



OLD BUSINESS



## STAFF UPDATE

---

To: SBWMA Board Members  
From: Hilary Gans, Facility Operations Contracts Manager  
Date: February 23, 2012 Board of Director's Meeting  
Subject: Update on Shoreway Remediation Activities

---

### Recommendation

This is an informational report and no action is necessary. The purpose of this report is to summarize the current status of the contaminated soils remediation efforts at Shoreway and describe the process for attaining case "closure" from County Environmental Health.

### Analysis

The SBWMA's oversight in the Shoreway remediation activities has been ongoing since the Settlement and Release Agreement was reached with Republic Services on March 2, 2010. In addition to ongoing monitoring, several contaminated locations at the site have been closed or are in the process of being closed with the County Department of Health. Below is a list of activities that were performed in 2011 and proposed activities for 2012.

### Work completed in 2011:

Semi-Annual Groundwater Monitoring: There are several locations at Shoreway that require ongoing sampling and groundwater monitoring from established well points under the oversight of San Mateo County Environmental Health.

Plans Requested by the County: The SBWMA, through its consultant Iris Environmental, has responded to requests from the San Mateo County Environmental Health Department (SMCEHD), relating to remediation of preexisting ground water contamination at the Shoreway Environmental Center transfer station located at 225 Shoreway Road. In a letter dated June 22, 2011, the SMCEHD requested that SBWMA submit the following items.

- a closure report for the Truck Maintenance Building, Wash Rack, and 66-inch Reinforced Concrete Pipe (RCP) Storm Drain;
- a proposal for site-specific cleanup goals;
- a report of the bench-scale pilot test conducted for the Waste Transfer Station source area;
- a work plan for characterization of indoor air at the Administration Building;
- a work plan for additional soil characterization, with respect to vertical delineation of impacts, at the Waste Transfer Station; and
- a calculation of the time to reach groundwater cleanup goals through natural attenuation.

Plans Submitted to the County: Iris has prepared and submitted to the County a closure summary report for the Truck Maintenance Building, Wash Rack, and 66-inch RCP Storm Drain areas of the site. These areas of the SEC have been remediated and the SBWMA is requesting final closure approval from the County on these locations. Specifically the closure report includes:

- a summary of previous site characterization and remedial activities;
- an evaluation of the extent (lateral and vertical) and stability of the contamination;

- an assessment of the effectiveness of remedial actions in reaching cleanup goals; and
- an assessment of the potential impact of residual contamination on human health and the environment.

The cost of these reports from Iris Environmental was approximately \$20,000 and with the submission of these reports the SBWMA intends to obtain closure on projects that have been in remediation for several years.

#### **Planned Remediation Activities 2012:**

The remaining locations at the site that are still in active remediation include: 1) the sub-slab remediation of the historic underground storage tank (UST) at the northwest corner of the transfer station; and 2) potential remediation for the area between the UST and the Administration Building. The degree of contamination and the best remediation approach for this area is still under consideration by the County. There have been several attempts to pump and to treat the subsurface contamination at the transfer station, however, the fact that this contamination lies under the facility slab, that there is highly impermeable soils in the area, and high ground water levels have made the remediation of this area nettlesome. The SBWMA has hired Iris Environmental to respond to the County's request for additional sampling in the transfer station area to clearly delineate the spread and concentration of hydrocarbon contamination and prepare a remediation plan based on the finding from these tests. Specifically the scope of work for Iris includes the following:

Additional Soil and Vapor Characterization: This work comprises a limited site investigation effort to further characterize the vertical extent of soil impacts at the former underground storage tank (UST) source area near the Waste Transfer Station. The components of this work include:

- preparation of a work plan for submittal to SMCDEH;
- preparation and mobilization for fieldwork, including coordination with drilling company, analytical laboratory, and utility surveyor;
- conduct sub-slab soil gas investigation in neighboring buildings;
- installation of one soil boring and collection of soil samples;
- laboratory analysis of soil samples; and
- data evaluation and preparation of a report for submittal to SMCDEH.

Pilot Test Report: This task comprises the submittal to SMCEHD of a report documenting the results of the bench scale pilot test conducted for the Waste Transfer Station source area. The report in question is the Shaw memorandum of March 30, 2010, titled *Persulfate In Situ Chemical Oxidation (ISCO) Treatability Study Results for Allied Waste Transfer Station, 225 Shoreway Road, San Carlos, California*. Iris Environmental has a copy of this memorandum and can submit it to SMCEHD on behalf of SBWMA. The cost to perform this task is trivial.

The cost of the above work items being completed by Iris Environmental is \$22,000.

#### **Future Plans and Actions towards Closure**

After the ground water sampling, air monitoring and pilot test report work listed above is collected and submitted to the SMCEHD, the SBWMA will propose a remediation and closure plan for the Shoreway site in its entirety. Based on the results of the testing being conducted now, it is Staff's expectation that the least expensive closure option for northwest corner of the transfer station will be natural attenuation.

Natural attenuation method of closure will comprise an evaluation of all groundwater data collected at the site, to identify trends over time and to project when contaminant concentrations in groundwater will decrease to below groundwater quality objectives. If this closure option appears viable, Iris will propose to a Natural Attenuation Closure Plan within the next regular semiannual groundwater monitoring report. Along with the report will be a request to SMCDEH to gain their concurrence with the proposed Natural Attenuation methodology for remediation.

SBWMA, SBWMA counsel, and Iris Environmental are in consultation regarding the overall site closure strategy, acceptance of deed restriction/land use covenants, and the development of site-specific numerical cleanup goals for soil and groundwater. Assuming this approach is acceptable to SBWMA Board and SMCDEH, Iris will be authorized additional budget dollars in late 2012 to conduct the natural attenuation work which is anticipated cost to \$42,000.

**Background**

Republic and the SBWMA have entered into a Settlement and Release Agreement that addresses the responsibility for the remediation of contaminated soils at Shoreway. In March of 2010 the SBWMA received a lump sum payment of \$1,500,000 from Republic. This money was deposited into a SBWMA account dedicated to pay for the ongoing cleanup efforts at Shoreway. Since the Settlement, SBWMA Staff has retained Iris Environmental to guide the remediation process and to petition the County and the State Water Quality Control Board make a determination that the contamination has been remediated and that the site can be "closed." SBWMA has met with the County Environmental Health Department and is working on remediation for cleanup and closure of each of the identified contaminated areas at the site. The Shoreway remediation is being conducted by Iris Environmental under the SBWMA's supervision.

**Fiscal Impact**

Funds for the Shoreway groundwater remediation activities have been paid to Iris Environmental and to Barg, Coffin, Lewis, & Trapp, LLP legal counsel. To date \$85,804 has been spent on remediation activities out of the Settlement funds (see Table 1.) and \$1,414,000 of the original balance remains. The activities currently under way and planned for 2012 have not been paid and represent an additional expenditure of approximately \$84,000.

| <b>Table 1. Summary of Shoreway Remediation Expenditures by Year</b> |    |                    |
|--|----|--------------------|
| <u>Year</u>  |    | <u>Expenditure</u> |
| 2010   | \$ | 16,137             |
| 2011   | \$ | 56,949             |
| 2012   | \$ | <u>12,712</u>      |
| Total  | \$ | 85,798             |
| Settlement   | \$ | 1,500,000          |
| Remaining  | \$ | 1,414,202          |



**TO BE PRESENTED AT THE FEBRUARY 2012  
BOARD OF DIRECTOR'S MEETING**

**5B. RSMC FRANCHISE AGREEMENT OPERATIONAL AND CONTRACT  
ADMINISTRATION UPDATE**

**5C. SBR SHOREWAY OPERATIONAL AND CONTRACT  
ADMINISTRATION UPDATE**