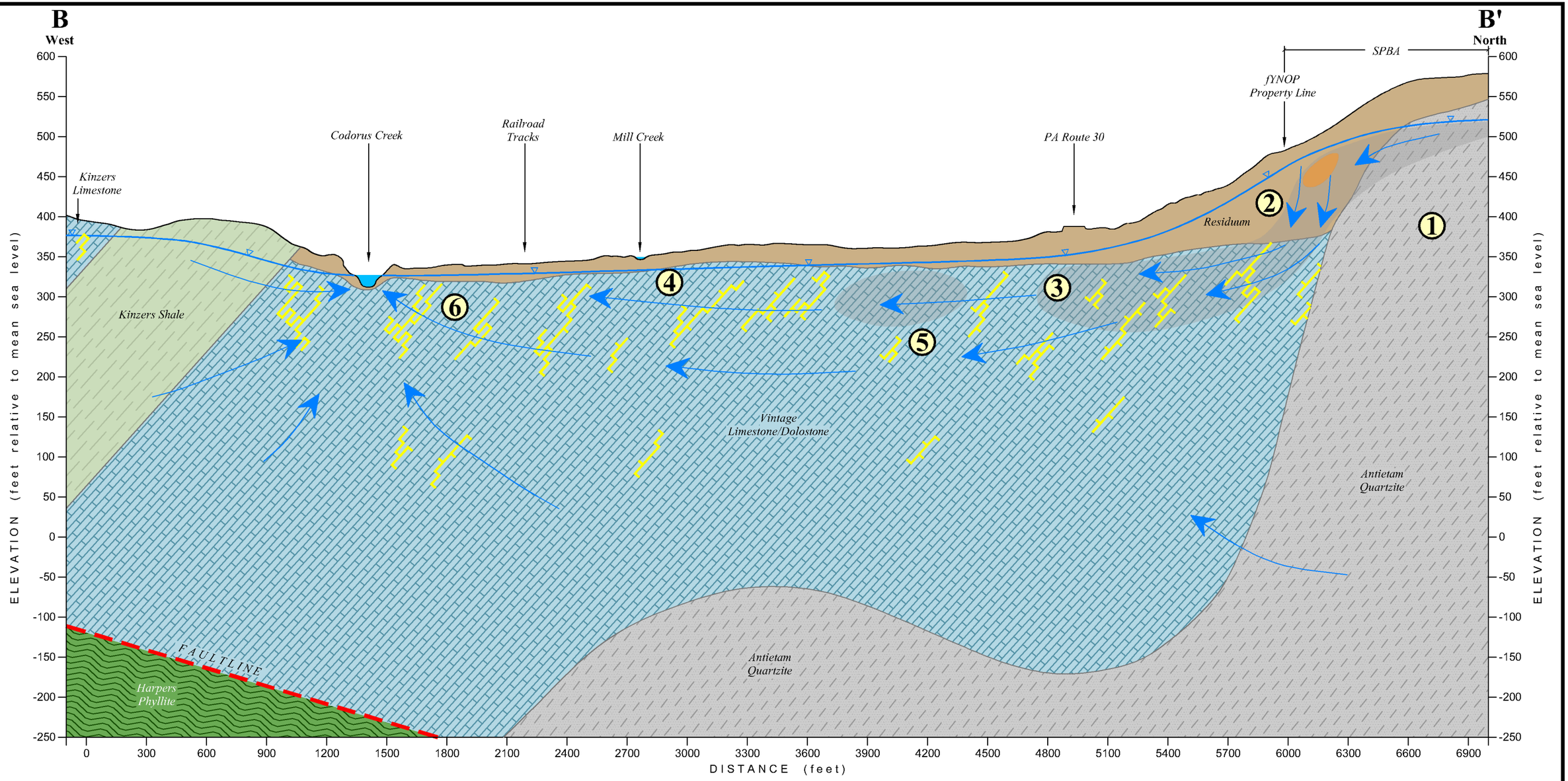

NOTES

1. Area north of and up-gradient of the South Property Boundary Area (SPBA) is underlain by quartzitic sandstone. Groundwater migrates southward toward the southern fYNOP property line, carrying Site-related COCs .
2. Underlying the SPBA is solution-prone carbonate aquifer. Due to the hydraulic conductivity contrast between the aquifers, localized groundwater flow from the low hydraulic conductivity quartzitic sandstone aquifer is directed vertically downward through the unconsolidated materials to the underlying highly permeable carbonate aquifer.
3. In the carbonate aquifer, groundwater flow is towards the southwest beneath Rt. 30, and then migrates westward toward Codorus Creek.
4. Mill Creek, a tributary to Codorus Creek that parallels the south side of Rt. 30 in this area, is a losing stream most of the year, and does not receive groundwater from the carbonate aquifer.
5. Lateral extent of COCs (TCE and PCE) is limited to 500 to 700 feet south of Rt. 30.
6. Groundwater from the SPBA eventually discharges to Codorus Creek. Site related COCs are not detectible in the migrating groundwater.

LEGEND

- Solution Channels (Conceptualized)
- Water Table
- Generalized Net Direction of Groundwater Flow
- Residual DNAPL (Chlorinated Hydrocarbons)
- Dissolved Chlorinated Hydrocarbons Partitioning From DNAPL Sources
- Dissolved Chlorinated Hydrocarbons Migrating with Groundwater (Advection)

Approximate Horizontal Scale
0 500'

Approximate Vertical Scale
0 125'

Vertical Exaggeration 4x

Figure 4.0-4
(revised 1/18/2018)

Former York Naval Ordnance Plant
1425 Eden Road, York, PA 17402

Conceptual Site Model
Cross Section B-B'
South of Site

DRAWN BY: JPB	CHECKED & APPROVED BY: SMS	DATE: 7/14/2016

Q:\10000\10012\Data\CAD\10012CS06.dwg

GROUNDWATER SCIENCES CORPORATION