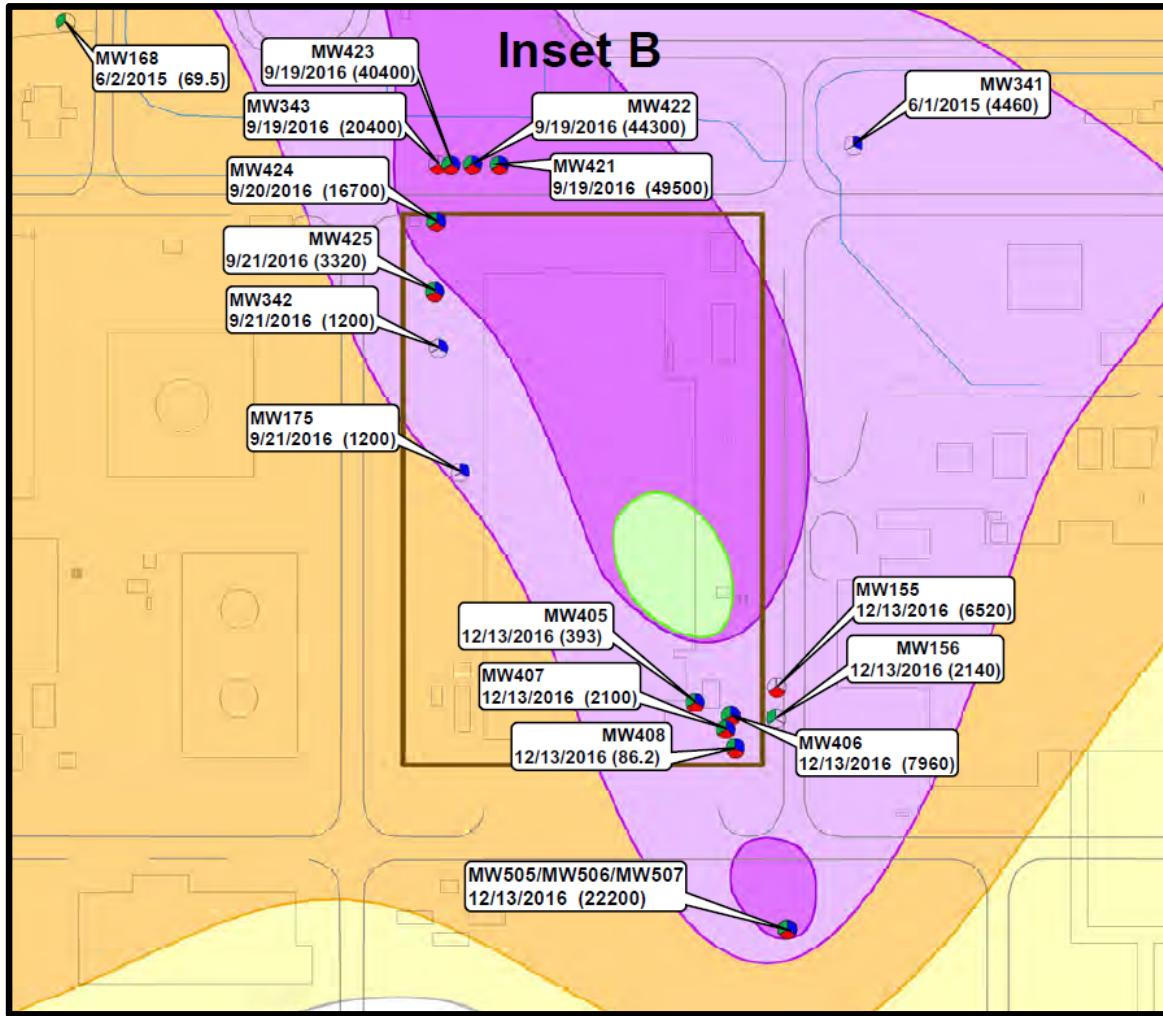




C-400-Wide Groundwater Contamination (Review of 2012-2017 Data)

DRAFT WORKING COPY – FOR DISCUSSION ONLY 6/5/18

2016 TCE Plume in the C-400 Area

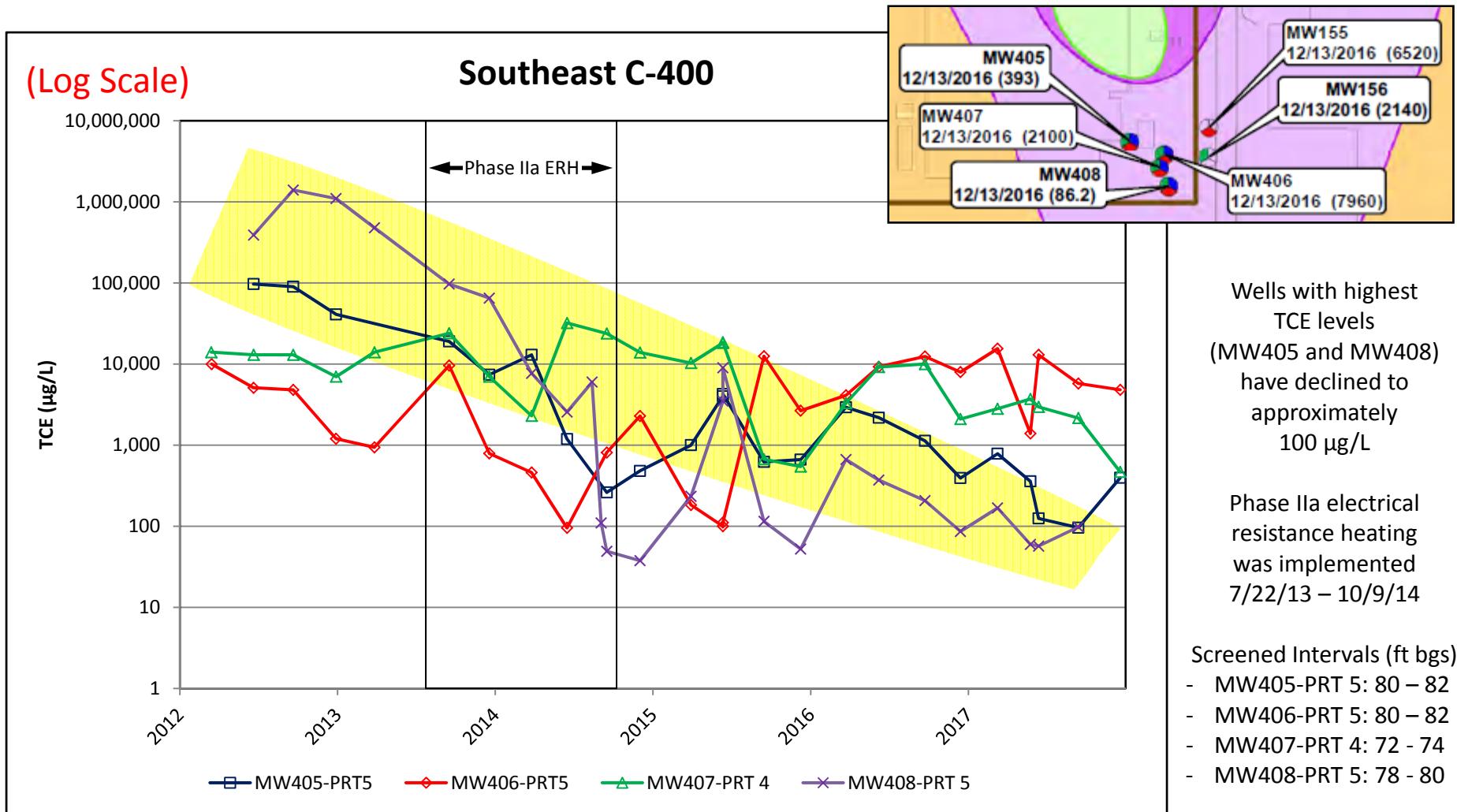


REFERENCE: *Trichloroethene and Technetium-99 Groundwater Contamination in the Regional gravel Aquifer for Calendar Year 2016 at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, FPDP-RPT-0079*

Note: TCE concentrations are in µg/L (ppb)



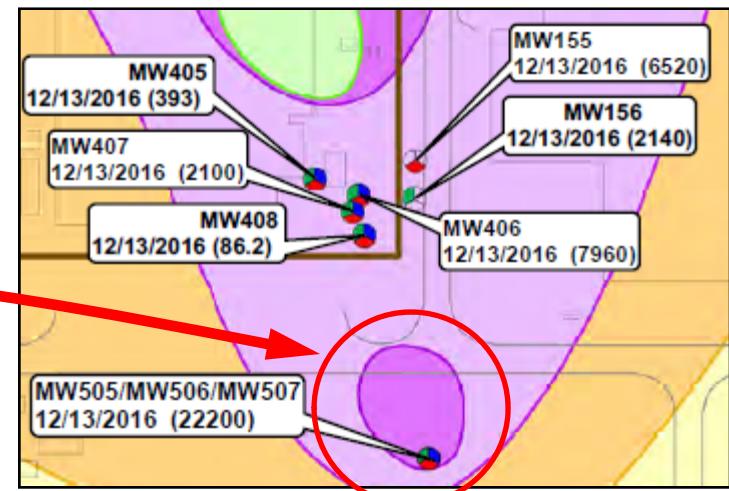
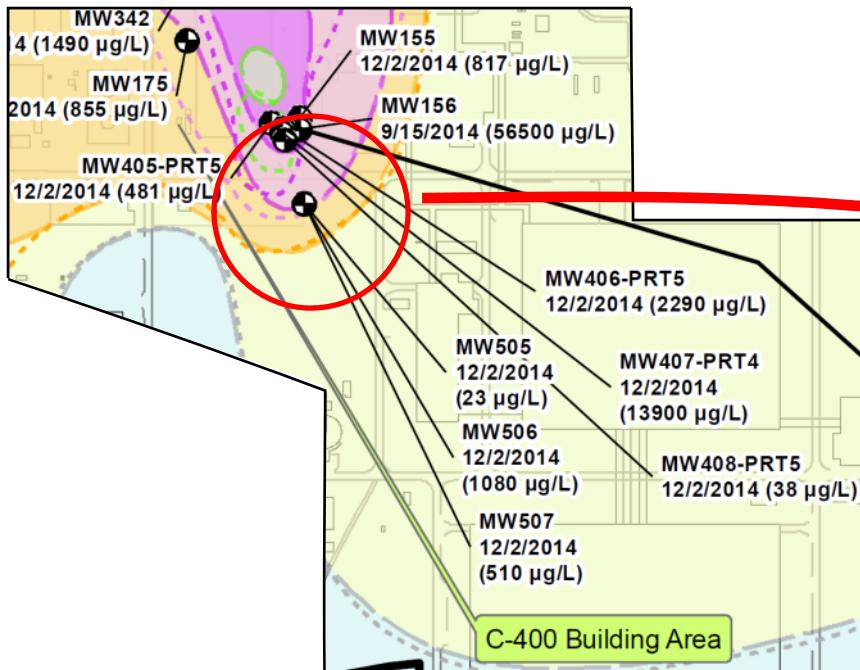
Southeast C-400 TCE Trends: Near-Source Area



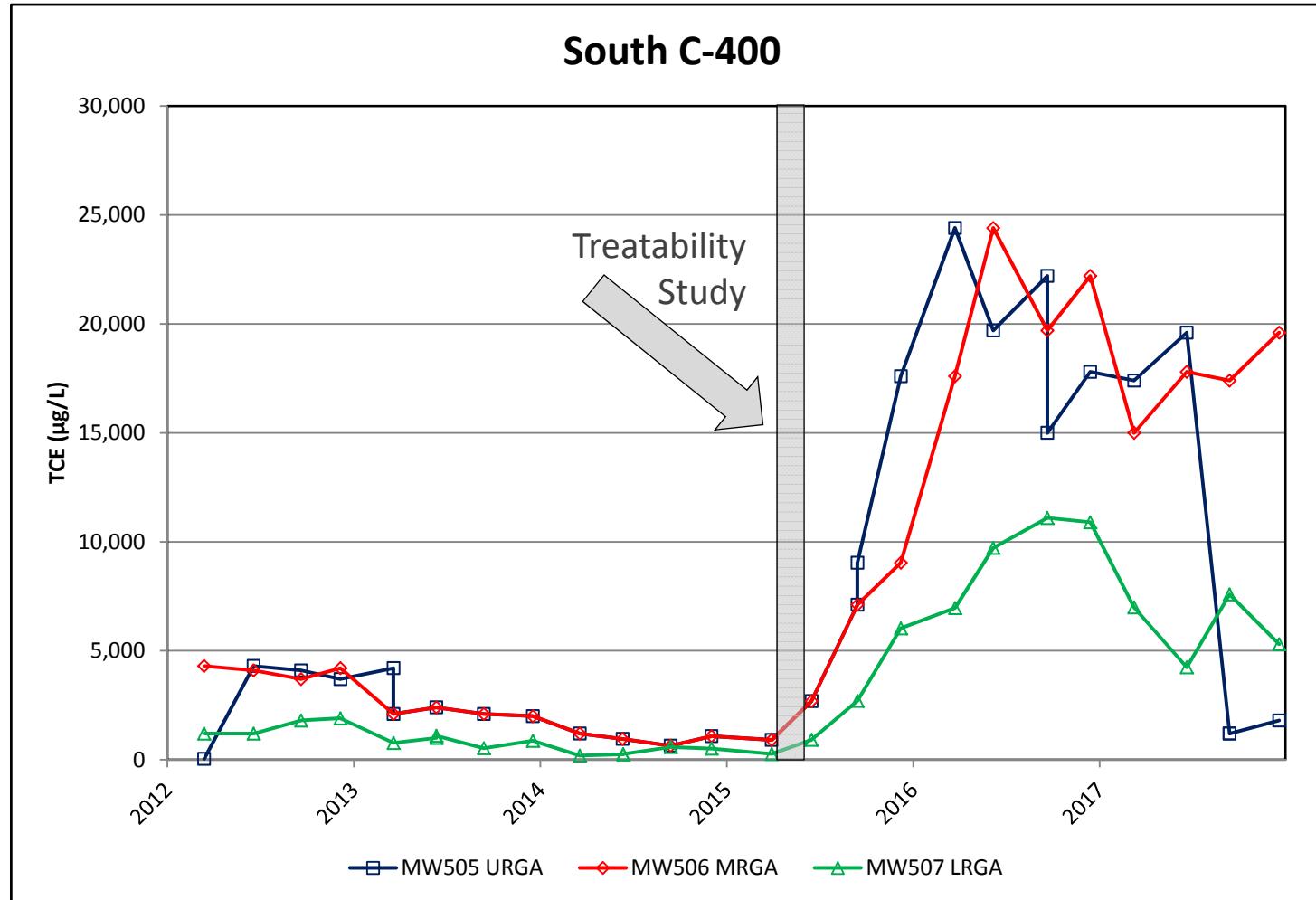
Dissolved Phase Plume Displaced by Steam Treatability Study (April/May 2015)

Calendar Year 2016

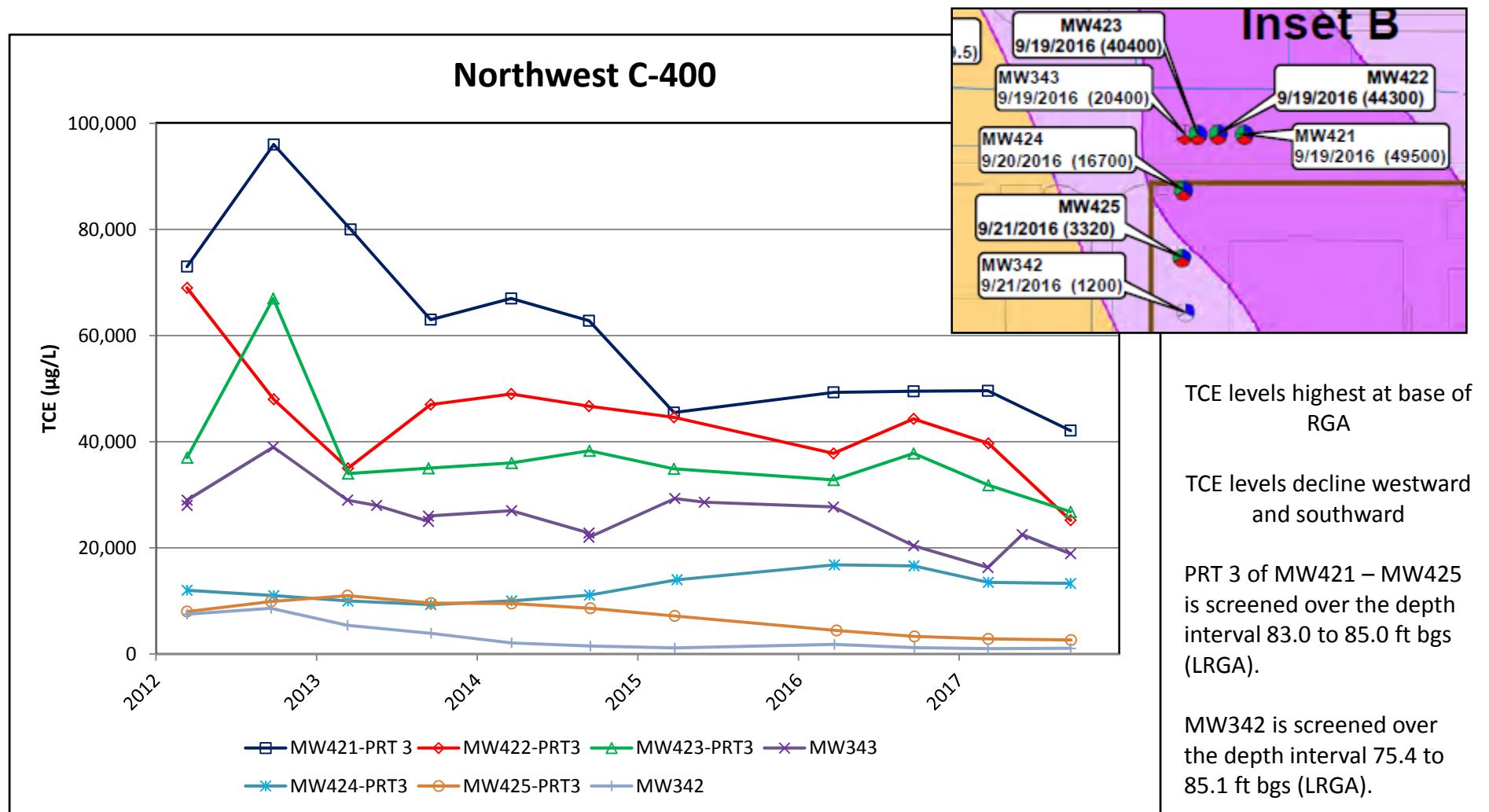
Calendar Year 2014



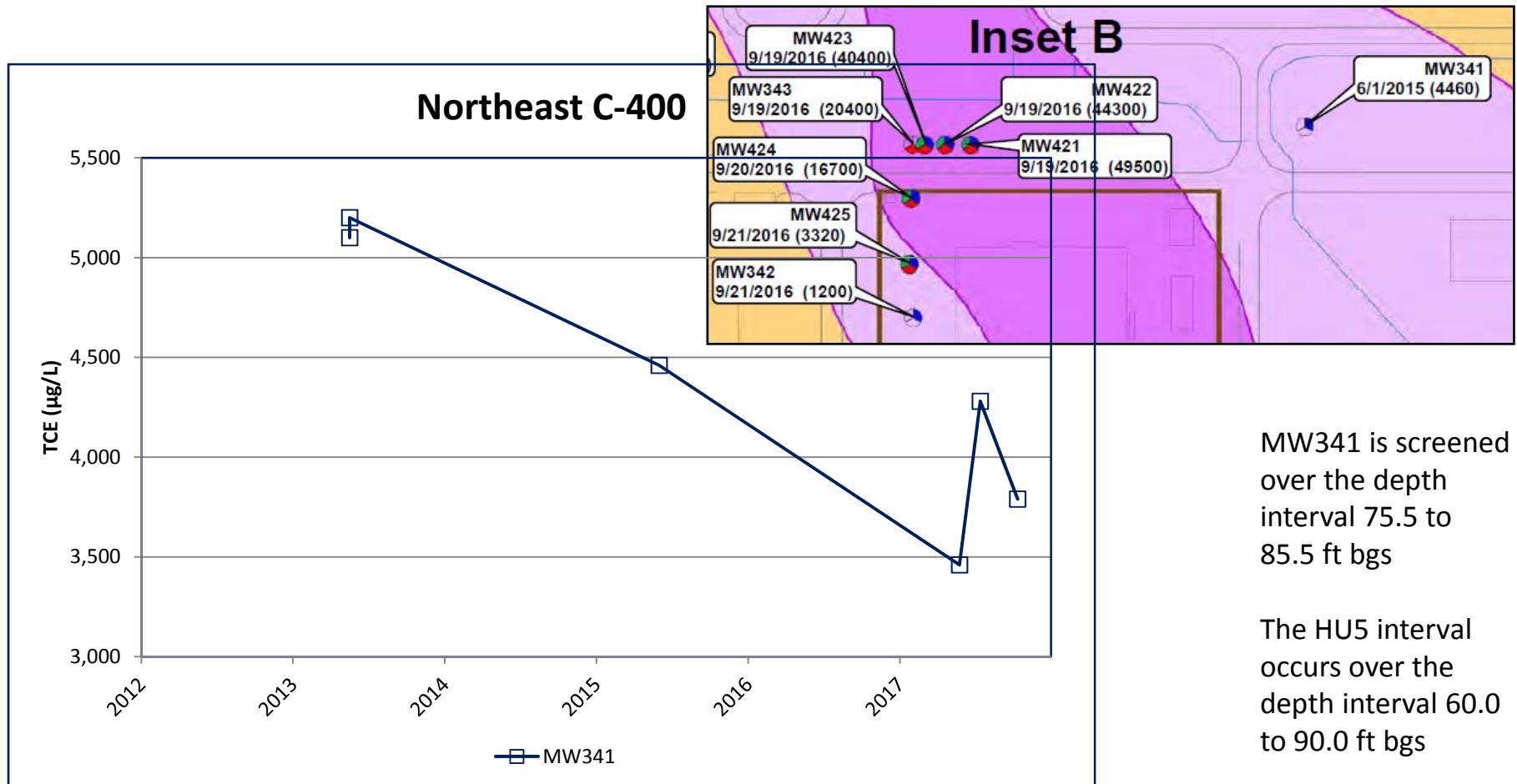
Dissolved Phase Plume Displaced by Steam Treatability Study



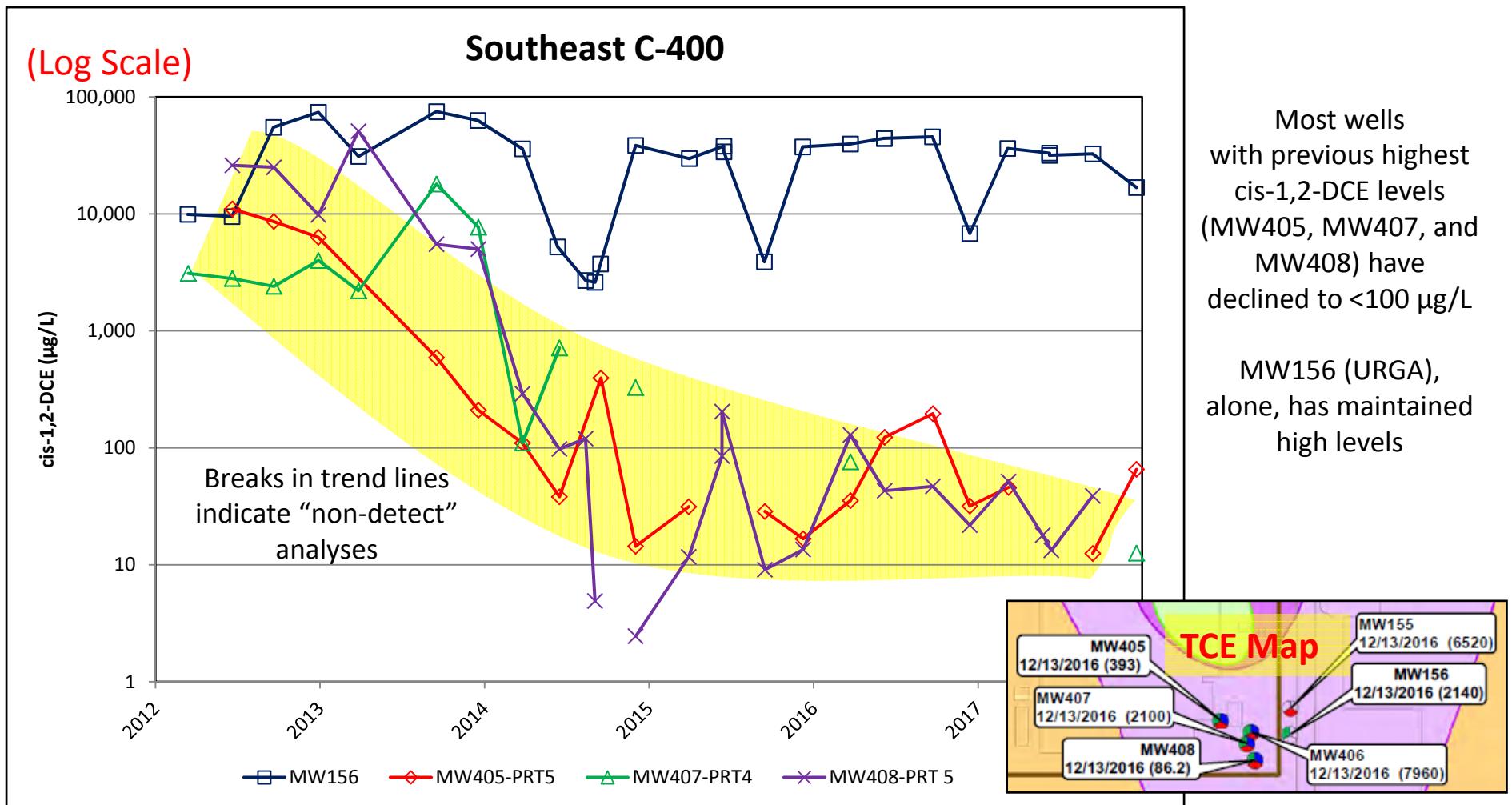
Northwest C-400 TCE Trends: Downgradient Plume



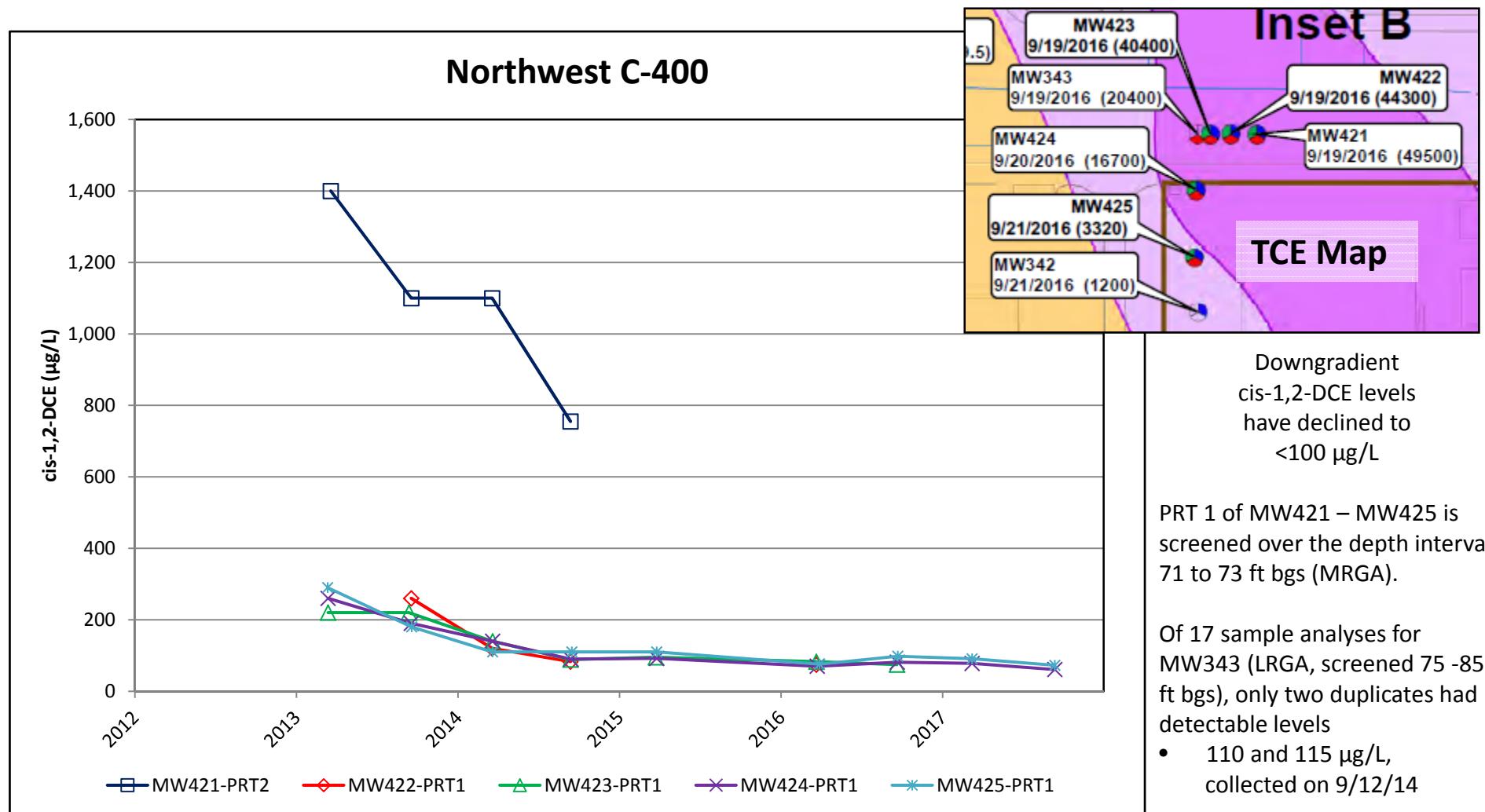
Northeast C-400 TCE Trends: Downgradient Plume



Southeast C-400 cis-1,2-DCE Trends: Near-Source Area



Northwest C-400 cis-1,2-DCE Trends: Downgradient Plume



Other C-400 VOC Analyses

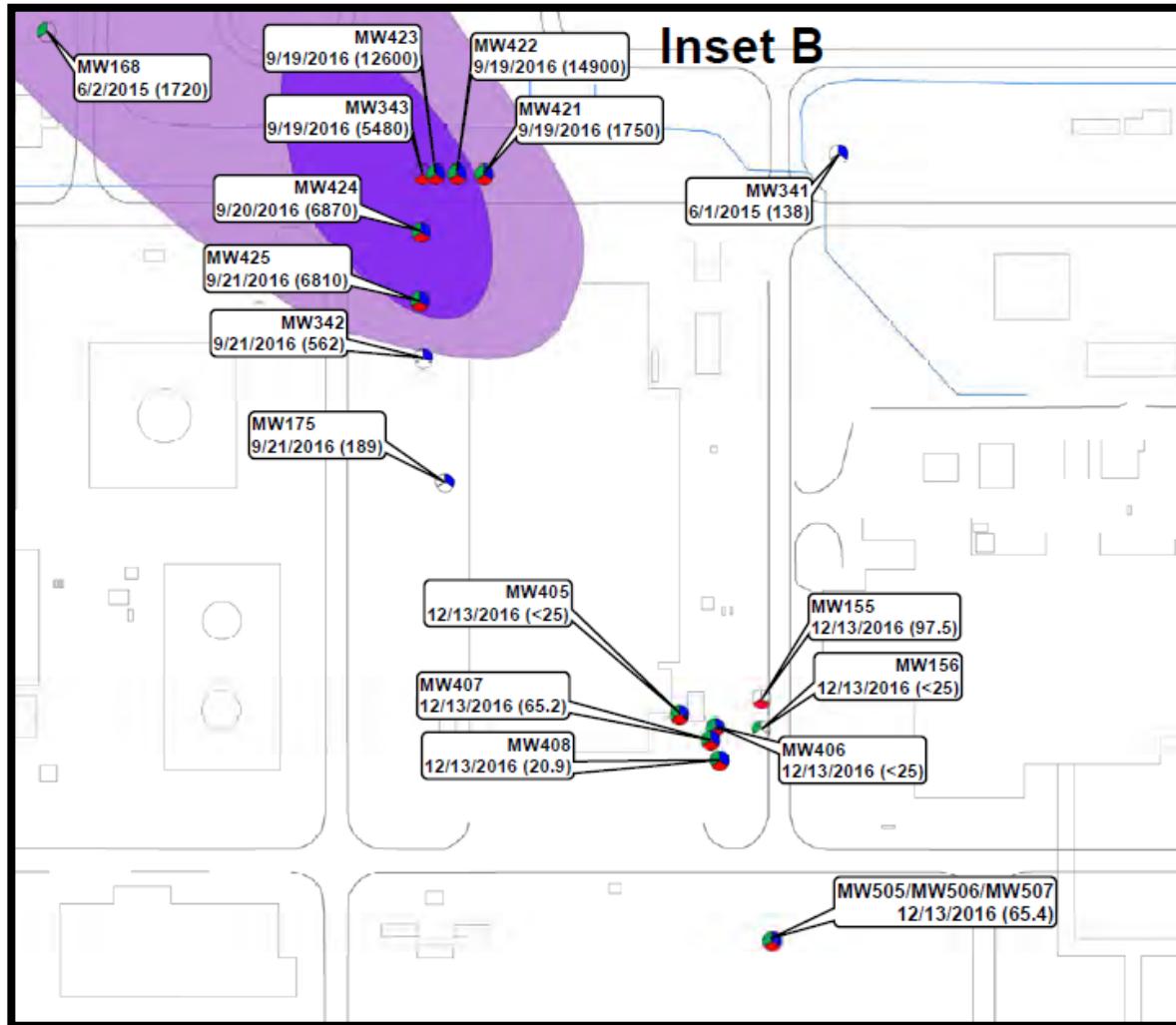
Only other frequent VOC analyses (mostly non-detections) are:

- 1,1-DCE
- trans-1,2-DCE
- Vinyl chloride
 - Only detections (of 419 analyses):
 - 5.09 µg/L in MW156 (9/15/14)
 - 54.3 µg/L in MW156 (12/2/14)
 - 13.5 µg/L in MW156 (12/18/17)
 - 4.07 µg/L in MW406-PRT5 (12/2/14)

Laboratory lower detection limits are often 100 µg/L or greater



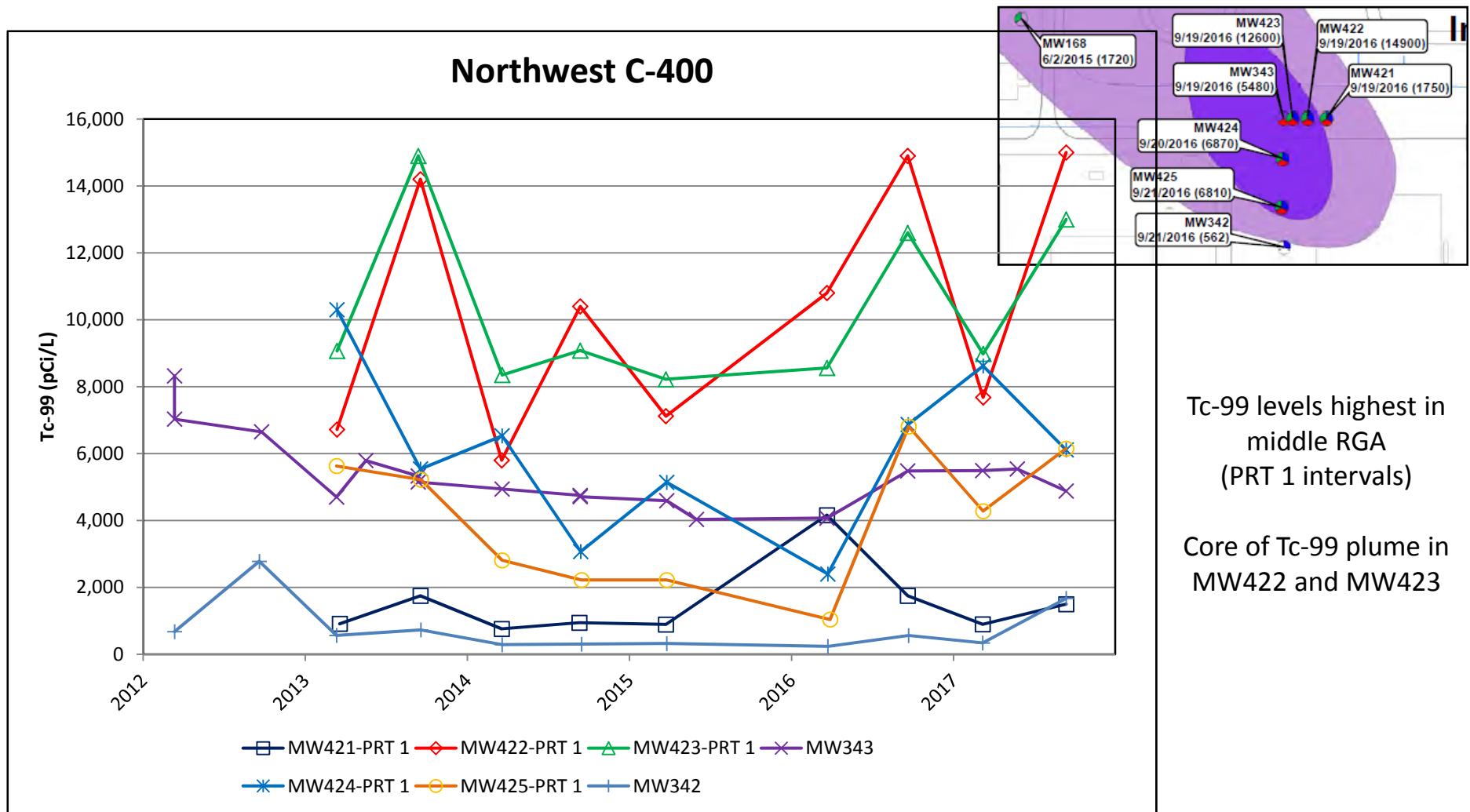
2016 Tc-99 Plume in the C-400 Area



REFERENCE: Trichloroethene and Technetium-99 Groundwater Contamination in the Regional gravel Aquifer for Calendar Year 2016 at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, FPDP-RPT-0079



Northwest C-400 Tc-99 Trends: Downgradient Plume



Northeast C-400 Tc-99 Trends: Downgradient Plume

