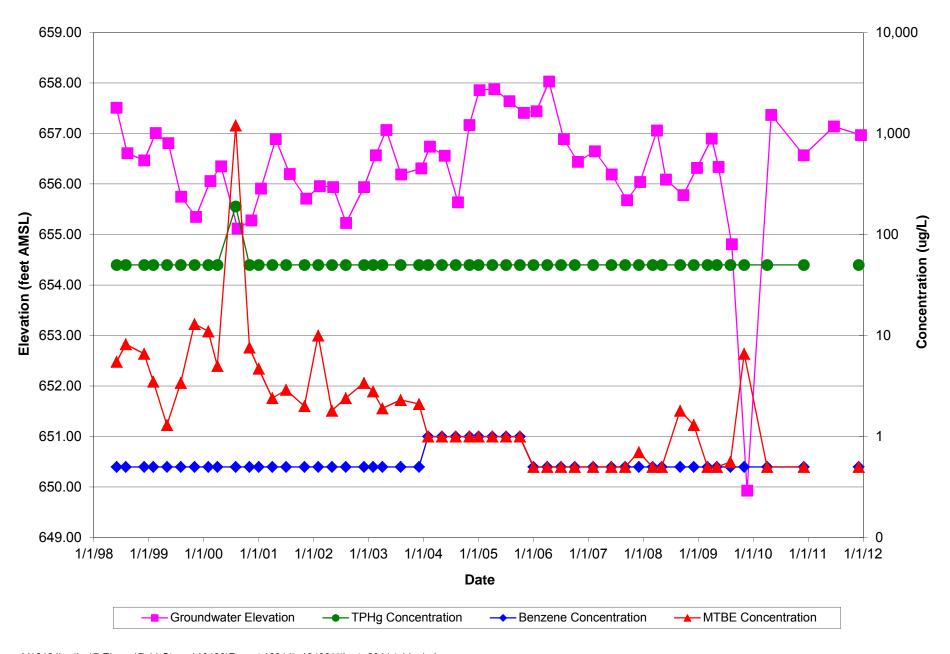
#### Hydrograph for MW-9 7-Eleven Store No. 16439



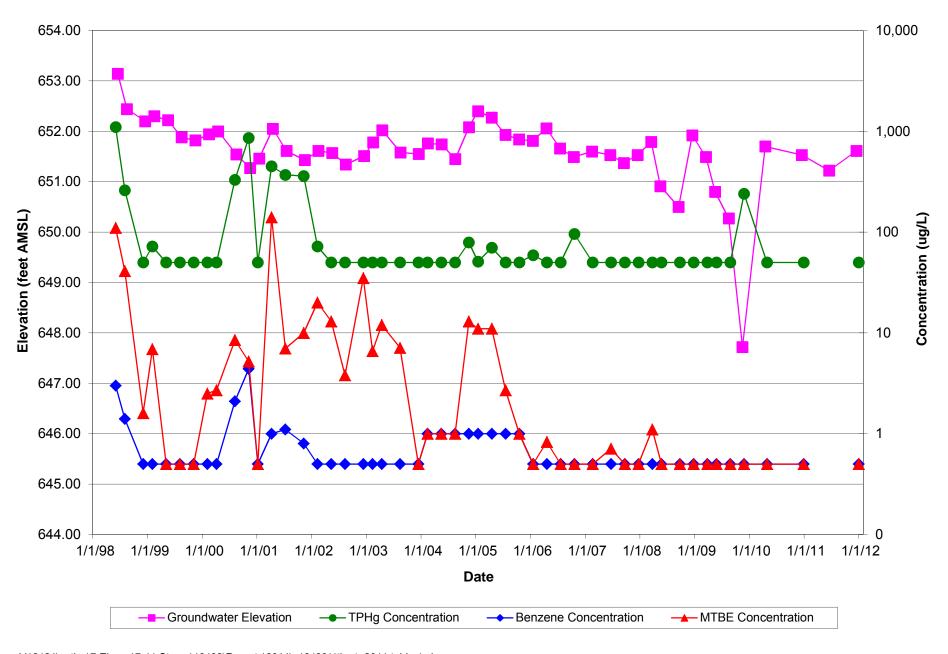
## Hydrograph for MW-10 7-Eleven Store No. 16439



#### Hydrograph for MW-11 7-Eleven Store No. 16439



#### Hydrograph for MW-12 7-Eleven Store No. 16439



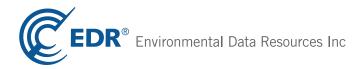
	SCS ENGINEERS
ENVIRONMENTAL REGULATORY DATABASE	REPORT

Hwy 80 14135 Olde Highway 80 El Cajon, CA 92021

Inquiry Number: 3954378.2s

May 28, 2014

# FirstSearch Report



#### **Search Summary Report**

TARGET SITE 14135 OLDE HIGHWAY 80 EL CAJON, CA 92021

Category	Sel	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
<b>NPL</b>	Υ	0	0	0	0	0	0	0
NPL Delisted	Υ	0	0	0	0	0	0	0
CERCLIS	Υ	0	0	0	0	-	0	0
NFRAP	Υ	0	0	0	0	-	0	0
RCRA COR ACT	Υ	0	0	0	0	0	0	0
RCRA TSD	Υ	0	0	0	0	-	0	0
RCRA GEN	Υ	0	0	0	-	-	0	0
Federal IC / EC	Υ	0	0	0	0	-	0	0
ERNS	Υ	0	-	-	-	-	0	0
State/Tribal NPL	Υ	0	0	0	0	0	0	0
State/Tribal CERCLIS	Υ	0	0	0	0	0	0	0
State/Tribal SWL	Υ	0	0	0	0	-	0	0
State/Tribal LTANKS	Υ	0	4	0	3	-	0	7
State/Tribal Tanks	Υ	0	1	1	-	-	0	2
State/Tribal VCP	Υ	0	0	0	0	-	0	0
US Brownfields	Υ	0	0	0	0	-	0	0
Other SWF	Υ	0	0	0	0	-	0	0
Other Haz Sites	Υ	0	-	-	-	-	0	0
Other Tanks	Υ	0	1	0	-	-	1	2
Local Land Records	Υ	0	0	0	0	-	0	0
Spills	Υ	0	-	-	-	-	0	0
Other	Υ	0	1	2	-	-	38	41
	- Totals	. 0	7	3	3	0	39	52

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# **Search Summary Report**

TARGET SITE: 14135 OLDE HIGHWAY 80 EL CAJON, CA 92021

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
NPL	NPL	10/25/2013	1.000	0	0	0	0	0	0	0
	Proposed NPL	10/25/2013	1.000	0	0	0	0	0	0	0
NPL Delisted	Delisted NPL	10/25/2013	1.000	0	0	0	0	0	0	0
CERCLIS	CERCLIS	10/25/2013	0.500	0	0	0	0	-	0	0
NFRAP	CERC-NFRAP	10/25/2013	0.500	0	0	0	0	-	0	0
RCRA COR ACT	CORRACTS	03/11/2014	1.000	0	0	0	0	0	0	0
RCRA TSD	RCRA-TSDF	03/11/2014	0.500	0	0	0	0	-	0	0
RCRA GEN	RCRA-LQG	03/11/2014	0.250	0	0	0	-	-	0	0
	RCRA-SQG	03/11/2014	0.250	0	0	0	-	-	0	0
	RCRA-CESQG	03/11/2014	0.250	0	0	0	-	-	0	0
Federal IC / EC	US ENG CONTROLS	12/17/2013	0.500	0	0	0	0	-	0	0
	US INST CONTROL	12/17/2013	0.500	0	0	0	0	-	0	0
ERNS	ERNS	09/30/2013	TP	0	-	-	-	-	0	0
State/Tribal NPL	RESPONSE	05/05/2014	1.000	0	0	0	0	0	0	0
State/Tribal CERCLIS	ENVIROSTOR	05/05/2014	1.000	0	0	0	0	0	0	0
State/Tribal SWL	SWF/LF	05/19/2014	0.500	0	0	0	0	-	0	0
State/Tribal LTANKS	LUST	05/01/2014	0.500	0	2	0	2	_	0	4
	SLIC	05/01/2014	0.500	0	1	0	0	-	0	1
	SAN DIEGO CO. SAM	03/23/2010	0.500	0	1	0	1	-	0	2
	INDIAN LUST	02/01/2013	0.500	0	0	0	0	-	0	0
State/Tribal Tanks	UST	03/17/2014	0.250	0	1	1	-	-	0	2
	AST	08/01/2009	0.250	0	0	0	-	-	0	0
	INDIAN UST	02/01/2013	0.250	0	0	0	-	-	0	0
State/Tribal VCP	VCP	05/05/2014	0.500	0	0	0	0	-	0	0
US Brownfields	US BROWNFIELDS	03/20/2014	0.500	0	0	0	0	-	0	0

# **Search Summary Report**

TARGET SITE: 14135 OLDE HIGHWAY 80 EL CAJON, CA 92021

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
Other SWF	WMUDS/SWAT	04/01/2000	0.500	0	0	0	0	-	0	0
Other Haz Sites	US CDL	12/04/2013	TP	0	-	-	-	-	0	0
	SCH	05/05/2014	0.250	0	0	0	-	-	0	0
	San Diego Co. HMMD	09/23/2013	TP	0	-	-	-	-	0	0
Other Tanks	CA FID UST	10/31/1994	0.250	0	0	0	-	-	0	0
	SWEEPS UST	06/01/1994	0.250	0	1	0	-	-	1	2
Local Land Records	DEED	03/10/2014	0.500	0	0	0	0	-	0	0
Spills	HMIRS	12/31/2013	TP	0	_	_	_	_	0	0
-1-	CHMIRS	02/04/2014	TP	0	_	-	-	-	0	0
	SPILLS 90	06/06/2012	TP	0	-	-	-	-	0	0
Other	RCRA NonGen / NLR	03/11/2014	TP	0	_	_	_	-	0	0
	TRIS	12/31/2011	TP	0	-	-	-	-	0	0
	TSCA	12/31/2006	TP	0	-	-	-	-	0	0
	FTTS	04/09/2009	TP	0	-	-	-	-	0	0
	SSTS	12/31/2009	TP	0	-	-	-	-	0	0
	ICIS	07/20/2011	TP	0	-	-	-	-	0	0
	PADS	06/01/2013	TP	0	-	-	-	-	0	0
	MLTS	07/22/2013	TP	0	-	-	-	-	0	0
	RADINFO	01/09/2014	TP	0	-	-	-	-	0	0
	FINDS	11/18/2013	TP	0	-	-	-	-	0	0
	RAATS	04/17/1995	TP	0	-	-	-	-	0	0
	Cortese	03/31/2014	0.500	0	0	0	0	-	0	0
	CUPA Listings		0.250	0	0	0	-	-	0	0
	HAZNET	12/31/2012	0.250	0	1	2	-	-	38	41
	INDIAN RESERV	12/31/2005	1.000	0	0	0	0	0	0	0
	PRP	04/15/2013	TP	0	-	-	-	-	0	0
	WDS	06/19/2007	TP	0	-	-	-	-	0	0
	US AIRS	10/23/2013	TP	0	-	-	-	-	0	0
	- Totals			0	7	3	3	0	39	52

#### **Site Information Report**

Request Date:MAY 28, 2014Search Type:COORDRequest Name:HARRY BISHOPJob Number:NA

Target Site: 14135 OLDE HIGHWAY 80

EL CAJON, CA 92021

#### Site Location

 Degrees (Decimal)
 Degrees (Min/Sec)
 UTMs

 Longitude:
 116.879500
 116.8795000 - 116° 52′ 46.20″
 Easting: 511276.7

 Latitude:
 32.843200
 32.8432000 - 32° 50′ 35.52″
 Northing: 3633720.2

 Elevation:
 672 ft. above sea level
 Zone: Zone 11

#### Demographics

Sites: 13 Non-Geocoded: 39 Population: N/A

**RADON** 

Federal EPA Radon Zone for SAN DIEGO County: 3

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

\_\_\_\_

Federal Area Radon Information for Zip Code: 92021

Number of sites tested: 1

% <4 pCi/L % 4-20 pCi/L % >20 pCi/L Area Average Activity Living Area - 1st Floor 0.600 pCi/L 100% 0% Living Area - 2nd Floor Not Reported Not Reported Not Reported Not Reported **Basement** Not Reported Not Reported Not Reported Not Reported

\_\_\_\_

Federal Area Radon Information for SAN DIEGO COUNTY, CA

Number of sites tested: 30

 Area
 Average Activity
 % <4 pCi/L</th>
 % 4-20 pCi/L
 % >20 pCi/L

 Living Area - 1st Floor
 0.677 pCi/L
 100%
 0%
 0%

Basement Not Reported Not Reported Not Reported Not Reported

### **Site Information Report**

RADON					
	State Database: CA	A Radon			
	Radon Test Res	sults			
	Zipcode 	Num Tests	> 4 pCi/L		
	92021	34	1		

## **Target Site Summary Report**

14135 OLDE HIGHWAY 80 EL CAJON, CA 92021 Target Property:

JOB: NA

GEOCODED: 13 TOTAL: 52 NON GEOCODED:

**DB Type** 

--ID/Status Site Name Dist/Dir ElevDiff Map ID Address Page No.

No sites found for target address

14135 OLDE HIGHWAY 80 EL CAJON, CA 92021 Target Property:

JOB:

NA

TOTAL: GEOCODED: 13 NON GEOCODED: 39 52

Map ID	DB Type ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
A1	SLICCompleted - CaseCompleted - Case		14110 OLDE HY 80 EL CAJON, CA 92021	0.07 WNW	+ 3	1
A1	LUST Completed - Case	7-ELEVEN FOOD STORE #16439 Closed	14110 OLDE HY 80 EL CAJON, CA 92021	0.07 WNW	+ 3	3
A2	SAN DIEGO CO. S Remedial Action ( Closed Case	AM7-ELEVEN FOOD STORE #16439 Clean-Up)	14110 OLDE HY 80 EL CAJON, CA 92021	0.07 WNW	+ 3	8
А3	SWEEPS UST A	7-ELEVEN FOOD STORE #16439	14110 OLD HWY 80 EL CAJON, CA 92021	0.08 WNW	+ 2	9
А3	LUST Remedial action (	7-ELEVEN FOOD STORE #16439 cleanup) Underway	14110 OLD HWY 80 EL CAJON, CA 92021	0.08 WNW	+ 2	11
A4	HAZNET	7-ELEVEN STORE 16439	14110 OLDE HWY 80 EL CAJON, CA 92021	0.08 NW	+ 6	12
A5	UST H20203	7-ELEVEN FOOD STORE #16439	14110 OLDE HIGHWAY 80 # 1 EL CAJON, CA 92021	0.08 NW	+ 6	14
6	HAZNET	LUZAICH STRIPING INC	14219 OLDE HIGHWAY 80 EL CAJON, CA 92021	0.15 ENE	+ 30	15
В7	HAZNET	LAKE JENNINGS ARCO	14039 HIGHWAY 8 BUSINESS EL CAJON, CA 92021	0.22 WNW	+ 28	17
B8	UST H38189	LAKE JENNINGS ARCO	14039 HIGHWAY 8 BUSINESS EL CAJON, CA 92021	0.25 NW	+ 35	19
C9	LUST Case Closed	LAKESIDE FIRE STATION #3	14008 HWY 8 BUSINESS LAKESIDE, CA 92040	0.30 WNW	+ 31	20
C10	LUST Completed - Case	LAKESIDE FIRE STATION #3 closed	14008 8 BUSINESS EL CAJON, CA 92021	0.30 WNW	+ 31	21
C11	SAN DIEGO CO. S Closed Case	AMLAKESIDE FIRE PROTECTION DIST	14008 HY 8 BUSINESS EL CAJON, CA 92021	0.30 WNW	+ 31	23

14135 OLDE HIGHWAY 80 EL CAJON, CA 92021 Target Property:

JOB:

NA

TOTAL: 52 GEOCODED: 13 NON GEOCODED: 39

Map ID	DB Type ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
	HAZNET	LLP COASTAL CONCRETE	13685 HIGHWAY 8 BUSINESS EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	LT DESIGN	13706 HWY 8 BUSINESS FREE EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	EL CAJON GRADING	1383 HWY 8 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	RANERI & LONG ROOFING CO INC	13881 HWY 8 BUSINESS EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	CHILDRESS CONCRETE INC.	13685 HWY 8 BUSINESS EL CAJON, CA 92021	NON GC	N/A	N/A
	SWEEPS UST A	ARCO	13292 HIGHWAY 8 BUSINESS EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	SAN DIEGO PACIFIC CREST SERVIC	13272 BUSINESS HWY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	OLSEN STEEL INC	15405 OLD HWY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	HARLAN EQUIPMENT RENTAL, INC	14232 OLD HWY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	D & M MILLER TRUCKING INC	15409 OLD HWY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	VOLKS AUTO	13198 OLD HWY 8 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	PACIFIC BELL	14470 OLD HWY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	LUZAICH STRIPING INC	14219 OLD HWY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	MORELY CONSTRUCTION INC	13881 OLD HWY 8 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	RUTH C DOM TRUST	13216 OLD HWY 8 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	SOCAL MACHINE INC	14310 OLD HWY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	OLDCASTLE PRECAST INC DBA UTIL	15303 OLDE HIGHWAY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	RACER SERVICES	14370 OLDE HIGHWAY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	H AND E EQUIPMENT SERVICES CAL	14470 OLDE HIGHWAY 80 EL CAJON, CA 92021	NON GC	N/A	N/A

JOB:

NA

14135 OLDE HIGHWAY 80 EL CAJON, CA 92021 Target Property:

GEOCODED: 13 NON GEOCODED: 39 TOTAL: 52

Map ID	DB Type ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
	HAZNET	PROLEUM	15303 OLDE HWY EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	PRECISION BELLOWS MANUFACTURIN	15303 OLDE HIGHWAY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	EDDY PUMP CORP	15405 OLDE HIGHWAY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	P TEIXEIRA CONSTRUCTION INC	13675 OLDE HIGHWAY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	RIOS TRUCKING LLC	15405 OLDE HWY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	CUSTOM AIRCRAFT PARTS	14374 OLDE HWY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	CIVIL CONSTRUCTORS CORP	15315 OLDE HIGHWAY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	SOCAL MACHINE INC	14310 OLDE HWY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	ACCURATE PAVING CO	15275 OLDE HIGHWAY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	CAL WEST IRON WORKS	14288 OLDE HIGHWAY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	SOCAL MACHINE INC	14310 OLDE HWY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	EMBLY RANCH	15303 OLDE HWY 80 EL CAJON, CA 92021	NON GC	N/A	N/A
	HAZNET	C A R_INC	1265 HWY 67 LAKESIDE, CA 92040	NON GC	N/A	N/A
	HAZNET	PERSONALIZED AUTO WORKS	12650 HIGHWAY 67 LEVEL 3 LAKESIDE, CA 92040	NON GC	N/A	N/A
	HAZNET	MJ BAXTER DRILLING	12485 HWY 67 NO LAKESIDE, CA 92040	NON GC	N/A	N/A
	HAZNET	WESTERN BULK TRANSPORT INC	1270-8 HWY 67 LAKESIDE, CA 92040	NON GC	N/A	N/A
	HAZNET	EL CAJON GRADING & ENG CO INC	13831 OLD HWY 8 LAKESIDE, CA 92040	NON GC	N/A	N/A
	HAZNET	RIDGECREST ASSOCIATES	13594 OLD HWY 8 LAKESIDE, CA 92040	NON GC	N/A	N/A
	HAZNET	1X RICHARD MCMULLEN	13276 R OLD HWY 8 LAKESIDE, CA 92040	NON GC	N/A	N/A

14135 OLDE HIGHWAY 80 EL CAJON, CA 92021 Target Property:

JOB: NA

NON GEOCODED: 39 GEOCODED: 13 TOTAL: 52

**DB Type** 

Map ID	ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
	HAZNET	BUD'S TRUCKING	12570-8 HWY 67 SAN DIEGO, CA 92040	NON GC	N/A	N/A

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

SLIC

EDR ID: 1000281959 DIST/DIR: 0.073 WNW **ELEVATION:** 675 MAP ID: A1

NAME: 7-ELEVEN FOOD STORE #16439 Rev: 05/01/2014

ID/Status: Completed - Case Closed ADDRESS: 14110 OLDE HY 80 ID/Status: Completed - Case Closed

EL CAJON, CA 92021 SAN DIEGO

**SOURCE:** CA State Water Resources Control Board

SLIC:

Region: STATE

Facility Status: Completed - Case Closed

Status Date: 09/15/1987 Global Id: T0608125562

Lead Agency: SAN DIEGO COUNTY LOP Lead Agency Case Number: H20203-002

Latitude: 32.84388 Longitude: -116.880699 Case Type: Cleanup Program Site

Case Worker: Not reported Local Agency: Not reported RB Case Number: Not reported File Location: Local Agency

Potential Media Affected: Not reported

Potential Contaminants of Concern: Not reported

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Region: STATE

Facility Status: Completed - Case Closed

Status Date: 03/07/1985 Global Id: T0608143516

Lead Agency: SAN DIEGO COUNTY LOP Lead Agency Case Number: H20203-001

Latitude: 32.843935 Longitude: -116.880724 Case Type: Cleanup Program Site

Case Worker: KH

Local Agency: SAN DIEGO COUNTY LOP

RB Case Number: Not reported File Location: Local Agency

Potential Media Affected: Not reported

Potential Contaminants of Concern: Not reported

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Region: STATE

Facility Status: Completed - Case Closed

Status Date: 06/16/1988 Global Id: T0608153308

Lead Agency: SAN DIEGO COUNTY LOP

**Target Property:** 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

SLIC

1000281959 0.073 WNW EDR ID: DIST/DIR: **ELEVATION:** 675 MAP ID: A1

NAME: 7-ELEVEN FOOD STORE #16439 05/01/2014 Rev:

ID/Status: Completed - Case Closed ADDRESS: 14110 OLDE HY 80 ID/Status: Completed - Case Closed

EL CAJON, CA 92021 SAN DIEGO

SOURCE: CA State Water Resources Control Board

Lead Agency Case Number: H20203-003 Latitude: 32.8439423391799 Longitude: -116.880742013454 Case Type: Cleanup Program Site Case Worker: Not reported Local Agency: Not reported RB Case Number: Not reported File Location: Local Agency

Potential Media Affected: Not reported

Potential Contaminants of Concern: Not reported

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

LUST

EDR ID: 1000281959 DIST/DIR: 0.073 WNW ELEVATION: 675 MAP ID: A1

NAME: 7-ELEVEN FOOD STORE #16439 Rev: 05/01/2014

ADDRESS: 14110 OLDE HY 80 ID/Status: Completed - Case Closed

EL CAJON, CA 92021

SAN DIEGO

SOURCE: CA State Water Resources Control Board

LUST:

Region: STATE

Global Id: T0607301281 Latitude: 32.8435145 Longitude: -116.8808696 Case Type: LUST Cleanup Site Status: Completed - Case Closed

Status Date: 01/10/2014

Lead Agency: SAN DIEGO COUNTY LOP

Case Worker: CB

Local Agency: SAN DIEGO COUNTY LOP

RB Case Number: 9UT2534 LOC Case Number: H20203-004 File Location: Local Agency

Potential Media Affect: Aguifer used for drinking water supply

Potential Contaminants of Concern: Gasoline

Site History: 7-Eleven Store # 16439 (Site), located at the northeast corner of Olde Highway 80 and Lake Jennings Park Road, is an operating gas station located in a commercial shopping center. The site is bounded by Olde Highway 80 and residential property towards the south, commercial business towards the east, Lake Jennings Park Road towards the west, and Interstate 8 towards the north. On July 27, 1993, soil sampling was conducted during upgrades to the Underground Storage Tank (UST) system at the site. Laboratory results from this initial investigation indicated Total Petroleum Hydrocarbons as gasoline (TPHg) ranging from below laboratory reporting limit (ND) to 8,400 milligrams per kilogram (mg/kg). Based on the results, Unauthorized Release case H20203-004 was opened. Approximately 27 tons of hydrocarbon impacted soil were removed during UST system upgrades. From 1993 to 1998, additional site assessment investigations were conducted to delineate the extent of hydrocarbons in soil and groundwater. These investigations included the installation of twelve groundwater monitoring and sampling wells. Results from soil sampling indicated TPHg concentrations ranging from ND to 5,057 mg/kg. Benzene concentrations in soil ranged from ND to 75.08 mg/kg. Concentrations of benzene and Methyl Tertiary Butyl Ether (MTBE) in groundwater ranged from ND to 20,000 g/L. Dissolved-phase impacts to groundwater extended southwest approximately 250 feet offsite. The site is located in a basin designated for beneficial municipal, agricultural, and industrial process and service supply uses. Groundwater flow direction is towards the southwest. Groundwater monitoring wells installed onsite and offsite have shown that groundwater has been impacted by the unauthorized release. Quarterly groundwater monitoring and sampling was conducted at the site from December 1993

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

LUST

EDR ID: 1000281959 DIST/DIR: 0.073 WNW ELEVATION: 675 MAP ID: A1

NAME: 7-ELEVEN FOOD STORE #16439 Rev: 05/01/2014

ADDRESS: 14110 OLDE HY 80 ID/Status: Completed - Case Closed

EL CAJON, CA 92021

SAN DIEGO

SOURCE: CA State Water Resources Control Board

through December 2009 and Semi-annually from January 2010 through May 2012. In October 1998, three Air Sparge/Soil Vapor Extraction (AS/SVE) wells were installed. AS/SVE feasibilty testing was conducted in December 1998 to obtain a long term cleanup solution. Based on the results, AS/SVE appeared to be an effective remedial alternative and was presented as the chosen remedial alternative in the Corrective Action Plan. In October 1999, an additional five AS/SVE wells were installed. Remedial efforts were conducted from February 2000 through November 2004 and then shut down to evaluate rebound conditions. The system was not restarted following the evaluation. The consultant estimates the AS/SVE system successfully removed approximately 2,394 pounds of hydrocarbons from the site. The consultant estimates approximately 237 cubic yards of hydrocarbon impacted soil greater than 100 mg/kg remain offsite. Remedial actions have reduced hydrocarbon concentrations in groundwater near or below Maximum Concentration Limits. A receptor search was conducted within + mile radius of the site. Based on soil and groundwater concentrations, the consultant concludes there were no potential receptors. The consultant concludes that the remedial alternative has been effective in removing hydrocarbon impacts in soil and groundwater. The consultant recommends no further action for this unauthorized release. DEH concurs with this recommendation.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id: T0607301281

Contact Type: Local Agency Caseworker Contact Name: CRAIG BURNETT

Organization Name: SAN DIEGO COUNTY LOP

Address: P.O. Box 129261

City: SAN DIEGO

Email: craig.burnett@sdcounty.ca.gov

Phone Number: 8585056978

Status History:

Global Id: T0607301281

Status: Open - Case Begin Date

Status Date: 07/27/1993

Global Id: T0607301281

Status: Completed - Case Closed

Status Date: 01/10/2014

Global Id: T0607301281

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

LUST

**EDR ID:** 1000281959 **DIST/DIR:** 0.073 WNW **ELEVATION:** 675 **MAP ID:** A1

NAME: 7-ELEVEN FOOD STORE #16439 Rev: 05/01/2014

ADDRESS: 14110 OLDE HY 80 ID/Status: Completed - Case Closed

EL CAJON, CA 92021

SAN DIEGO

SOURCE: CA State Water Resources Control Board

Status: Open - Remediation Status Date: 10/21/1999

Global Id: T0607301281

Status: Open - Eligible for Closure

Status Date: 10/21/1999

Global Id: T0607301281

Status: Open - Verification Monitoring

Status Date: 10/21/1999

Regulatory Activities: Global Id: T0607301281 Action Type: RESPONSE

Date: 07/27/2010

Action: Monitoring Report - Quarterly

Global Id: T0607301281 Action Type: RESPONSE

Date: 10/31/2009

Action: Monitoring Report - Quarterly

Global Id: T0607301281 Action Type: RESPONSE

Date: 01/30/2010

Action: Monitoring Report - Quarterly

Global Id: T0607301281 Action Type: RESPONSE

Date: 07/30/2009

Action: Monitoring Report - Quarterly

Global Id: T0607301281 Action Type: ENFORCEMENT

Date: 06/18/2009

Action: Technical Correspondence / Assistance / Other

Global Id: T0607301281 Action Type: ENFORCEMENT

Date: 11/16/2010 Action: File review

Global Id: T0607301281 Action Type: RESPONSE

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

LUST

**EDR ID:** 1000281959 **DIST/DIR:** 0.073 WNW **ELEVATION:** 675 **MAP ID:** A1

**NAME**: 7-ELEVEN FOOD STORE #16439 **Rev**: 05/01/2014

ADDRESS: 14110 OLDE HY 80 ID/Status: Completed - Case Closed

EL CAJON, CA 92021

SAN DIEGO

SOURCE: CA State Water Resources Control Board

Date: 01/31/2010

Action: Monitoring Report - Quarterly

Global Id: T0607301281 Action Type: Other Date: 01/01/1950 Action: Leak Began

Global Id: T0607301281 Action Type: ENFORCEMENT

Date: 09/20/1993

Action: Notice of Responsibility

Global Id: T0607301281 Action Type: Other Date: 01/01/1950 Action: Leak Discovery

Global Id: T0607301281 Action Type: RESPONSE

Date: 08/30/2011

Action: Other Report / Document

Global Id: T0607301281 Action Type: ENFORCEMENT

Date: 10/30/2013

Action: Technical Correspondence / Assistance / Other

Global Id: T0607301281 Action Type: Other Date: 01/01/1950 Action: Leak Reported

Global Id: T0607301281 Action Type: ENFORCEMENT

Date: 03/06/2009

Action: Technical Correspondence / Assistance / Other

Global Id: T0607301281 Action Type: ENFORCEMENT Date: 07/09/2009

Action: Letter - Notice

Global Id: T0607301281

Action Type: ENFORCEMENT

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

LUST

**EDR ID:** 1000281959 **DIST/DIR:** 0.073 WNW **ELEVATION:** 675 **MAP ID:** A1

**NAME**: 7-ELEVEN FOOD STORE #16439 **Rev**: 05/01/2014

ADDRESS: 14110 OLDE HY 80 ID/Status: Completed - Case Closed

EL CAJON, CA 92021

SAN DIEGO

SOURCE: CA State Water Resources Control Board

Date: 01/10/2014

Action: Closure/No Further Action Letter

Global Id: T0607301281 Action Type: ENFORCEMENT

Date: 06/30/2011

Action: Technical Correspondence / Assistance / Other

Global Id: T0607301281 Action Type: Other Date: 01/01/1950 Action: Leak Stopped

Global Id: T0607301281 Action Type: RESPONSE

Date: 03/24/2011

Action: Site Assessment Report - Regulator Responded

Global Id: T0607301281 Action Type: RESPONSE

Date: 01/31/2012

Action: Monitoring Report - Quarterly

Global Id: T0607301281 Action Type: ENFORCEMENT

Date: 03/13/2012 Action: Meeting

Global Id: T0607301281 Action Type: RESPONSE

Date: 07/30/2012

Action: Request for Closure - Regulator Responded

14135 OLDE HIGHWAY 80 Target Property: JOB: NA

EL CAJON, CA 92021

SAN DIEGO CO. SAM

EDR ID: S106916017 DIST/DIR: 0.073 WNW **ELEVATION:** 675 MAP ID: A2

7-ELEVEN FOOD STORE #16439 03/23/2010 NAME: Rev:

ID/Status: Remedial Action (Clean-Up) ADDRESS: 14110 OLDE HY 80

ID/Status: Closed Case EL CAJON, CA 92021

SAN DIEGO

SOURCE: CA San Diego County Department of Environmental Health

SAN DIEGO CO. SAM: Case Number: H20203-001

Agency: DEH Site Assessment & Mitigation

Funding: Non Billable Facility Type: Complaint Facility Status: Closed Case

Date: 3/7/1985

Date Began: 11/1/1984

Case Number: H20203-002

Agency: DEH Site Assessment & Mitigation

Funding: Non Billable

Facility Type: Failed Integrity Test

Facility Status: Closed Case

Date: 9/15/1987 Date Began: 7/30/1987

Case Number: H20203-003

Agency: DEH Site Assessment & Mitigation

Funding: Non Billable Facility Type: Failed Integrity Test Facility Status: Closed Case

Date: 6/16/1988 Date Began: 6/1/1988

Case Number: H20203-004

Agency: DEH Site Assessment & Mitigation

Funding: LOP - State Fund

Facility Type: Drinking Water Aquifer Impacted Facility Status: Remedial Action (Clean-Up)

Date: 6/15/1999 Date Began: 7/27/1993

14135 OLDE HIGHWAY 80 Target Property: JOB: NA

EL CAJON, CA 92021

**SWEEPS UST** 

ID/Status: A

EDR ID: S101301577 DIST/DIR: 0.080 WNW **ELEVATION:** 674 MAP ID: A3

7-ELEVEN FOOD STORE #16439 06/01/1994 NAME: Rev:

ADDRESS: 14110 OLD HWY 80

EL CAJON, CA 92021

SAN DIEGO

SOURCE: CA State Water Resources Control Board

SWEEPS UST: Status: Active

Comp Number: 20203

Number: 9

Board Of Equalization: 44-002251 Referral Date: Not reported Action Date: 06-26-92 Created Date: 02-29-88 Owner Tank Id: Not reported

SWRCB Tank Id: 37-000-020203-000001

Tank Status: A Capacity: 10000 Active Date: Not reported Tank Use: M.V. FUEL

STG: P

Content: REG UNLEADED Number Of Tanks: 5

Status: Active Comp Number: 20203

Number: 9

Board Of Equalization: 44-002251 Referral Date: Not reported Action Date: 06-26-92 Created Date: 02-29-88 Owner Tank Id: Not reported

SWRCB Tank ld: 37-000-020203-000002

Tank Status: A Capacity: 9940

Active Date: Not reported Tank Use: M.V. FUEL STG: P

Content: LEADED

Number Of Tanks: Not reported

Status: Active Comp Number: 20203

Number: 9

Board Of Equalization: 44-002251 Referral Date: Not reported Action Date: 06-26-92 Created Date: 02-29-88 Owner Tank Id: Not reported

SWRCB Tank Id: 37-000-020203-000003

- Continued on next page -

3954378.2s Site Details Page - 9

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

**SWEEPS UST** 

ID/Status: A

EDR ID: \$101301577 DIST/DIR: 0.080 WNW ELEVATION: 674 MAP ID: A3

NAME: 7-ELEVEN FOOD STORE #16439 Rev: 06/01/1994

ADDRESS: 14110 OLD HWY 80

EL CAJON, CA 92021

SAN DIEGO

SOURCE: CA State Water Resources Control Board

Tank Status: A Capacity: 6000

Active Date: Not reported Tank Use: M.V. FUEL

STG: P

Content: LEADED

Number Of Tanks: Not reported

Status: Active Comp Number: 20203

Number: 9

Board Of Equalization: 44-002251 Referral Date: Not reported Action Date: 06-26-92 Created Date: 02-29-88 Owner Tank Id: Not reported

SWRCB Tank Id: 37-000-020203-000004

Tank Status: A Capacity: 20000

Active Date: Not reported Tank Use: M.V. FUEL

STG: P

Content: OTHER

Number Of Tanks: Not reported

Status: Active Comp Number: 20203

Number: 9

Board Of Equalization: 44-002251 Referral Date: Not reported Action Date: 06-26-92 Created Date: 02-29-88 Owner Tank Id: Not reported

SWRCB Tank Id: 37-000-020203-000005

Tank Status: A Capacity: 12000 Active Date: Not reported Tank Use: M.V. FUEL

STG: P

Content: OTHER

Number Of Tanks: Not reported

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

LUST

EDR ID: \$101301577 DIST/DIR: 0.080 WNW ELEVATION: 674 MAP ID: A3

NAME: 7-ELEVEN FOOD STORE #16439 Rev: 05/01/2014

ADDRESS: 14110 OLD HWY 80 ID/Status: Remedial action (cleanup) Underway

EL CAJON, CA 92021

SAN DIEGO

SOURCE: CA State Water Resources Control Board

LUST REG 9: Region: 9

Status: Remedial action (cleanup) Underway

Case Number: 9UT2534 Local Case: H20203-004 Substance: Gasoline Qty Leaked: Not reported Abate Method: Not reported Local Agency: San Diego

Local Agency: San Diego How Found: Subsurface Monitoring

How Stopped: Repair Piping

Source: Unknown Cause: Unknown

Lead Agency: Local Agency Case Type: Aquifer affected Date Found: 07/27/1993 Date Stopped: 07/27/1993 Confirm Date: 07/27/1993 Submit Workplan: 7/27/93 Prelim Assess: 03/21/1996 Desc Pollution: Not reported Remed Plan: 01/20/1994 Remed Action: 6/15/99 Began Monitor: Not reported Release Date: 09/14/1993 Enforce Date: Not reported Closed Date: Not reported Enforce Type: Not reported Pilot Program: LOP Basin Number: 907.14

GW Depth: Not reported

Beneficial Use: Municipal groundwater use

NPDES Number: 96-41

Priority: 2B

File Dispn: Not reported Interim Remedial Actions: No

Cleanup and Abatement order Number: Not reported Waste Discharge Requirement Number: Not reported

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

**HAZNET** 

EDR ID: \$113005370 DIST/DIR: 0.084 NW ELEVATION: 678 MAP ID: A4

NAME: 7-ELEVEN STORE 16439 Rev: 12/31/2012

ADDRESS: 14110 OLDE HWY 80 EL CAJON, CA 92021

**SOURCE**: CA California Environmental Protection Agency

HAZNET: Year: 2012

Gepaid: CAD981406986 Contact: JOSE RIOS Telephone: 9728286592 Mailing Name: Not reported Mailing Address: PO BOX 711

Mailing City, St, Zip: DALLAS, TX 752210711

Gen County: San Diego TSD EPA ID: CAT080013352 TSD County: Los Angeles Waste Category: Not reported

Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,

Organics Recovery Ect

Tons: 0.1386

Facility County: San Diego

Year: 2011

Gepaid: CAD981406986

Contact: JOSE RIOS, ENVT'L MGR

Telephone: 9728286592 Mailing Name: Not reported Mailing Address: PO BOX 711

Mailing City, St, Zip: DALLAS, TX 752210711

Gen County: Not reported TSD EPA ID: CAT080013352 TSD County: Not reported

Waste Category: Aqueous solution with total organic residues less than 10 percent Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,

Organics Recovery Ect

Tons: 0.0714

Facility County: San Diego

Year: 2011

Gepaid: CAD981406986

Contact: JOSE RIOS, ENVT'L MGR

Telephone: 9728286592 Mailing Name: Not reported Mailing Address: PO BOX 711

Mailing City, St, Zip: DALLAS, TX 752210711

Gen County: Not reported TSD EPA ID: NVT330010000 TSD County: Not reported

Waste Category: Other organic solids

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

**HAZNET** 

EDR ID: \$113005370 DIST/DIR: 0.084 NW ELEVATION: 678 MAP ID: A4

NAME: 7-ELEVEN STORE 16439 Rev: 12/31/2012

ADDRESS: 14110 OLDE HWY 80 EL CAJON, CA 92021

**SOURCE**: CA California Environmental Protection Agency

Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To

Include On-Site Treatment And/Or Stabilization)

Tons: 0.1

Facility County: San Diego

Year: 2010

Gepaid: CAD981406986 Contact: JOSE RIOS Telephone: 9728286592 Mailing Name: Not reported Mailing Address: PO BOX 711

Mailing City, St, Zip: DALLAS, TX 752210711

Gen County: Not reported TSD EPA ID: NVT330010000 TSD County: Not reported

Waste Category: Other organic solids

Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To

Include On-Site Treatment And/Or Stabilization)

Tons: 0.027

Facility County: San Diego

Year: 2010

Gepaid: CAD981406986 Contact: JOSE RIOS Telephone: 9728286592 Mailing Name: Not reported Mailing Address: PO BOX 711

Mailing City, St, Zip: DALLAS, TX 752210711

Gen County: Not reported TSD EPA ID: CAT080013352 TSD County: Not reported

Waste Category: Aqueous solution with total organic residues less than 10 percent Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,

**Organics Recovery Ect** 

Tons: 3.6666

Facility County: San Diego

Click this hyperlink while viewing on your computer to access 31 additional CA\_HAZNET: record(s) in the EDR Site Report.

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

UST

EDR ID: U003937285 DIST/DIR: 0.084 NW **ELEVATION:** 678 MAP ID: A5

7-ELEVEN FOOD STORE #16439 NAME: 03/17/2014 Rev: ID/Status: H20203

**ADDRESS:** 14110 OLDE HIGHWAY 80 # 16439

EL CAJON, CA 92021

SAN DIEGO SOURCE: CA SWRCB

UST:

Facility ID: H20203 Latitude: 32.8453119 Longitude: -116.879445

Permitting Agency: SAN DIEGO COUNTY

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

**HAZNET** 

EDR ID: \$113136545 DIST/DIR: 0.152 ENE ELEVATION: 702 MAP ID: 6

NAME: LUZAICH STRIPING INC Rev: 12/31/2012

ADDRESS: 14219 OLDE HIGHWAY 80

EL CAJON, CA 92021

SOURCE: CA California Environmental Protection Agency

HAZNET: Year: 2010

Gepaid: CAL000292533 Contact: RODNEY LUZAICH Telephone: 6194437755 Mailing Name: Not reported Mailing Address: PO BOX 2426

Mailing City, St, Zip: EL CAJON, CA 920210426

Gen County: Not reported TSD EPA ID: NVT330010000 TSD County: Not reported

Waste Category: Unspecified organic liquid mixture

Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,

Organics Recovery Ect

Tons: 1.87

Facility County: San Diego

Year: 2008

Gepaid: CAL000292533 Contact: RODNEY LUZAICH Telephone: 6194437755 Mailing Name: Not reported Mailing Address: PO BOX 2426

Mailing City, St, Zip: EL CAJON, CA 920210426

Gen County: Not reported TSD EPA ID: NVT330010000 TSD County: Not reported

Waste Category: Unspecified organic liquid mixture

Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,

Organics Recovery Ect

Tons: 1.87

Facility County: San Diego

Year: 2007

Gepaid: CAL000292533 Contact: RODNEY LUZAICH Telephone: 6194437755 Mailing Name: Not reported Mailing Address: PO BOX 2426

Mailing City, St, Zip: EL CAJON, CA 920210426

Gen County: Not reported TSD EPA ID: CAD097030993 TSD County: Not reported

Waste Category: Unspecified organic liquid mixture

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

**HAZNET** 

EDR ID: \$113136545 DIST/DIR: 0.152 ENE ELEVATION: 702 MAP ID: 6

NAME: LUZAICH STRIPING INC Rev: 12/31/2012

ADDRESS: 14219 OLDE HIGHWAY 80

EL CAJON, CA 92021

**SOURCE**: CA California Environmental Protection Agency

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Tons: 0.93

Facility County: San Diego

Year: 2006

Gepaid: CAL000292533 Contact: RODNEY LUZAICH Telephone: 6194437755 Mailing Name: Not reported Mailing Address: PO BOX 2426

Mailing City, St, Zip: EL CAJON, CA 920210426

Gen County: Not reported TSD EPA ID: CAT080033681 TSD County: Not reported

Waste Category: Unspecified organic liquid mixture

Disposal Method: Recycler

Tons: 1.14

Facility County: San Diego

Year: 2006

Gepaid: CAL000292533 Contact: RODNEY LUZAICH Telephone: 6194437755 Mailing Name: Not reported Mailing Address: PO BOX 2426

Mailing City, St, Zip: EL CAJON, CA 920210426

Gen County: Not reported TSD EPA ID: CAD097030993 TSD County: Not reported

Waste Category: Unspecified organic liquid mixture

Disposal Method: Disposal, Other

Tons: 1.14

Facility County: San Diego

Click this hyperlink while viewing on your computer to access 1 additional CA\_HAZNET: record(s) in the EDR Site Report.

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

**HAZNET** 

EDR ID: \$113116011 DIST/DIR: 0.223 WNW ELEVATION: 700 MAP ID: B7

NAME: LAKE JENNINGS ARCO Rev: 12/31/2012

ADDRESS: 14039 HIGHWAY 8 BUSINESS

EL CAJON, CA 92021

**SOURCE**: CA California Environmental Protection Agency

HAZNET: Year: 2012

Gepaid: CAL000234781

Contact: HANDLEY MASON COANISH

Telephone: 6199380097 Mailing Name: Not reported

Mailing Address: 14039 HIGHWAY 8 BUSINESS Mailing City, St, Zip: EL CAJON, CA 920211952

Gen County: San Diego TSD EPA ID: CAD008252405 TSD County: Los Angeles Waste Category: Not reported

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Tons: 0.35

Facility County: San Diego

Year: 2012

Gepaid: CAL000234781

Contact: HANDLEY MASON COANISH

Telephone: 6199380097 Mailing Name: Not reported

Mailing Address: 14039 HIGHWAY 8 BUSINESS Mailing City, St, Zip: EL CAJON, CA 920211952

Gen County: San Diego TSD EPA ID: CAD008252405 TSD County: Los Angeles Waste Category: Not reported

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Tons: 0.35

Facility County: San Diego

Year: 2010

Gepaid: CAL000234781

Contact: HANDLEY MASON COANISH

Telephone: 6199380097 Mailing Name: Not reported

Mailing Address: 14039 HIGHWAY 8 BUSINESS Mailing City, St, Zip: EL CAJON, CA 920211952

Gen County: Not reported TSD EPA ID: CAD008252405 TSD County: Not reported

Waste Category: Other organic solids

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

**HAZNET** 

EDR ID: \$113116011 DIST/DIR: 0.223 WNW ELEVATION: 700 MAP ID: B7

NAME: LAKE JENNINGS ARCO Rev: 12/31/2012

ADDRESS: 14039 HIGHWAY 8 BUSINESS

EL CAJON, CA 92021

**SOURCE**: CA California Environmental Protection Agency

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Tons: 0.4

Facility County: San Diego

Year: 2010

Gepaid: CAL000234781

Contact: HANDLEY MASON COANISH

Telephone: 6199380097 Mailing Name: Not reported

Mailing Address: 14039 HIGHWAY 8 BUSINESS Mailing City, St, Zip: EL CAJON, CA 920211952

Gen County: Not reported TSD EPA ID: CAD008252405 TSD County: Not reported

Waste Category: Other organic solids

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Tons: 0.4

Facility County: San Diego

Year: 2009

Gepaid: CAL000234781 Contact: JUDITH RANSDELL Telephone: 6199380097 Mailing Name: Not reported

Mailing Address: 14039 HIGHWAY 8 BUSINESS Mailing City, St, Zip: EL CAJON, CA 920211952

Gen County: Not reported TSD EPA ID: CAD008252405 TSD County: Not reported

Waste Category: Other organic solids

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Tons: 0.25

Facility County: San Diego

Click this hyperlink while viewing on your computer to access 21 additional CA\_HAZNET: record(s) in the EDR Site Report.

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

UST

**EDR ID:** U003790011 **DIST/DIR:** 0.246 NW **ELEVATION:** 707 **MAP ID:** B8

NAME: LAKE JENNINGS ARCO Rev: 03/17/2014

ADDRESS: 14039 HIGHWAY 8 BUSINESS ID/Status: H38189

EL CAJON, CA 92021

SAN DIEGO SOURCE: CA SWRCB

UST:

Facility ID: H38189 Latitude: 32.84462 Longitude: -116.88336

Permitting Agency: SAN DIEGO COUNTY

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

LUST

EDR ID: \$101301595 DIST/DIR: 0.299 WNW ELEVATION: 703 MAP ID: C9

NAME: LAKESIDE FIRE STATION #3 Rev: 05/01/2014

ADDRESS: 14008 HWY 8 BUSINESS ID/Status: Case Closed

LAKESIDE, CA 92040 SAN DIEGO

SOURCE: CA State Water Resources Control Board

LUST REG 9: Region: 9

Status: Case Closed Case Number: 9UT1848 Local Case: H20224-001 Substance: Unleaded Gasoline

Qty Leaked: 0

Abate Method: Not reported Local Agency: San Diego How Found: Tank Closure How Stopped: Close Tank

Source: Unknown Cause: Unknown

Lead Agency: Local Agency Case Type: Aquifer affected Date Found: 06/29/1990 Date Stopped: 06/29/1990 Confirm Date: 08/20/1990 Submit Workplan: 10/29/90 Prelim Assess: 12/27/1990 Desc Pollution: Not reported

Remed Plan: / /

Remed Action: Not reported Began Monitor: Not reported Release Date: 06/29/1990 Enforce Date: Not reported Closed Date: 2/1/96 Enforce Type: Not reported Pilot Program: LOP Basin Number: 907.14

GW Depth: 11'

Beneficial Use: MUNBU NPDES Number: Not reported

Priority: 2B

File Dispn: File discarded, case closed

Interim Remedial Actions: Yes

Cleanup and Abatement order Number: Not reported Waste Discharge Requirement Number: Not reported

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

LUST

EDR ID: \$105023580 DIST/DIR: 0.299 WNW ELEVATION: 703 MAP ID: C10

NAME: LAKESIDE FIRE STATION #3 Rev: 05/01/2014

ADDRESS: 14008 8 BUSINESS ID/Status: Completed - Case Closed

EL CAJON, CA 92021

SAN DIEGO

SOURCE: CA State Water Resources Control Board

LUST:

Region: STATE

Global Id: T0607300633 Latitude: 32.8571006 Longitude: -116.9195068 Case Type: LUST Cleanup Site Status: Completed - Case Closed

Status Date: 04/01/1996

Lead Agency: SAN DIEGO COUNTY LOP

Case Worker: Not reported Local Agency: Not reported RB Case Number: 9UT1848 LOC Case Number: H20224-001 File Location: Local Agency Potential Media Affect: Soil

Potential Contaminants of Concern: Gasoline

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id: T0607300633

Status: Completed - Case Closed

Status Date: 04/01/1996 Global Id: T0607300633

Status: Open - Case Begin Date

Status Date: 06/29/1990

Regulatory Activities: Global Id: T0607300633 Action Type: Other Date: 01/01/1950 Action: Leak Began

Global Id: T0607300633 Action Type: Other Date: 01/01/1950 Action: Leak Discovery

Global Id: T0607300633 Action Type: Other Date: 01/01/1950 Action: Leak Reported

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

LUST

**EDR ID:** \$105023580 **DIST/DIR:** 0.299 WNW **ELEVATION:** 703 **MAP ID:** C10

NAME: LAKESIDE FIRE STATION #3 Rev: 05/01/2014

ADDRESS: 14008 8 BUSINESS ID/Status: Completed - Case Closed

EL CAJON, CA 92021

SAN DIEGO

SOURCE: CA State Water Resources Control Board

Global Id: T0607300633 Action Type: ENFORCEMENT

Date: 08/13/1992

Action: Notice of Responsibility

Global Id: T0607300633 Action Type: Other Date: 01/01/1950 Action: Leak Stopped

Target Property: 14135 OLDE HIGHWAY 80 JOB: NA

EL CAJON, CA 92021

SAN DIEGO CO. SAM

**EDR ID:** S106916457 **DIST/DIR:** 0.299 WNW **ELEVATION:** 703 **MAP ID:** C11

NAME: LAKESIDE FIRE PROTECTION DIST Rev: 03/23/2010

ADDRESS: 14008 HY 8 BUSINESS ID/Status: Closed Case

EL CAJON, CA 92021

SAN DIEGO

SOURCE: CA San Diego County Department of Environmental Health

SAN DIEGO CO. SAM: Case Number: H20224-001

Agency: DEH Site Assessment & Mitigation

Funding: LOP - Federal Fund Facility Type: Soils Only Facility Status: Closed Case

Date: 4/1/1996

Date Began: 8/20/1990

NPL: NPL National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices. NPL - National Priority List Proposed NPL - Proposed National Priority List Sites.

NPL Delisted: DELISTED NPL The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. DELISTED NPL - National Priority List Deletions

CERCLIS CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL. CERCLIS - Comprehensive Environmental Response, Compensation, and Liability Information System

NFRAP: CERCLIS-NFRAP Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site. CERCLIS-NFRAP - CERCLIS No Further Remedial Action Planned

RCRA COR ACT: CORRACTS CORRACTS identifies hazardous waste handlers with RCRA corrective action activity. CORRACTS - Corrective Action Report

RCRA TSD: RCRA-TSDF RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste. RCRA-TSDF - RCRA - Treatment, Storage and Disposal

RCRA GEN: RCRA-LQG RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. RCRA-LQG - RCRA - Large Quantity Generators RCRA-SQG - RCRA - Small Quantity Generators. RCRA-CESQG - RCRA - Conditionally Exempt Small Quantity Generators.

Federal IC / EC: US ENG CONTROLS A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. US ENG CONTROLS - Engineering Controls Sites List US INST CONTROL - Sites with Institutional Controls.

ERNS: ERNS Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances. ERNS - Emergency Response Notification System

State/Tribal NPL: RESPONSE Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk. RESPONSE - State Response Sites

State/Tribal CERCLIS: ENVIROSTOR The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites. ENVIROSTOR - EnviroStor Database

State/Tribal SWL: SWF/LF (SWIS) Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites. SWF/LF (SWIS) - Solid Waste Information System

State/Tribal LTANKS: SAN FRANCISCO CO. LUST ORANGE CO. LUST - List of Underground Storage Tank Cleanups. LUST REG 6L - Leaking Underground Storage Tank Case Listing. LUST REG 2 - Fuel Leak List. LUST REG 4 - Underground Storage Tank Leak List. LUST REG 5 - Leaking Underground Storage Tank Database. LUST REG 7 - Leaking Underground Storage Tank Case Listing, NAPA CO. LUST - Sites With Reported Contamination, LUST REG 8 - Leaking Underground Storage Tanks. SONOMA CO. LUST - Leaking Underground Storage Tank Sites. LUST SANTA CLARA - LOP Listing. SOLANO CO. LUST - Leaking Underground Storage Tanks. VENTURA CO. LUST - Listing of Underground Tank Cleanup Sites. LUST REG 1 - Active Toxic Site Investigation. LUST REG 6V - Leaking Underground Storage Tank Case Listing. SAN MATEO CO. LUST - Fuel Leak List. LUST REG 3 - Leaking Underground Storage Tank Database. LUST REG 9 - Leaking Underground Storage Tank Report, LUST - Geotracker's Leaking Underground Fuel Tank Report, RIVERSIDE CO. LUST - Listing of Underground Tank Cleanup Sites. Riverside County Underground Storage Tank Cleanup Sites (LUST). RIVERSIDE CO. LUST - Listing of Underground Tank Cleanup Sites SLIC - Statewide SLIC Cases. SLIC REG 1 - Active Toxic Site Investigations. SLIC REG 2 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. SLIC REG 3 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. SLIC REG 4 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. SLIC REG 5 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing, SLIC REG 6V - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. SLIC REG 6L - SLIC Sites. SLIC REG 7 - SLIC List. SLIC REG 8 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. Sacramento Co. CS - Toxic Site Clean-Up List. SLIC REG 9 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. SAN DIEGO CO. SAM - Environmental Case Listing. INDIAN LUST R10 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R4 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R9 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R5 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R7 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R6 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R1 - Leaking Underground Storage Tanks on Indian Land.

State/Tribal Tanks: UST Active UST facilities gathered from the local regulatory agencies UST - Active UST Facilities
AST - Aboveground Petroleum Storage Tank Facilities. INDIAN UST R1 - Underground Storage Tanks on Indian Land.
INDIAN UST R10 - Underground Storage Tanks on Indian Land. INDIAN UST R7 - Underground Storage Tanks on Indian
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Land. INDIAN UST R5 - Un

State/Tribal VCP: VCP Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs. VCP - Voluntary Cleanup Program Properties

US Brownfields: US BROWNFIELDS Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs. US BROWNFIELDS - A Listing of Brownfields Sites

Other SWF: CA LA LF LOS ANGELES CO. LF - List of Solid Waste Facilities. SAN DIEGO CO. LF - Solid Waste Facilities. VENTURA CO. LF - Inventory of Illegal Abandoned and Inactive Sites. Solid Waste Facilities in Los Angeles County. VENTURA CO. LF - List of Solid Waste Facilities WMUDS/SWAT - Waste Management Unit Database.

Other Haz Sites: US CDL A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. US CDL - Clandestine Drug Labs SCH - School Property Evaluation Program. SAN DIEGO CO. HMMD - Hazardous Materials Management Division Database.

Other Tanks: CA FID UST The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data. CA FID UST - Facility Inventory Database ALAMEDA CO. UST - Underground Tanks. KERN CO. UST - Underground Storage Tank Sites & Tank Listing. MARIN CO. UST - Underground Storage Tank Sites. NAPA CO. UST - Closed and Operating Underground Storage Tank Sites. ORANGE CO. UST - List of Underground Storage Tank Facilities. RIVERSIDE CO. UST - Underground Storage Tank Information. SOLANO CO. UST - Underground Storage Tank Information. SOLANO CO. UST - Underground Storage Tanks. VENTURA CO. UST - Underground Tank Closed Sites List. YOLO CO. UST - Underground Storage Tank Comprehensive Facility Report. EL SEGUNDO UST - City of El Segundo Underground Storage Tank. LONG BEACH UST - City of Long Beach Underground Storage Tank. UST SAN JOAQUIN - San Joaquin Co. UST . UST MENDOCINO - Mendocino County UST Database. TORRANCE UST - City of Torrance Underground Storage Tank. SWEEPS UST - SWEEPS UST Listing.

Local Land Records: DEED Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners. DEED - Deed Restriction Listing

Spills: HMIRS Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT. HMIRS - Hazardous Materials Information Reporting System CHMIRS - California Hazardous Material Incident Report System. Orange Co. Industrial Site - List of Industrial Site Cleanups. SPILLS 90 - SPILLS90 data from FirstSearch.

Other: RCRA NonGen / NLR RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA), Non-Generators do not presently generate hazardous waste. RCRA NonGen / NLR - RCRA - Non Generators TRIS - Toxic Chemical Release Inventory System. TSCA - Toxic Substances Control Act. FTTS - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). FTTS INSP - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). SSTS - Section 7 Tracking Systems. ICIS - Integrated Compliance Information System. PADS - PCB Activity Database System. MLTS - Material Licensing Tracking System. RADINFO - Radiation Information Database. FINDS - Facility Index System/Facility Registry System. RAATS - RCRA Administrative Action Tracking System. BRS - Biennial Reporting System. CORTESE - "Cortese" Hazardous Waste & Substances Sites List. CUPA SAN LUIS OBISPO - CUPA Facility List. CUPA IMPERIAL - CUPA Facility List. CUPA MONO - CUPA Facility List. CUPA DEL NORTE - CUPA Facility List. CUPA SONOMA - Cupa Facility List. CUPA TUOLUMNE - CUPA Facility List. CUPA LAKE - CUPA Facility List. CUPA SANTA CLARA - Cupa Facility List. CUPA CALVERAS - CUPA Facility Listing. CUPA AMADOR - CUPA Facility List. CUPA MADERA - CUPA Facility List. CUPA NEVADA - CUPA Facility List. CUPA BUTTE - CUPA Facility Listing. CUPA MERCED - CUPA Facility List. CUPA SANTA CRUZ - CUPA Facility List. CUPA MONTEREY - CUPA Facility Listing. CUPA SANTA BARBARA - CUPA Facility Listing. CUPA - CUPA Resources List. CUPA EL DORADO - CUPA Facility List. CUPA YUBA - CUPA Facility List. CUPA FRESNO - CUPA Resources List. CUPA KINGS - CUPA Facility List. CUPA INYO - CUPA Facility List. CUPA COLUSA - CUPA Facility List. CUPA SHASTA - CUPA Facility List. CUPA HUMBOLDT - CUPA Facility List. LA Co. Site Mitigation - Site Mitigation List. Sacramento Co. ML - Master Hazardous Materials Facility List. San Bern. Co. Permit - Hazardous Material Permits. HAZNET - Facility and Manifest Data. INDIAN RESERV - Indian Reservations. FEDLAND - Federal and Indian Lands. WDS - Waste Discharge System. PRP - Potentially Responsible Parties. US AIRS MINOR - Air Facility System Data. US AIRS (AFS) - Aerometric Information Retrieval System Facility Subsystem (AFS).

## **Database Sources**

NPL: EPA				
	Updated Quarterly			
NPL Delisted: EPA				
	Updated Quarterly			
CERCLIS: EPA	He detect Overstank			
	Updated Quarterly			
NFRAP: EPA	Updated Quarterly			
RCRA COR ACT: EPA				
NONA GON AGT. ET A	Updated Quarterly			
RCRA TSD: Environmental Protection Agency				
	Updated Quarterly			
RCRA GEN: Environmental Protection Agency				
	Updated Quarterly			
Federal IC / EC: Environmental Protection Agency				
	Varies			
ERNS: National Response Center, United States Coast Guard				
	Updated Annually			
State/Tribal NPL: Department of Toxic Substances Control				
	Updated Quarterly			
State/Tribal CERCLIS: Department of Toxic Substances Control				
	Updated Quarterly			
State/Tribal SWL: Department of Resources Recycling and Recovery				
	Updated Quarterly			
State/Tribal LTANKS: California Regional Water Quality Control Board Colorado River Basin Region (7)				
	No Update Planned			

#### **Database Sources**

State/Tribal Tanks: SWRCB

Updated Semi-Annually

State/Tribal VCP: Department of Toxic Substances Control

**Updated Quarterly** 

US Brownfields: Environmental Protection Agency

Updated Semi-Annually

Other SWF: Department of Health Services

Varies

Other Haz Sites: Drug Enforcement Administration

**Updated Quarterly** 

Other Tanks: California Environmental Protection Agency

No Update Planned

Local Land Records: DTSC and SWRCB

Updated Semi-Annually

Spills: U.S. Department of Transportation

**Updated Annually** 

Other: Environmental Protection Agency

Varies

# **Street Name Report for Streets near the Target Property**

14135 OLDE HIGHWAY 80 EL CAJON, CA 92021 Target Property: JOB: NA

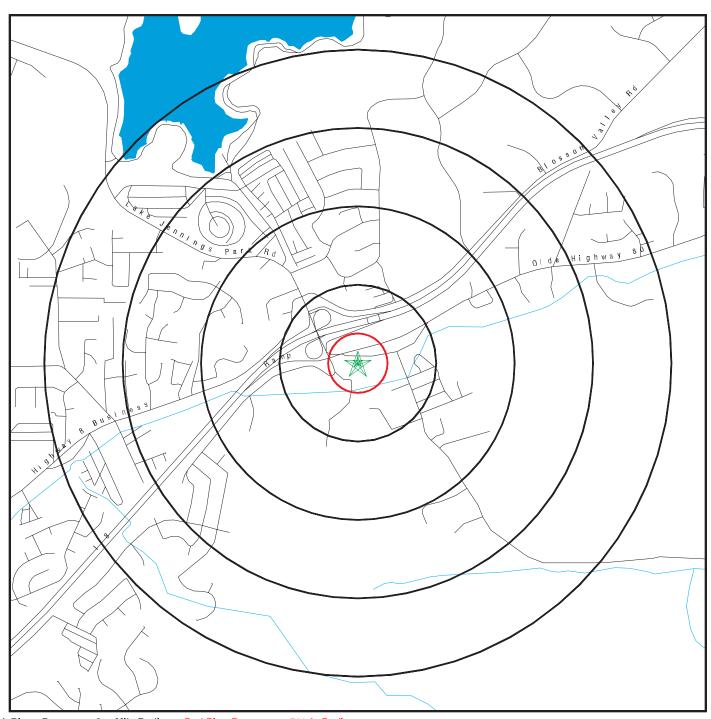
Street Name	Dist/Dir	Street Name	Dist/Dir
Attisha Way	0.22 NNE		
Blossom Valley Rd	0.17 North		
Calle de Ernesto	0.15 SSE		
Connecting Road	0.13 NNE		
Highway 8 Business	0.25 WNW		
18	0.11 NNW		
Jennings Vista Cir	0.23 North		
Kelli Ln	0.14 SE		
Lake Jennings Park Rd	0.09 West		
Oakcreek	0.18 East		
Olde Highway 80	0.04 NNW		
Pecan Park Ln	0.02 North		
Ramp	0.06 WNW		
Ridge Hill Rd	0.08 WSW		
Rios Canyon Rd	0.13 ENE		
Sesi Ln	0.23 North		
Sierra Alta Way	0.06 SSW		
Twin Oak	0.16 ESE		
Vista Entrada	0.23 NNE		

# Environmental FirstSearch 1.000 Mile Radius

ASTM MAP: NPL, RCRACOR, STATES Sites



#### 14135 OLDE HIGHWAY 80 EL CAJON, CA 92021



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

Target Property (Latitude: 32.8432 Longitude: 116.8795)

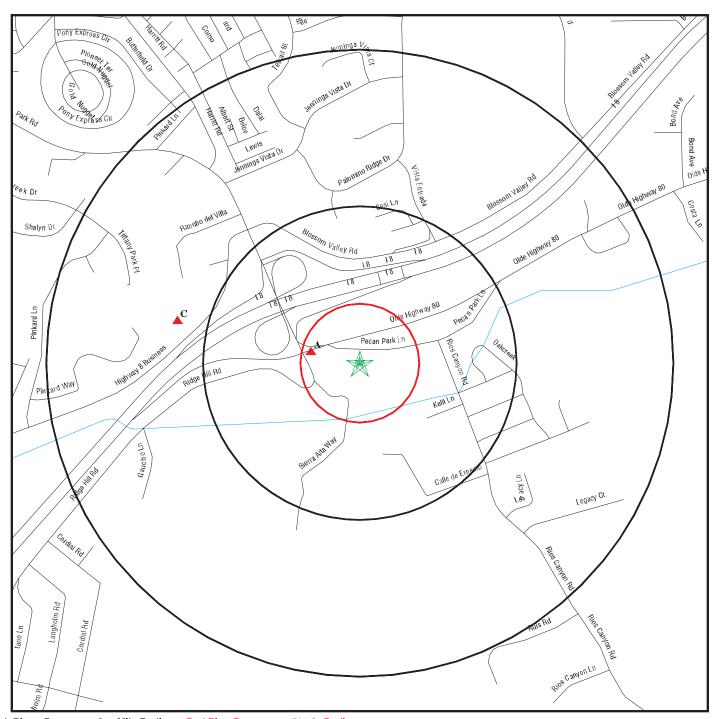
**Identified Sites** Indian Reservations BIA **National Priority List Sites** 

# Environmental FirstSearch 0.500 Mile Radius

0.500 Mile Radius ASTM MAP: CERCLIS, RCRATSD, LUST, SWL



#### 14135 OLDE HIGHWAY 80 EL CAJON, CA 92021



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 32.8432 Longitude: 116.8795)

▲ Identified Sites

Indian Reservations BIA

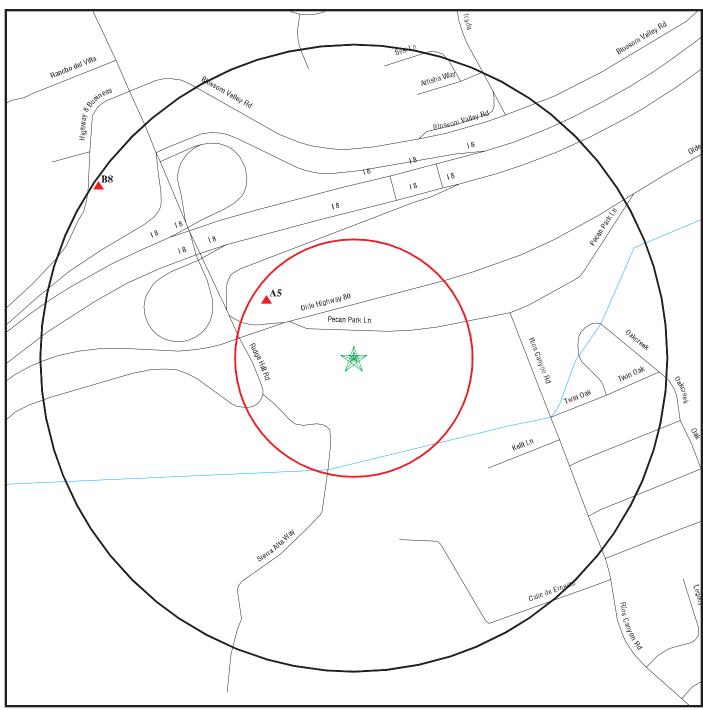
National Priority List Sites

# Environmental FirstSearch 0.25 Mile Radius

ASTM MAP: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS



## 14135 OLDE HIGHWAY 80 EL CAJON, CA 92021



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

Target Property (Latitude: 32.8432 Longitude: 116.8795)

**Identified Sites** 

Indian Reservations BIA

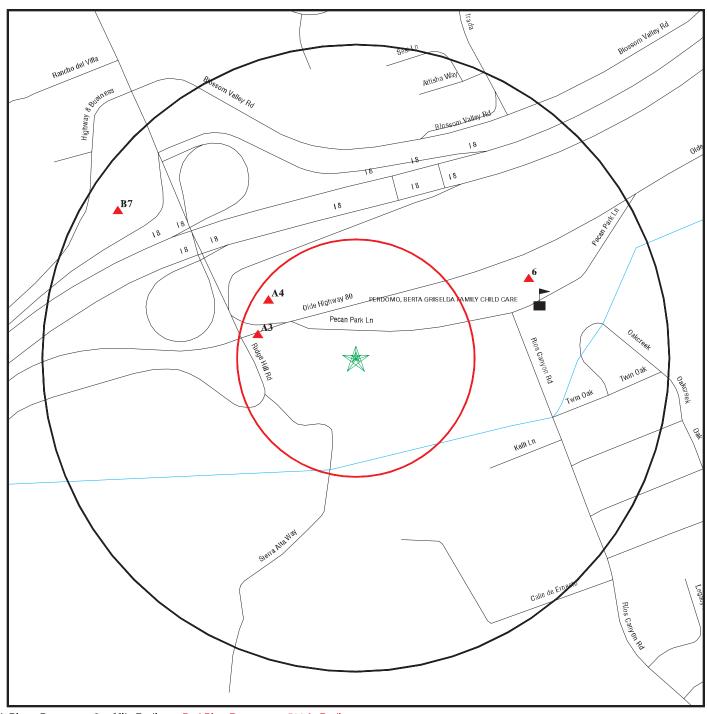
**National Priority List Sites** 

# Environmental FirstSearch 0.25 Mile Radius

Non ASTM Map, Spills, FINDS



#### 14135 OLDE HIGHWAY 80 EL CAJON, CA 92021



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

- Target Property (Latitude: 32.8432 Longitude: 116.8795)
- **Identified Sites**

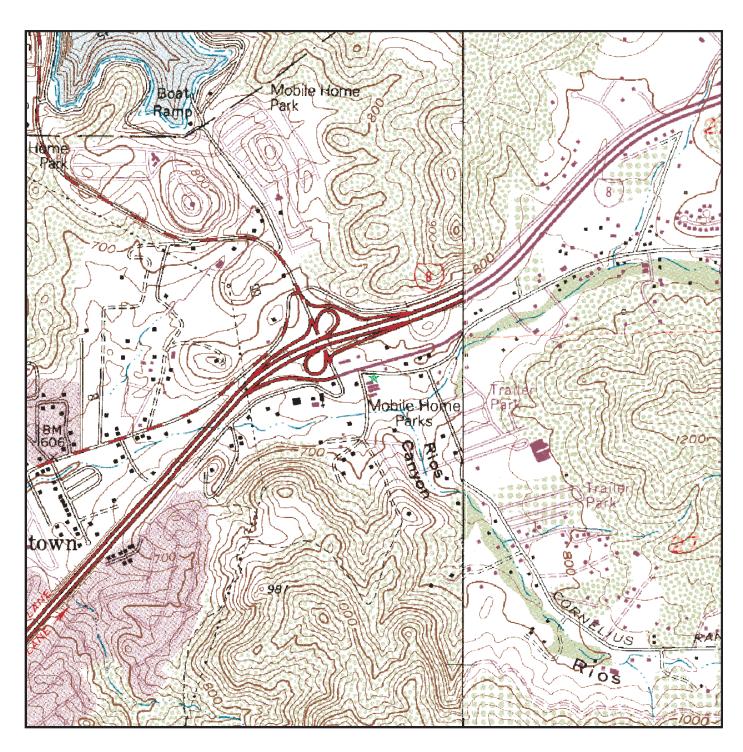
Indian Reservations BIA

Sensitive Receptors

**National Priority List Sites** 



#### 14135 OLDE HIGHWAY 80 EL CAJON, CA 92021



Map Image Position: TP
Map Reference Code & Name: 32116-G8 El Cajon
Map State(s): CA
Modified Date: 1975
Map Image Position: E
Map Reference Code & Name: 32116-G7 Alpine
Map State(s): CA
Modified Date: 1988

Modified Date: 1988

RÉSUMÉS

# HARRY K. BISHOP, PhD, REA, PE SENIOR PROFESSIONAL ENGINEER

#### Education

MS, PhD – Chemical Engineering, University of Southern California

BS, Chemical Engineering, University of Oklahoma

MSc, Meteorology, Massachusetts Institute of Technology

## Licenses, Certification, and Training

Registered California Professional Engineer (1973, California)

Hazardous Materials Management, University of California San Diego

Certificate in Air Quality Management, University of California San Diego

Certificate in Environmental Auditing, University of California Irvine

Certificate in ANSI-RAB NAP EMS Lead Auditing, SGS International

#### Professional Experience

Dr. Bishop is an environmental engineer with a wealth of knowledge and experience related to environmental issues; such as methane gas at landfills, hazardous waste in the subsurface, and leaking underground storage tanks. His experience includes managing a 35 person, California-certified central laboratory, capable of performing a full range of fuel, environmental, and material analyses. As an environmental engineer, Dr. Bishop combines his knowledge of chemistry, engineering, and the regulatory arena to efficiently process and obtain permits for wastewater and storm water discharges, identify environmental health risks, prepare risk management prevention plans, and complete environmental site assessments.

#### Project Experience

American Pest Control Post Tank Removal Assessment. An underground storage tank was moved from the site where American Pest Control has their office. The removed underground storage tank had many holes and initial soil sampling results indicated a gasoline and diesel release had occurred. Dr. Bishop prepared and implemented a post tank removal workplan to assess petroleum hydrocarbons in the soil and to remove any impacted soil. Soil was assessed using a track-mounted excavator and stockpiling the soil onsite for characterization, and later reuse or disposal. The assessment included the lateral and vertical extent of the petroleum hydrocarbon-bearing soil. Collected soil samples were analyzed with a mobile laboratory. Depending on analyses results, soil was used for backfill or transported off-site for treatment. The surface was returned to its original level and condition. The post tank removal assessment report indicated it is unlikely that any exposure pathways are present.

Resume 1 of 3

**ALTA@6th & Market Mixed-Use Redevelopment.** While constructing Alta, a 21-story mixed use development in downtown San Diego, Anka Development's contractor discovered unidentified contamination during mass excavation. Approximately 90 percent of the subsurface was impacted by gasoline releases from off-site sources. Dr. Bishop provided litigation support services on behalf of the Anka in their cost recovery efforts.

Big Bear Galleria Subsurface Investigation. Dr. Bishop completed a Phase I environmental site assessment for Big Bear Galleria, LLC who is acquiring 8.35 acres of land in Big Bear, California. After completing the assessment, he identified underground storage tanks and inground hydraulic lifts at the site. Based on the recognized environmental conditions, the shallow depth to groundwater, and the planned acquisition of the Site, Dr. Bishop proceeded with a subsurface investigation. The investigation used borings to assess the concentrations of total petroleum hydrocarbon, volatile organic compounds, and polychlorinated biphenyls in the shallow soil and groundwater. A geophysical survey was conducted to identify geophysical anomalies.

**Poway As Needed Environmental Services.** The Poway Redevelopment Agency is redeveloping several areas along major transportation corridors. To resolve environmental issues and obtain regulatory agency compliance, Dr. Bishop provides providing environmental consulting services. These services include completing Phase I environmental site assessments and subsurface investigations.

Lemon Grove Environmental Services. To gather information about contamination from current and historical land uses, Dr. Bishop completed environmental site assessments of parcels in Lemon Grove's Redevelopment Area. During the assessments, possible risks to human health and the environment from current and past land uses were discovered. The assessments indicated that several dry cleaners and automotive repair shops have been or are currently located in the area. One significant dry cleaning solvent plume was identified. Planning is underway for appropriate cleanup strategies for impacted properties, including institutional controls.

Pacific Gateway Development. The Pacific Gateway Development effort will redevelop eight blocks into several high-rise buildings, a museum, offices, and hotels. The project will include extensive underground parking. Dr. Bishop conducted historical research to prepare the area for redevelopment. Materials reviewed included historical maps, directories, aerial photographs, previous reports, past newspaper accounts, and other written histories going back to the beginning of the 20th century. The research discovered the site originally consisted of bay flat, tidal flats, and marshes around the margins of San Diego Bay. Around 1914 the site was reclaimed by hydraulically placed fill dredged from San Diego Bay. Historical land uses included uncontrolled dumping at a "garbage wharf," fuel storage and hauling company, gas stations, coal bunkers and associated rail operations, and 11 underground storage tanks were removed or abandoned in place. There was evidence a manufactured gas plant may have been on the site.

**FF Development 5201 Ruffin Road Regulatory Database Review.** FF Development is proposing to redevelop 19.38 acres along Ruffin Road in San Diego, California for residential use. To assess the potential impacts from offsite sources of toxic or hazardous air contaminants and toxic or hazardous substances at commercial and industrial facilities within a quarter mile of

Resume 2 of 3

the site, Dr. Bishop completed a regulatory agency records review. The review identified several facilities within a quarter mile of the site do handle or have handled hazardous materials. Based on Dr. Bishop's research, the depth to groundwater in the vicinity of the site, location of the facilities with respect to the interpreted groundwater flow direction, and his experience, Dr. Bishop indicated there is a low likelihood that a recognized environmental condition exists.

Los Vientos Redevelopment Environmental Site Assessments. Dr. Bishop completed Phase I and II environmental site assessments for this taxed credit, multi-tenant, low-income housing redevelopment project. The Phase II environmental site assessment used a soil vapor survey, geophysical survey, and soil sampling to determine the presence and concentrations of environmental contaminants. An asbestos and lead-based paint survey was completed that included bulk sampling of suspect asbestos-containing materials and lead-based paints. Findings were presented in a report with figures and tables depicting sampling and material locations, abatement cost estimates, and technical specifications for removal.

Port of San Diego Environmental Services. The Port of San Diego routinely determines environmental conditions for properties within their jurisdiction. Several areas of the Port of San Diego are environmentally impaired from industrial and commercial uses. Dr. Bishop assisted the Port of San Diego with determining environmental issues at these sites and developing approaches for remediation. Services provided by Dr. Bishop included environmental assessments, remediation, permitting, regulatory compliance, hazardous waste management and disposal, and risk assessment.

**Due Diligence Environmental Site Assessments.** Working with developers, investors, and lending institutions, Dr. Bishop completes Phase I environmental site assessments for property transactions as part of the due diligence process required by the Comprehensive Environmental Response, Compensation, and Liability Act of 1980. Dr. Bishop has completed the following Phase I environmental site assessments:

- 5<sup>th</sup> Rock LLC- Fifth Avenue Redevelopment Site, San Diego, California
- Spinnaker Waterfront Hotel, LLC-Spinnaker Hotel, San Diego, California
- Sunroad Development-Main Street Development, Chula Vista, California
- AMCAL Multi-Housing, Inc.-555 9<sup>th</sup> Avenue Residential Redevelopment, Oakland, California
- AMCAL Multi-Housing, Inc.-4<sup>th</sup> Avenue Residential Redevelopment, El Centro, California
- Cruzan Monroe-Camino Corporate Center, Carlsbad, California
- Community Housing Works Alabama Street Multi-Family Residential, San Diego, California
- Copley Park Developers, LLC, Copley Park Place Development, San Diego, California
- Global Premier-Monterey Family Apartments, San Jose, California
- La Maestra Community Health Centers-43<sup>rd</sup> and University Community Health Center, San Diego, California
- Pioneer Centers- Miramar Audi and Volkswagen, San Diego, California

Resume 3 of 3

## LUKE MONTAGUE, PG

#### Education

MS – Environmental Science and Management, University of California Santa Barbara, 2004

BS – Geology, University of California Santa Barbara, 1998

#### Licenses

Professional Geologist, California (Lic. 8071)

General Building Contractor, B Classification, California (Lic. 981618)

#### Certifications

Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response (HAZWOPER) 40-Hour Training

Real Estate Entitlement, Development, and Design, University of San Diego, 2010

Real Estate Finance, Investments, and Development, University of San Diego, 2010

## Professional Experience

Luke Montague is a professional geologist (PG) and licensed contractor with 13 years of experience in environmental consulting, general contracting, commercial and residential development, and property and asset management. He has performed and reviewed over five hundred Phase I environmental site assessments, and has completed subsurface investigations, geotechnical investigations, removal action work plans, site remediation activities, asbestos and lead-based paint surveys, and asbestos air monitoring. His development, general contracting, and property and asset management experience includes managing construction through lease-up; lease administration and property operations and maintenance; contract procurement and administration; oversight of subcontractors and staff; and interfacing with clients, owners, tenants, and regulatory agencies.

# Project Experience

San Diego County Water Authority (SDCWA), Environmental Consulting Services, San Diego, CA. As Project Manager, completed several environmental site assessments and subsurface assessments to assist the SDCWA obtain easements required to complete the Carlsbad Desalination Project.

City of Encinitas, Site Investigation and Planning, Encinitas Community Park, Encinitas, CA. As Project Geologist, provided oversight for the mitigation and monitoring activities of pesticides in soil from the Hall Property, which consists of 43-acres of coastal bluff formerly used as a nursery, currently being redeveloped into a community park. Under the oversight of

Resume 1 of 3

the County of San Diego Department of Environmental Health, work consisted of: Phase II environmental site assessments, preparation and implementation of a Soil Management Plan for on-site reuse of pesticide-impacted soil in a Soil Management Zone, procedures and plans for the excavation and reuse of pesticide impacted soil, preparation of a Community Health and Safety Plan to monitor and suppress dust generated during excavation activities, and a Property Closure Report.

Los Angeles Unified School District, Assessment and Remediation, Various Locations in Los Angeles County, CA. Managed and performed the environmental characterization and clean-up of various proposed school redevelopment projects overseen by the California Department of Toxic Substances Control (DTSC) that required Phase I environmental site assessments, preliminary environmental assessments or subsurface investigations, and preparation and implementation of removal action work plans to obtain "no further action' status prior to redevelopment.

City Heights Revitalization Corporation, Brownfields Assessment and Remediation, City Heights, CA. Managed a subsurface investigation for an entire brownfield city block planned for redevelopment. The investigation included extensive drilling, trenching, and hand auguring to estimate the volume of lead- and hydrocarbon-impacted soil from residual contamination from a former service station and from lead-based paint. Work also included negotiation of clean up levels with the local regulatory agency.

Casmalia Steering Committee, Remedial Investigation, Casmalia, CA. Managed and performed soil vapor sampling at the Casmalia Hazardous Waste Management Facility, a Class I hazardous waste site, for a remedial investigation and feasibility study of soil gas impacts submitted to the Environmental Protection Agency (EPA). Soil gas impacts to ecological receptors were assessed considering specific regulatory guidance including the joint DTSC and Los Angeles Regional Water Quality Control Board (LAWQCB) Advisory on Active Soil Gas Investigations.

The Boeing Company, Underground Storage Tanks Assessment, Long Beach, CA. Performed subsurface vapor intrusion to indoor air analysis at a former aeronautics manufacturing facility. Soil, soil vapor, and sub-slab soil vapor assessments were conducted to determine appropriate corrective actions associated with former solvent underground storage tanks (USTs). Work was performed under the corrective action consent agreement with the DTSC.

**Trihydro Corporation, Soil Vapor Sampling, Hooven, OH.** Performed soil vapor sampling from indoor air probes and outdoor multi-level probes at residences in Hooven, Ohio. This project focused on helping evaluate the potential for subsurface vapor intrusion to indoor air from volatilization of petroleum hydrocarbons in groundwater or light, non-aqueous phase liquid petroleum product, originating from an adjacent former fuel and asphalt petroleum refinery. The vapor intrusion pathway was evaluated based on a request by the EPA, Region V, and was performed in accordance with the EPA-issued document: Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soil, 2002.

Resume 2 of 3

CSK Auto, Phase I Environmental Site Assessments, Various Sites in the Western US. Conducted Phase I environmental site assessments (ESAs), subsurface investigations, and geotechnical investigations for the development of auto parts chain stores in the Western US. Work included site investigations, drilling operations, and records research.

AT&T/Gianni & Associates, Phase I ESAs and Geotechnical Investigations, San Diego, CA. Completed Phase I ESAs, transaction screen assessments, National Environmental Policy Act (NEPA) reports, asbestos surveys, and geotechnical investigations involving the development of wireless communications sites.

Ford Mance Company, Construction and Property Management, Mixed-Use Building at 111 Chesterfield Drive, Encinitas, CA. Served as project manager during development and construction phases of a 2-story, Type V, 3,874 square foot mixed use building with subterranean parking. Responsibilities included managing all phases of construction, shell and tenant improvements, and assisting in construction supervision activities and lease up. Development activities included oversight and collaboration of architectural, mechanical, electrical, and plumbing plans preparation, assisting with design research and decisions, obtaining various permits, and preparing cost and budgets. After construction, Mr. Montague also served as the property and asset manager.

Ford Mance Company, Construction and Property Management, Del Norte Medical Plaza, Carlsbad, CA. Served as project manager during development and construction of a 2-story, Type II, medical building with subterranean parking. Responsibilities included contracting out all phases of shell construction of 22,000 square feet of rentable area for medical use, collaborative oversight concerning architectural, mechanical, electrical, and plumbing plans preparation, assisting with design research and decision-making, obtaining various permits, and preparing costs and budgets. After construction, Mr. Montague also served as property and asset manager.

California Department of Fish and Game, Carpinteria Creek Watershed Plan, Carpinteria, CA. Collaborated local and state government representatives, and various stakeholders to aid in preparing the Carpinteria Creek Watershed Plan under the Cachuma Resource Conservation District for the California Department of Fish and Game. Work consisted of research, meetings, various field assessments, report writing, and map creation. The Plan served as an amendment to the Water Quality Control Plan for the Central Coast Region.

Resume 3 of 3