STATE OF CALIFORNIA STATE WATER RESOURCES CONTROL BOARD

ORDER WQ 2013-0036-UST

In the Matter of Underground Storage Tank Case Closure

Pursuant to Health and Safety Code Section 25296.40 and the Low-Threat

Underground Storage Tank Case Closure Policy

BY THE EXECUTIVE DIRECTOR¹:

By this order, the Executive Director directs closure of the underground storage tank (UST) case at the site listed below, pursuant to subdivision (a) of section 25296.40 of the Health and Safety Code.² The name of the petitioner, the site name, the site address, and the Underground Storage Tank Cleanup Fund (Fund) claim number if applicable, lead agency, and lead agency case number if applicable, are as follows:

Mr. Brian Decker
A.C.S. Station R-25
984 South Beach Boulevard, Anaheim, CA 92804
Fund Claim No. 12648
City of Anaheim, No Lead Agency Case Number Assigned

I. STATUTORY AND PROCEDURAL BACKGROUND

Upon receipt of a petition from a UST owner, operator, or other responsible party, section 25296.40 authorizes the State Water Resources Control Board (State Water Board) to close or require closure of a UST case where an unauthorized release has occurred, if the Board determines that corrective action at the site is in compliance with all of the requirements of subdivisions (a) and (b) of section 25296.10. The State Water Board, or in certain cases the State Water Board Executive Director, may close a case or require the closure of a UST case. Closure of a UST case is appropriate where the corrective action ensures the protection of human health, safety, and the environment and where the corrective action is consistent with:

¹ State Water Board Resolution No. 2012-0061 delegates to the Executive Director the authority to close or require the closure of any UST case if the case meets the criteria found in the State Water Board's Low-Threat Underground Storage Tank Case Closure Policy adopted by State Water Board Resolution No. 2012-0016.

² Unless otherwise noted, all references are to the California Health and Safety Code.

- 1) Chapter 6.7 of division 20 of the Health and Safety Code and implementing regulations;
- 2) Any applicable waste discharge requirements or other orders issued pursuant to division 7 of the Water Code; 3) All applicable state policies for water quality control; and 4) All applicable water quality control plans.

State Water Board staff has completed a review of the UST case identified above, and recommends that this case be closed. The recommendation is based upon the facts and circumstances of this particular UST case. A UST Case Closure Summary has been prepared for the case identified above and the basis for determining compliance with the Water Quality Control Policy for Low-Threat Underground Storage Tank Case Closures (Low-Threat Closure Policy or Policy) are explained in the Case Closure Summary.

Low-Threat Closure Policy

In State Water Board Resolution No. 2012-0016, the State Water Board adopted the Low Threat Closure Policy. The Policy became effective on August 17, 2012. The Policy establishes consistent statewide case closure criteria for certain low-threat petroleum UST sites. In the absence of unique attributes or site-specific conditions that demonstrably increase the risk associated with residual petroleum constituents, cases that meet the general and media-specific criteria in the Low-Threat Closure Policy pose a low threat to human health, safety, and the environment and are appropriate for closure under Health and Safety Code section 25296.10. The Policy provides that if a regulatory agency determines that a case meets the general and media-specific criteria of the Policy, then the regulatory agency shall notify responsible parties and other specified interested persons that the case is eligible for case closure. Unless the regulatory agency revises its determination based on comments received on the proposed case closure, the Policy provides that the agency shall issue a uniform closure letter as specified in Health and Safety Code section 25296.10. The uniform closure letter may only be issued after the expiration of the 60-day comment period, proper destruction or maintenance of monitoring wells or borings, and removal of waste associated with investigation and remediation of the site.

Health and Safety Code section 25299.57, subdivision (I)(1) provides that claims for reimbursement of corrective action costs that are received by the Fund more than 365 days after the date of a uniform closure letter or a letter of commitment, whichever occurs later, shall not be reimbursed unless specified conditions are satisfied.

II. FINDINGS

Based upon the UST Case Closure Summary prepared for the case, the State Water Board finds that corrective action taken to address the unauthorized release of petroleum at the UST release site identified as:

Mr. Brian Decker

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984 South Beach Boulevard, Anaheim, CA 92804

Fund Claim No. 12648

City of Anaheim, No Lead Agency Case Number

ensures protection of human health, safety, and the environment and is consistent with chapter 6.7 of division 20 of the Health and Safety Code and implementing regulations, the Low-Threat Closure Policy and other water quality control policies and applicable water quality control plans.

Pursuant to the Low-Threat Closure Policy, notification has been provided to all entities that are required to receive notice of the proposed case closure, a 60-day comment period has been provided to notified parties, and any comments received have been considered by the State Water Board in determining that the case should be closed.

The UST case identified above may be the subject of orders issued by the Regional Water Quality Control Water Board (Regional Water Board) pursuant to division 7 of the Water Code. Any orders that have been issued by the Regional Water Board pursuant to division 7 of the Water Code, or directives issued by a Local Oversight Program (LOP) agency for this case should be rescinded to the extent they are inconsistent with this Order.

III. ORDER

IT IS THEREFORE ORDERED that:

- A. The UST case identified in Section II of this Order, meeting the general and mediaspecific criteria established in the Low-Threat Closure Policy, be closed in accordance with the following conditions and after the following actions are complete. Prior to the issuance of a uniform closure letter, the Petitioner is ordered to:
 - Properly destroy monitoring wells and borings unless the owner of real property on which the well or boring is located certifies that the wells or borings will be maintained in accordance with local or state requirements;

- 2. Properly remove from the site and manage all waste piles, drums, debris, and other investigation and remediation derived materials in accordance with local or state requirements; and
- 3. Within six months of the date of this Order, submit documentation to the regulatory agency overseeing the UST case identified in section II of this Order that the tasks in subparagraphs (1) and (2) have been completed.
- B. The tasks in subparagraphs (1) and (2) of Paragraph (A) are ordered pursuant to Health and Safety Code section 25296.10 and failure to comply with these requirements may result in the imposition of civil penalties pursuant to Health and Safety Code section 25299 subdivision (d)(1). Penalties may be imposed administratively by the State Water Board or Regional Water Board.
- C. Within 30 days of receipt of proper documentation from the Petitioner that requirements in subparagraphs (1) and (2) of Paragraph (A) are complete, the regulatory agency that is responsible for oversight of the UST case identified in Section II of this Order shall notify the State Water Board that the tasks have been satisfactorily completed.
- D. Within 30 days of notification from the regulatory agency that the tasks are complete pursuant to Paragraph (C), the Deputy Director of the Division of Water Quality shall issue a uniform closure letter consistent with Health and Safety Code, section 25296.10, subdivision (g) and upload the uniform closure letter and UST Case Closure Summary to GeoTracker.
- E. Pursuant to section 25299.57, subdivision (I) (1), and except in specified circumstances, all claims for reimbursement of corrective action costs must be received by the Fund within 365 days of issuance of the uniform closure letter in order for the costs to be considered.

F_a	Any Regional Water Board or LOP Agency directive or order that directs corrective
	action or other action inconsistent with case closure for the UST case identified in
	Section II is rescinded, but only to the extent the Regional Water Board order or LOF
	Agency directive is inconsistent with this Order.

Executive Director

Date





State Water Resources Control Board

UST CASE CLOSURE SUMMARY

Agency Information

Agency Name: City of Anaheim	Address: 201 S. Anaheim Blvd. #601 Anaheim, CA 92805
Agency Caseworker: Mr. Richard Wilson	Case No.: None

Case Information

USTCF Clain	n No.: 12648	Global ID: T0605901854		
Site Name: A.C.S. Station R-25 Petitioner: Mr. Brian Decker		Address: 984 South Beach Boulevard Anaheim, CA 92804 Orange County (Site)		
Petitioner:	Mr. Brian Decker J.E. Dewitt, Inc.	Address: 1903 Durfee Avenue South El Monte, CA 91733		
USTCF Expe	nditures to Date: \$839,581	Number of Years Case Open: 17		

URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605901854

Summary

The Low-Threat Underground Storage Tank Case Closure Policy (Policy) contains general and media-specific criteria, and cases that meet those criteria are appropriate for closure pursuant to the Policy. This Site meets all of the required criteria of the Policy. A summary evaluation of compliance with the Policy is shown in Attachment 1: Compliance with State Water Board Policies and State Law. The Conceptual Site Model upon which the evaluation of the case has been made is described in Attachment 2: Summary of Basic Site Information. Highlights of the Conceptual Site Model are summarized as follows.

The release at the Site was discovered when a former dispenser and three former 4,000 gallon underground storage tanks (UST) were removed in 1997. The Site is currently a gasoline station and operates three 10,000 gallon gasoline USTs. During the 1997 tank removal activities, approximately 114.6 tons of soil was excavated, over-excavated, and disposed. To promote bioremediation, fertilizer and microbes were added to the material used for backfill. Other remediation activities included the injection of 1,470 pounds of oxygen release compound (ORC) during May 1998 and operation of a dual phase extraction (DPE) system between 2002 and 2007. The Site is currently undergoing post-remedial groundwater monitoring.

The petroleum release is limited to the shallow soil and groundwater. The nearest irrigation well is located greater than 1,000 feet southwest (downgradient) of the Site. The nearest public supply well regulated by the California Department of Public Health is located greater than 1,000 feet southwest (downgradient) of the Site. No domestic wells have been identified within 1,500 feet of the Site. Public

water is supplied by the Orange County Water District. The affected groundwater is not currently being used as a source of drinking water or for any other designated beneficial use, and it is highly unlikely that the affected groundwater will be used as a source of drinking water or for any other beneficial use in the foreseeable future. Public supply wells are usually constructed with competent sanitary seals and intake screens that are in deeper more protected aquifers. Other designated beneficial uses of impacted groundwater are not threatened and considering the Site setting, it is highly unlikely that they will be in the foreseeable future. Remaining petroleum constituents are limited, stable and declining. Remedial actions have been implemented and further remediation would be ineffective and expensive. Additional assessment/monitoring will not likely change the conceptual site model. Any remaining petroleum constituents do not pose significant risk to human health, safety or the environment

Rationale for Closure under the Policy

- General Criteria Site MEETS ALL EIGHT GENERAL CRITERIA under the Policy.
- Groundwater Media-Specific Criteria Site meets the criterion in CLASS 5. Based on an analysis
 of Site-specific conditions that under current and reasonably anticipated near-term future scenarios,
 the contaminant plume poses a low-threat to human health and safety to the environment and
 Water Quality Objectives (WQOs) will be achieved within a reasonable period of time.
- Petroleum Vapor Intrusion to Indoor Air –Site meets the EXCEPTION. The Site operates as an
 active commercial fueling facility and has no release characteristics that can be reasonably believed
 to pose an unacceptable health risk.
- Direct Contact and Outdoor Air Exposure Site meets CLASS a. Maximum concentrations of
 petroleum constituents in soil are less than or equal to those listed in Table 1 of the Policy. The
 estimated naphthalene concentrations in soil are less than the thresholds in Table 1 of the Policy for
 direct contact. It is unlikely that naphthalene concentrations in the soil, if any, exceed the threshold.

Objections to Closure

City of Anaheim staff objected to UST case closure because:

- 1. The extent of the tert-Butyl alcohol (TBA) plume in groundwater has not been delineated.
 - Response: TBA reported in groundwater at the Site has demonstrated stable and decreasing trends over time. TBA in groundwater likely extends offsite. Based on concentration gradient observed between the central portion of the TBA plume (MW-7) and lateral portions of the plume (MW-8 and MW-9), it is likely that the TBA plume terminates beneath South Beach Boulevard.
- 2. The closure request did not include technical studies or models that are typically provided when requesting case closure when high levels of contamination remain onsite.
 - <u>Response:</u> The supporting data and analysis used to develop the CSM are provided in multiple reports submitted to the regulatory agency over a period of time.
- Anaheim is listed as being within the recharge area of the Orange County groundwater basin.
 - <u>Response:</u> The Site is located in the western part of Anaheim. This part of Anaheim is located in a transition zone between the recharge area (Forebay) and discharge area (Pressure Area) of the

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Orange County groundwater basin. Benzene and TBA currently exist in groundwater at the Site above WQOs. However, based on an analysis of Site-specific conditions that under current and reasonably anticipated near-term future scenarios, the contaminant plume poses a low-threat to human health and safety and to the environment and WQOs will be achieved within a reasonable time frame.

Recommendation for Closure

The corrective action performed at this Site ensures the protection of human health, safety, the environment and is consistent with Chapter 6.7 of the Health and Safety Code and implementing regulations, applicable state policies for water quality control and the applicable water quality control plan, and case closure is recommended.

Prepared By: ___

Eric T. Morita, PG No. 8534

Engineering Geologist

Reviewed By:

Benjamin Heningburg, PG No. 8130

Senior Engineering Geologist

Date

Date

ATTACHMENT 1: COMPLIANCE WITH STATE WATER BOARD POLICIES AND STATE LAW

The site complies with State Water Resources Control Board policies and state law. Section 25296.10 of the Health and Safety Code requires that sites be cleaned up to protect human health, safety, and the environment. Based on available information, any residual petroleum constituents at the site do not pose significant risk to human health, safety, or the environment.

The site complies with the requirements of the Low-Threat Underground Storage Tank (UST) Case Closure Policy as described below.¹

Is corrective action consistent with Chapter 6.7 of the Health and Safety Code and implementing regulations? The corrective action provisions contained in Chapter 6.7 of the Health and Safety Code and the implementing regulations govern the entire corrective action process at leaking UST sites. If it is determined, at any stage in the corrective action process, that UST case closure is appropriate, further compliance with corrective action requirements is not necessary. Corrective action at this site has been consistent with Chapter 6.7 of the Health and Safety Code and implementing regulations and, since this case meets applicable case-closure requirements, further corrective action is not necessary, unless the activity is necessary for case closure.	⊠ Yes □ No
Have waste discharge requirements or any other orders issued pursuant to Division 7 of the Water Code been issued at this site?	□ Yes ⊠ No
If so, was the corrective action performed consistent with any order? There was an order issued for this site. The corrective action performed in the past is consistent with that order. Since this case meets applicable case-closure requirements, further corrective action under the order that is not necessary, unless the activity is necessary for case closure.	□ Yes □ No ⊠ NA
General Criteria General criteria that must be satisfied by all candidate sites:	
Is the unauthorized release located within the service area of a public water system?	⊠ Yes □ No
Does the unauthorized release consist only of petroleum?	⊠ Yes □ No
Has the unauthorized ("primary") release from the UST system been stopped?	⊠ Yes □ No
Has free product been removed to the maximum extent practicable?	☐ Yes ☐ No ☒ NA

¹ Refer to the Low-Threat Underground Storage Tank Case Closure Policy for closure criteria for low-threat petroleum UST sites.

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Has a conceptual site model that assesses the nature, extent, and mobility of the release been developed?	⊠ Yes □ No
Has secondary source been removed to the extent practicable?	⊠ Yes □ No
Has soil or groundwater been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15?	⊠ Yes □ No
Nuisance as defined by Water Code section 13050 does not exist at the site?	⊠ Yes □ No
Are there unique site attributes or site-specific conditions that demonstrably increase the risk associated with residual petroleum constituents?	□ Yes ⊠ No
Media-Specific Criteria Candidate sites must satisfy all three of these media-specific criteria:	
1. Groundwater:	
To satisfy the media-specific criteria for groundwater, the contaminant plume	
that exceeds water quality objectives (WQOs) must be stable or decreasing in	
areal extent, and meet all of the additional characteristics of one of the five	
classes of sites:	
Is the contaminant plume that exceeds WQOs stable or decreasing in	⊠ Yes □ No □ NA
areal extent?	a roo a no a ro
Does the contaminant plume that exceeds WQOs meet all of the	☑ Yes ☐ No ☐ NA
additional characteristics of one of the five classes of sites?	
If YES, check applicable class: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☑ 5	
For sites with releases that have not effected aroundwater do makits	C V C N- E
For sites with releases that have not affected groundwater, do mobile	☐ Yes ☐ No ☒
constituents (leachate, vapors, or light non-aqueous phase liquids)	NA
contain sufficient mobile constituents to cause groundwater to	
exceed the groundwater criteria? 2. Petroleum Vapor Intrusion to Indoor Air:	A STATE OF THE STA
The site is considered low-threat for vapor intrusion to indoor air if site-specific	
conditions satisfy all of the characteristics of one of the three classes of sites (a	Į.
through c) or if the exception for active commercial fueling facilities applies.	
through c) or if the exception for active commercial ruening facilities applies.	
Is the site an active commercial petroleum fueling facility?	2000 2 4 2000 - 1
Exception: Satisfaction of the media-specific criteria for petroleum vapor	☑ Yes ☐ No
intrusion to indoor air is not required at active commercial petroleum fueling	
facilities, except in cases where release characteristics can be reasonably	
believed to pose an unacceptable health risk.	
	1

	a.	Do site-specific conditions at the release site satisfy all of the applicable characteristics and criteria of scenarios 1 through 3 or all of the applicable characteristics and criteria of scenario 4?	□Yes □ No ⊠ NA
		If YES, check applicable scenarios: 1 2 3 4	
	b.	Has a site-specific risk assessment for the vapor intrusion pathway been conducted and demonstrates that human health is protected to the satisfaction of the regulatory agency?	□ Yes □ No ☒ NA
	c.	As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, has the regulatory agency determined that petroleum vapors migrating from soil or groundwater will have no significant risk of adversely affecting human health?	□ Yes □ No ⊠ NA
3.	Th	rect Contact and Outdoor Air Exposure: e site is considered low-threat for direct contact and outdoor air exposure ite-specific conditions satisfy one of the three classes of sites (a through	
Application of the second seco	a.	Are maximum concentrations of petroleum constituents in soil less than or equal to those listed in Table 1 of the Policy for the specified depth below ground surface (bgs)?	⊠ Yes □ No □ NA
	b.	Are maximum concentrations of petroleum constituents in soil less than levels that a site specific risk assessment demonstrates will have no significant risk of adversely affecting human health?	□ Yes □ No ⊠ NA
The state of the s	c.	As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, has the regulatory agency determined that the concentrations of petroleum constituents in soil will have no significant risk of adversely affecting human health?	□ Yes □ No ⊠ NA

ATTACHMENT 2: SUMMARY OF BASIC INFORMATION (Conceptual Site Model)

Site Location/History

- The Site is located at the intersection of South Beach Boulevard and West Ball Road in Anaheim. The Site is an operating petroleum fueling facility.
- The Site is bounded by commercial properties. A closed UST site is located to the southwest.
- Nature of Contaminants of Concern: Petroleum hydrocarbons only.
- Primary Source of Release: UST system
- Discovery Date: 1995
- Release Type: Petroleum²
- Six monitoring wells have been installed.
- Free Product: None reported

Table A: USTs

Tank No.	Size	Contents Status		Date		
1	12,000-gallon	Gasoline	Removed	1997		
2	12,000-gallon	Gasoline	Removed	1997		
3	12,000-gallon	Gasoline	Removed	1997		
4	13,000-gallon	Gasoline	Installed	2000		
5	13,000-gallon	Gasoline	Installed	2000		
6	13,000-gallon	Gasoline	installed	2000		

Receptors

- Groundwater Basin: Orange County
- Groundwater Beneficial Uses: Municipal and domestic water supply (MUN), agricultural supply (AGR), industrial service supply (IND), and industrial process supply (PROC).
- Designated Land Use: General Commercial (GC)
- Public Water System: Orange County Water District
- Distance to Nearest Supply Wells: Irrigation well is located greater than 1,000 feet southwest; Supply well is greater than 1,000 feet southwest
- Distance to Nearest Surface Waters: Carbon Creek Channel is located greater than 1,000 feet west

Geology/Hydrogeology

- Average Groundwater Depth: approximately 14 feet
- Minimum Groundwater Depth: approximately 13 feet
- Groundwater Flow Direction: Southwesterly
- Geology: Asphalt and concrete underlain by interbedded sand and clay to a maximum explored depth of 30 feet below ground surface (bgs).

² "Petroleum" means crude oil, or any fraction thereof, which is liquid at standard conditions of temperature and pressure, which means at 60 degrees Fahrenheit and 14.7 pounds per square inch absolute. (Health & Safety Code, § 25299.2)

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Hydrology: Groundwater is unconfined. The Site is located within the Orange County Groundwater
Basin in a transition area between the recharge zone known as the Forebay and a discharge zone known
as the Pressure Area. Distance to nearest surface water (Carbon Creek Channel) is located greater than
1,000 feet north of the Site.

Corrective Actions

- Three USTs were removed in 1997. During removal activities 114.6 tons of petroleum impacted soil was excavated, over-excavated, and disposed offsite. Fertilizer and microbes were added to the backfill material to promote bioremediation.
- In 1998, 1,470 pounds of Oxygen Release Compound (ORC®) was injected into the subsurface.
- Between 2002 and 2007, a DPE system operated at the site.

Table B: Concentrations of Petroleum Constituents in Soil

Constituent	Maximum 0-5 ft. bgs (mg/kg)	Maximum 5-10 ft. bgs (mg/kg)	
Benzene	1.2	1.5	
Ethylbenzene	1.0	55	
Naphthalene	Not Analyzed	Not Analyzed	
Polyaromatic Hydrocarbons (PAHs)	Not Analyzed	Not Analyzed	

Table C: Concentrations of Petroleum Constituents of Concern in Groundwater

Sample	Sample Date	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (pp b)	MTBE (ppb)	TBA (ppb)
MW-3	1/30/07	<50	<0.5	<0.5	<0.5	<1.0	<1.0	2,390
MW-4	1/31/07	<50	<0.5	<0.5	<0.5	<1.0	<1.0	<10
MW-5	1/31/07	<50	<0.5	<0.5	<0.5	<1.0	<1.0	<10
MW-6	8/8/12	<50	4.5	<0.5	1.7	3.3	<1.0	<10
MVV-7	8/8/12	<50	<0.5	<0.5	<0.5	<1.0	<1.0	568
MW-8	8/8/12	<50	<0.5	<0.5	<0.5	<1.0	<1.0	96.8
MW-9	8/8/12	<50	<0.5	<0.5	<0.5	<1.0	<1.0	232
WQOs	-	50	1	42	29	17	5	12*

WQOs - Water Quality Objectives

ppb = parts per billion

TPHg = Total Petroleum Hydrocarbons quantified as gasoline

MT8E = methyl tert-Butyl ether

TAME = tert-Amyl methyl ether

< = less than the indicated reporting limit

Evaluation of Risk Criteria

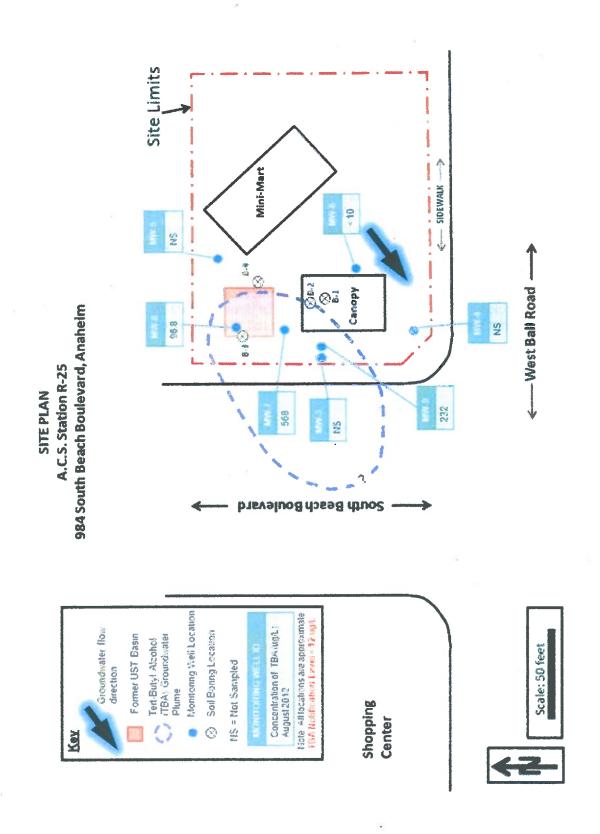
- Maximum Petroleum Constituent Plume Length above WQOs: Approximately 100 feet long.
- Petroleum Constituent Plume Determined Stable or Decreasing: Yes
- Soil/Groundwater Sampled for MTBE: Yes, see Table C above.
- Residual Petroleum Constituents Pose Significant Risk to the Environment: No.

^{*} California Notification Level

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- Residual Petroleum Constituents Pose Significant Vapor Intrusion Risk to Human Health:
 No Petroleum constituents most likely to pose a threat for vapor intrusion were removed during
 soil excavation and over-excavation. The Site operates as an active fueling facility. Site conditions
 demonstrate that the residual petroleum constituents in soil and groundwater are protective of
 human health.
- Residual Petroleum Constituents Pose a Nuisance³ at the Site: No.
- Residual Petroleum Constituents in Soil Pose Significant Risk of Adversely Affecting
 Human Health: No Site-specific conditions satisfy all of the applicable characteristics and criteria
 for petroleum vapor intrusion to indoor-air under class a. scenario 3.
- Residual Petroleum Constituents Pose Significant Direct Contact and Outdoor Air Exposure to Human Health: No Maximum concentrations of petroleum constituents in soil are less than or equal to those listed in Table 1. There are no soil sample results in the case record for naphthalene. However, the relative concentration of naphthalene in soil can be conservatively estimated using the published relative concentrations of naphthalene and benzene in gasoline. Taken from Potter and Simmons (1998), gasoline mixtures contain approximately 2% benzene and 0.25% naphthalene. Therefore, benzene concentrations can be directly substituted for naphthalene concentrations with a safety factor of eight. Benzene concentrations from the Site are below the naphthalene thresholds in Table 1 of the Policy. Therefore, estimated naphthalene concentrations meet the thresholds in Table 1 and the Policy criteria for direct contact by a factor of eight. It is highly unlikely that naphthalene concentrations in the soil, if any, exceed the threshold.

³ Nuisance as defined in California Water Code, section 13050, subdivision (m).



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