Overview

- Groundwater Remediation Progress
- 2016 Accomplishments
- Future Activities
Groundwater Remediation Progress
Plume Reduction

Improved Mass Removal Rate

Start of plume tail optimized operation (E-18, E19, E20) (>10X increase in monthly mass removal)

Injection pump and well upgrades; vault flood damage; removal of cross-field injection line

Q3 2016
Current State of Subunit C North

Pounds of TCE Treated in Subunit C Extraction Wells 2013-2016

- E-103 flowrate adjusted from 450 to 350 gpm
- E-102 shut down
- E-103 began operation

Q3/Q4 2015

- E-103
- E-102

Q3 2016

- E-103
- E-102
2016 Accomplishments
2015/2016 Accomplishments

• Ongoing performance evaluation of updated Subunit A and C treatment systems

• Began pumping at E-21 which greatly increase mass removal from Subunit A

• Completed installation of two Subunit C monitoring wells

• Provided the City of Goodyear (COG) with 76.5 Mgal of treated groundwater for beneficial reuse at the COG Ball Park (Jan-Sept 2016)

• Continued work with EPA on the Area Between the Sites
New Subunit C Monitoring Well Results

TCE

Q3 2016 with GMW-37UC

GMW-36UC

Q3 2016

GMW-37UC

LEGEND

- EXTRACTION WELL - IN OPERATION
- EXTRACTION WELL - INACTIVE
- INJECTION WELL - INACTIVE
- INJECTION WELL - OBSERVATION
- PRODUCTION WELL - IN OPERATION
- PRODUCTION WELL - INACTIVE
- MONITORING WELL - UPPER SUBUNIT C
- MONITORING WELL - LOWER SUBUNIT C
- MONITORING WELL

TCE CONCENTRATION (µg/L)

- 5 - 10
- 10 - 50
- 50 - 100
- > 100

TCE CONCENTRATION CONTOUR LINES (µg/L) DASHED WHERE INFERRED BASED ON THIRD QUARTER 2016 DATA

GAC-03 WELL ID
Q3 22 THIRD QUARTER DATA

CHROMIUM CONCENTRATION
>100 µg/L
• NE-03, a former extraction well was converted to an injection well this year

• NE-01 and NE-02 became injection wells in 2015

• Injection flow rebalanced after the addition of E-21 and the increased total flowrate.
  - From approximately 450 gpm to 560 gpm.

• Increased flow to NE-01, NE-02, and NE-03 on the west side of the runway.
A work plan will be submitted for installation of GMW-38C.
QUESTIONS?