Staff Report
October 7, 2024 Council Workshop Meeting

PSA for Environmental Permitting Boulder Creek Dam/Intake
Presenter: Rob Charles, Utilities Manager
Time Estimate: 5 minutes

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BACKGROUND: Last year council approved two contracts with Shell Engineering to design improvements to the area around the Boulder Creek Intake and aid in erosion on the bank that has been occurring around the dam for several years. The intent of the project was to maintain the capacity of the intake, which has decreased over time due to build up of debris around the intake. The original project assumed that an abbreviated permitting process would be required due to fish not being able to swim upstream of fish barriers downstream of the dam.

During the permitting process, Washington Department of Fish and Wildlife (WDFW) provided updated fish surveys showing that steelhead make their way to the dam, triggering a permit with the Army Corps of Engineers (ACOE). This permitting process will primarily deal with mitigation measures in any area where a contractor is working below the Ordinary High Water Mark (OHWM) of the creek. The timeline with for the ACOE permit typically takes between 18 months to 2 years to complete.

SUMMARY: Ecological Land Services is proposing to aid the city in permitting with the ACOE, WDFW, and the Department of Ecology for the proposed work.

① Concrete dam tied-in to bedrock channel.

② 3" x 10" timber flashboard set atop dam.

③ Drain intake leading to 10" pipe

④ Chain link screen surrounding intake

⑤ Sediment deposits upstream of dam

⑥ Access platform

⑦ Metal guardrail in channel downstream of dam, presumed from eroded bank.

Figure 1: Photo of existing dam and intake structure from downstream of dam looking upstream
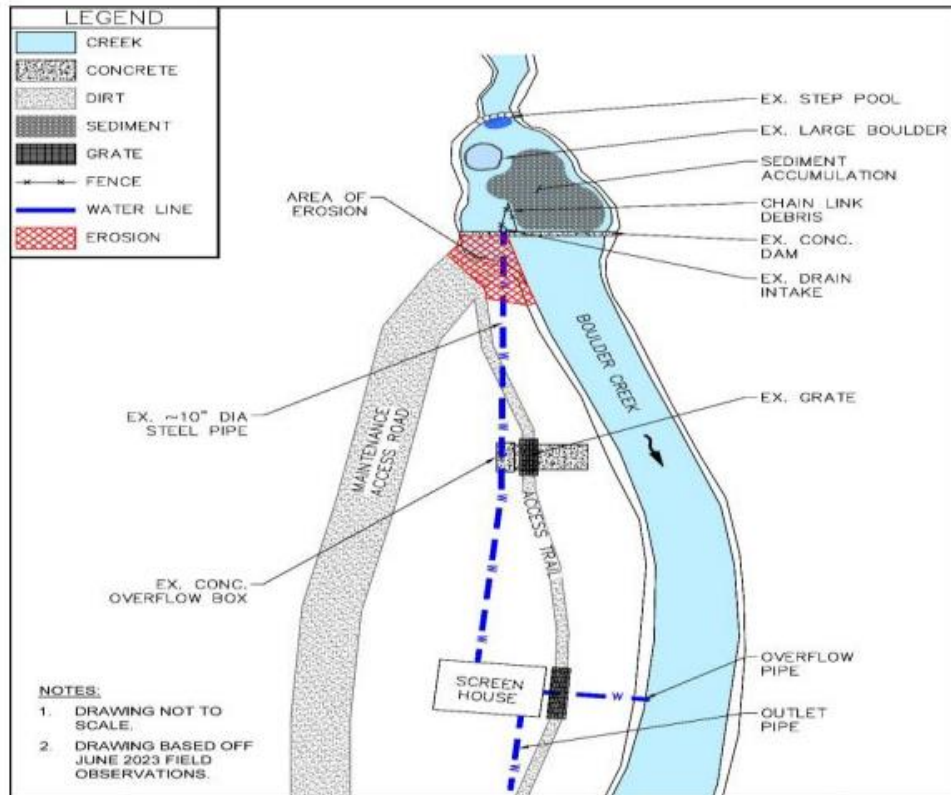

LEGEND

CREEK	
CONCRETE	
DIRT	
SEDIMENT	
GRATE	
FENCE	
WATER LINE	
EROSION	

EX. STEP POOL
EX. LARGE BOULDER
SEDIMENT ACCUMULATION
CHAIN LINK DEBRIS
EX. CONC. DAM
EX. DRAIN INTAKE

AREA OF EROSION

BOULDER CREEK

EX. GRATE

MAINTENANCE ACCESS ROAD

ACCESS TRAIL

EX. ~10" DIA STEEL PIPE

EX. CONC. OVERFLOW BOX

OVERFLOW PIPE

SCREEN HOUSE

OUTLET PIPE

NOTES:
1. DRAWING NOT TO SCALE.
2. DRAWING BASED OFF JUNE 2023 FIELD OBSERVATIONS.

Figure 2: Vicinity map of Boulder Creek water intake structure

BENEFITS TO THE COMMUNITY: Ability to fully utilize the water rights granted along Boulder Creek for the City's Water Treatment Plant serving water to city customers.

BUDGET IMPACT: The cost for the services is $25,500 and there are sufficient funds in water to cover this expense.

RECOMMENDATION: Staff recommends that this item be placed on the October 21st Council Regular Agenda for Council's consideration.