Interim Remedial Measures (IRM) Groundwater Treatment System

- Groundwater monitoring of the PBG source area has shown that no significant changes to groundwater contamination have been identified since the IRM was shut down in December 2012.

- DNR approval to dismantle IRM
  - Required by Condition 4 of the 2012 Groundwater Alternative Feasibility Study approval
Modified Interim Remedial Measures (MIRM) Groundwater Treatment System

- DNR approved Army's plan to shut down the MIRM
- MIRM groundwater treatment system will be sequentially shut down over next 2 years.
  - *Phase I* - turn off pumping wells EW-167, EW-168 and EW-169
  - Monitor water levels & contaminants
  - Criteria – no significant contaminant plume expansion or contaminant increase
  - DNR approval required to proceed to *Phase II*
  - *Phase II* - turn off pumping wells EW-163R and EW-170R
- Groundwater monitoring will continue
Extraction Wells
Monitoring Well Installation

- 12 wells were installed along the southern boundary
  - *Wells will monitor any potential plume migration towards residential wells*
- 12 wells were installed in center of PBG Plume
  - *Wells will be used to evaluate MIRM shutdown conditions*
- Initially sampled these wells in May 2014
  - *Groundwater results were consistent with expectations*
  - *PBG plume boundary has not changed*
New Monitoring Wells
Groundwater Sampling

- Residential Well Sampling plan modified in 2013
  - Completed Annual residential well sampling in August 2014
  - *No Enforcement Standard exceedances in 2014*
- Monitoring Well Sampling plan is being modified
  - Central Plume sampling expanded
  - Deterrent Burning Ground (DBG) Plume sampling refined
  - Future – Install 11 wells in DBG & Central Plumes
Monitoring Well Analyses

- Base Neutral Acid (BNA) Analysis
  - March 2014 - DNR approved a reduction in BNA testing
  - Historic results showed no threat to groundwater quality

- VOC Analysis - continues
  - Carbon Tetrachloride, Chloroform, Ethyl Ether, Trichloroethene, + 53 other compounds

- DNT (6 isomers) Analysis – continues

- DNT Degradation Analysis – continues at PBG

- Nitrate Analysis – continues at PBG

- Sulfate Analysis – continues at DBG
PBN-1405F
Well Installation

No contaminants detected