Notes:
1. Data from the maximum result sampled 2019-2020.
2. For co-located wells completed at multiple depths, the highest value for the period was mapped.

Ohio River

Inset A

Inset B

See Inset A

See Inset B

TRUE
PLANT
20°

Feet
600 300 0 600 1,200 1,800

LEGEND

2020 Tc-99 Plume Concentration Fields for Alternate Interpretation Using Maximum Concentrations
- 900 - 1,930 pCi/L
- 1,930 - 3,790 pCi/L
- ≥ 3,790 pCi/L

2020 Tc-99 Plume Concentration Fields (Figure C.2)
- 900 - 1,930 pCi/L
- 1,930 - 3,790 pCi/L
- ≥ 3,790 pCi/L

MW139 (5.6U) - Monitoring Well Identification and Sample Value (in pCi/L)
"U" by the sample value indicates the value is reported < minimum detectable activity and/or total propagated uncertainty
Negative results may be reported due to a statistical determination of the counts seen by a detector, minus a background count.

- Lower RGA Well
- Middle RGA Well
- Upper RGA Well
- Multizone RGA Well
- Active Extraction Well
- Inactive Extraction Well
- Water Policy Area
- DOE Property Boundary
- Roadways
- Streams
- 229 Boundary
- PGDP Boundary

U.S. DEPARTMENT OF ENERGY
PORTSMOUTH / PADUCAH PROJECT OFFICE
PADUCAH GASEOUS DIFFUSION PLANT

FOUR RIVERS NUCLEAR PARTNERSHIP, LLC

MAP SOURCE INFOMATION
Map Generation Date and Location - Geosyntec\knoxville-01\data\PROJECTS\Paducah_FRNP\2020 Plume Maps\MXD\Fig_A2_2020PlumesTc99_MAXR1_2021.mxd, 6/3/2021
Layers: Monitoring Well Layer Location: Geosyntec\knoxville-01\data\PROJECTS\Paducah_FRNP\2020 Plume Maps\SHP\2019-2020_Tc99-MAX.shp
2020 Tc-99 Plume Concentration Fields : Geosyntec\knoxville-01\data\PROJECTS\Paducah_FRNP\2020 Plume Maps\SHP\Tc99_Above_3790.shp, Tc99_Above_1930.shp, Tc99_900-3790.shp
2020 Maximum Tc-99 Plume Concentration Layer Location: Geosyntec\knoxville-01\data\PROJECTS\Paducah_FRNP\2020 Plume Maps\SHP\2020_Tc99_MAX_All_Plumes.shp
Active Extraction Well, Inactive Extraction Well, Water Policy Area, DOE Property Boundary, Roadways, Streams, 229 Boundary, and PGDP Boundary from PEGASIS; downloaded 3/16/2021

Figure A.2. 2020 Tc99 Plume–Regional Gravel Aquifer Alternate Interpretation Using Maximum Values