



Linda S. Adams
Secretary for
Environmental Protection

State Water Resources Control Board

Division of Financial Assistance

1001 I Street • Sacramento, California 95814
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(800) 813-FUND (3863) • FAX (916) 341-5806 • www.waterboards.ca.gov/water_issues/programs/ustcf/



Arnold Schwarzenegger
Governor

NOTIFICATION OF OPPORTUNITY FOR PUBLIC COMMENT

UNDERGROUND STORAGE TANK (UST) CLEANUP FUND (FUND),
MEETING NOTIFICATION FOR CASE CLOSURE RECOMMENDATION, PURSUANT TO
HEALTH AND SAFETY CODE SECTION 25299.39.2: CLAIM NUMBER: 15879;
SITE ADDRESS: 3264 RAMONA STREET, SACRAMENTO, CA 95826

By this letter, as Fund Manager, I am informing you of the Fund's intent to recommend closure of your UST site cleanup case to the State Water Resources Control Board (State Water Board) at its October 19, 2010, Board meeting.

In the interim, any reasonable, necessary, and eligible costs that you incur and submit in a properly documented reimbursement request will continue to be reimbursed by the Fund, as monies are available.

Meeting Notice

The State Water Board is planning to consider closing your UST case at its meeting that will be held on October 19, 2010, commencing at 9:00 a.m. in the Coastal Hearing Room, Second Floor of the Cal/EPA Building, 1001 I Street, Sacramento, California. Under separate cover at a later date, you will receive an agenda for this meeting.

Legal Authority

Health & Safety Code (H&SC) Section 25299.39.2(a) requires that the Fund Manager notify UST owners or operators who have a Letter of Commitment (LOC) that has been in active status for five or more years and to review the case history of these sites on an annual basis unless otherwise notified by the UST owner or operator. In addition, the H&SC section further states that the Fund Manager, with approval of the UST owner or operator, may recommend regulatory case closure to the State Water Board. This process is called the "5-Year Review." The State Water Board may close or require the closure of a UST case that is under the jurisdiction of a Regional Water Quality Control Board (Regional Water Board) or a local agency participating in the State Water Board's local oversight program.

Discussion

Having obtained your approval, and pursuant to H&SC Section 25299.39.2(a), to recommend closure of your UST case to the State Water Board, enclosed is a copy of the UST Case Closure Summary for your UST case. The case closure summary contains information about your UST case and forms the basis for the UST Cleanup Fund manager's recommendation to the State Water Board for UST case closure. A copy of the Case Closure Summary is also being provided to your environmental consultant and the local agency that has been overseeing corrective action at your site. Other interested persons may obtain a copy of the Case Closure Summary by contacting Ms. Dennise Walker, at (916) 341-5789.

Comments

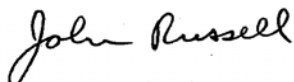
At the meeting, interested persons will be allowed to comment orally on the case closure recommendation (including the case closure summary), subject to the following time limits. The UST Cleanup Fund claimant and the local agency overseeing corrective action at the site will be allowed five minutes for oral comment, with additional time for questions by the State Water Board members. Other interested persons will be allotted a lesser amount of time to address the State Water Board. At the meeting, the State Water Board may grant UST case closure, deny case closure, or may continue consideration until a later meeting.

Written comments on the case closure summary must be received by the State Water Board by 12:00 p.m. on September 17, 2010. Please provide the following information in the subject line: **October 19, 2010 Board Meeting, UST Case Closure, and applicable site address and UST Cleanup Fund claim number.** Comments must be addressed to:

Ms. Jeanine Townsend
Clerk to the Board
State Water Resources Control Board
1001 I Street, 24th Floor [95814]
P.O. Box 100
Sacramento, CA 95812-0100
(tel) 916-341-5600
(fax) 916-341-5620
(email) commentletters@waterboards.ca.gov

If you have any questions regarding this matter, please contact Mr. Robert Trommer at (916) 341-5684.

Sincerely,



John Russell, P.G., Fund Manager
Underground Storage Tank Cleanup Fund

Enclosure

cc: Thomas J. Knoch
Apex Envirotech, Inc.
11244 Pyrite Way
Gold River, CA 95670

Val Siebal
Sacramento County Environmental Management Department
Environmental Compliance Division
10590 Armstrong Avenue, Suite A
Mather, CA 95655-4153

Barry Marcus
Sacramento County Environmental Management Department
Environmental Compliance Division
10590 Armstrong Avenue, Suite A
Mather, CA 95655-4153

Jack Bellan
Sacramento County Environmental Management Department
Environmental Compliance Division
10590 Armstrong Avenue, Suite A
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Brian Newman
Regional Water Quality Control Board
Central Valley Region
11020 Sun Center Drive #200
Rancho Cordova, CA 95670-6114

City of Sacramento
Department of Utilities
1395 35th Avenue
Sacramento, CA 95822

California State University
6000 J Street
Sacramento, CA 95819

City of Sacramento
915 I Street, #5
Sacramento, CA 95814

Bale Properties
1681 Delta Court
Hayward, CA 94544

Kelbro Corporation
7675 Lakewood Road
Sacramento, CA 95828

Geremia Pools, Inc.
Claim No. 15879

-4-

cc: C P Chy II

Marlo & John Brush

Current Resident



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UST Case Closure Summary

This Underground Storage Tank (UST) Case Closure Summary has been prepared in support of a recommendation by the Petroleum Underground Storage Tank Cleanup Fund (Fund) to the State Water Resources Control Board (State Water Board) for closure of the UST case at 3264 Ramona Avenue in Sacramento, California (Site).

Agency Information

Agency Name: Sacramento County Environmental Management Department (SCEMD)	Address: 10590 Armstrong Avenue, Suite A Mather, CA 95655
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Case Information

SCEHD Case No: F543	Global ID: T0606701132
Site Name: Geremia Pools	Site Address: 3264 Ramona Street, Sacramento, CA 95826
Responsible Party: Geremia Pools, Inc.	Mailing Address: 1327 65 th Street, Sacramento CA 95819
USTCF Claim No.: 15879	USTCF Expenditures to Date: \$505,842
	Number of Years Open: 11 years

Tank Information

Tank No.	Size in Gallons	Contents	Closed in Place/Removed/Active?	Date
T-1	5,000	Gasoline	Removed	Dec 98
T-2	10,000	Diesel	Removed	Dec 98

Release Information

- Source of Release: UST System
- Date of Release: December 11, 1998
- Affected Media: Soil and Groundwater

Site Information

- GW Basin: Sacramento Valley Basin
- Beneficial Uses: Municipal and Domestic Water Supply (MUN), Agricultural Supply (AGR), Industrial Service Supply (IND), and Industrial Process Supply (PRO)
- Land Use Designation: The Site is zoned commercial.
- Distance to Nearest Supply Well: According to data available in GeoTracker, there are no public supply wells within ½ mile of the Site.
- Minimum Groundwater Depth: The minimum reported depth to groundwater is 44.31 feet below ground surface (bgs) at monitoring well MW-9.

- Maximum Groundwater Depth: The maximum reported depth to groundwater is 50.97 feet bgs at monitoring well MW-4.
- Groundwater Flow Direction: The groundwater flow direction is south/southwest with an average gradient of 0.0077 feet per foot (ft/ft).
- Soil Types: The Site is underlain by interbedded and intermixed sand, silt and clay.

Monitoring Well Information

Well Designation	Date Installed	Screen Interval (feet bgs)	Most Recent Depth to Groundwater (feet bgs) (Oct 09)
MW-1	Sep 00	35-55	47.78
MW-2	Sep 00	35-55	47.72
MW-3A	Sep 00	35-55	47.80
MW-4	Dec 03	35-55	48.34
MW-5	Oct 01	35-55	47.57
MW-7	Oct 01	35-55	47.75
MW-8	Oct 01	35-55	48.25
MW-9	Dec 02	45-60	46.63
EW-9	Oct 01	10-55	48.07
MW-10	May 06	35-55	48.11
MW-11	May 06	35-55	47.57
MW-12	May 06	35-55	46.92
GEW-13	May 06	41-61	47.86

Petroleum Hydrocarbon Constituent Concentration

Contaminant	Soil (mg/kg)		Water (ug/L)		WQOs (ug/L)
	Maximum	Latest	Maximum	Latest (Oct 09)	
TPHg	16	16	24,000	1,300	5
TPHd	220	220	7,400	NA	56
Benzene	150	150	9,800	40	0.15
Toluene	<5	<5	700	1.5	42
Ethylbenzene	400	400	930	8	29
Xylenes	NA	NA	1,900	8.9	17
MTBE	NA	NA	<5	NA	5
TBA	NA	NA	NA	NA	12
1,2-DCA	NA	NA	7	NA	0.4
Lead	7.15	7.15	NA	NA	15

NA Not Analyzed, Not Applicable or Data Not Available
WQO Water Quality Objectives
mg/kg milligrams per kilogram, parts per million
ug/L micrograms per liter, parts per billion

Site Description

The Site is located on northwest corner of Ramona Avenue and Cucamonga Avenue in Sacramento, California. The Site is a construction yard used to store pool installation materials and equipment.

Site History/Assessments

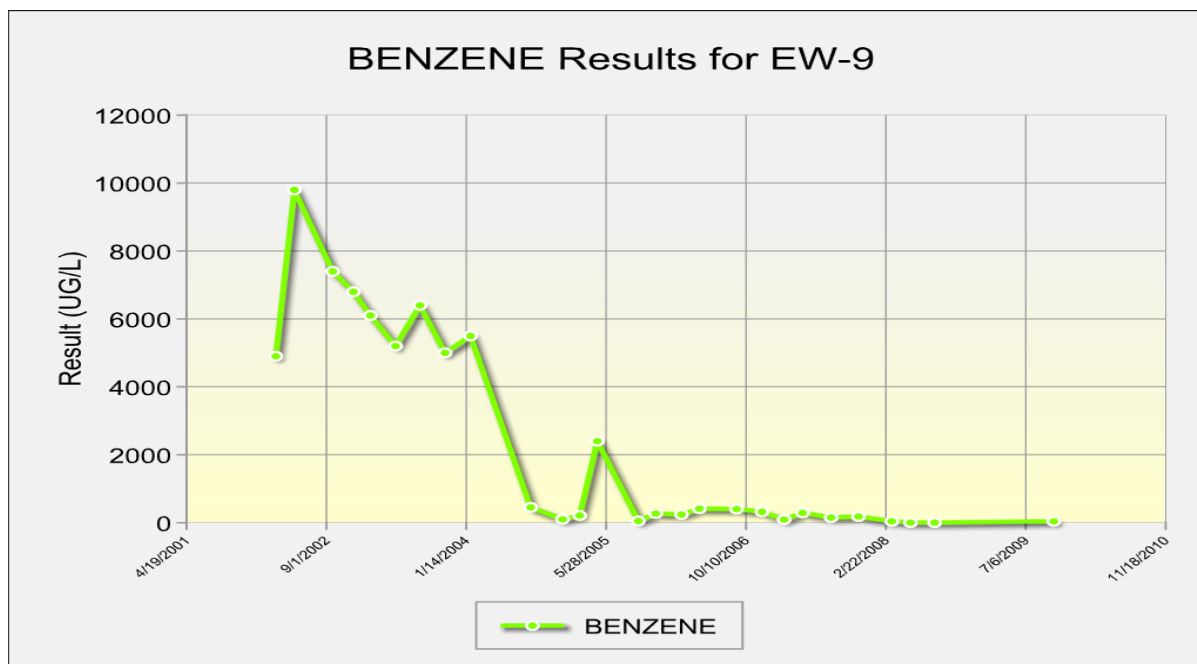
In December 1998, petroleum hydrocarbons were detected in soil and groundwater during UST removal. Several investigations have been conducted since 2000, resulting in the installation of 15 monitoring wells and the subsequent abandonment of two wells. In addition, a sensitive receptor survey was conducted in 2001. Soil vapor extraction conducted from March 2004 through November 2008, removed 7,255 pounds of TPHg. A Site map showing the location of the former USTs, monitoring wells and the benzene concentrations in Site wells is provided at end of this case closure summary.

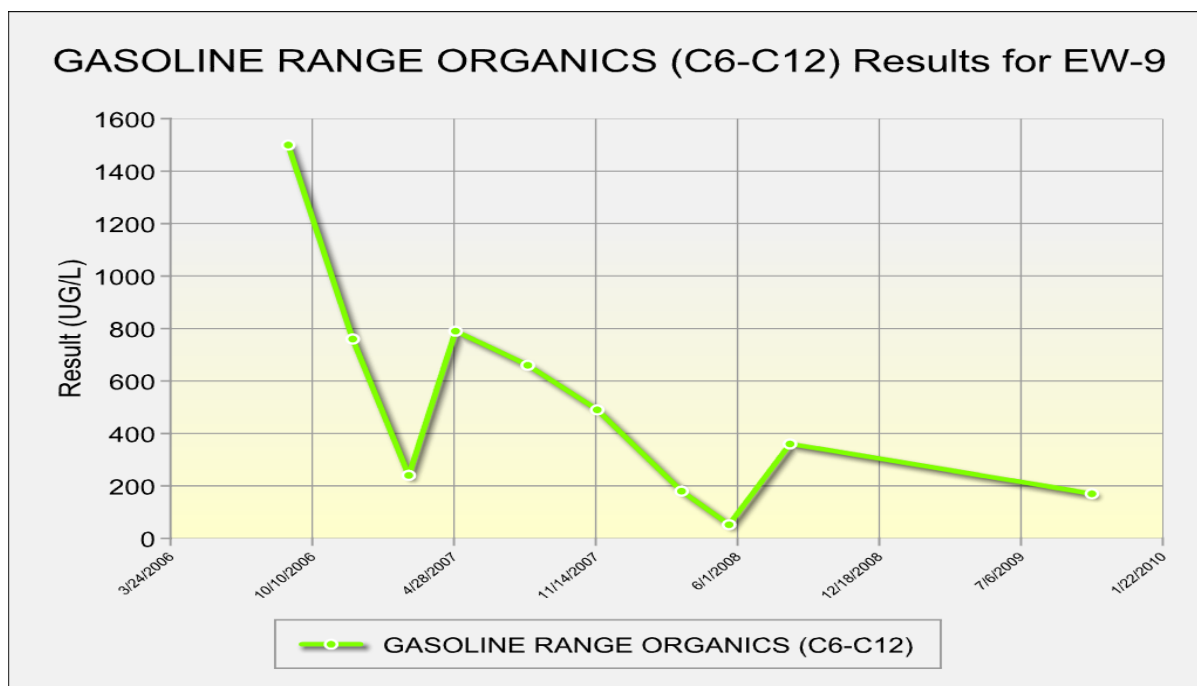
Remediation Summary

- Free Product: No free product was documented throughout the life of this case.
- Soil Excavation: Unknown volume
- In-Situ Soil Remediation:
 - Method: Soil Vapor Extraction
 - Duration: March 2004 through November 2008
 - Mass Removed: 7,255 pounds of TPHg
 - Rate of TPHg Removal: 0.79 pounds/day in November 2008
- Groundwater Remediation: None identified

General Site Conditions

- Geology and Hydrogeology: The Site is underlain by interbedded and intermixed sand, silt and clay. The depth to groundwater varies seasonally between 40 and 51 feet bgs. The groundwater gradient has varied from south to southwest, at approximately 0.0077 (ft/ft).
- Groundwater Trends: Benzene and TPHg concentrations in groundwater rapidly declined after soil vapor extraction began.





- Time to Meet Water Quality Objectives: Estimated to be 5 to 10 years for benzene and TPHg. All other water quality objectives have been attained.

Sensitive Receptor Survey

A Sensitive Receptor Survey (SRS) was conducted by Apex in July 2001. A records search at the Department of Water Resources and an on-the-ground survey in the area identified no domestic or public water supply wells within 1,000 feet of the Site. (Apex; Workplan Addendum for Limited Subsurface Investigation and Sensitive Receptor Survey, 30 July 2001.) Water in the area is provided to water users by the City of Sacramento, Department of Utilities.

Risk Evaluation

Soil vapor extraction (SVE) removed a significant mass of residual hydrocarbons from the shallow subsurface and was terminated only after the rate of extraction significantly decreased. As a result of SVE, only small amounts of residual petroleum hydrocarbons remain in soil beneath the Site. The residual petroleum hydrocarbons do not that pose a threat to groundwater resources, human health, or the environment. The contaminants of concern (TPHg and benzene) that remain above laboratory detection limits in the onsite monitoring wells were on a downward trend before SVE commenced and dropped rapidly during SVE. Water quality objectives are likely to be achieved through natural attenuation before shallow water resources will be utilized. In addition, residual soil contamination is not located beneath Site buildings and hydrocarbon vapors are unlikely to accumulate in the structures.

Closure

Will corrective action performed ensure the protection of human health, safety and the environment? Yes.

Is corrective action and UST case closure consistent with State Water Board Resolution 92-49? Yes.

Is achieving background water quality feasible? No.

To remove all traces of residual petroleum constituents at the Site would require significant effort and cost. Removal of all traces of residual petroleum hydrocarbon constituents that contribute to detectable concentrations in shallow groundwater can be accomplished, but would require excavation of additional soil as well as additional remediation of shallow groundwater. The soil excavation could also entail relocation of existing utilities, demolition of existing buildings, temporary closure of existing businesses and road closures. If complete removal of detectable traces of petroleum constituents becomes the standard for UST corrective actions, the statewide technical and economic implications will be enormous. Because of the high costs involved and minimal benefit of attaining further reductions in concentrations of TPHg and benzene at this Site, and the fact that beneficial uses are not threatened, attaining background water quality at this Site is not feasible.

If achieving background water quality is not feasible:

Is the alternative cleanup level consistent with the maximum benefit to the people of the State? Yes.

It is impossible to determine the precise level of water quality that will be attained given the limited residual petroleum hydrocarbons that remain at the Site. In light of all the factors discussed above, and the fact that the residual petroleum constituents will not unreasonably affect present and anticipated beneficial uses of groundwater, a level of water quality will be attained that is consistent with the maximum benefit to the people of the state.

Will the alternative cleanup level unreasonably affect present and anticipated beneficial uses of water? No.

Impacted groundwater is not used as a source of drinking water or for any other current beneficial use. It is highly unlikely that the impacted groundwater will be used as a source of drinking water or any other beneficial use in the foreseeable future.

Will the alternative level of water quality exceed water quality prescribed in applicable Basin Plan? No.

The final step in determining whether cleanup to a level of water quality less stringent than background is appropriate for this Site requires a determination that the alternative level of water quality will not result in water quality less than that prescribed in the relevant basin plan. Pursuant to State Water Board Resolution 92-49, the alternate level of water quality for this Site will not exceed basin plan requirements.

Have factors contained in Title 23 of the California Code of Regulations, Section 2550.4 been considered? Yes.

In approving an alternative level of water quality less stringent than background, the State Water Board has considered the factors contained in California Code of Regulations, title 23, section 2550.4, subdivision (d). As discussed earlier, the adverse effect on shallow groundwater will be minimal and localized, and there will be no adverse effect on the groundwater contained in deeper aquifers, given the physical and chemical characteristics of petroleum constituents, the hydrogeological characteristics of the Site and surrounding land, and the quantity of the groundwater and direction of the groundwater flow. In addition, the potential for adverse effects on beneficial uses of groundwater is low, in light of the proximity of the groundwater supply wells, the current and potential future uses of groundwater in the area, the existing quality of groundwater, the potential for health risks caused by human exposure, the potential damage to wildlife, crops, vegetation, and physical structures, and the persistence and permanence of potential effects.

Finally, a level of water quality less stringent than background is unlikely to have any impact on surface water quality, in light of the volume and physical and chemical characteristics of petroleum constituents; the hydrogeological characteristics of the Site and surrounding land; the quantity and quality of groundwater and direction of groundwater flow, the patterns of precipitation in the region, and the proximity of residual petroleum to surface waters.

Has the requisite level of water quality been met? No.

Though the requisite water quality objectives have not yet been met, the approximate time period in which the requisite level of water quality will be met is 5 to 10 years. This is a reasonable period in which to meet the requisite level of water quality because the impacted groundwater is not currently being used as a source of drinking water and it is highly unlikely that impacted groundwater will be used as a source of drinking water during the period of impairment. Residential and commercial water users are currently connected to the municipal drinking water supply. Other designated beneficial uses of the impacted groundwater are not threatened and it is unlikely they will be. Considering these factors in the context of the Site setting and the concentrations of the residual petroleum constituents at the Site, Site conditions do not represent a threat to human health and safety and the environment and case closure is appropriate.

Objections to Closure and Response

The SCEMD objects to UST case closure because water quality objectives have not yet been achieved and it contends that there is not a declining trend for benzene and TPHg.

The Fund Manager disagrees that additional work is necessary at this Site. As a result of four years of SVE, there are minimal residual petroleum hydrocarbons in Site soils. Any residual petroleum hydrocarbons present in the groundwater will continue to attenuate. In addition, there are no domestic or public water supply wells within 1,000 feet of the Site and water in the area is provided to water users by the City of Sacramento, Department of Utilities.

The Fund is conducting public notification and the SCEMD has the regulatory responsibility to supervise the abandonment of monitoring wells.

Summary and Conclusion

In December 1998, petroleum hydrocarbons were detected in soil and groundwater during removal of two USTs. Several investigations have been conducted since 2000, resulting in the installation of 15 monitoring wells and the subsequent abandonment of two wells. In addition, a sensitive receptor survey was conducted in 2001 and soil vapor extraction from March 2004 through November 2008 has removed 7,255 pounds of TPHg. To date, the Fund has reimbursed \$505,842 in corrective action costs.

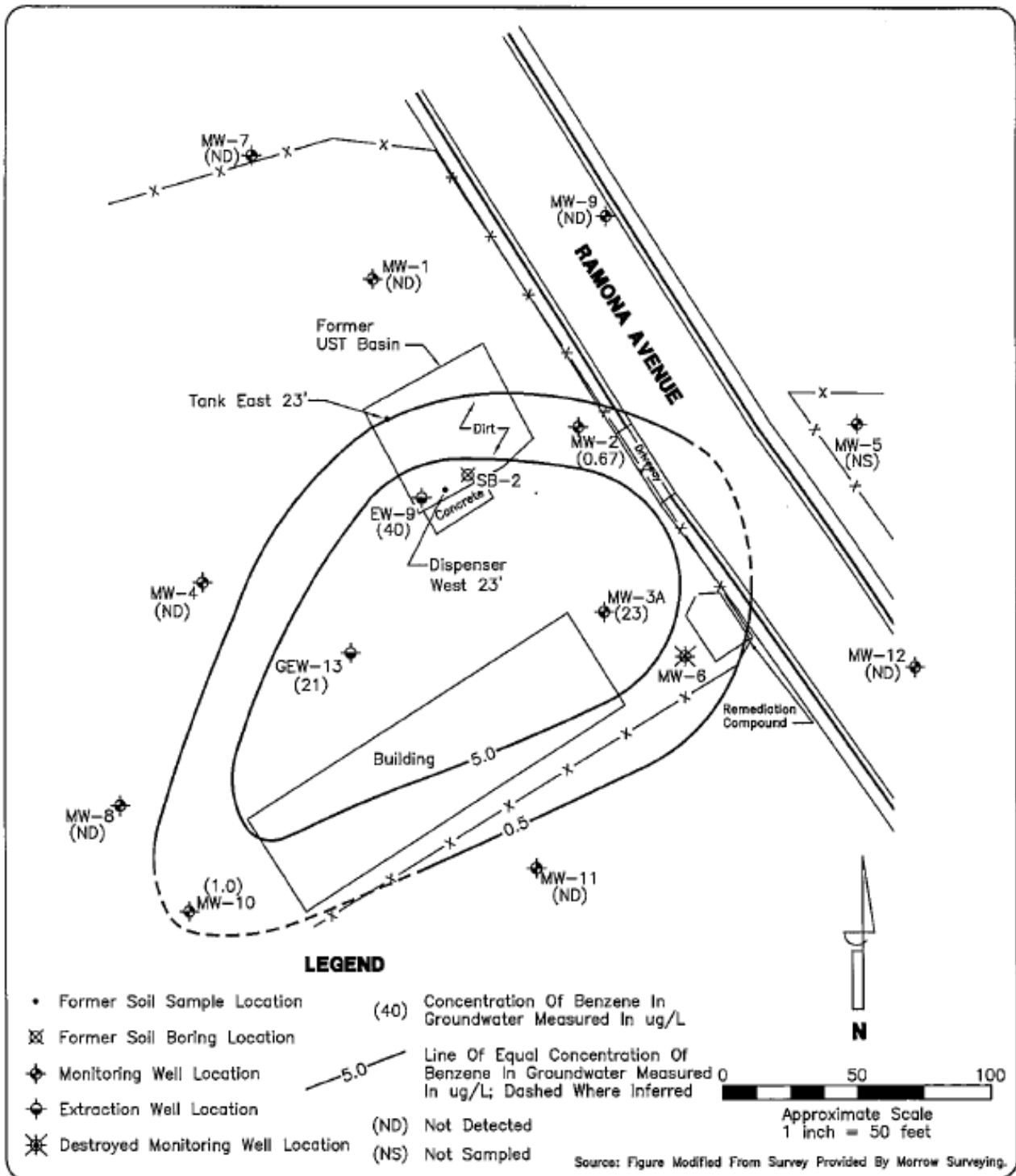
The Water Quality Objectives for the residual petroleum constituents will likely be achieved in 5 to 10 years and before shallow water resources will be utilized. The nearest sensitive receptors are more than 1,000 feet from the Site. The impacted groundwater is not currently being used as a source of drinking water or other beneficial uses, and water in the area is provided to users by the Sacramento County Water District. It is highly unlikely that the impacted groundwater will be used as a source of drinking water or other beneficial use in the foreseeable future. Based on available information, the residual petroleum hydrocarbons at the Site do not pose significant risks to human health, safety, and the environment, and the Fund Manager recommends that the case be closed.

John Russell

John Russell PG No. 8396

August 2, 2010

Date



	DRAWN BY: N. Rouillard DATE: 12/9/09	BENZENE IN GROUNDWATER ISOCONCENTRATION MAP, OCTOBER 14, 2009	FIGURE 5
	REVISIONS		
	PROJECT NUMBER: GER02.002		