

ENCLOSURE 2

RECLAMATION PLAN FOR REMOVAL OF BLOCK VALVES

Enclosure 2

Yellowstone Pipe Line Company

Horizontal Directional Drill Under The Spokane River at MP 1.3

Reclamation Plan for Removal of Existing Block Valves

November 4, 2015

This information is being provided to clarify the methods and materials to be involved in the removal of the two existing block valves within the 200 foot shoreline zone on both sides of the river. This issue was discussed briefly at the interagency meeting at the Spokane City Hall on October 13, 2015.

The removal of the block valves cannot be done until the new section of pipeline is in place and tied in to the existing pipeline. Once that occurs, the out-of-service block valves will be removed. The approximate 50 x 50 foot work area will be fenced with temporary chain link for safety and security purposes, and sediment barriers (silt fence or straw wattles) will be installed on the inside of the perimeter fence. The block valve hardware and enclosure will be disconnected, dismantled and hauled away. Excavators will be used to remove the existing gravel which will be hauled off or reused at the new BV site.

The space vacated by the removal of the BV hardware and gravel pad will be replaced by using imported clean gravel and topsoil. The disturbed area will be graded to match the surrounding topography. The disturbed area will be roughened with the excavator or with hand tools. An upland seed mix will be applied (either by broadcast or drill seeding methods) as recommended by the Dept. of Ecology, BMP C120: Temporary and Permanent Seeding in Chapter 7 of the Construction Storm Water General Permit:

Table 7.3.3
Permanent Seed Mixes: upland areas that receive 12–15" precipitation

Common Name	Mixtures (lbs/ac)*		
	A	B	C
bluebunch <u>or</u> beardless wheatgrass (N)		8	
pubescent wheatgrass (I)			7
indian ricegrass (sandy or sandy loam soils)(N)	2		
thickspike wheatgrass (N)	7		2
sheep fescue (I)		1	2
basin wildrye (N)		1	
TOTAL	9	10	11
<u>Seeds/sq ft/mixture</u>	<u>53</u>	<u>63</u>	<u>49</u>
*Expressed as Pure Live Seed (PLS) (N) = native plant species (I) = introduced, non-native plant species			

After seeding, the area will be mulched with weed free straw and crimped to prevent it from being blown away.

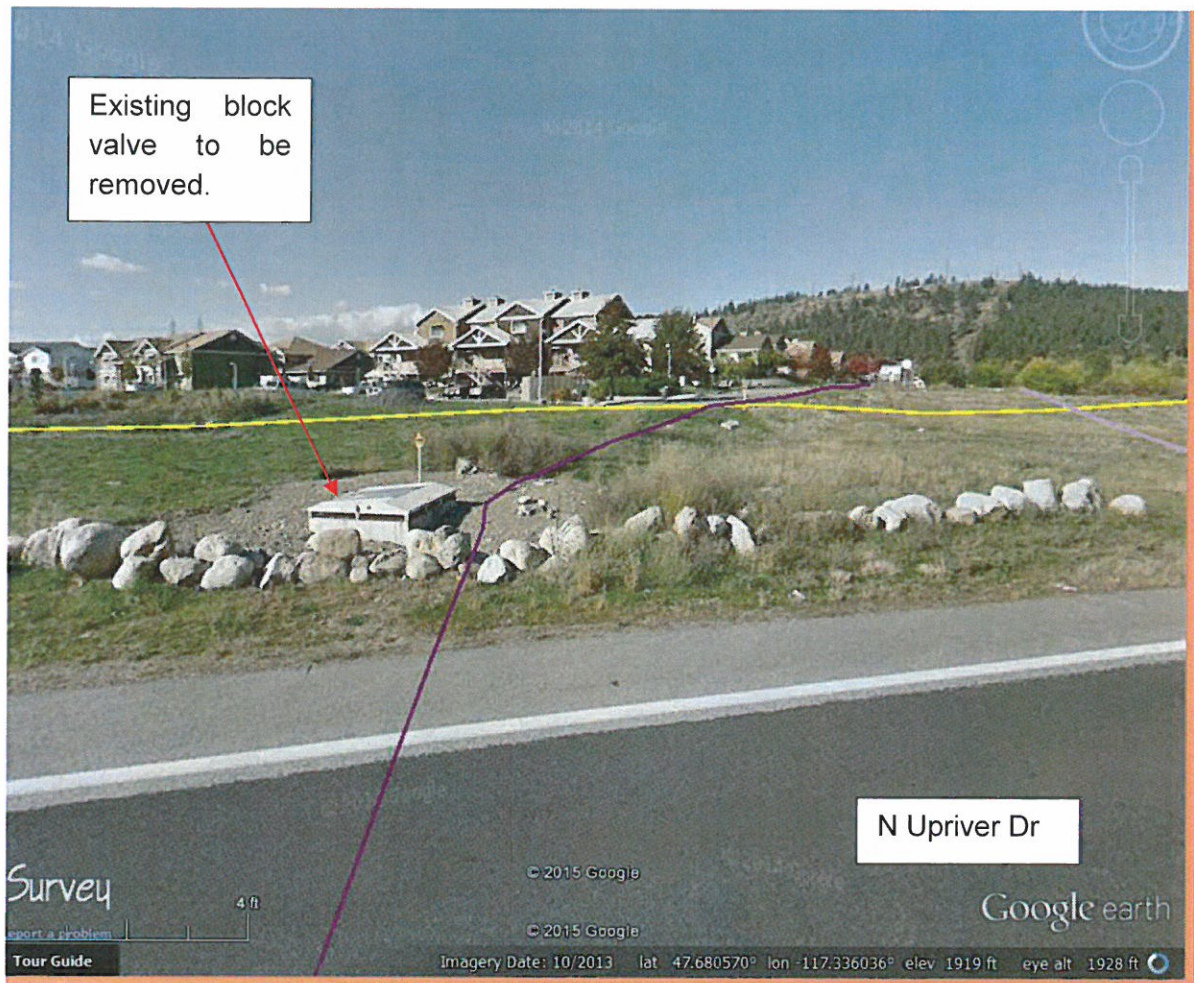


Photo 1. Photos courtesy Google Earth Street View, looking north. Dark purple line is the approximate location of the existing pipeline. The yellow line is the approximate location of the pipe laydown area. The small block valve structure in the foreground will be removed and disturbed areas revegetated.



Photo 2. Existing block valve on the south side of the river to be removed, looking northeast. Photo by Terracon Consultants, Inc.

The south side block valve will be removed in the same manner as the north BV. The existing fence will be utilized for safety and security. Sediment control BMPs (silt fence or straw wattles as recommended in the SWPPP) will be installed. The block valve structure and housing will be demolished, and hauled away. The gravel pad will be removed and the space vacated by the removed material will be filled with clean gravel and topsoil. The same seeding method will be used on the south side; roughening the soil, broadcast or drill seeding, applying straw mulch and crimping the mulch.

The disturbed areas will be monitored as required in the Storm Water Pollution Prevention Plan, until final stabilization is achieved. Weed treatment, should it become necessary, will be conducted, by a professional applicator, licensed in the State of Washington.