

in the western part of the Upper TSA through ongoing extraction well operation and potential source area evaluations for elevated TCE concentrations near BOP-22(ds). These and other recommendations for the remedy are presented below.

5.2 RECOMMENDATIONS FOR REMEDY OPERATION

This subsection presents operational recommendations for the 2007-2008 reporting period for both the pilot shutdown and operating extraction wells and systems. These recommendations have been previously proposed to and approved by DEQ, as cited in the discussions below.

5.2.1 PILOT SHUTDOWN WELLS AND SYSTEMS

5.2.1.1 Ongoing Shutdown of EW-5, EW-7, EW-9, and EW-19

Pilot shutdown wells EW-5, EW-7, EW-9, and EW-19 will remain offline during the 2007-2008 reporting period, consistent with the pilot shutdown water quality criteria, which apply for a minimum of 2 years, as summarized in Appendix A.

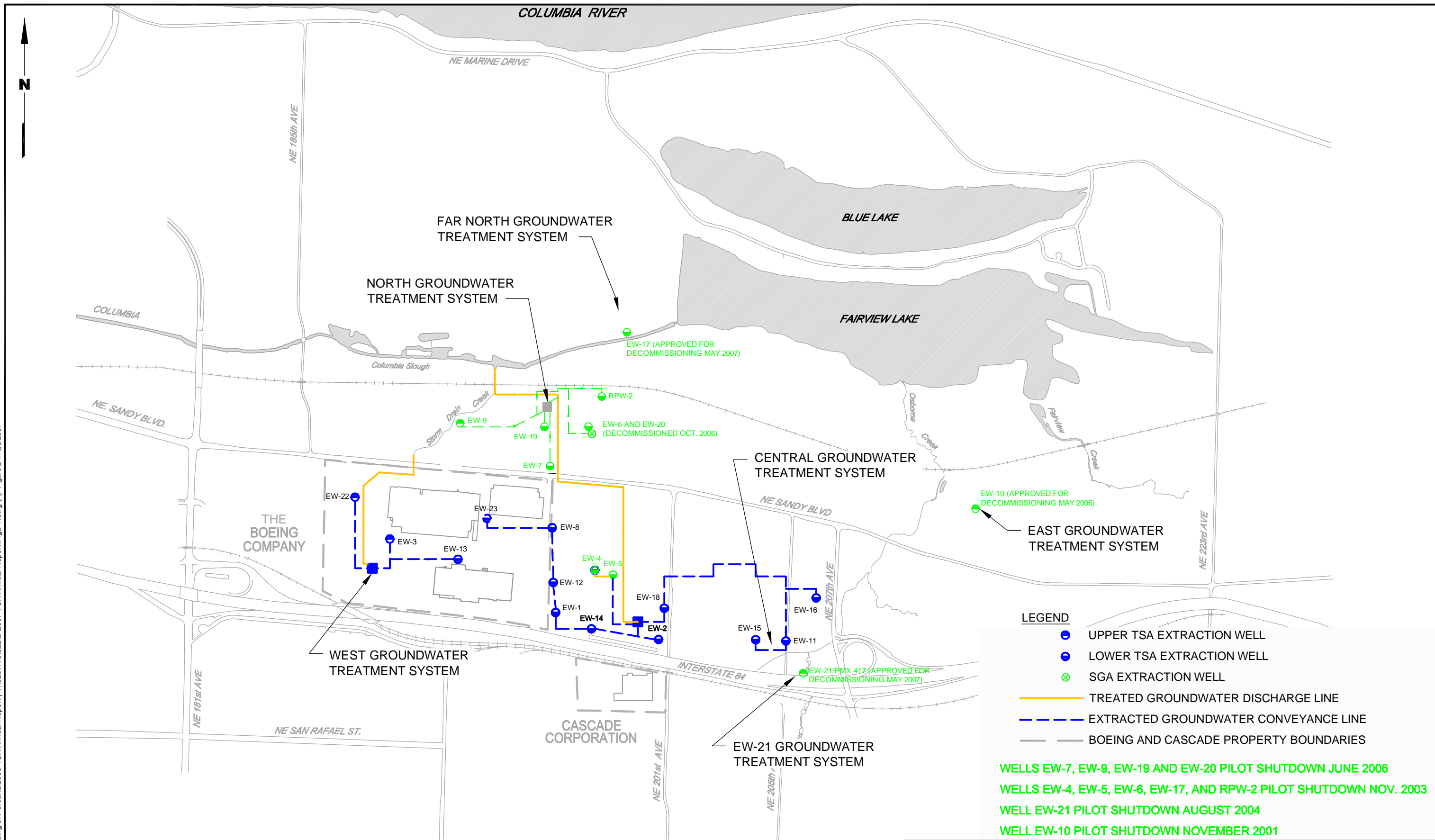
While EW-5 has been offline for over 2 years, TCE concentrations have occasionally risen above the MCL on non-consecutive sampling events. The well was converted to a monitoring well and the conveyance line was removed to accommodate development of Cascade's North Property as approved by DEQ (DEQ 2007e). TCE has remained consistently below the MCL since August 2006 and, per the extraction well decommissioning criteria (see Appendix A), this well will be eligible for decommissioning consideration in August 2008, if concentrations remain below the MCL.

TCE concentrations in EW-7, EW-9, and EW-19 have remained consistently below the MCL since pilot shutdown began in June 2006. These three NTS wells will be eligible for decommissioning consideration in June 2008, provided TCE concentrations remain below the MCL. The City of Gresham anticipates removing the EW-9 conveyance line during its stormwater holding pond construction project during 2007. As a contingency measure, the currently unused FNTS low-profile air-stripper will be available for installation should resumed EW-9 pumping be required. This conceptual approach was approved by DEQ in its May 21, 2007 email (DEQ 2007g).

5.2.1.2 Proposed Pilot Shutdown of EW-8

Lower TSA extraction well EW-8 is located in restoration Zone C and currently operates at approximately 6 gpm. The well was installed in June 1997 and quarterly sample results indicate TCE concentrations have remained below the MCL since February 2006. The well is currently located outside

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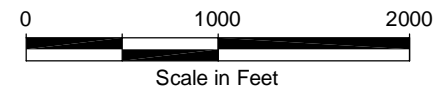


LEGEND

- UPPER TSA EXTRACTION WELL
- LOWER TSA EXTRACTION WELL
- ⊗ SGA EXTRACTION WELL
- TREATED GROUNDWATER DISCHARGE LINE
- - - EXTRACTED GROUNDWATER CONVEYANCE LINE
- BOEING AND CASCADE PROPERTY BOUNDARIES

WELLS EW-7, EW-9, EW-19 AND EW-20 PILOT SHUTDOWN JUNE 2006
 WELLS EW-4, EW-5, EW-6, EW-17, AND RPW-2 PILOT SHUTDOWN NOV. 2003
 WELL EW-21 PILOT SHUTDOWN AUGUST 2004
 WELL EW-10 PILOT SHUTDOWN NOVEMBER 2001

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 PEGASUS GEOSCIENCE



TSA Remedial Action
 East Multnomah County,
 Oregon

**Revised TSA Remediation
 System Layout**

Figure
2-4