



**WORK NOTICE & UPDATE**

**Supplemental Injections in Shallow  
 Groundwater  
 for the South Bayfront Site B Project Area  
 Emeryville, California**

August 2016

**INTRODUCTION**

The City of Emeryville, as the Successor Agency to the Emeryville Redevelopment Agency (Successor Agency), in conjunction with the California Environmental Protection Agency’s Department of Toxic Substances Control (DTSC), has prepared this notice to inform the community about work taking place at the South Bayfront Site B Project Area (Site B) in Emeryville, California. This notice also provides an update to the 2013 fact sheet and summarizes information contained in project documents to facilitate community awareness.

**LOCATION**

Site B is approximately three acres and consists of five parcels located at the northeast corner of the intersection of Shellmound Street and Christie Avenue in Emeryville. The five parcels are: 1535 Powell Street, 1525 Powell Street, 5770 Shellmound Street, 5760 Shellmound Street, and a Rail Spur Property along the north side of the 5760 Shellmound parcel.



**BACKGROUND** *Environmental Health*

Site B has a long history of industrial uses. Industrial operations at Site B and at nearby properties used a variety of materials such as petroleum products, solvents and metals. These materials were found in the soil and groundwater at Site B at concentrations that required cleanup before the site can be redeveloped

Cleanup of soil was completed in 2009 in accordance with the approved remedy for Site B in the *Final Feasibility Study and Remedial Action Plan (FS/RAP)*. The results are presented in the *Soil Remediation Completion Report* dated April 2010 (see information below for document availability). Cleanup of soil also improved groundwater quality such that subsequent groundwater data indicated that the primary chemicals of concern remaining in groundwater at Site B were chlorinated volatile organic compounds (CVOCs). The CVOCs in groundwater at Site B include tetrachlorethene (PCE), trichloroethene (TCE) and associated breakdown products such as cis-1,2 dichloroethene (cDCE) and vinyl chloride (VC). In addition to known shallow groundwater contamination, the presence of CVOCs in deeper groundwater on the southeastern portion of Site B was revealed after implementation of soil remediation activities.

Shallow groundwater remediation using enhanced reductive dechlorination (“ERD”) injection was completed in 2013 in accordance with the *Remedial Action Plan Amendment and Remedial Design and Implementation Plan for Shallow Groundwater* (Shallow Groundwater RAP Amendment and RDIP) dated June 2013. The results are presented in the *Final Shallow Groundwater Remediation Completion Report* dated November 2014.

**SUPPLEMENTAL INJECTION IN SHALLOW GROUNDWATER**

ERD injection activities were very successful in removing CVOCs in shallow groundwater. However, recent groundwater monitoring data indicate that shallow groundwater conditions were becoming less favorable for complete reductive dechlorination. Supplemental ERD injections in shallow groundwater along the eastern and southern

property boundaries will be conducted to maintain favorable groundwater conditions for complete reductive dechlorination, as recommended in the *Final Additional Groundwater Investigation and Groundwater Monitoring Report* (Additional Investigation and GWM Report) dated June 2016. Procedures for conducting supplemental injections are described in the RAP Amendment and RDIP for Shallow Groundwater.

### **REMEDIAL DESIGN AND IMPLEMENTATION PLAN (RDIP) FOR DEEPER GROUNDWATER**

As recommended in the Additional Investigation and GWM Report, DTSC approved the addition of ERD injections in deeper groundwater, as a minor modification to the Shallow Groundwater RAP Amendment and RDIP. The Final Remedial Design and Implementation Plan for Deeper Groundwater (Deeper Groundwater RDIP) evaluates and adds remediation of deeper groundwater using ERD to the remedy and provides procedures for implementation. Implementation of the on-site deeper groundwater remedy would include installation and sampling of groundwater monitoring wells and injection of an emulsified vegetable oil (EVO) and appropriate microbes, similar to shallow groundwater remediation activities.

### **SUMMARY OF UPCOMING ACTIVITIES**

The work will be conducted in multiple phases with injection activities being conducted between August 2016 and October 2016 between **7:00 A.M. and 6:00 P.M.** followed by routine groundwater monitoring. The work schedule is subject to change based on field conditions. Work activities will include the following:

- Utility surveying equipment;
- Drilling equipment;
- Injection equipment; and,
- Groundwater sampling equipment such as a portable pump.

### **FOR MORE INFORMATION**

The Successor Agency's representatives are available to answer questions. Please contact:

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### **SITE B DOCUMENTS**

The FS/RAP, the Soil Remediation Completion Report, the RAP Amendment and RDIP for Shallow Groundwater, the Additional Investigation and GWM Report, and the RDIP for Deeper Groundwater are available for review at:

City Clerk  
City of Emeryville  
1333 Park Avenue  
Emeryville, CA 94608  
[www.ci.Emeryville.ca.us](http://www.ci.Emeryville.ca.us)

Department of Toxic Substances Control  
700 Heinz Street  
Berkeley, CA 94710  
Phone: 510-540-3800 (call for appointment)  
[www.dtsc.ca.gov](http://www.dtsc.ca.gov)

Documents are also available electronically on  
DTSC's Envirostor website:  
<http://www.envirostor.dtsc.ca.gov/public/>  
Enter Emeryville in the city section and select  
South Bayfront Site B from the alphabetical list of  
sites.