

Steigerwald Wellfield Environmental Review

City Council Workshop

August 17, 2015



Steigerwald Wellfield Process

- Long-Term Water Source
- Current draft Agreement with Washougal
 - Property Only
 - Water rights not included in this agreement
 - Water right application turned in – 2006
 - Have not started DOE process to obtain
 - Washougal purchases property from Port on a 10-year contract
 - Camas pays Washougal 60% of annual cost
 - Camas receives rights to use property, jointly or separately from Washougal
 - Future Agreements and Process

Steigerwald Wellfield Process

- Process Timeline
 - Secure property (current draft agreement)
 - Water System Plan Update (currently in process)
 - Obtain water rights through Department of Ecology (DOE) – likely a multi-year process
 - Water System Plan Update (minimum every 6 years)
 - “Third Phase” Agreement with Washougal
 - Details of how we develop site, how Camas gets water, etc.
 - Feasibility and Preliminary Design
 - Final Design
 - Construction

Environmental Review

- Updated the prior environmental review of the Industrial Park that was completed in 2007
- Three sites continue to be of concern
 - **Exterior Wood**
 - **TrueGuard, LLC** (formerly Allweather Wood Treaters, Inc.)
 - **Philip Services Corporation** (formerly Burlington Environmental)
- All three sites listed as confirmed contaminated sites with DOE



- ① Philip Services Corporation (formerly Burlington Environmental)
 - ② Exterior Wood Parcels
 - ③ TrueGuard LCC (Formerly Allweather Wood Treaters, Inc.)
 - Steigerwald Wellfield Parcel
- Test Wells



Figure 1
Study Area

Environmental Review

- Summary
 - Documented contaminants released at each site
 - Migration and mobility of contaminants extremely limited
 - Groundwater impacts have been well characterized at each site
 - Contaminant impacts are limited to shallow groundwater depths
 - Proposed Wellfield located approximately 1.5 miles from the environmental sites
 - Proposed Wellfield will withdraw water from over 100-feet below a confining silty clay layer
 - Measures to correct sources of contamination are on-going and with time the sites will be remediated.

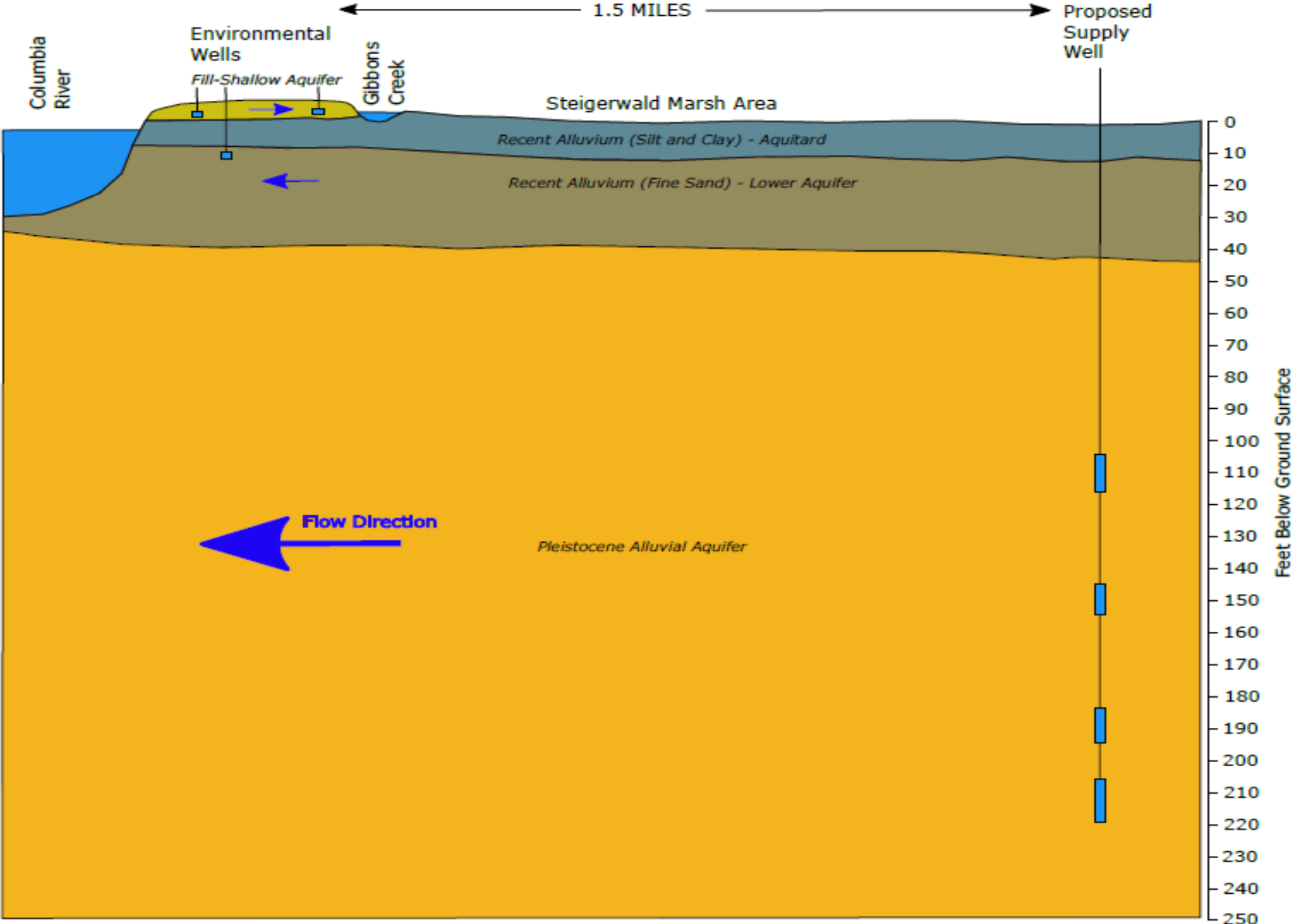


Figure 2. Conceptualized Hydrogeologic Cross Section through Steigerwald Marsh Area

Exterior Wood Details

- 1995 documented release of contaminants
 - Arsenic, Chromium and Copper
- Contaminants limited to onsite shallow groundwater (20 feet or less)
- Shallow groundwater gradients towards the north to Gibbons Creek Remnant Channel
- Contaminants do not appear to be migrating off-site
- Status with DOE
 - Listed as a State Cleanup Site
 - Will conduct an on-site hazardous assessment to determine if further action is required to characterize contamination (next couple years)
 - Perform additional remedies as needed

TrueGuard Details

- Release of contaminants prior to 2007
 - Arsenic and other priority metals
- Contaminants limited to onsite shallow groundwater (3 - 20 feet)
- Shallow groundwater gradients flow towards east to southeast towards the Steigerwald Marsh
- Contaminants centrally located on the site
 - Concentrations decrease dramatically at property boundaries
- Status with DOE
 - Site registered through the Voluntary Cleanup Program
 - Since 2008, have been completing Pilot Studies to identify appropriate remediation technologies
 - Ecology meeting with TrueGuard in near future to see how Pilot Studies have been going

Philip Services Corporation Details

- Mid 1980s - release of contaminants
 - Chlorinated Ethenes, 1,4-Dioxane, and Arsenic
- Contaminants limited to onsite shallow groundwater (upper 46 feet)
- Shallow groundwater gradients flow towards east to the Steigerwald Marsh
- Lower aquifer gradient flows southward toward Columbia River
- Contaminants in shallow aquifer extend slightly offsite to the east

Philip Services Corporation Details

- Contaminants in the lower aquifer confined to on-site
- Status with DOE
 - State Cleanup Site
 - On-going corrective actions
 - Remedial Investigation and Feasibility Studies completed
 - Preferred remedies identified
 - DOE reviewing

Summary

- Migration and mobility of contaminants at all three sites extremely limited
- Groundwater impacts have been well characterized
- Contaminant impacts are limited to shallow groundwater depths
- Both horizontal and vertical distance to Wellfield substantial
- Little risk in moving forward with Land Purchase
 - Will review Environmental Constraints again before developing wells on site.