



April 23, 2019

Lauren Hollenbeck
City of Camas Community Development
616 NE 4th Avenue
Camas, WA 98607

Lacamas Creek Sewer Pump Station Project Amendment Letter | City of Camas, WA

Dear Lauren,

Ecological Land Services, Inc. (ELS) has prepared this letter detailing amendments to the Lacamas Creek Pump Station project (SHOR19-01). While the project has not changed, one portion of the sewer alignment south of NE 3rd Avenue has been moved as a part of Phase I of the project. This amendment will result in a slight increase in temporary impacts to the Lacamas Creek buffer and will occur within shoreline jurisdiction of Lacamas Creek. This letter addresses that change and provides critical areas maps depicting the temporary impacts resulting from this alignment change south of NE 3rd Avenue. This letter provides the following items:

- Project description detailing the location of the proposed sanitary sewer line;
- Revised site plan (Sheet 8) detailing total temporary impact locations and amounts and the portion of the project in shoreline jurisdiction; and
- Restoration measures to restore sewer re-alignment to pre-impact conditions.

The proposed sewer alignment amendment will occur within shoreline jurisdiction of Lacamas Creek; despite this change, the project remains consistent with the goals and policies of the Camas Shoreline Master Program, as the amendment will not obstruct shoreline use or reduce ecological function of shorelines.

Project Description for Sanitary Sewer Pipe Amendment

Approximately 295' of 8" sanitary sewer pipe will be constructed under and south of NE 3rd Avenue, between the Lacamas Creek Trailhead parking lot and an existing sewer line that runs along the top of the creek bank on the south side of 3rd Avenue. This sewer pipe is needed to intercept sewer flows from the area south of NE 3rd Avenue (which currently drain to the existing pump station) and carry them to the new pump station.

The crossing under NE 3rd Avenue includes 105' of new sewer pipe inside a steel casing pipe. A cased sewer pipe is proposed to be constructed under NE 3rd Avenue using a trenchless jack-and-bore construction method. Trenchless construction under NE 3rd Avenue will avoid several issues that would be encountered with open-trench construction including traffic impacts/detours, a very deep pipe trench excavation, and numerous crossings of existing utilities. To construct the cased sewer pipe, a 15' x 55' jacking pit will be excavated in the parking lot area north of NE 3rd Avenue for inserting the casing and carrier pipes, and a 10' x 10' receiving pit will be excavated on the south side of NE 3rd Avenue. From the south side of NE 3rd Avenue the proposed sewer pipe will be trenched, tunneled and/or bored in a southwesterly direction (in the bank above Lacamas Creek) to connect into the existing sewer.

On the south side of NE 3rd Avenue, the proposed pipe will be aligned to avoid impacts to trees. Site specific requirements during construction of the pipe trench will be employed to ensure damages to the tree root systems are avoided. These requirements include the presence of a certified arborist on site during trench excavation, protective measures around the trees, and tunneling or boring the new sewer beneath the tree roots.

Restoration Measures

The sewer re-alignment south of NE 3rd Avenue will result in 378 square feet of additional temporary impacts to the Lacamas Creek riparian buffer and will occur within shoreline jurisdiction of Lacamas Creek. No trees are proposed for removal in the amended project area; in fact, the sewer alignment south of NE 3rd Avenue was designed to specifically avoid the removal of large trees or Oregon white oaks. Following sewer line construction, the area will be reseeded with lawn grasses where the proposed sewer line intersects residential yards to be cohesive with surrounding land use and vegetation, and reseeded with native seed mix elsewhere. As no trees will be removed for this amendment to the project and herbaceous species will be re-established following construction, it is ELS opinion that no additional mitigation is required for the proposed project amendment.

If you have any questions, please feel free to contact me at sarah@eco-land.com or call (360) 578-1371.

Sincerely,

A handwritten signature in blue ink, appearing to read "Sarah Fitzpatrick".

Sarah Fitzpatrick
Biologist

Enclosures

Sheet 8

Proposed Conditions Lacamas Creek South

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PURPOSE: Construct new pump station and replace pipeline elsewhere	PROPOSED CONDITIONS: LACAMAS CK. SOUTH	PROPOSED: In-water infrastructure removal
DATUM: NAD83	APPLICANT: Wallis Engineering	IN Lacamas Creek
ADJACENT PROPERTY OWNERS:	PROJECT NAME: Lacamas Creek Sewer Pump Station	NEAR: Camas
	REFERENCE #: Not Yet Assigned	COUNTY: Clark
	SITE LOCATION ADDRESS:	STATE: WA
		SHEET 8 OF 9
		DATE: 4/23/19

1157 3rd Ave., Suite 220A
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SCALE IN FEET

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