

## High Level Scope of Work – Groundwater Upgradient of Kaiser

### *Compile all upgradient monitoring well details to validate no on-site impacts*

- Five Kaiser monitoring wells
  - Location (latitude/longitude)
  - Boring logs
  - Well construction details
  - Soil chemistry analyses for PCB and TPH

### *Validate all PCB Method 1668 data and compile all monitoring data for shallow aquifer wells where EPA Method 1668 data collected*

- Five Kaiser upgradient monitoring wells
- Fourteen Kaiser river area monitoring wells
- Twenty-one Kaiser on-site monitoring wells
- Data collection
  - Depth to water
  - EPA Method 1668 data for PCB
  - Conventional parameters
    - Temperature, pH, Specific Conductivity, Dissolved Oxygen, Turbidity, ORP

### *Evaluate the efficacy of three potential approaches:*

- Compile all existing information on monitoring wells upgradient of the Kaiser site upgradient monitoring wells for potential groundwater contour mapping and sampling for the purpose of identifying any potential significant source contribution with existing infrastructure
  - Location (latitude/longitude)
  - Ownership
  - Construction details (screened interval)
  - Top of casing elevation (surveyed)
  - Existing water chemistry and elevation information
- Conduct an evaluation of the applicability of the City of Spokane/Spokane Aquifer joint Board Microfem well head protection model for mapping out groundwater source areas upgradient of Kaiser's upgradient well locations for potential significant source contribution locations and/or monitoring well installation and sampling
  - Can the well head protection model provide a sufficient level of detail for establishing upgradient groundwater flow patterns for identifying source areas and/or monitoring well locations needs
  - What data input needs are required for applying the model for the mapping of upgradient flow patterns if current information does not provide a sufficient level of detail
- Assess the level of effort required for and the likelihood of success in being able to determine PCB flux rates for smaller river sub-segments between Barker Road and Plantess Ferry Park by conducting river transects at multiple locations so that source contribution zones can be identified, quantified, and prioritized for follow-up activity