



Watson Johnson Landfill Superfund Site

*Public Information Session
May 4, 2017*

Welcome

- ◆ Introductions
- ◆ Watson Johnson Landfill Presentation
- ◆ Community Involvement Presentation
- ◆ Q&A
- ◆ Availability Session

Watson Johnson Landfill Superfund Site Information Session

- ◆ Site identification and history
- ◆ What and where is the contamination?
- ◆ Chosen Cleanup Remedies – Record of Decision
- ◆ What has EPA been doing?
- ◆ What will EPA be doing and when?
- ◆ How to get information and ask questions



Site History

- ◆ 20.4-acre, inactive, unlined landfill
- ◆ Waste accepted from 1950-1970
 - Household and industrial waste
- ◆ Added to National Priorities List in September 2001
- ◆ Remedial Investigation initiated in 2001 and completed May 2006

Site History

- ◆ Removal Action to provide public water (2005/2006) in a downgradient neighborhood
- ◆ Proposed Plan - September 2008
- ◆ Record of Decision - August 2009
 - Multi-layer geotextile landfill cap
 - In-situ chemical oxidation followed by enhanced bioremediation for contaminated groundwater
- ◆ Remedial Design initiated November 2009 and completed October 2011
- ◆ Remedial Action funded September 2014



Remedial Action Objectives

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◆ Landfill

- Prevent contact with wastes and contamination
- Reduce infiltration into waste
- Prevent erosion and surface water runoff
- Prevent off-site migration of contamination

◆ Surface Soil

- Cleanup mercury contamination in surface soil
 - Mercury was found in three SS samples
- Restore surface soil quality

Remedial Action Objectives

◆ Sediment

- Cleanup metals contamination in sediment
- Diminish impacts to wetlands
- Restore sediment quality

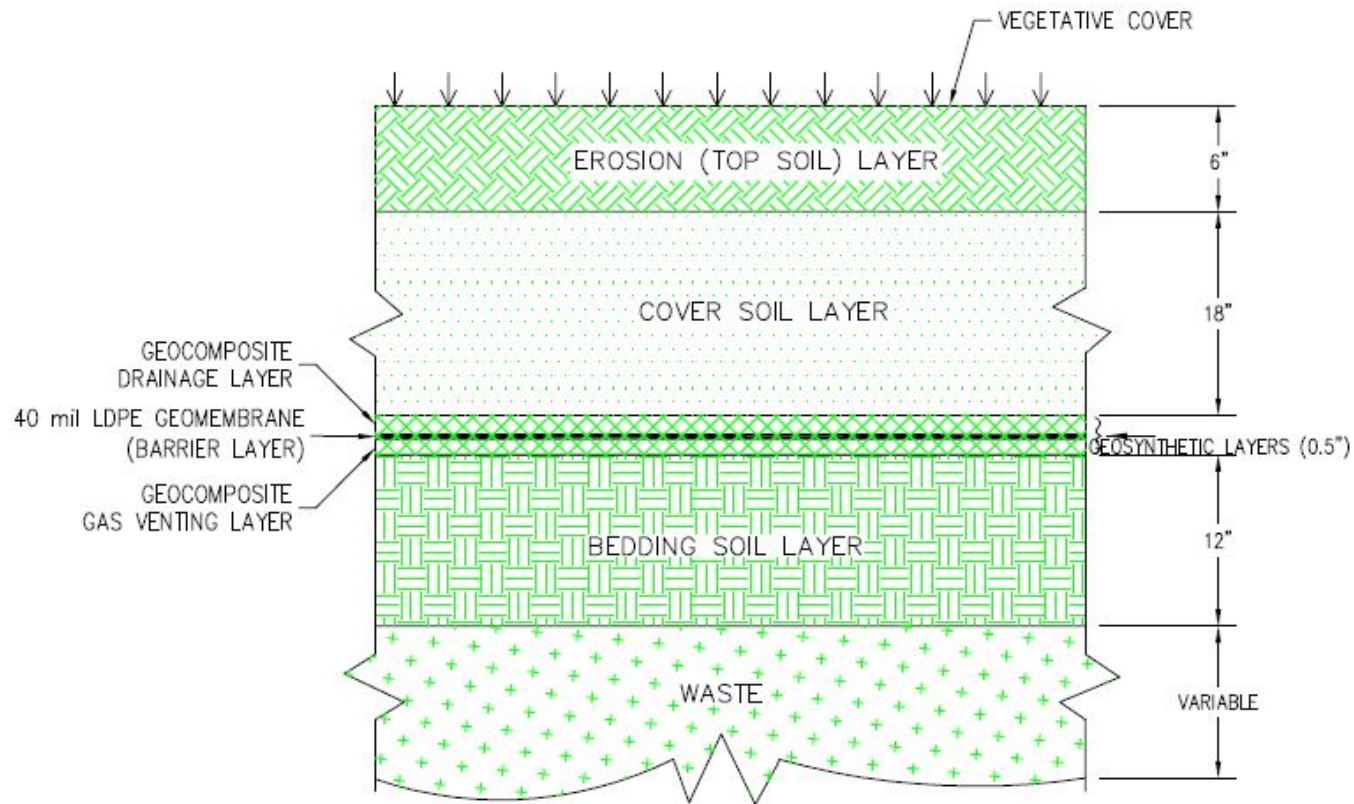
◆ Groundwater

- Prevent exposure to contaminated groundwater
- Prevent migration of the contaminated groundwater
- Restore groundwater quality



Landfill Cap

Landfill Cap Illustration



SOIL/GEOSYNTHETIC MULTI-LAYER CAP

NOT TO SCALE





6/30/1999





Landfill Capping Tree Removal



Why Tree and Plant Removal?

- ◆ The current trees and plants at the landfill would inhibit the proper installation of the cap
- ◆ If they were to remain, roots from the plants could puncture or tear through the protective liners of the cap

Example of Landfill Capping Re-vegetation



Landfill Cap Schedule (Estimated)

- ◆ Interagency Agreement with the U.S. Army Corps of Engineers - Contract admin.
- ◆ Construction Contract – April 2017
 - CTI and Associates; Novi, MI
 - \$9,000,000.00
- ◆ Construction start – May/June 2017
- ◆ Construction completion ~ December 2018



In-situ treatment

What is in-situ?

- ◆ In-situ means “in place”, meaning we add material into the ground by pumping it into specific locations using an injection well
- ◆ An injection well is a well that is installed for the purpose of putting material into the ground
- ◆ This material (KMnO_4) destroys the contaminant

Groundwater Cleanup Schedule (Estimated)

- ◆ Remedial Action Contract with Tetra Tech
- ◆ Remedial Action Work Plan – January 2015
- ◆ Construction start – June 2015
- ◆ First injections – April/May 2017
- ◆ Subsequent injections - Nov/Dec 2017

Communications/Outreach

- ◆ Community Involvement Plan
- ◆ Facebook Page
 - ❖ www.facebook.com/EPAwjlandfill
- ◆ Fact Sheets
- ◆ Richland Township Times Newsletter
 - ❖ <http://www.richlandtownship.org/>
- ◆ Township Committee Meetings
- ◆ Upcoming EPA-sponsored Public Meetings
- ◆ Updates on EPA Superfund Site webpage
 - ❖ www.epa.gov/superfund/watsonjohnson



Availability Session

Mark Leipert – EPA Hydrogeologist

- ◆ Visit Mark's table and learn about:
 - ❖ Geology of the Site
 - ❖ The groundwater plume
 - ❖ Injection and monitoring wells on-site and their process

Tim Gallagher – EPA Remedial Project Manager

◆ Visit Tim's table and learn about:

❖ Current and future steps regarding the Site



Alexander Mandell and Gina Soscia - EPA Community Involvement Coordinators

- ◆ Visit Alex and Gina's table and learn about:
 - ❖ Community Involvement and outreach efforts
 - ❖ Community opportunities
 - ❖ Community Involvement Plan participation

Q&A

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