

# THRIFTY OIL CO.

November 18, 2010

O.108084

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

RECEIVED

10:43 am, Nov 23, 2010

Alameda County  
Environmental Health

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

Dear Mr. Khatri:

Presented herein is the *Revised Addendum to the Additional Site Assessment Workplan* (Revised Workplan Addendum) prepared for former Thrifty Oil Co. (Thrifty) Station #063 located at 6125 Telegraph Avenue, Oakland, California (**Figure 1**). Thrifty has prepared this Revised Workplan Addendum in response to a telephone conversation between Mr. Paresh Khatri of the Alameda County Health Care Services (ACHCS) and Simon Tregurtha of Thrifty on November 9, 2010. During the November 9, 2010 telephone conversation, Mr. Khatri indicated that he had reviewed Thrifty's November 2, 2010 *High Vacuum Dual-Phase Extraction Report and Request for Low Risk Closure* and was in agreement with Thrifty's request to consider the site for low risk closure. Mr. Khatri stated that the site assessment proposed in the *Additional Site Assessment Workplan* (ASAW) dated February 18, 2009, and *Addendum to the Additional Site Assessment Workplan* (Workplan Addendum) dated September 13, 2010, was still needed, but the scope of work should be modified to include two soil boring/groundwater grab sample locations to replace the proposed offsite groundwater monitoring well MW-9, which is was no longer needed.

## SCOPE OF WORK PREVIOUSLY PROPOSED

The ASAW 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 2 and 3**). The Workplan Addendum proposed installing two off-site soil vapor sample points (SV-5 and SV-6) in neighboring properties (**Figure 4**).

## REVISED ADDENDUM TO THE WORKPLAN TO CONDUCT ADDITIONAL SITE ASSESSMENT ACTIVITIES

Thrifty intends to complete the scope of work proposed in the ASAW dated February 18, 2009, and the Workplan Addendum dated September 13, 2010 with one proposed modification. Thrifty proposes installing two offsite soil borings (SB-5 and SB-6) and collecting soil samples and a groundwater grab sample from each of these locations, instead of installing the previously proposed offsite groundwater monitoring well (MW-9) proposed in Racine Street (**Figure 2**) and west of the site.



Soil borings SB-5 and SB-6 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 BORING SAMPLING**

#### **Proposed Offsite Verification Soil/Groundwater Sample Location**

Two soil/groundwater sample locations (SB-5 and SB-6) will be installed on Racine Street, one just north of 61st Street and the other just south of 62<sup>nd</sup> Street (**Figure 2**). SB-5 and SB-6 will be advanced to a maximum depth of 20 feet bgs, with soil samples collected at 5-foot intervals and a non-purge groundwater sample collected at first encountered groundwater using a direct-push rig (DPR). The purpose of the offsite soil/groundwater sample borings are to characterize the current downgradient sub-surface soil conditions and to define the downgradient limit of the dissolved-phase contamination plume.

#### **Boring Installations**

A C-57 licensed drilling contractor will install the 2 proposed soil borings (SB-5 and SB-6) to approximately 20-feet bgs using a DPR equipped with 1-1/2 inch steel push rods. The initial 5 feet of each boring will be advanced with a hand auger and/or post hole digger to reduce the possibility of damaging underground utilities. Upon completion, the soil boring locations will be backfilled with bentonite chips and sealed to match existing surface conditions.

#### **Soil Sample Collection and Analysis**

Soil samples will be collected for laboratory analysis at 5-foot intervals with additional samples collected based upon PID readings and the presence or hydrocarbon staining or odor. The ends of the least disturbed intact tube from each sample interval will be lined with Teflon<sup>TM</sup> sheets, capped, and sealed. Each sample will then be labeled, placed in a resealable plastic bag, and stored in an ice-chilled cooler. The samples will remain chilled until relinquished to a state-certified analytical laboratory. Strict chain-of-custody procedures will be followed from the time the samples are collected until the time the samples are signed over to the laboratory. Soil contained in the remainder of the acetate liners will be screened for volatile organic compounds using a hand held photo-ionization detector (PID) and recorded on the boring log. Soil types, PID readings, and other pertinent geologic data will be recorded on the boring log. The samples will be analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes (BTEX), and selected oxygenated compounds (including methyl tert butyl ether [MTBE] and tert-butyl alcohol [TBA]) by EPA Methods 8015M and 8260B.

### Groundwater Sample Collection and Analysis

A non-purge groundwater sample will be collected from borings SB-5 and SB-6 at first encountered groundwater. All equipment used during sampling will be washed with non-phosphate base detergent then rinsed with clean potable water followed by deionized water. New and dedicated disposable bailers will be utilized to collect groundwater samples. Strict chain-of-custody protocols will be followed during sampling according to state and local regulatory requirements. The groundwater sample will be delivered in a chilled state following strict Chain-of-Custody procedures to a state certified laboratory. The sample will be analyzed for TPHg, BTEX, and selected oxygenated compounds (including MTBE and TBA) by EPA Methods 8015M and 8260B.

### Equipment Decontamination and Boring Abandonment

Prior to soil 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 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 Revised Workplan Addendum will be completed in conjunction with the work proposed in the February 18, 2009 ASAW and Workplan Addendum dated September 13, 2010, 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

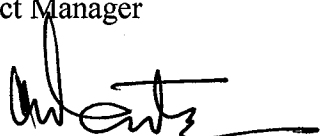
Following your approval, Thrifty will select a consultant to supervise the scope of work proposed in this Workplan Addendum and the ASAW. Thrifty estimates that the site assessment field activities will be completed within 60-days of your approval (if offsite access is granted in a timely fashion), with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

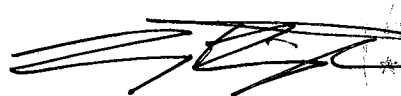
Should you have any questions regarding this report, please contact Simon Tregurtha at 562 921-3581 Ext. 260, or Chris Panaitescu at Ext. 390.

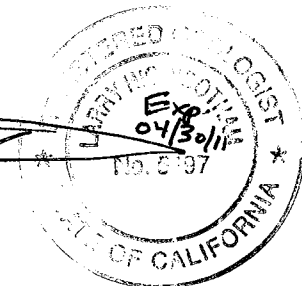
I declare, under penalty of perjury, that the information and/or recommendations contained in this document are true and correct to the best of my knowledge.

Respectfully submitted,

  
Simon Tregurtha  
Project Manager

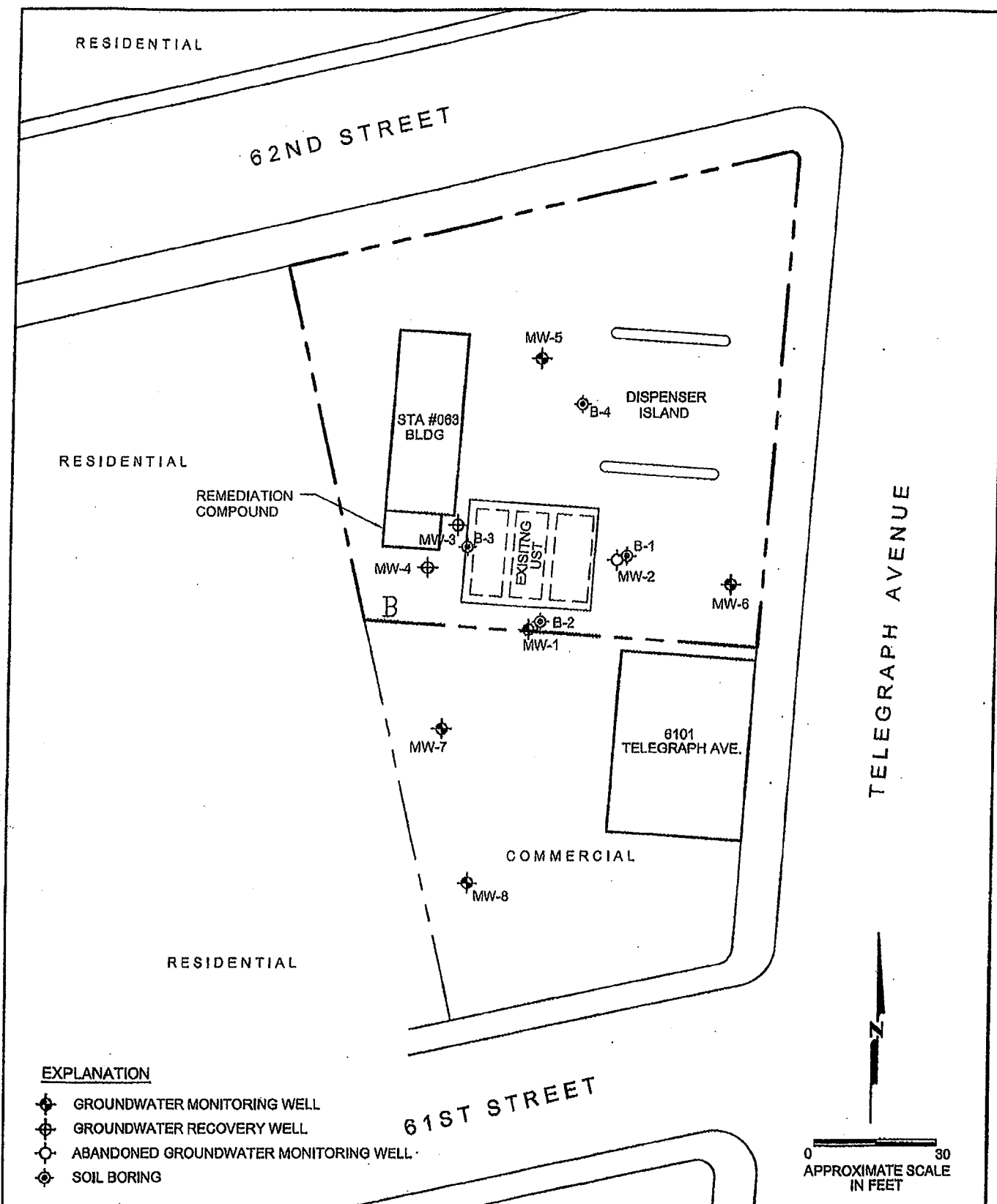
  
Chris Panaitescu  
General Manager  
Environmental Affairs

  
Larry Higinbotham  
Registered Geologist



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

# ***FIGURES***



**EXPLANATION**

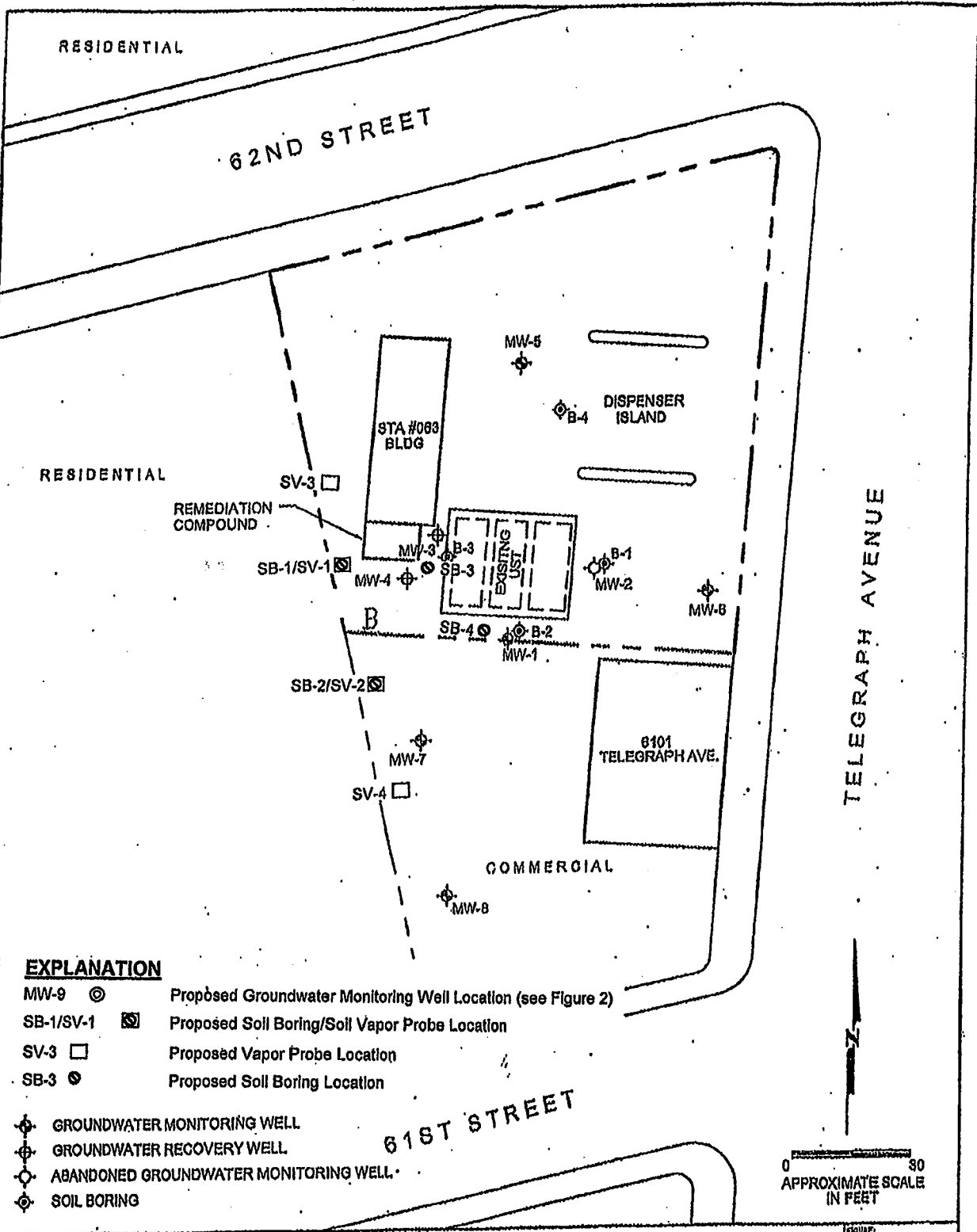
- ◆ GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER RECOVERY WELL
- ⊙ ABANDONED GROUNDWATER MONITORING WELL
- ⊙ SOIL BORING

0 30  
APPROXIMATE SCALE  
IN FEET



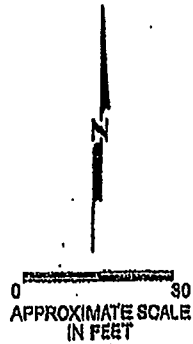
PROJECT NO.	<p align="center"><b>SITE PLAN</b></p> <p align="center">Thrifty Station No. 063 6125 Telegraph Avenue Oakland, California</p>	FIGURE: <b>1</b>
		SHEET: of
		REVISION NO: 0
		DATE: 03/07





**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



PROJECT NO. _____ Site Plan with Proposed Soil Boring and Soil Vapor Probe Locations	<b>SITE PLAN</b> Thrifty Station No. 063 6126 Telegraph Avenue Oakland, California	SHEET <b>3</b>
		of 0
DATE 03/07		REMOVED 0



**FIGURE 4**  
Residential Property  
adjacent to Thrifty Oil Co.  
Station No. 63  
517 62nd Street  
Oakland, CA 94609-1209  
Soil Boring Locations

