

## MCAS TUSTIN ENVIRONMENTAL PROGRAM STATUS

### **Operable Unit 1A (Site 13South – 1,2,3-TCP plume)**

#### **Carve-Out: CO-5**

#### **Brief Project History:**

- 2002: Time Critical Removal Action (hydraulic containment).
- 2004: Final Record of Decision (ROD): Selected remedy includes:
  - Hydraulic containment of contaminated groundwater;
  - Construction, operation, and maintenance of hydraulic containment system;
  - Hot-spot soil removal to enhance groundwater remedy and;
  - Implementation of institutional controls.
- 2007: Final Remedial Design and Remedial Action Implementation.
- December 2007: North treatment system operational.
- July 2008: Issued 1<sup>st</sup> Quarter Groundwater Progress Monitoring Report.
- July 2008: Issued Draft Interim-Remedial Action Completion Report (I-RACR). The main purpose of the I-RACR is to document that the remedy has been constructed.
- October 2008: Issued 2<sup>nd</sup> Quarter Groundwater Progress Monitoring Report.

#### **Next steps:**

- On-going operation and maintenance activities.
  - Biweekly, monthly and quarterly inspections;
  - Quarterly effluent sampling for compliance with Orange County Sanitation District discharge requirements; and
  - Quarterly groundwater monitoring.
    - Data used to track system performance and optimize system.
- January 2009: 3<sup>rd</sup> Quarter Groundwater Progress Monitoring Report.
- March 2009: Draft Long Term Operation and Maintenance Plan (OMP).
- May 2009: Draft Operating Properly and Successfully (OPS) Report.
- **January 2009: Final I-RACR.**

### **Operable Unit 1B (Sites 3 and 12 –TCE plumes)**

#### **Carve-Outs: CO-5 and CO-6**

#### **Brief Project History:**

- 2004: Final Record of Decision (ROD): Selected remedy includes:
  - Hydraulic containment of contaminated groundwater;
  - Construction, operation, and maintenance of a hydraulic containment system;
  - Hot-spot soil removal to enhance groundwater remedy and;
  - Implementation of institutional controls.
- 2007: Final Remedial Design and Remedial Action Implementation.
- December 2007: North treatment system operational.
- January 2008: South treatment system operational.
- July 2008: Issued 1<sup>st</sup> Quarter Groundwater Progress Monitoring Report.
- July 2008: Issued Draft I-RACR.
- October 2008: Issued 2<sup>nd</sup> Quarter Groundwater Progress Monitoring Report.

## MCAS TUSTIN ENVIRONMENTAL PROGRAM STATUS

### **Operable Unit 1B (Sites 3 and 12 --TCE plumes) Continued:**

#### **Next steps:**

- On-going operation and maintenance activities.
  - Biweekly, monthly, and quarterly inspections;
  - Quarterly effluent sampling for compliance with Orange County Sanitation District discharge requirements; and
  - Quarterly groundwater monitoring.
    - Data used to track system performance and optimize system.
- January 2009: 3<sup>rd</sup> Quarter Groundwater Progress Monitoring Report.
- March 2009: Draft Long Term Operation and Maintenance Plan (OMP).
- May 2009: Draft Operating Properly and Successfully (OPS) Report.
- January 2009: Final I-RACR.

### **Operable Unit 4B (IRP-5S[a], IRP-6, IRP-11, IRP-13W, MMS-04, and Mingled Plumes Area [MPA])**

#### **Carve-Outs: CO-5 and CO-6**

#### **Brief Project History:**

- 2000: Draft OU-4 Focused Feasibility Study (FS).
- 2003: OU-4 Shallow Groundwater Investigation.
- 2004: OU-4 Technical Memorandum presents results of shallow groundwater investigation.
- 2005-2006: Groundwater Monitoring.
- 2007: IRP-6 and MPA Supplemental Investigation.
- September 2008: Final Technical Memorandum Supplemental Investigation at IRP-6 and MPA.
- October 2008: Final FS Report.

#### **Next steps:**

- February 2009: Proposed Plan.
- June 2009: Draft ROD.

### **MTBE Plume (UST Site 222)**

#### **Carve-Outs: CO-5**

#### **Brief Project History:**

- 2001: Interim-Petroleum Corrective Action Program (PCAP) plan implemented.
- 2006: Final Soil Closure Report.
- 2006: Interim PCAP Addendum No. 2 – Revised Cleanup Goals: 1<sup>st</sup> WBZ: 300 micrograms per liter (ug/L), 2<sup>nd</sup> WBZ: 44 ug/L, and 3<sup>rd</sup> WBZ: 13 ug/L.
- 2007: Final PCAP.
- 2007/2008: Implement Final PCAP; Additional monitoring and extraction wells installed. Air Sparging/Soil Vapor Extraction (AS/SVE) initiated in March 2008.
- September 2008: AS/SVE system shut down for rebound monitoring per the Final PCAP requirements.

## MCAS TUSTIN ENVIRONMENTAL PROGRAM STATUS

### MTBE Plume (UST Site 222) Continued:

#### Next steps:

- On-going operation and maintenance activities.
  - Quarterly groundwater monitoring.
  - Data used to track system performance, optimize system, and support Final PCAP Closure Report.
- Quarterly effluent sampling for compliance with Orange County Sanitation District discharge permit requirements.
- December 2008 – Issue 1<sup>st</sup> and 2<sup>nd</sup> Quarter Groundwater Progress Monitoring Report

### FOST Summary

FOST #1 signed August 29, 2001	Parcels 3, 21, 38, 39 and portions of 40
FOST #2 signed September 28, 2001	Parcels 4-8, 10-12, 14, 25, 26, 30-33, 37, 42, and portions of 40 and 41
FOST #3 signed April 22, 2002	Parcels 23, 29, 34, 35 and 36, and portions of 1, 16, 17, 24, 27, 28, 40 and 41
FOST #4 signed September 26, 2002	Portions of 24 (PS clean areas in CO-5)
FOST #5 signed December 17, 2002	COs 8 and 11
FOST #6 signed September 29, 2004	CO-10 and portion of CO-5
FOST #7 signed May 20, 2005	COs 3 and 7 and portion of CO-5
FOST #8 February 2006	COs 1 and 4

### FOSL Summary

FOSL #2 signed February 28, 2002	COs 1 thru 4
FOSL #3 signed April 26, 2002	COs 5 thru 11

### Acronyms

AST	Aboveground Storage Tank	MNA	Monitored Natural Attenuation	PS	Public Sale Parcel
AOC	Area of Concern	MPA	Mingled Plumes Area	RCRA	Resource Conservation and Recovery Act
BCT	BRAC Cleanup Team (Navy, EPA, Cal EPA)	MMS	Miscellaneous Major Spill	ROD	Record of Decision
CO	Carve-Out area	NFA	No Further Action	TCE	Trichloroethene
EE/CA	Engineering Evaluation/ Cost Analysis	OMP	Operations and Maintenance Plan	TCP	1,2,3-Trichloropropane
FOSL	Finding of Suitability to Lease	OPS	Operating Properly and Successfully	ug/L	Micrograms per liter
FOST	Finding of Suitability to Transfer	OU	Operable Unit	UST	Underground Storage Tank
FS	Feasibility Study	PCAP	Petroleum Corrective Action Program	WBZ	Water-Bearing Zone
		MTBE	Methyl tert butyl ether		