Mountains to Sound Greenway Trust

nhc northwest hydraulic consultants

The Watershed Company

SCALE - 1:1,250

50 25 0 50 100 150 ft

Coordinate System: NAD 1983 STATEPLANE WASHINGTON NORTH FIPS 4601 FEET

N

Job: 2002182 | Date: 1-April-2019

Lower Issaquah Creek Restoration at Lake Sammamish State Park Conceptual Design

Reach 1

Extent of Survey and Hydraulic Model

0

500

1000

1500

2000

Existing Boardwalk Trail

Constructed Distributary Channel

Small natural berm along right bank seperates channel from large low-elevation wetland area; opportunity to construct pilot channel and increase wetted area.

Limit of easy left bank construction access

Existing Pedestrian Bridge

Reach 2

Reach 1

Lowest Alluvial Bar (sandy)

Existing Parking Area

Design Elements

- Apex Jam
- Large Spur Jam
- Small Spur Jam
- Log Jack
- Single Piece
- Excavation

Design elements shown are for illustration purposes only. Exact locations, orientation and quantities to be determined during further stages of design.

Field Observations

- Geomorphic Feature
- Existing LWM Jam
- Existing LWM
- Pebble Count Location
- Trail
- Improved Path
- Erosion
- Erosion (Part Stabilized)
- Revetment

Existing Tree Canopy Height

- 40-70 ft
- 70-100 ft
- >100 ft

Depth and Elevation Relative to 2-yr Water Surface

Depth (ft): 13-14, 12-13, 11-12, 10-11, 9-10, 8-9, 7-8, 6-7, 5-6, 4-5, 3-4, 2-3, 1-2, <1

Relative Elevation (ft): <1, 1-2, 2-3, 3-4, 4-5, 5-6, 6-7, 7-8, 8-9, 9-10, 10-11, 11-12, 12-13, 13-14, 14-15, 15-16, 16-17, 17-18, >18

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Lower Issaquah Creek Restoration at Lake Sammamish State Park

Conceptual Design

Reach 2

Design Elements

- Apex Jam
- Large Spur Jam
- Small Spur Jam
- Log Jack
- Single Piece
- Excavation

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Field Observations

- Geomorphic Feature
- Existing LWM Jam
- Existing LWM
- Pebble Count Location
- Trail
- Improved Path
- Erosion
- Erosion (Part Stabilized)
- Revetment

Existing Tree Canopy Height

- 40-70 ft
- 70-100 ft
- >100 ft

Pebble Count 1

Small LWM Jam

Isolated Gravel Bar

Lowest Alluvial Bar (sandy)

Large LWM Jam Behind Channel-Spanning Cottonwood

Site of Large Meander Cutoff Avulsion in 1990s.

Approximate Gravel to Sand Transition

Pilot Channel

Stormwater Ditch

Existing Parking Area

Reach 1

Reach 2

Reach 3

2000

2500

3000

3500

4000

Depth and Elevation Relative to 2-yr Water Surface

Depth (ft): 13-14, 12-13, 11-12, 10-11, 9-10, 8-9, 7-8, 6-7, 5-6, 4-5, 3-4, 2-3, 1-2, <1

Relative Elevation (ft): <1, 1-2, 2-3, 3-4, 4-5, 5-6, 6-7, 7-8, 8-9, 9-10, 10-11, 11-12, 12-13, 13-14, 14-15, 15-16, 16-17, 17-18, >18

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Field Observations

- Geomorphic Feature
- Existing LWM Jam
- Existing LWM
- Pebble Count Location
- Trail
- Improved Path
- Erosion
- Erosion (Part Stabilized)
- Revetment

Existing Tree Canopy Height

- 40-70 ft
- 70-100 ft
- >100 ft

Design Elements

- Apex Jam
- Large Spur Jam
- Small Spur Jam
- Log Jack
- Single Piece
- Excavation

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Lower Issaquah Creek Restoration at Lake Sammamish State Park Conceptual Design

Reach 3

Bank Scraping to Initiate Lateral Migration.

Bank Scraping to Initiate Lateral Migration.

Pilot Channel

4500

Pebble Count 2

4000

Site of Large Meander Cutoff Avulsion in 1990s.

Approximate Gravel to Sand Transition

Reach 3

Reach 2

3500

3000

Stormwater Ditch

Small LWM Jam

Medium LWM Jam

5500

Location of Meander Cutoff Avulsion Between 2013 and 2015

Reach 3

Reach 4

5000

Channel-Spanning LWM Jam

Depth and Elevation Relative to 2-yr Water Surface

Depth (ft): 13-14, 12-13, 11-12, 10-11, 9-10, 8-9, 7-8, 6-7, 5-6, 4-5, 3-4, 2-3, 1-2, <1

Relative Elevation (ft): <1, 1-2, 2-3, 3-4, 4-5, 5-6, 6-7, 7-8, 8-9, 9-10, 10-11, 11-12, 12-13, 13-14, 14-15, 15-16, 16-17, 17-18, >18

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Field Observations

- Geomorphic Feature
- Existing LWM Jam
- Existing LWM
- Pebble Count Location
- Trail
- Improved Path
- Erosion
- Erosion (Part Stabilized)
- Revetment

Existing Tree Canopy Height

- 40-70 ft
- 70-100 ft
- >100 ft

Count 2

Large Backwater Pool in Abandoned Oxbow

Small LWM Jam

Medium LWM Jam

5500

Location of Meander Cutoff Avulsion Between 2013 and 2015

Reach 3

Reach 4

5000

Channel-Spanning LWM Jam

Lake Sammamish State Park Boundary

Pebble Count 3

6500

Optional Pilot channel

Optional Spur Jams (bury below water table)

6000

Remove Riprap Revetment

Upstream limit of revetment not determined in field.

Design Elements

- Apex Jam
- Large Spur Jam
- Small Spur Jam
- Log Jack
- Single Piece
- Excavation

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Depth and Elevation Relative to 2-yr Water Surface

Depth (ft): 13-14, 12-13, 11-12, 10-11, 9-10, 8-9, 7-8, 6-7, 5-6, 4-5, 3-4, 2-3, 1-2, <1

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Reach 4

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