

THRIFTY OIL CO.

September 13, 2010

O.106209

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Alameda County
Environmental Health

Mr. Paresh Khatri
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Local #RO0000005
RWQCB #01-1479

RE: **Former Thrifty Oil Co. Station #063**
ARCO Products Company Station #9542
6125 Telegraph Avenue
Oakland, CA
Addendum to the Additional Site Assessment Workplan

Dear Mr. Khatri:

Presented herein is the *Addendum to the Additional Site Assessment Workplan* (Workplan Addendum) prepared for former Thrifty Oil Co. (Thrifty) Station #063 located at 6125 Telegraph Avenue, Oakland, California (**Figure 1**). Thrifty has prepared this Workplan Addendum in response to the Alameda County Health Care Services (ACHCS) letter dated August 26, 2010 (Letter) and the September 1, 2010, telephone conversation between Thrifty and the ACHCS. Based upon the August 26, 2010 Letter and the September 1, 2010 telephone conversation, Thrifty sent the ACHCS an email on September 1, 2010, summarizing Thrifty's understanding of the scope of work required by the agency for the additional offsite assessment. Thrifty intends to complete the scope of work proposed in the *Additional Site Assessment Workplan* (ASAW) dated February 18, 2009, and to also install two off-site soil vapor sample locations west of the site, in neighboring properties (**Figure 2**) as discussed during September 1, 2010 telephone conversation. As agreed, Thrifty will not install off-site groundwater monitoring wells in the adjacent neighboring properties. Details of this scope of work are included below.

SCOPE OF WORK OUTLINED IN THE ADDITIONAL SITE ASSESSMENT WORKPLAN

As mentioned above, Thrifty intends to complete the scope of work outlined in the February 18, 2009 Workplan which was submitted in response to the ACEHD letter dated December 29, 2008. The Workplan proposed collecting four soil vapor samples (SV-1 through SV4) at approximately 3-feet below ground surface (bgs), advancing four soil borings (SB-1 through SB-4) to approximately 30-feet bgs, and installing one offsite groundwater monitoring well (MW-9) to approximately 30-feet bgs (**Figures 3 and 4**).

ADDENDUM TO THE WORKPLAN TO CONDUCT ADDITIONAL SITE ASSESSMENT ACTIVITIES

In addition to the scope of work proposed in the above-mentioned additional site assessment workplan, Thrifty proposes installing two off-site soil vapor sample points (SV-5 and SV-6) in neighboring properties (**Figure 2**). Thrifty will need to acquire access agreements before proceeding with this scope of work. Data collected from the soil vapor sample points will be used to evaluate human health risk and aid in delineating the hydrocarbon plume immediately downgradient of the source area. The soil vapor



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samples will be installed using a direct push drill rig (DPR), procedures associated with the proposed assessment activities are discussed below.

Pre-field Activities

Prior to conducting the work, a site specific Health and Safety Plan (HSP) will be submitted to the ACHCS for approval at least 1 week prior to conducting any field work. The field activities will conform to the approved HSP. The HSP will be onsite during any field work.

An investigation of all underground utilities onsite and offsite near the plume will be conducted to identify any potential hazards and preferential pathways. A map of the utilities with their depth will be included in the report.

Prior to drilling, all necessary boring and well permits will be obtained. The boring locations will be properly marked and Underground Service Alert and the ACHCS will be notified of the scheduled field activities. A geophysical survey will be conducted to clear each borehole in order to protect underground utilities.

SOIL VAPOR SAMPLING

Soil Vapor Sample Collection

Soil vapor samples will be collected at approximately 3-foot bgs in both soil vapor sample locations SV-5 and SV-6. The DPR metal rods will be used to drive the vapor samplers into the ground to a depth of 3-foot bgs in each of the sample locations. Upon reaching the desired depth, new 0.125 -inch Teflon™ tubing will be inserted into the center of the metal rod(s) and capped at the surface with a rubber plug. A new syringe will be attached to the Teflon™ tubing to extract the vapor sample from the probe location. The syringe will then be purged to remove the dead air from the soil vapor probe. Following purging, a soil vapor sample will be obtained in the syringe from each sampling location. The samples will be delivered to an onsite mobile laboratory for analysis. After sampling the Teflon™ tubing will be removed from the ground, and the hole will be backfilled to the surface with granular bentonite and capped with asphalt or concrete to match existing surface conditions. Sampling equipment will be cleaned with a solution of Alconox and water, and then rinsed twice with deionized water. New Teflon™ tubing and metal tips will be inserted into the hollow metal rod at each probe location.

Soil vapor samples will be analyzed onsite using a state certified mobile laboratory. The soil vapor samples will be analyzed for TPHg using a mass spectrometer; for BTEX, MTBE and other oxygenated compounds (DIPE, ETBE, TAME and TBA) using EPA Method 8260B.

Following drilling and sampling activities, the borings will be backfilled from terminal depth to near surface with hydrated bentonite chips and completed to ground surface to match existing surface conditions.

Equipment Decontamination and Boring Abandonment

Prior to soil vapor sample collection, equipment will be thoroughly rinsed with clean water after washing with a solution of Alconox. Sampling rods will be thoroughly cleaned prior to soil probe boring

advancement. All rinseate generated during sampling activities will be containerized in properly labeled DOT-approved 55-gallon drums, and stored on-site in an area lacking public access.

Report Preparation

The work proposed in this Workplan Addendum will be completed in conjunction with the work proposed in the February 18, 2009 ASAW, and therefore, Thrifty will prepare a single Additional Site Assessment Report (ASAR) summarizing the scope of work completed during this single field event. The ASAR will provide recommendations for further corrective action or site closure, whichever is appropriate.

Proposed schedule

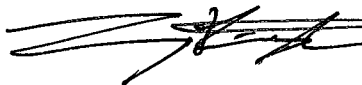
Following your approval, Thrifty will select a consultant to supervise the scope of work proposed in this Workplan Addendum and the ASAW. Thrifty estimates that the site assessment field activities will be completed within 60-days of your approval (if offsite access is granted in a timely fashion), with the final report being submitted 45-days following the receipt of laboratory analytical results.

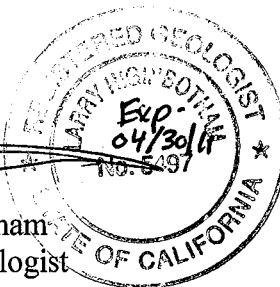
Should you have any questions regarding this report, please contact Simon Tregurtha at 562 921-3581 Ext. 260, or Chris Panaitescu at Ext. 390.

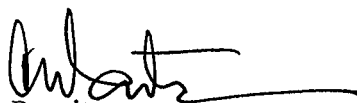
I declare, under penalty of perjury, that the information and/or recommendations contained in this document are true and correct to the best of my knowledge.

Respectfully submitted,


Simon Tregurtha
Project Manager

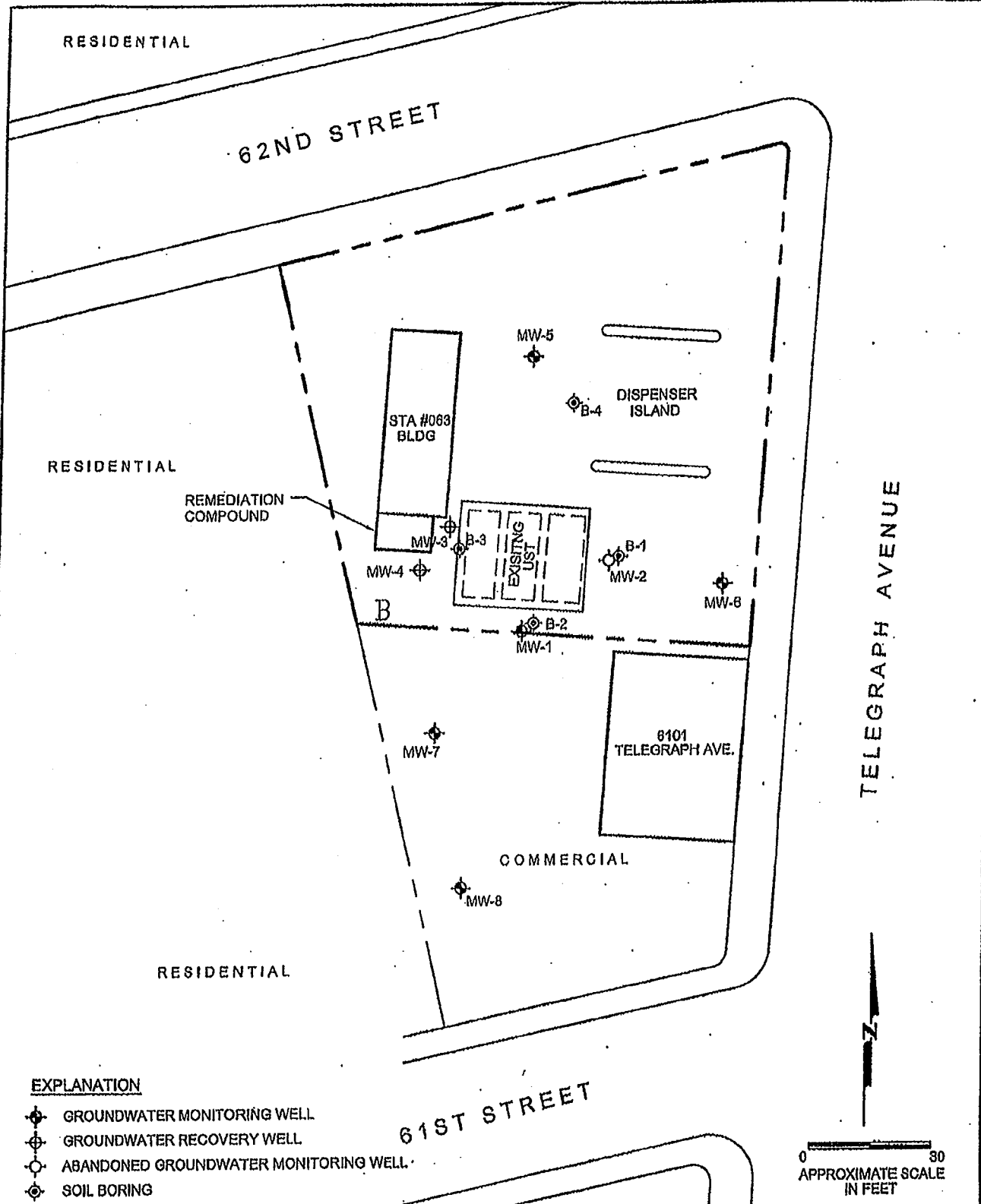

Larry Higinbotham
Registered Geologist




Chris Panaitescu
General Manager
Environmental Affairs

cc: BP West Coast Products LLC, Mr. John Skance
File

FIGURES



EXPLANATION

- ⊕ GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER RECOVERY WELL
- ⊕ ABANDONED GROUNDWATER MONITORING WELL
- ⊕ SOIL BORING

0 30
APPROXIMATE SCALE
IN FEET



PROJECT NO.	SITE PLAN	FIGURE: 1
	Thrifty Station No. 063	SHEET: of
	6126 Telegraph Avenue	REVISIONS: 0
	Oakland, California	DATE: 03/07



SV-5



SV-6



FIGURE 2

Thrifty Station No. 63
6125 Telegraph Avenue
Oakland, CA



Proposed Soil Vapor Locations

113 ft

Imagery Date: Oct. 2, 2009

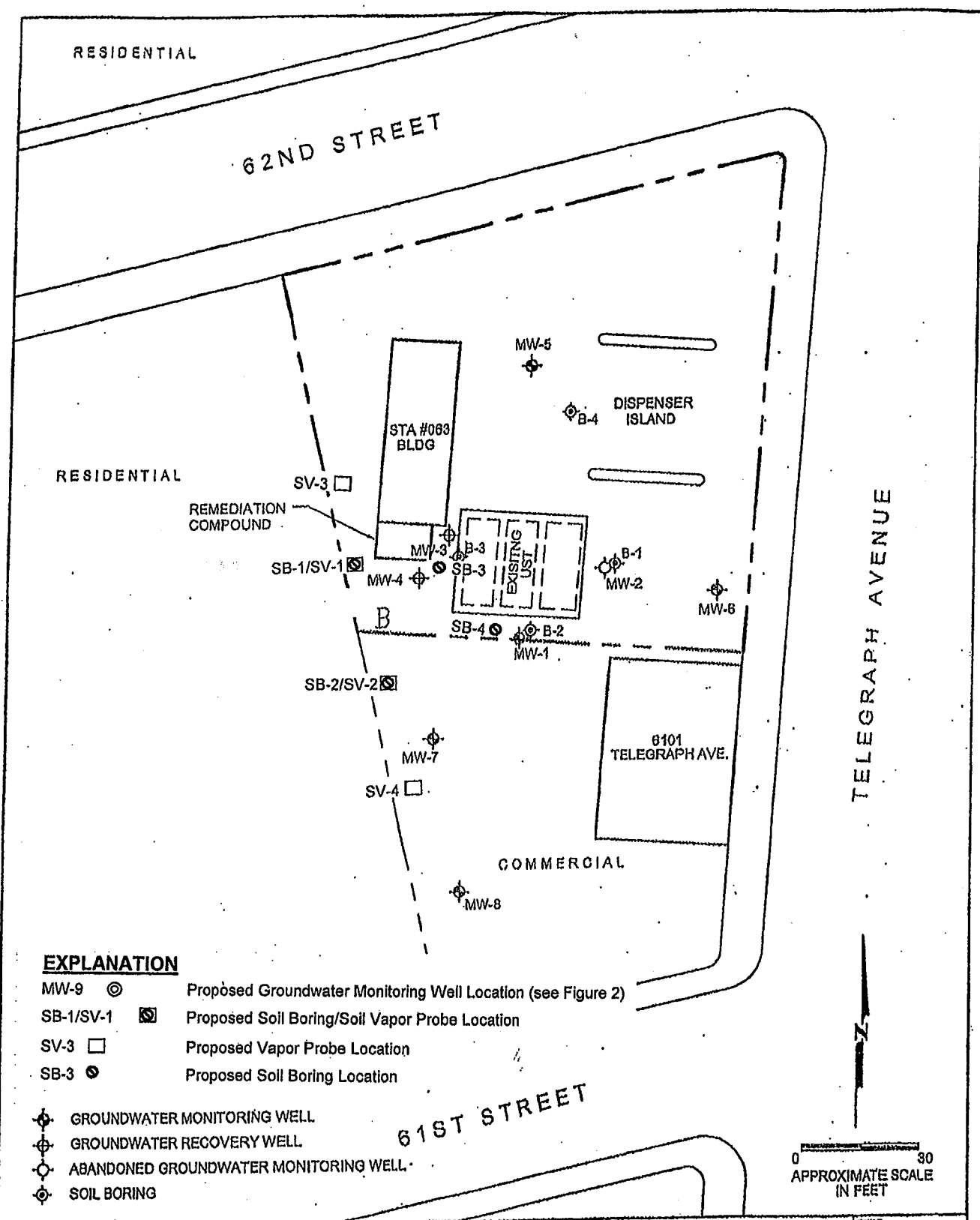
61st St

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37°50'51.22" N 122°15'41.53" W elev

62nd St



EXPLANATION

- MW-9 Proposed Groundwater Monitoring Well Location (see Figure 2)
- SB-1/SV-1 Proposed Soil Boring/Soil Vapor Probe Location
- SV-3 Proposed Vapor Probe Location
- SB-3 Proposed Soil Boring Location
- GROUNDWATER MONITORING WELL
- GROUNDWATER RECOVERY WELL
- ABANDONED GROUNDWATER MONITORING WELL
- SOIL BORING

0 30
APPROXIMATE SCALE
IN FEET

Site Plan with Proposed Soil Boring and Soil Vapor Probe Locations

SITE PLAN
Thrifty Station No. 063
6126 Telegraph Avenue
Oakland, California

FIGURE	3
SHEET	of
REVISIONS	0
DATE	03/07

PROJECT NO.

