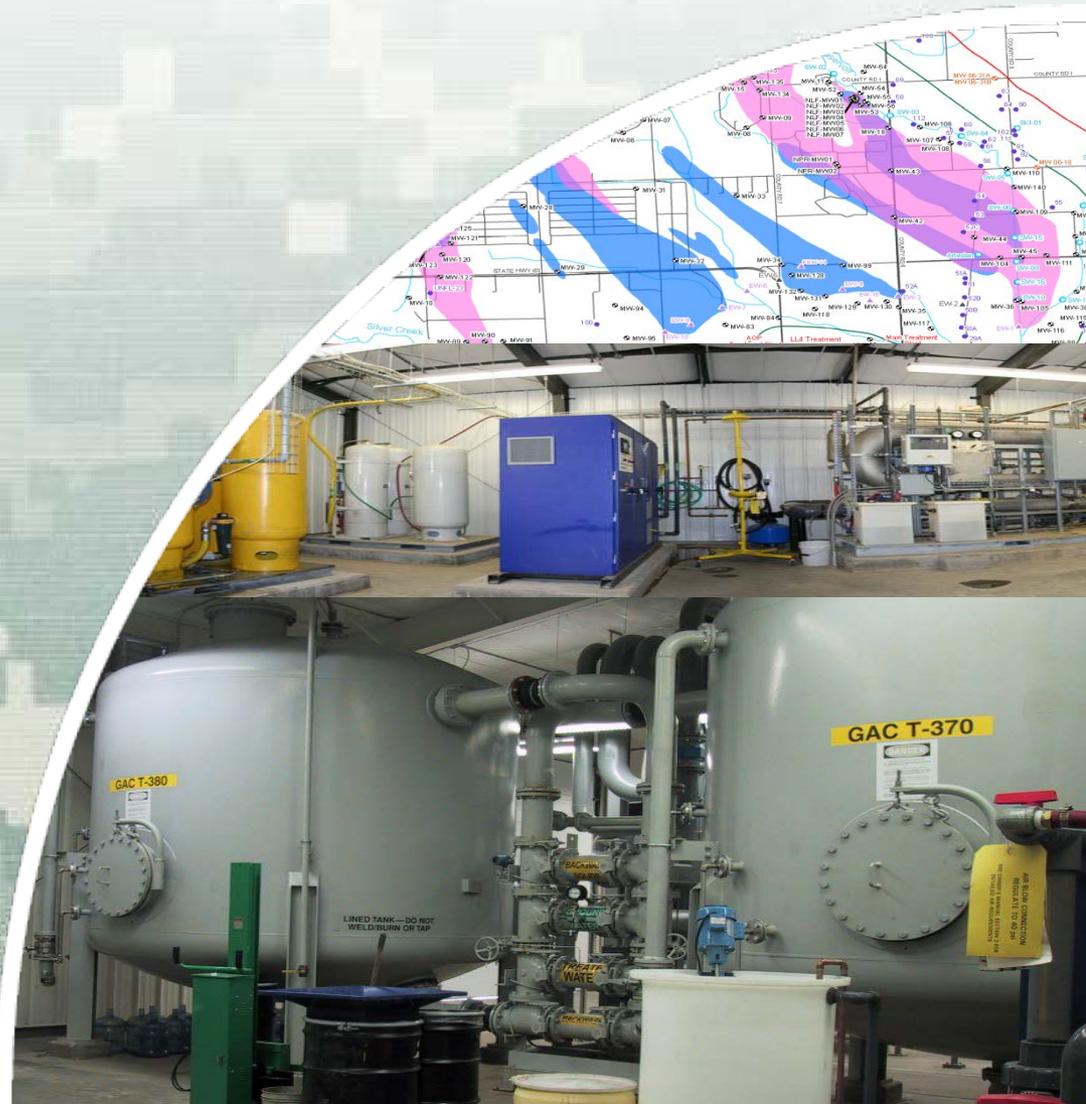


Cleanup Goals Achieved at Extraction Wells EW-3, EW-6, and EW-16

January 16, 2013



Cleanup Goals Achieved at Extraction Wells EW-3, EW-6, and EW-16

- The achievement of cleanup goals at these extraction wells represents a milestone in the U.S. Army Corps of Engineers' progress towards meeting the remedy for the former Nebraska Ordnance Plant.
- The groundwater in the vicinity of these extraction wells is now below Final Target Groundwater Cleanup Goals of 2 micrograms per liter.
- EW-3, EW-6 and EW-16 were decommissioned as of January 2, 2013.

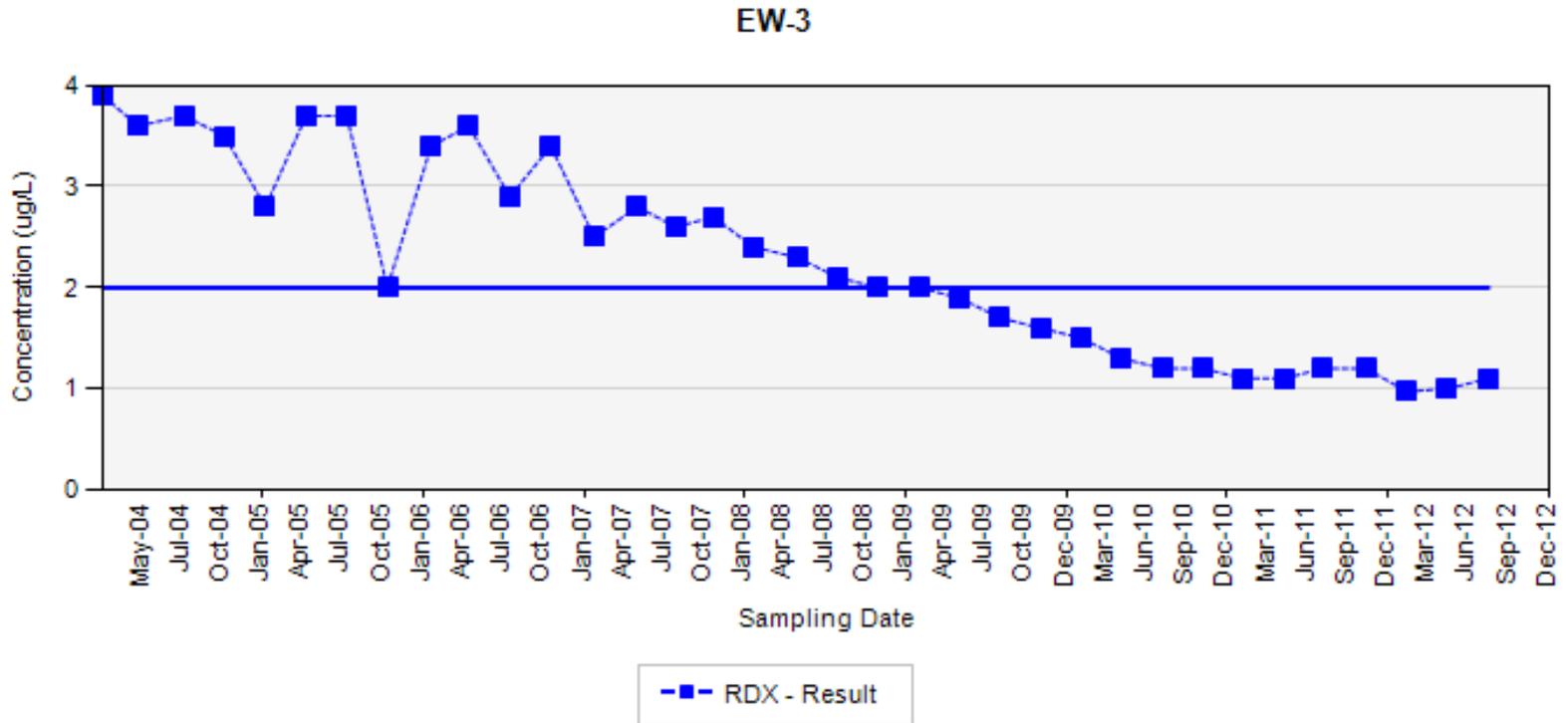


Rationale for Decommissioning

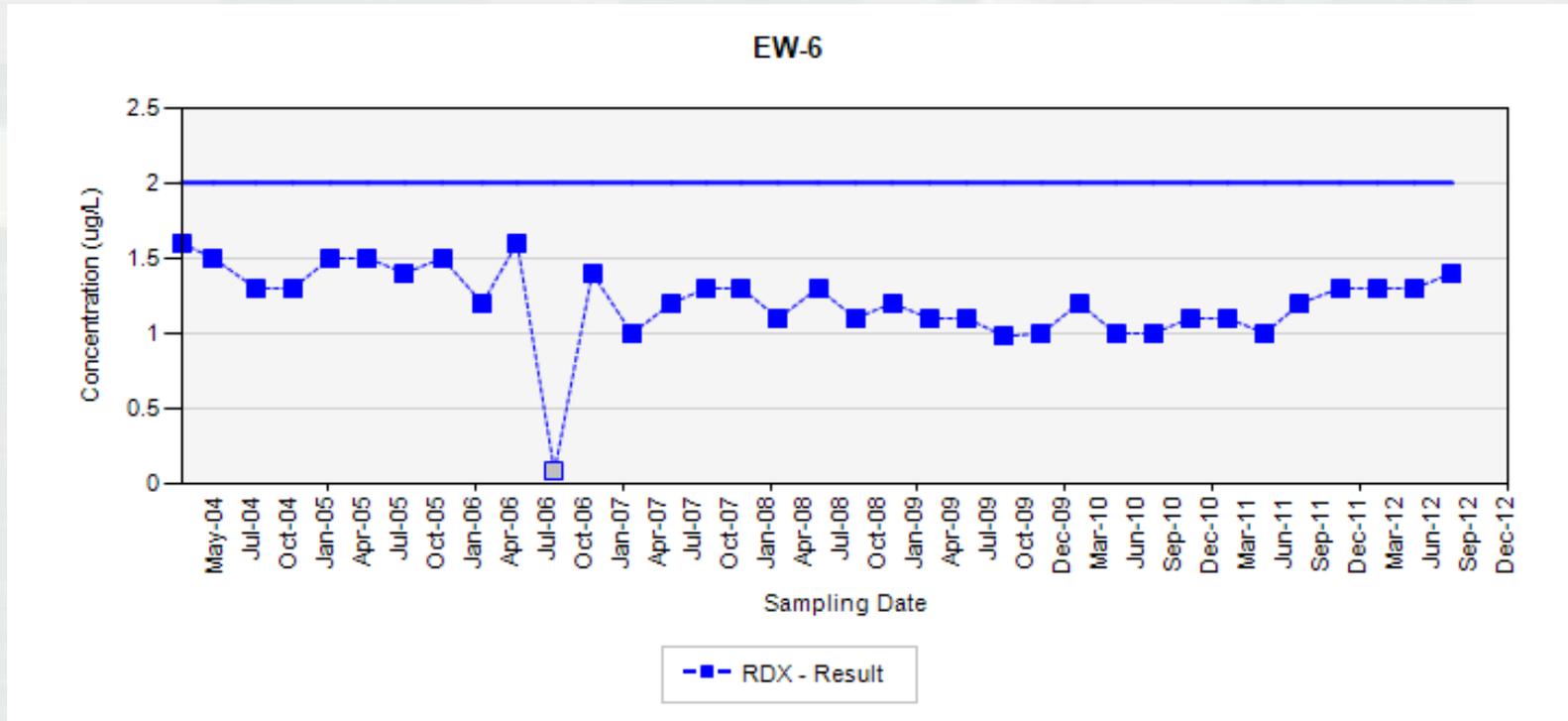
- Decommissioning of EW-3, EW-6, and EW-16 from the containment system is based upon:
 - Concentration trends in the extraction wells,
 - Review of the recent direct-push data, and
 - Results of model simulations.



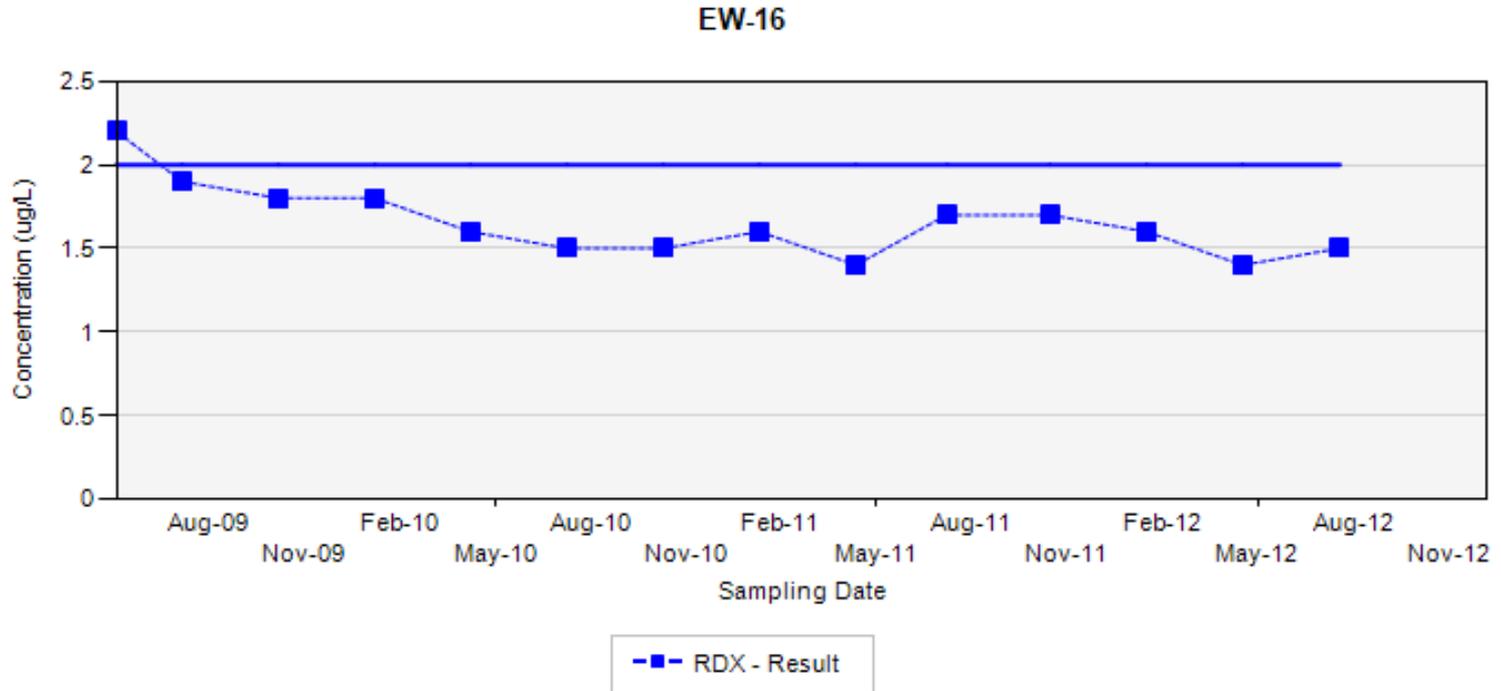
RDX Concentration Trend at EW-3



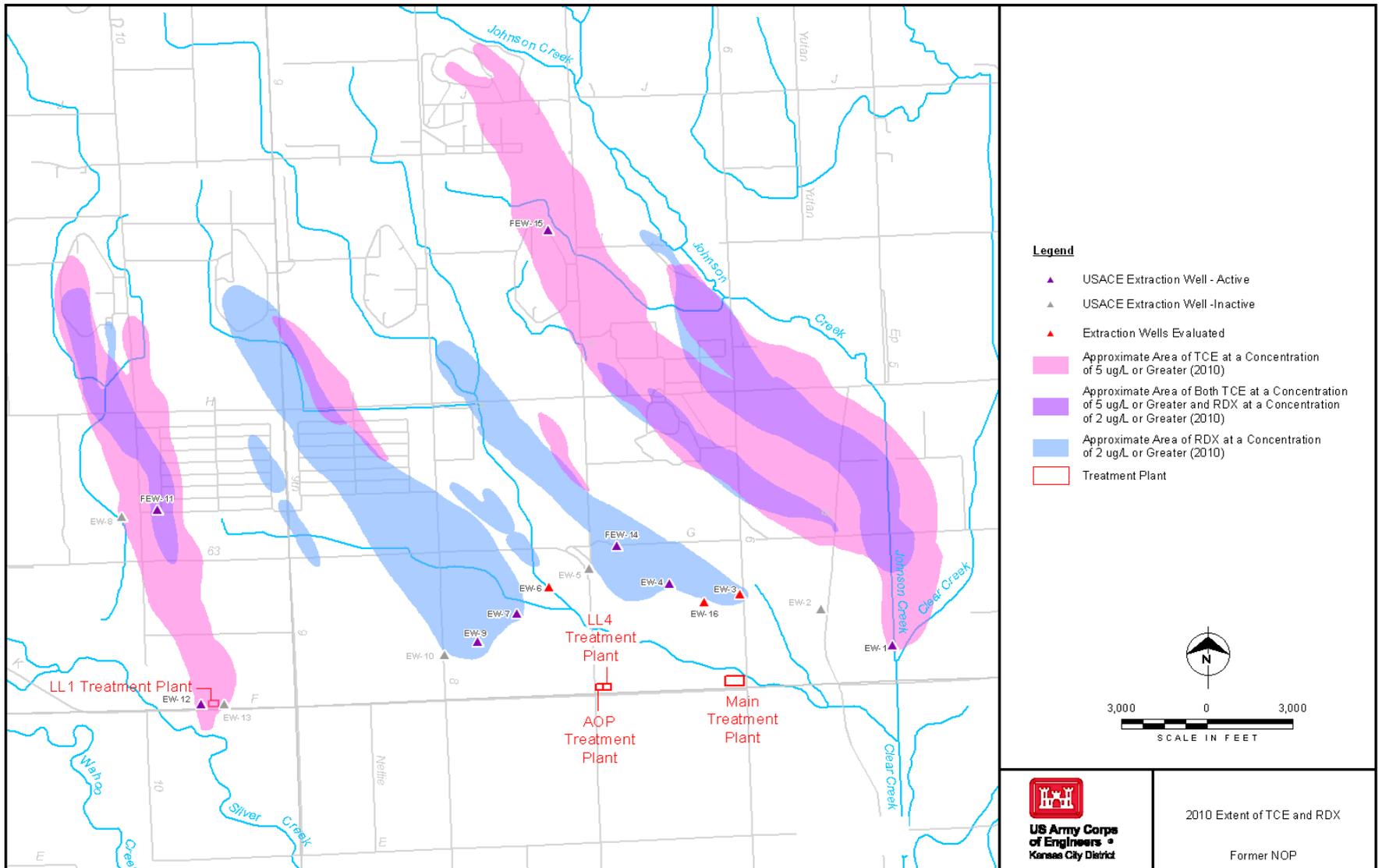
RDX Concentration Trend at EW-6



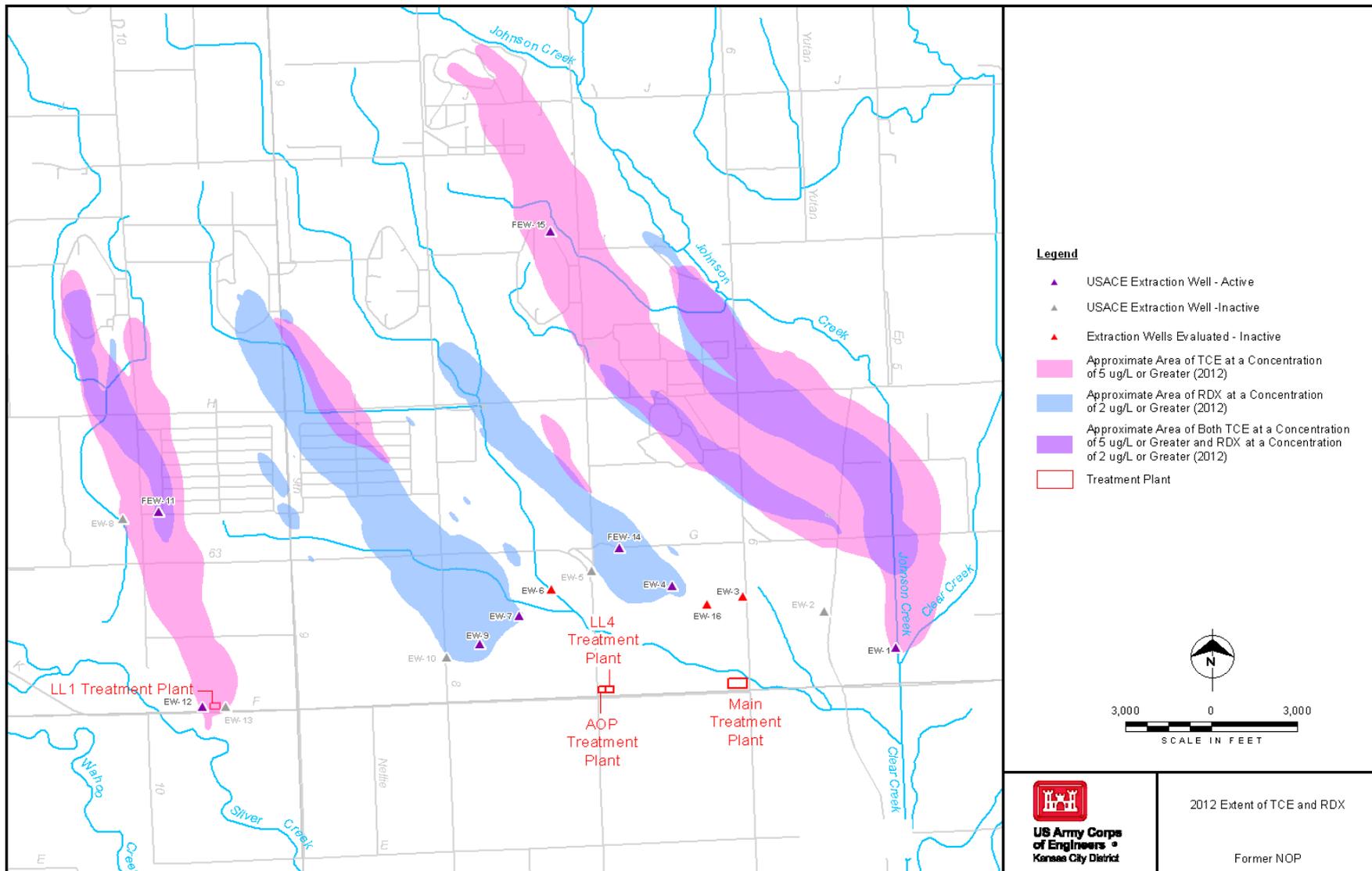
RDX Concentration Trend at EW-16



2010 TCE and RDX Concentration



2012 TCE and RDX Concentration



Modeling Scenarios for EW-3, EW-6, and EW-16

- **Scenario 1** - EW-3 and EW-6 Deactivated
 - No additional changes to pumping regime
 - No adverse impact over 30 years

- **Scenario 2** - EW-3, EW-6, and EW-16 Deactivated
 - No additional changes to pumping regime
 - Contaminants migrate beyond capture zone of EW-4

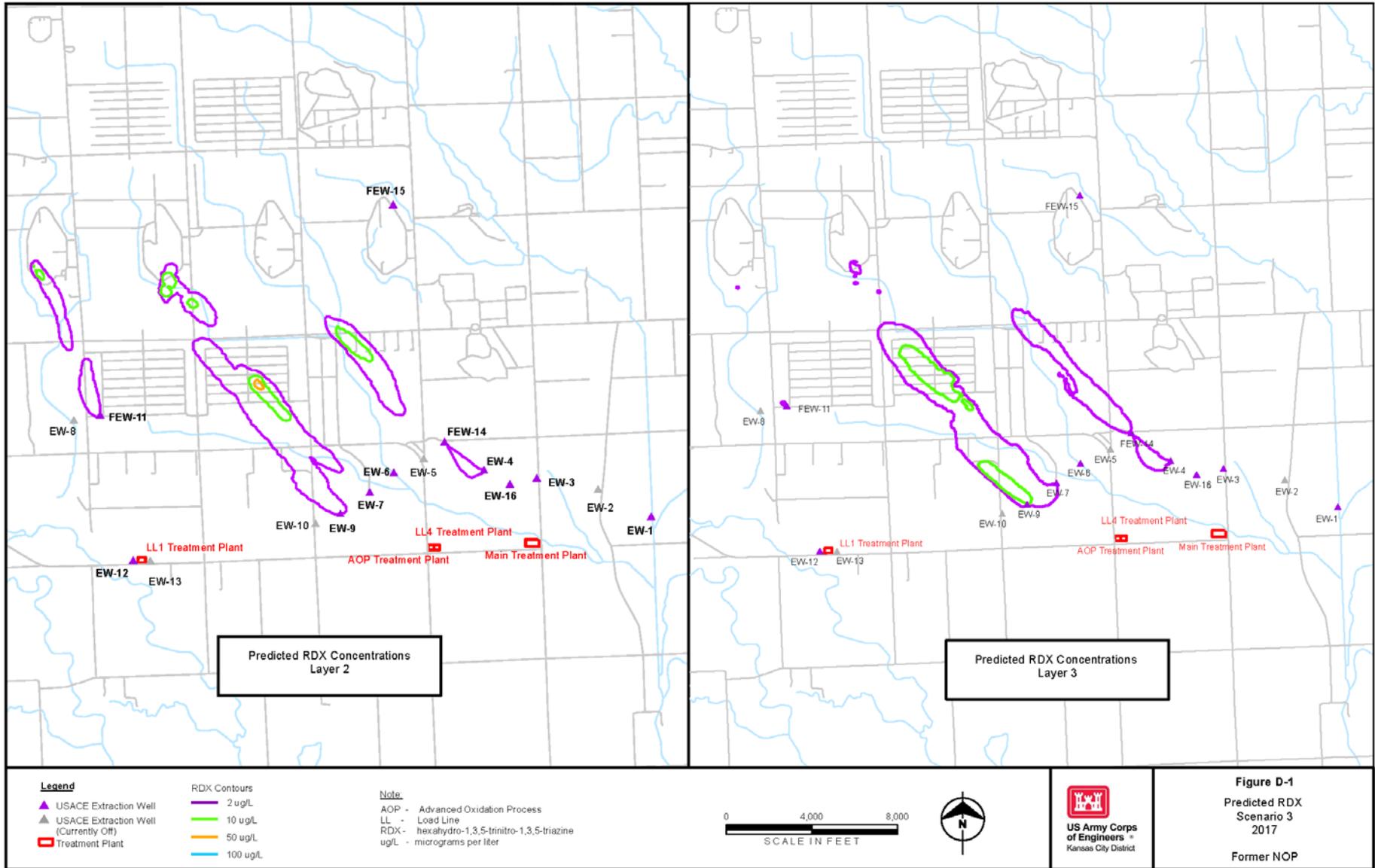


Modeling Scenarios for EW-3, EW-6, and EW-16

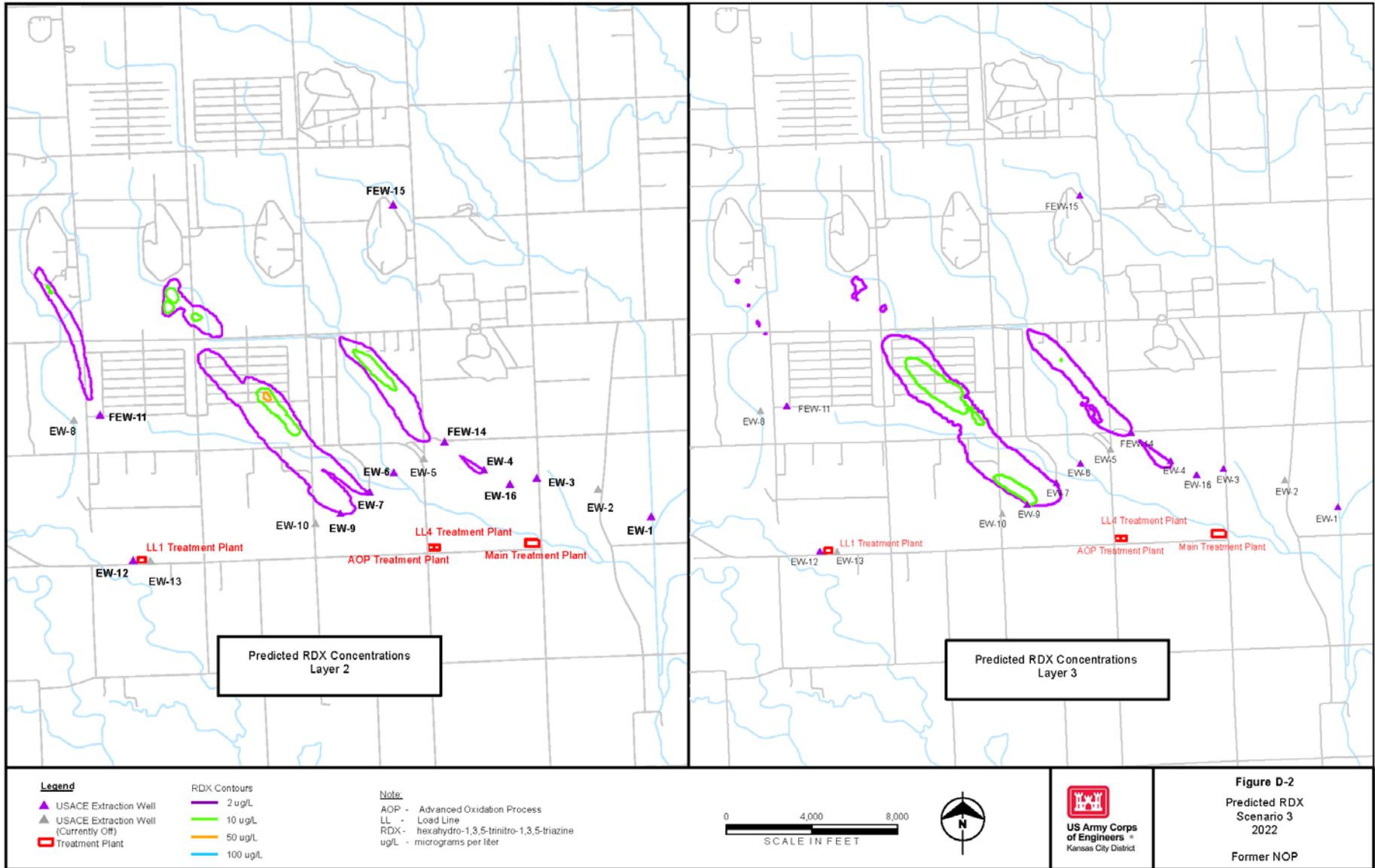
- **Scenario 3 - EW-3, EW-6, and EW-16 Deactivated**
 - Adjustments to EW-4 and FEW-14 pumping rates
 - EW-4 continuous operation
 - FEW-14 increase pumping rate from 190 gallons per minute (gpm) to 250 gpm
 - LL2 and LL3 RDX plumes predicted to remain in hydraulic containment for next 30 years
 - No adverse impact on TCE plumes over 30 years



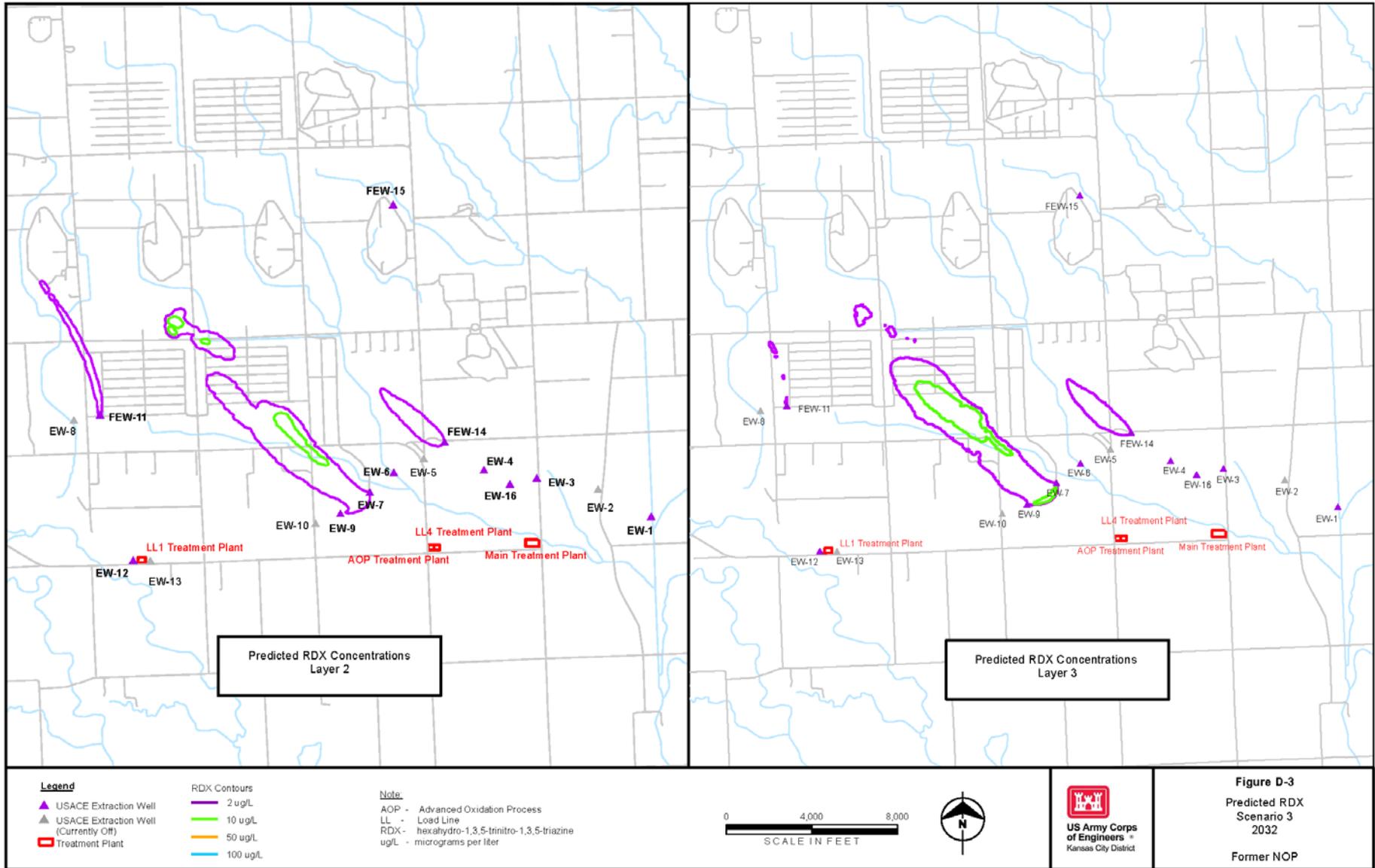
Predicted RDX Plume 2017



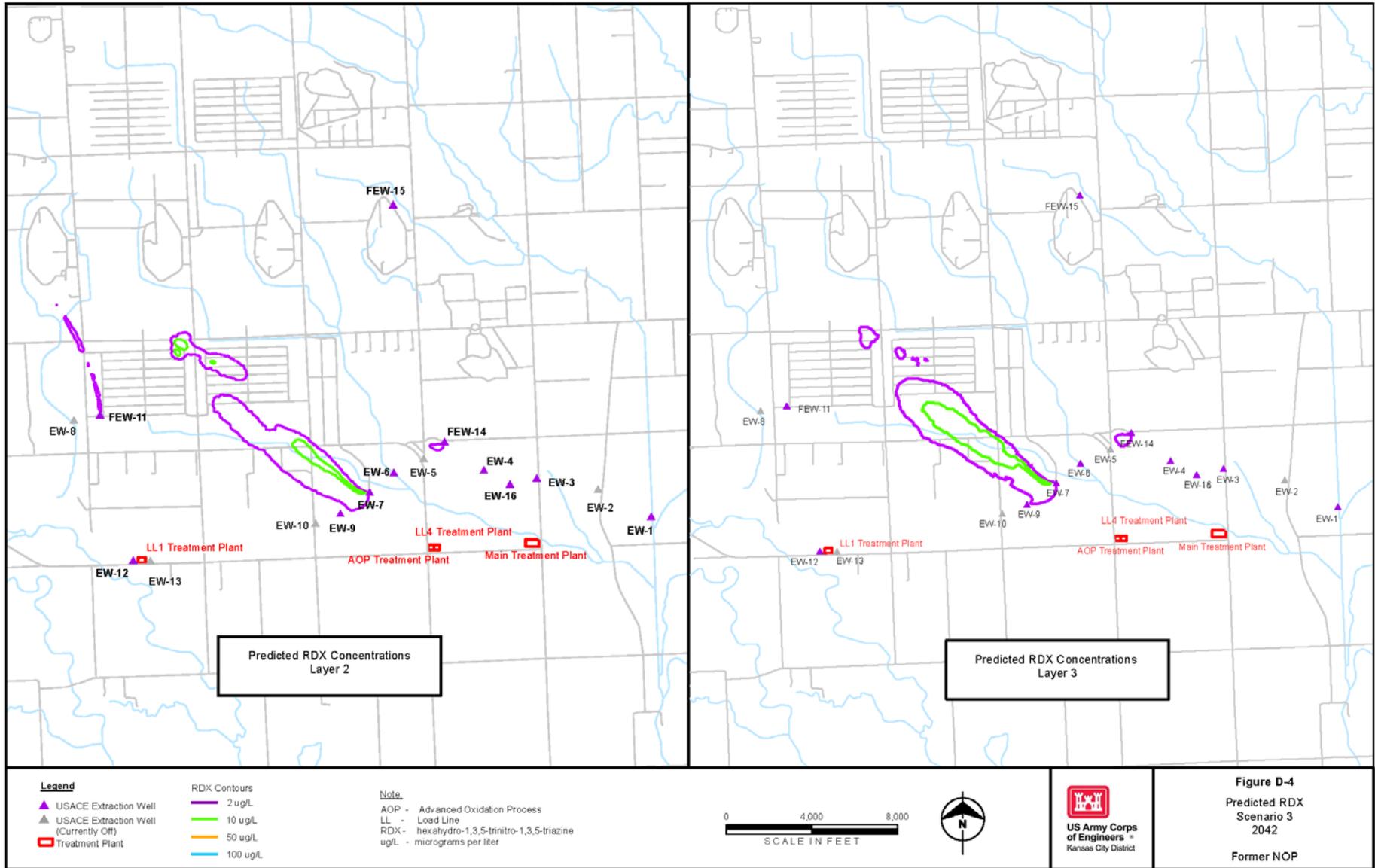
Predicted RDX Plume 2022



Predicted RDX Plume 2032



Predicted RDX Plume 2042



Summary

- Groundwater in the vicinity of EW-3, EW-6 and EW-16 is below Final Target Groundwater Cleanup Goals.
- EW-3, EW-6 and EW-16 are no longer operating as part of the containment system as of January 2, 2013.
- The pumping rate at FEW-14 was increased from 190 gpm to 250 gpm.
- Discontinuing the operation of EW-3, EW-6 and EW-16 and increasing the pumping rate at FEW-14 decreases the total system pumping rate by approximately 400 gpm.
 - Saves energy and conserves groundwater.
- The extraction wells will be left in place in the event that they are needed in the future.



Monitoring Plume Containment

U.S. Army Corps of Engineers will monitor the modified containment system to verify capture through the following:

- Annual evaluation of entire groundwater containment system as part of the yearly Containment Evaluation Report.
- Continued sampling of monitoring wells in the area of EW-3, EW-6, and EW-16.



Questions

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and our Posterity, do ordain
and establish this Con

