



Motorola 52nd Street Superfund Site

OU1 Effectiveness and Update

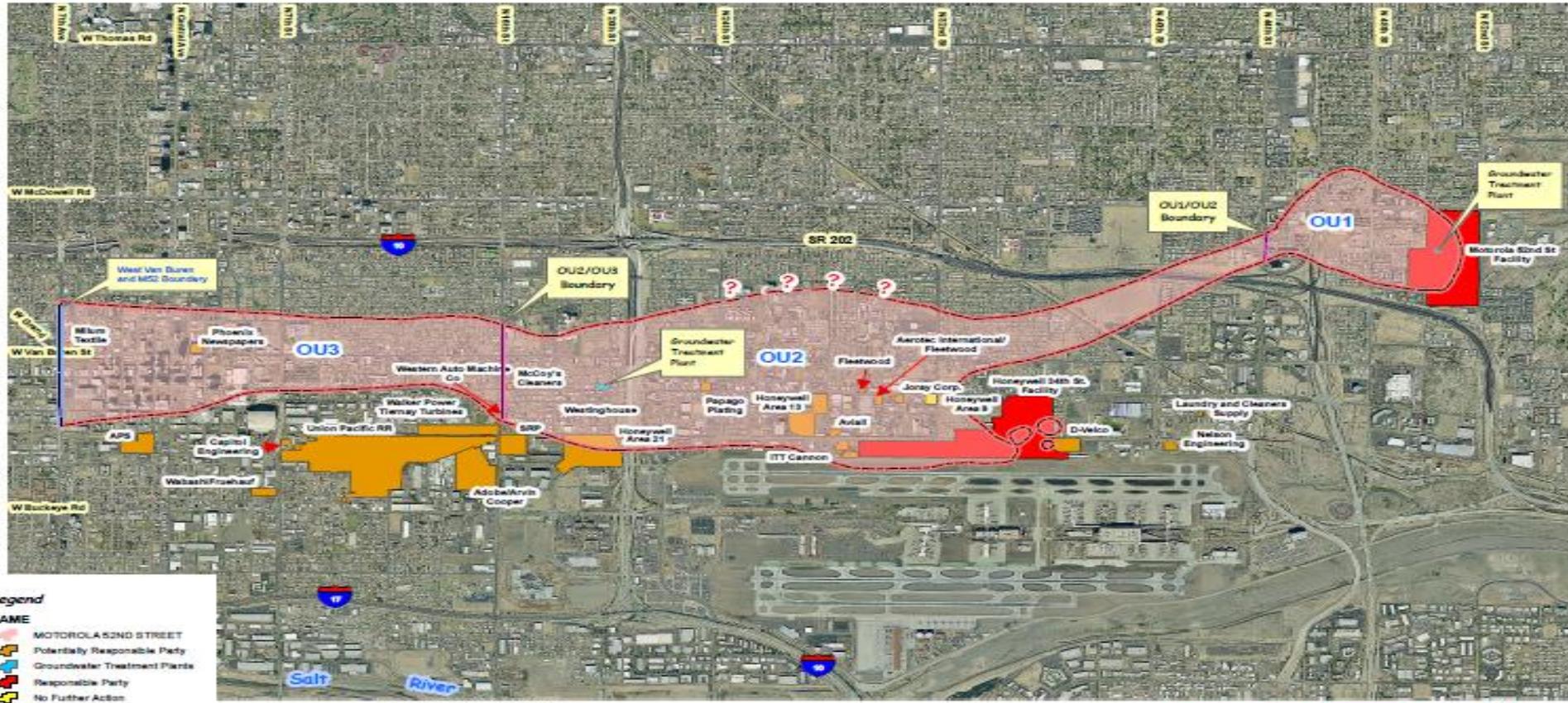
June 22, 2011



**Arizona Department of
Environmental Quality**



**U.S. Environmental
Protection Agency, Region 9**



- Legend**
- NAME**
- MOTOROLA 52ND STREET
 - Potentially Responsible Party
 - Groundwater Treatment Plants
 - Responsible Party
 - No Further Action

Contour represents area of volatile organic compounds in alluvial and bedrock groundwater that exceeds the Aquifer Water Quality Standards.

- Insufficient Data

WASTE PROGRAMS DIVISION
GIS and Data Management Unit
Map produced by Arizona Department of Environmental Quality (ADEQ), GIS and Data Management Unit, TS Summers
D:\superfund\Phoenix\2010\MS21.Projects\2010\MS2-2010_Scale.mxd



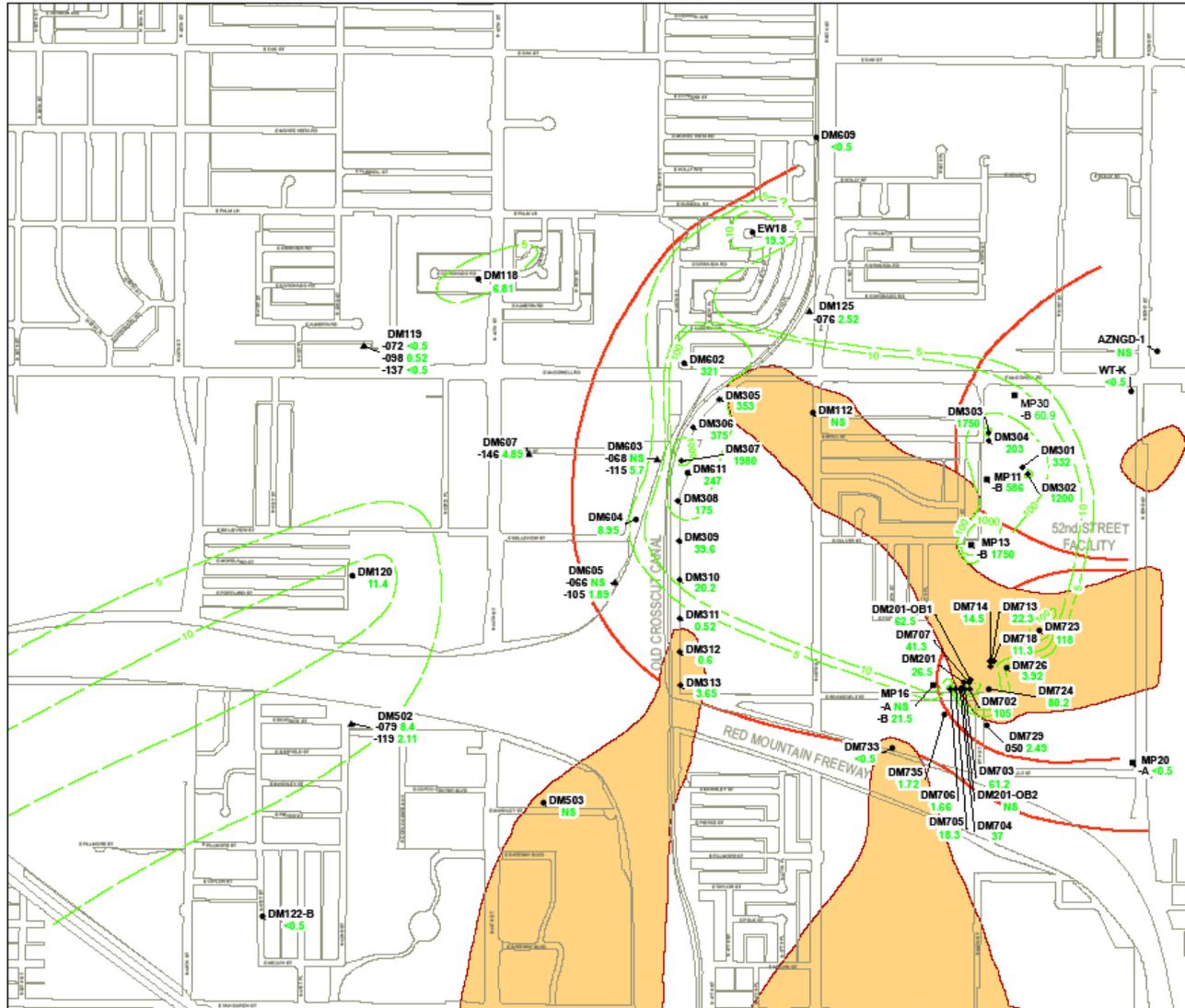
Site boundaries depicted on the site map represent ADEQ's interpretation of data available at the time the map was constructed. The map is intended to provide the public with basic information as to the estimated geographic extent of known contamination as of the date of map production. The actual extent of contamination may be different. Therefore, the geographic boundaries for this site may change in the future as new information becomes available.

How does the Effectiveness Report fit into the Superfund process?

- ADEQ/EPA's legal authority
- Goal of interim remedy

- Freescale continues to operate the treatment system with ADEQ and EPA oversight:
 - 123.5 million gallons of water treated in 2010
 - 93.5% Operational
 - Approximately 793 pounds of volatile organic compounds (VOCs) removed in 2010
 - Estimated total over 21,178 pounds of VOC's removed since start-up

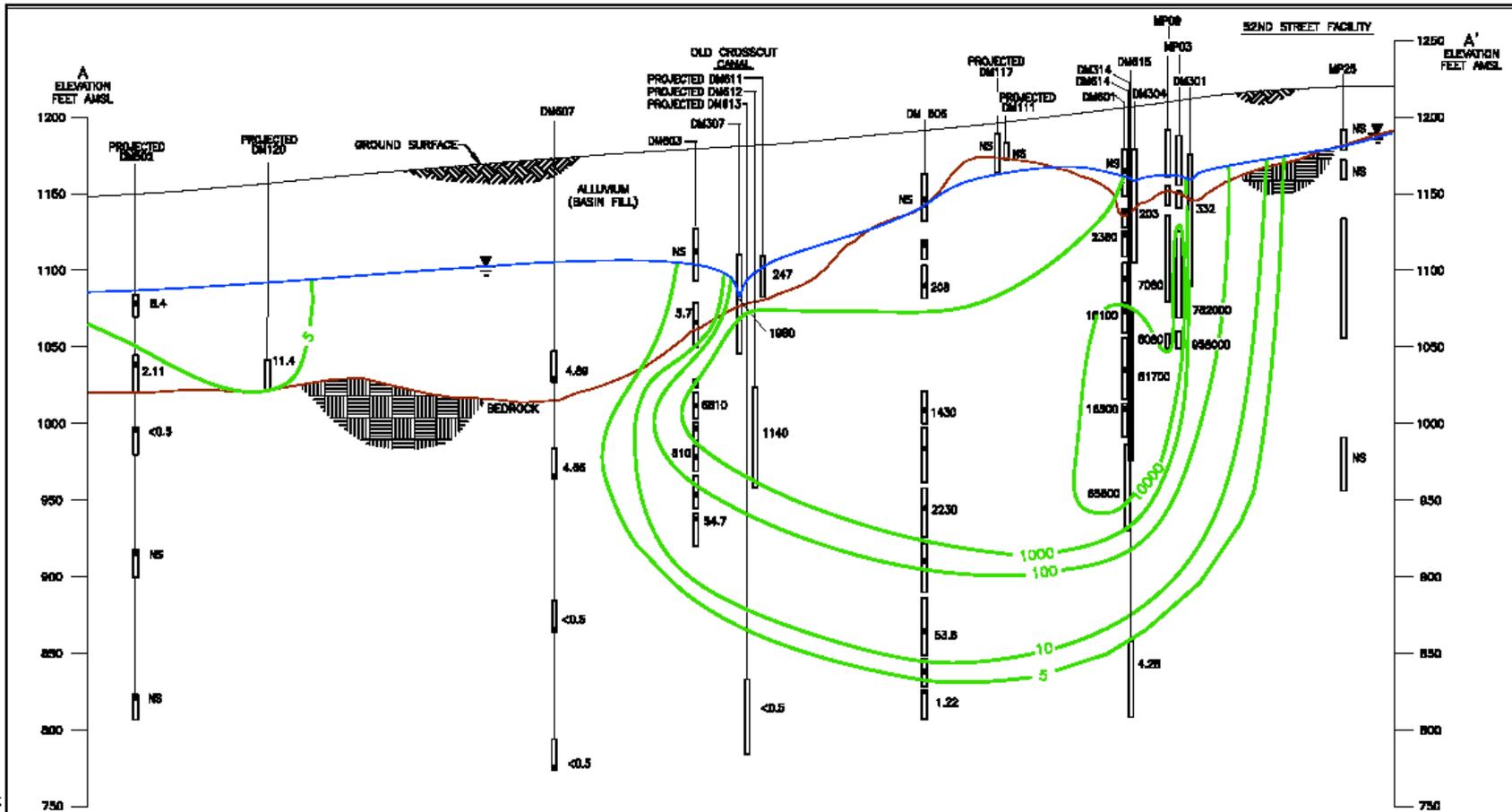
- Bedrock Pilot Study still ongoing
 - Trichloroethylene (TCE) concentrations ranged 1140 ug/l – 81,000 ug/l
 - 200 lbs of VOCs removed from 308.4 gallons of water
 - Average pumping rate of DM314 is less than 1 gallon per minute
- Groundwater monitoring results indicate that the OU1 Treatment Plant is capturing a majority of the contamination



LEGEND:

SYMBOL	WELL TYPE
●	CONVENTIONAL
◆	EXTRACTION
■	MULTIPOINT
▲	WESTBAY or FLUTE
●	WELL NAME -105 1.89 DEPTH OF WESTBAY SAMPLE PORT (IN FEET BGS) OR COMPLETION INTERVAL DESIGNATION
◆	WELL NAME 9.5 TCE CONCENTRATION (ug/l)
—	APPROXIMATE AREA OF CAPTURE
—	TCE CONCENTRATION CONTOUR (ug/l)
—	NS NOT SAMPLED
■	DRY BEDROCK

NOTE:
The TCE contours drawn on this figure are approximate and are represented to illustrate general concentrations of TCE in the area. Contours are dashed where approximate or conjectured.



001-2010-25.DWG 3-25-11

- LEGEND:**
- DN 802 NAME OF WELL
 - GROUND SURFACE
 - BEDROCK CONTACT
 - 2010 WATER TABLE
 - MONITOR ZONE
 - MEASUREMENT PORT
 - MONITOR ZONE
 - 8.4 TCE CONCENTRATION IN ug/L
 - NS NOT SAMPLED
 - TCE CONCENTRATION CONTOUR (ug/L)

- NOTES:**
1. LOCATION OF SECTION A-A' IS SHOWN ON FIGURE 1 AND 22.
 2. THE SPECIFIC DEPTHS/LOCATIONS OF MEASUREMENT AND PUMPING PORTS, AND MONITOR ZONES ARE PROVIDED IN THE MS2-1992 FR RI REPORT AND OTHER RELATED DOCUMENTS. THE ENTIRE WELL CONSTRUCTION IS NOT SHOWN ON THIS FIGURE.
 3. THE WATER TABLE WAS PLOTTED USING DECEMBER 2010 DATA.
 4. WELL DN307 IS A PUMPING WELL. THE WATER LEVEL HAS BEEN ADJUSTED FOR WELL EFFICIENCY.
 5. TCE CONCENTRATIONS FOR WELLS MP03 & MP08 ARE FROM AUGUST 2010.
 6. NS - NOT SAMPLED

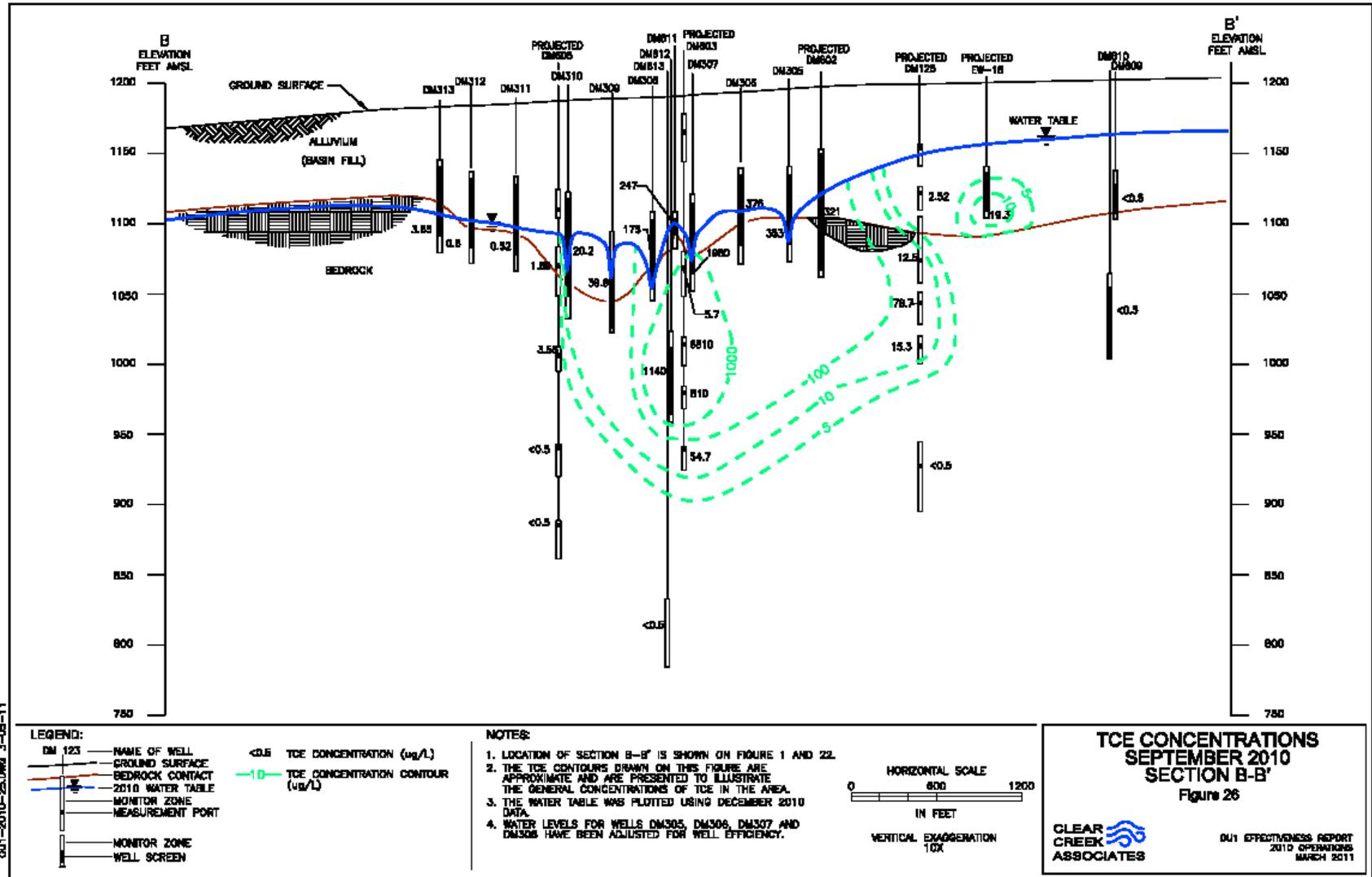


**TCE CONCENTRATIONS
SEPTEMBER 2010
SECTION A-A'**

Figure 25

CLEAR CREEK ASSOCIATES

001 EFFECTIVENESS REPORT
2010 OPERATIONS
MARCH 2011



DU1-2010-25.DWG 3-05-11

The OU1 Treatment Plant is a Temporary Remedy:

- Bedrock extraction of contaminants
- Further evaluation of groundwater extraction at the Old Cross Cut Canal
- TCE needs further investigation in the northern boundary

- ADEQ
- EPA

- Bedrock Extraction Pilot Test Report
- End Use Report
- Semi-Annual Sampling Round
- Semi-Annual Progress Report
- Final Remedial Investigation
- Final ROD

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- **QUESTIONS**