



US Army Corps  
of Engineers  
Seattle District



# Joint Public Notice

## Application for a Department of the Army Permit and a Washington Department of Ecology Water Quality Certification and/or Coastal Zone Management Consistency Concurrence

### US Army Corps of Engineers

Regulatory Branch  
Post Office Box 3755  
Seattle, WA 98124-3755  
Telephone: (360) 764-1171  
ATTN: Steve Manlow,  
Project Manager

### WA Department of Ecology

SEA Program  
Post Office Box 47600  
Olympia, WA 98504-7600  
Telephone: (360) 407-6068  
ATTN: SEA Program,  
Federal Permit Coordinator

**Public Notice Date:** March 27, 2013

**Expiration Date:** April 26, 2013

**Reference No.:** NWS-2012-1373

**Name:** Longview, City of (Lake  
Sacajawea Flushing)

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Interested parties are hereby notified that the U.S. Army Corps of Engineers (Corps) and the Washington Department of Ecology (Ecology) have received an application to perform work in waters of the United States as described below and shown on the enclosed drawings dated December 13, 2012.

The Corps will review the work in accordance with Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act. Ecology will review the work pursuant to Section 401 of the CWA, with applicable provisions of State water pollution control laws.

**APPLICANT:** City of Longview, Engineering Department  
Attention: Mr. Jeff D. Cameron, P.E.  
P.O. Box 128  
Longview, Washington 98632  
Telephone: (360) 442-5221

**AGENT:** Ecological Land Services, Inc.  
Attention: Mr. Timothy J. Haderly  
1157 3<sup>rd</sup> Avenue, Suite 220  
Longview, Washington 98632  
Telephone: (360) 578-1371

**LOCATION:** In the Cowlitz River at River Mile 5.17, immediately east of 101 Fishers Lane and adjacent to the Westside Highway, in the City of Longview, Cowlitz County, Washington.

**WORK:** The proposed work is to modify an existing water intake structure located in the Cowlitz River for use as a pump station to supply up to 6,000 gallons per minute of water to Lake Sacajawea. Work will include abandoning the existing low-head pump house, installing vertical-mounted fish screens on the intake structure, suction dredging up to 5,000 cubic yards of sediment annually in front of the intake structure, installing a temporary cofferdam around the dredge area, and disposing of the dredged material in the river approximately 100 feet downstream of the intake structure.

**PURPOSE:** To provide a water source for improving water quality in Lake Sacajawea.

NWS-2012-1373, Longview, City of (Lake Sacajawea Flushing)

DREDGED MATERIAL MANAGEMENT PROGRAM (DMMP):

Dredged Material Testing: The proposed dredged material has been tested according to the procedures specified by DMMP, a multi-agency program for the evaluation of dredged material proposed for disposal at open-water sites in Washington State. The DMMP evaluations may include both chemical and biological testing of sediments. For this project, the DMMP agencies determined that the 5000 cubic yards to be dredged initially are suitable for unconfined disposal at the DMMP nondispersive (or dispersive) open-water disposal site in the Cowlitz River. The sediment testing data are available at the Corps, Seattle District, Dredged Material Management Office. Prior to each maintenance dredging cycle, the DMMP agencies will determine whether additional sediment testing is required. If additional testing is required, no disposal will take place at a DMMP site until the material has been determined suitable for open-water disposal by the DMMP agencies.

Disposal Site Use Conditions: The following standard site-use conditions will be specified by the Corps and the Washington Department of Natural Resources as part of the Federal/State permitting processes: (1) disposal operations must not interfere with Indian treaty fishing at the disposal site, including gill nets and other fishing gear; (2) the permittee must coordinate any nighttime disposal with the Corps, Seattle District, Regulatory Branch Project Manager; and (3) approval must be received from the District Engineer prior to conducting nighttime disposal. Other appropriate special conditions may be added as a result of comments received during the public review period for this public notice

ADDITIONAL INFORMATION: The applicant has requested authorization to conduct the proposed dredging annually over a 10-year period.

Copies of this public notice, which have been mailed or otherwise physically distributed, feature project drawings in black and white. The electronic version features those drawings in color, which we think more accurately communicates the scope of project impacts. To access the electronic version of this public notice, go to the Seattle District's web page at <http://www.nws.usace.army.mil/> and under the heading Open Public Comment Periods select Regulatory Public Notices. Recently-issued public notices are listed in chronological order of the date of issuance. Select and view the listing for this project.

The location of the ordinary high water mark shown on the project drawings have not yet been verified by the Corps. If the Corps determines the boundaries of the waters are substantially inaccurate, a new public notice may be published.

MITIGATION: The applicant is not proposing mitigation.

ENDANGERED SPECIES: The Endangered Species Act (ESA) requires federal agencies to consult with the National Marine Fisheries Service (NMFS) and/or U.S. Fish and Wildlife Service (USFWS) pursuant to Section 7 of the ESA on all actions that may affect a species listed (or proposed for listing) under the ESA as threatened or endangered or any designated critical habitat. After receipt of comments from this public notice, the Corps will evaluate the potential impacts to proposed and/or listed species and their designated critical habitat.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed action would impact EFH in the project area. If the Corps determines that the proposed action may adversely affect EFH for federally managed fisheries in Washington waters, the Corps will initiate EFH consultation with the NMFS. The Corps' final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

**CULTURAL RESOURCES:** The Corps has reviewed the latest published version of the National Register of Historic Places, lists of properties determined eligible and other sources of information. There are no recorded historic properties within the permit area. The permit area has been so extensively disturbed by modern development that little likelihood exists for the proposed project to impinge upon an undisturbed historic property. The Corps invites responses to this public notice from Native American Tribes or tribal governments; Federal, State, and local agencies; historical and archeological societies; and other parties likely to have knowledge of or concerns regarding historic properties and sites of religious and cultural significance at or near the project area. After receipt of comments from this public notice, the Corps will evaluate potential impacts and consult with the State Historic Preservation Officer and Native American Tribes in accordance with Section 106 of the National Historic Preservation Act, as appropriate.

**PUBLIC HEARING:** Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

**EVALUATION – CORPS:** The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people.

The Corps is soliciting comments from the public; Native American Nations or tribal governments; Federal, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for the work. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity. The described discharge will be evaluated for compliance with guidelines promulgated by the Environmental Protection Agency under authority of Section 404(b)(1) of the CWA. These guidelines require an alternatives analysis for any proposed discharge of dredged or fill material into waters of the United States.

**EVALUATION – ECOLOGY:** Ecology is soliciting comments from the public; Federal, Native American Nations or tribal governments, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Ecology will be considering all comments to determine whether to certify or deny certification for the proposed project.

**COMMENT AND REVIEW PERIOD:** Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether it would be in the public interest to authorize this proposal. In order to be accepted, e-mail comments must originate from the author's e-mail account and must include on the subject line of the e-mail message the permit applicant's name and reference number as shown below. Either conventional mail or e-mail comments must include the permit applicant's name and reference number, as shown below, and the commentator's name, address, and phone number. All comments whether conventional mail or e-mail must reach this office, no later than the expiration date of this public notice to ensure consideration.

NWS-2012-1373, Longview, City of (Lake Sacajawea Flushing)

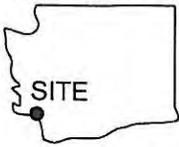
CORPS COMMENTS: All e-mail comments should be sent to [steven.w.manlow@usace.army.mil](mailto:steven.w.manlow@usace.army.mil). Conventional mail comments should be sent to: U.S. Army Corps of Engineers, Regulatory Branch, Attention: Steve Manlow, P.O. Box 3755, Seattle, Washington 98124-3755. All comments received will become part of the administrative record and are subject to public release under the Freedom of Information Act including any personally identifiable information such as names, phone numbers, and addresses.

ECOLOGY COMMENTS: Any person desiring to present views on the project pertaining to a request for water quality certification under Section 401 of the CWA and/or Coastal Zone Management consistency concurrence, may do so by submitting written comments to the following address: Washington State Department of Ecology, Attention: Federal Permit Coordinator, P.O. Box 47600, Olympia, Washington 98504-7600, or e-mail to [ecyrefedpermits@ecy.wa.gov](mailto:ecyrefedpermits@ecy.wa.gov).

To ensure proper consideration of all comments, responders must include the following name and reference number in the text of their comments: City of Longview; NWS-2012-1373

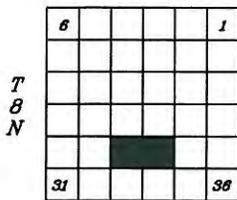
Encl: Figures 1 through 13 of 13, dated December 13, 2012

WASHINGTON



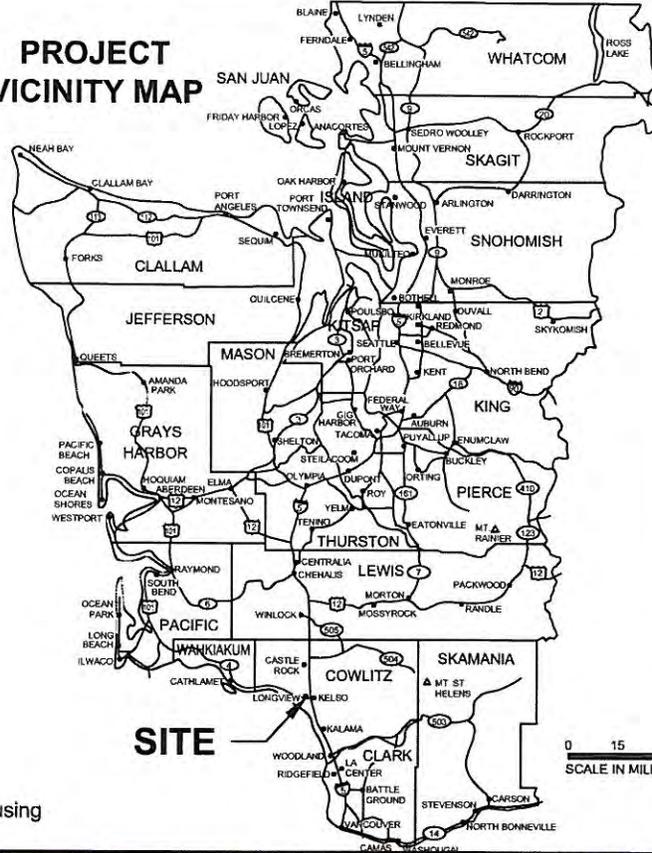
46.150200° Latitude  
-122.914437° Longitude  
**LOCATION MAP**

R 2 W



T 8 N

### PROJECT VICINITY MAP



**PROPOSED:**Dredging

**IN** Cowlitz River  
**NEAR:** Longview  
**COUNTY:** Cowlitz  
**STATE:** WA  
**SHEET 1 OF 13**  
**DATE:** 12/13/12

**VICINITY MAP**

**APPLICANT:** City of Longview  
**PROJECT NAME:** Lake Sacajawea  
**REFERENCE #:** Not Yet Assigned  
**SITE LOCATION ADDRESS:**  
Longview, Washington

**PURPOSE:** Water withdrawal

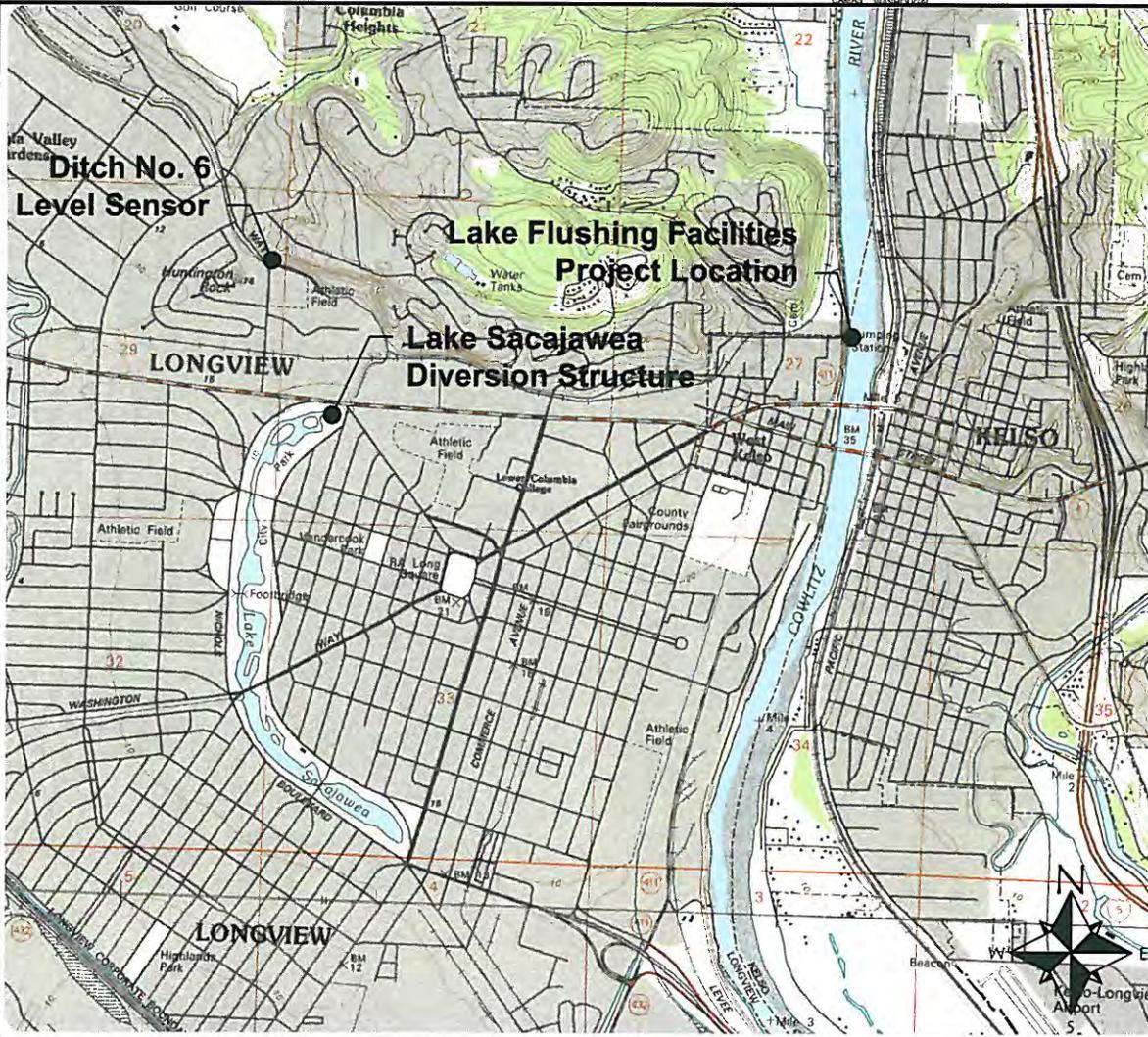
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**ADJACENT PROPERTY OWNERS:**  
Corps Ref: NWS-2012-1373

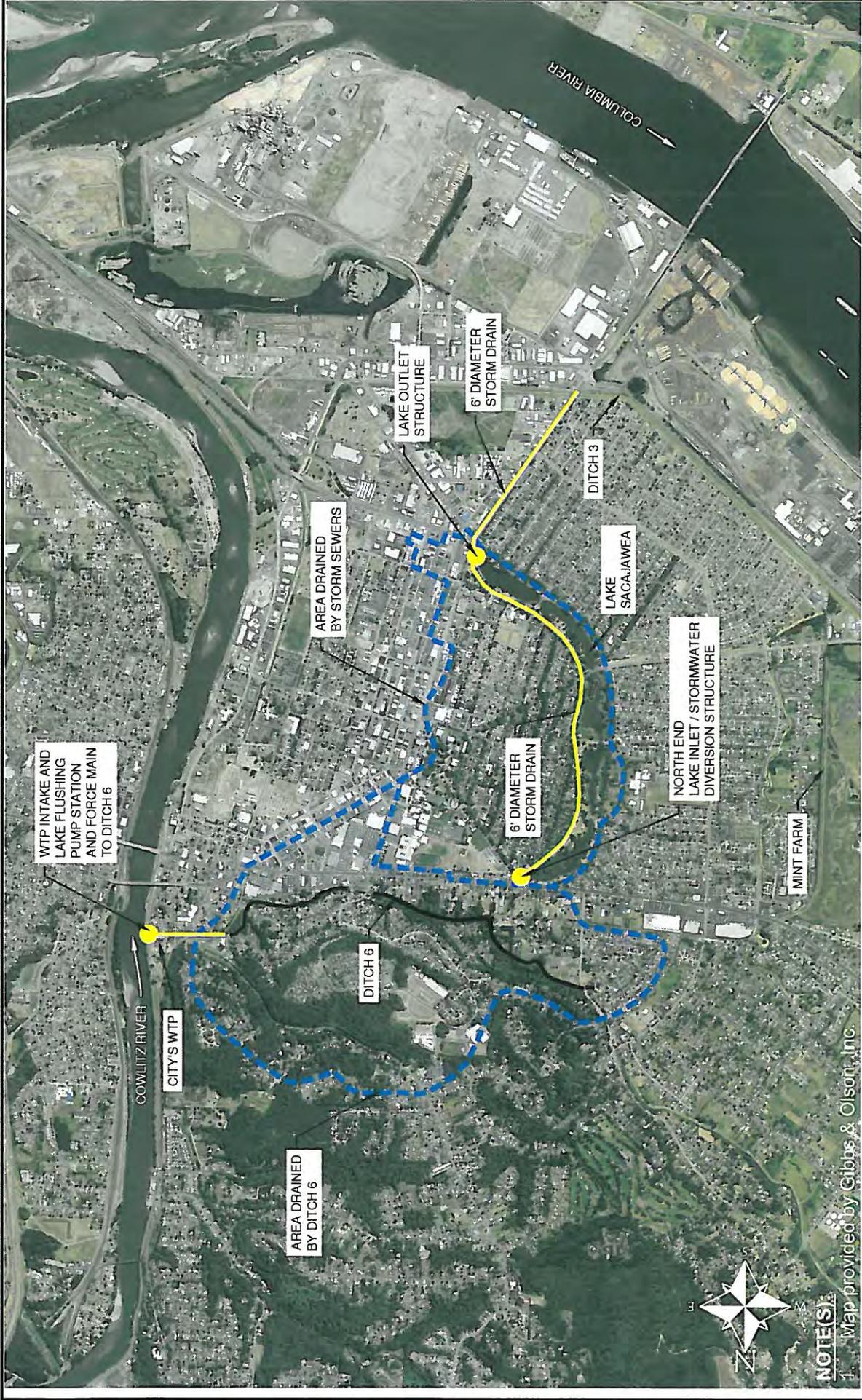
**SCALE IN FEET**  
0 3000 6000

**SCALE IN FEET**

**ECOLOGICAL LAND SERVICES, INC.**  
1157 3rd Avenue, Suite 220  
Longview, WA 98632

**NOTE:**  
USGS topographic quadrangle map reproduced using  
MAPTECH Inc., Terrain Navigator Pro software.





**NOTE(S):**  
1. Map provided by Gibbs & Olson, Inc.



SCALE IN FEET

**ECOLOGICAL LAND SERVICES, INC.**  
1157 3rd Avenue, Suite 220  
Longview, WA 98632

**PURPOSE:** Water withdrawal

**DATUM:** NAD 83  
**ADJACENT PROPERTY OWNERS:**  
Corps Ref: NWS-2012-1373

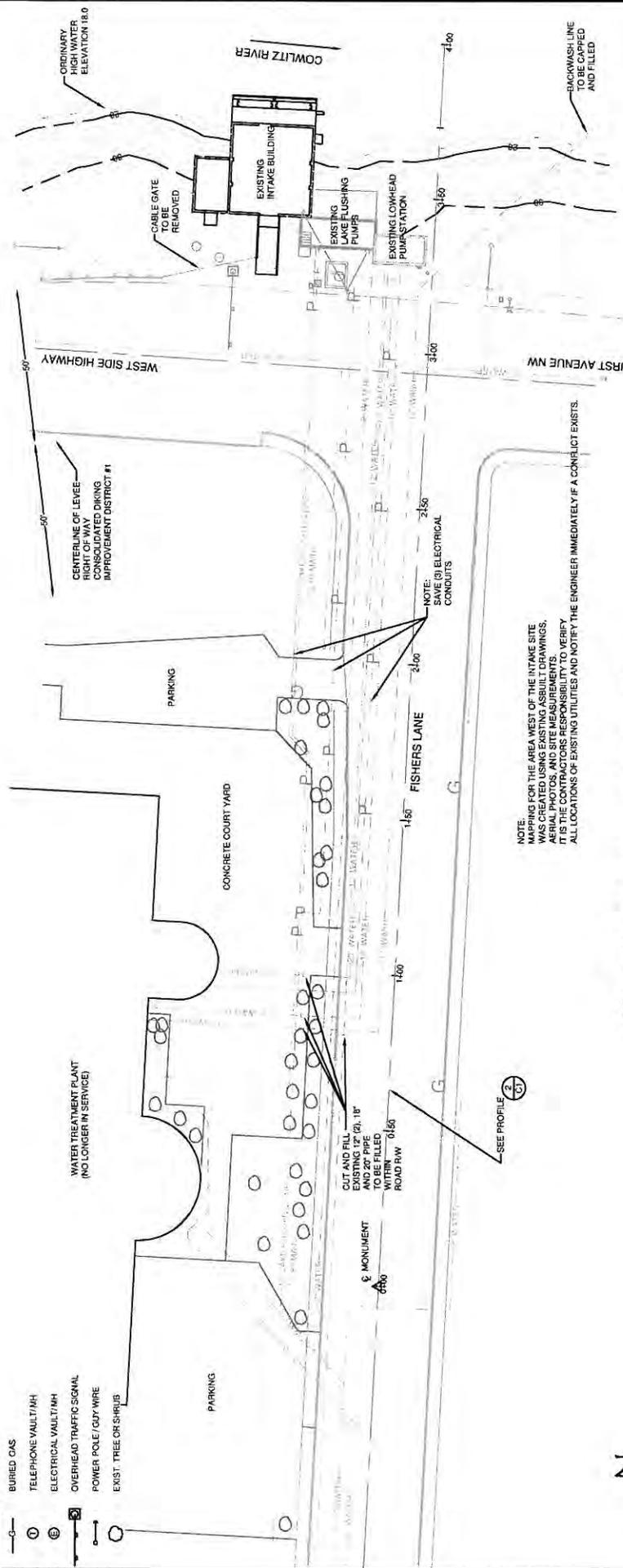
**AERIAL PHOTOGRAPH**

**APPLICANT:** City of Longview  
**PROJECT NAME:** Lake Sacajawea  
**REFERENCE #:** Not Yet Assigned  
**SITE LOCATION ADDRESS:**  
Longview, Washington

**PROPOSED:** Dredging

**IN:** Cowlitz River  
**NEAR:** Longview  
**COUNTY:** Cowlitz  
**STATE:** WA  
**SHEET 2 OF 13**  
**DATE:** 12/13/12

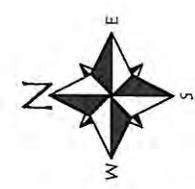
- LEGEND**
- POWER POLE W/ GUY WIRE
  - STREET LIGHT/ TRAFFIC SIGNAL
  - ELECTRICAL JUNCTION BOX
  - OHP— OVERHEAD POWER
  - UNDER GROUND POWER
  - GUARD RAIL
  - BURIED GAS
  - TELEPHONE VAULT/ VEH
  - ELECTRICAL VAULT/ VEH
  - OVERHEAD TRAFFIC SIGNAL
  - POWER POLE/ GUY WIRE
  - EXIST. TREE OR SHRUB



NOTE: SEE PUMP STATION DEMOLITION PLAN C2 FOR ON-SITE PIPING, CUT AND CAP/ ABANDONMENT REQUIREMENTS

NOTE: MAPPING FOR THE AREA WEST OF THE INTAKE SITE HAS BEEN OBTAINED FROM AERIAL PHOTOGRAPHS AND SITE MEASUREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES AND NOTIFY THE ENGINEER IMMEDIATELY IF A CONFLICT EXISTS.

**1 SITE PLAN AND PIPING DEMOLITION**



**NOTE(S):**  
1. Map provided by Gibbs & Olson, Inc.



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**ECOLOGICAL LAND SERVICES, INC.**  
1157 3rd Avenue, Suite 220  
Longview, WA 98632

**PURPOSE:** Water withdrawal

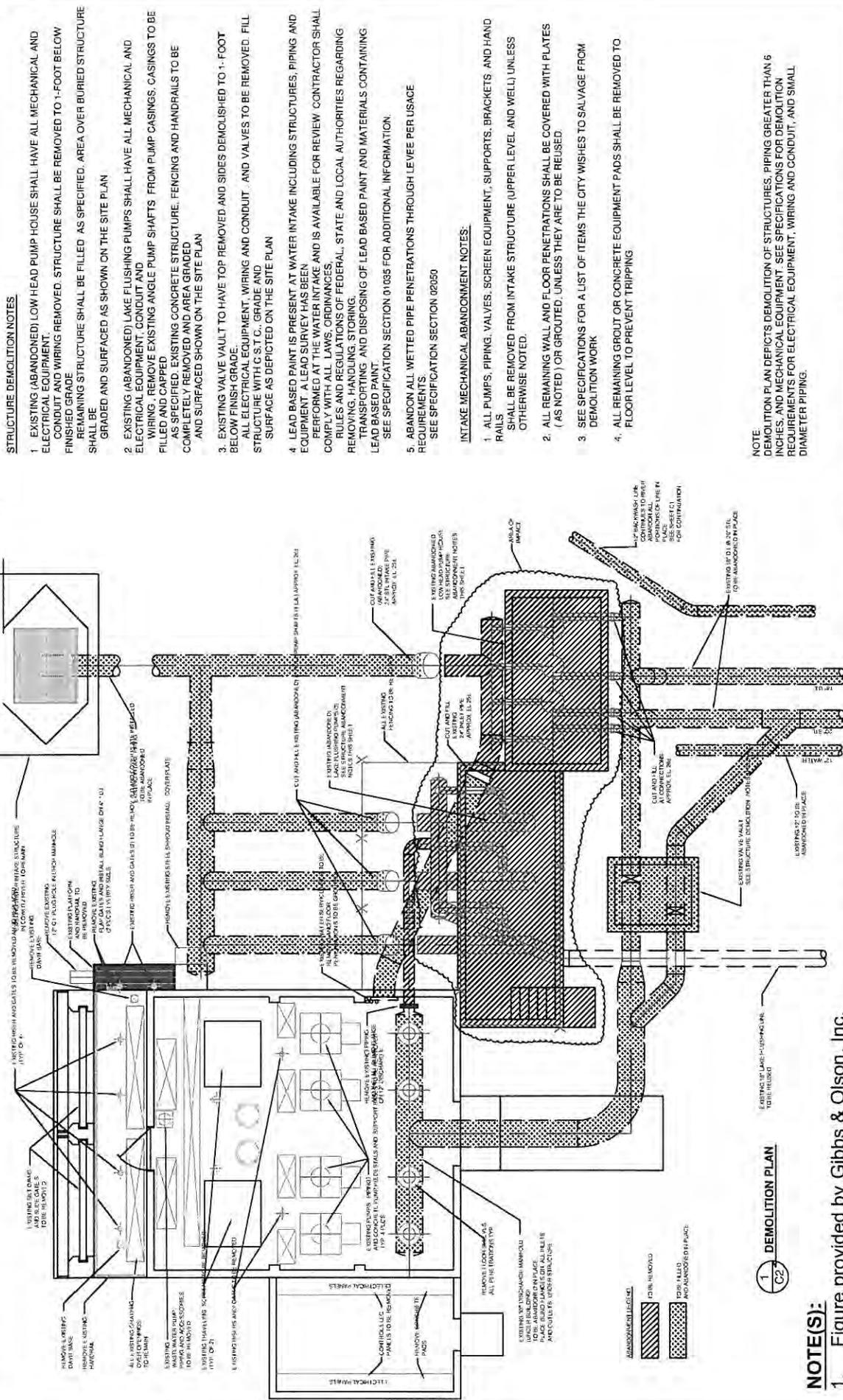
**DATUM:** NAD 83  
**ADJACENT PROPERTY OWNERS:** Corps Ref: NWS-2012-1373

**SITE PLAN AND PIPING DEMOLITION**

**APPLICANT:** City of Longview  
**PROJECT NAME:** Lake Sacajawea  
**REFERENCE #:** Not Yet Assigned  
**SITE LOCATION ADDRESS:** Longview, Washington

**PROPOSED:** Dredging

**IN** Cowlitz River  
**NEAR:** Longview  
**COUNTY:** Cowlitz  
**STATE:** WA  
**SHEET 3 OF 13**  
**DATE:** 12/13/12



1 DEMOLITION PLAN  
C2

**NOTE(S):**

1. Figure provided by Gibbs & Olson, Inc.

Not to Scale

**ECOLOGICAL LAND SERVICES, INC.**  
1157 3rd Avenue, Suite 220  
Longview, WA 98632

**PURPOSE:** Water withdrawal

**DEMOLITION PLAN**

**APPLICANT:** City of Longview  
**PROJECT NAME:** Lake Sacajawea  
**REFERENCE #:** Not Yet Assigned  
**SITE LOCATION ADDRESS:** Longview, Washington

**DATUM:** N/A  
**ADJACENT PROPERTY OWNERS:** NWS-2012-1373  
Corps Ref: NWS-2012-1373

**PROPOSED:** Dredging

**IN Cowlitz River**  
**NEAR:** Longview  
**COUNTY:** Cowlitz  
**STATE:** WA  
**SHEET 4 OF 13**  
**DATE:** 12/13/12

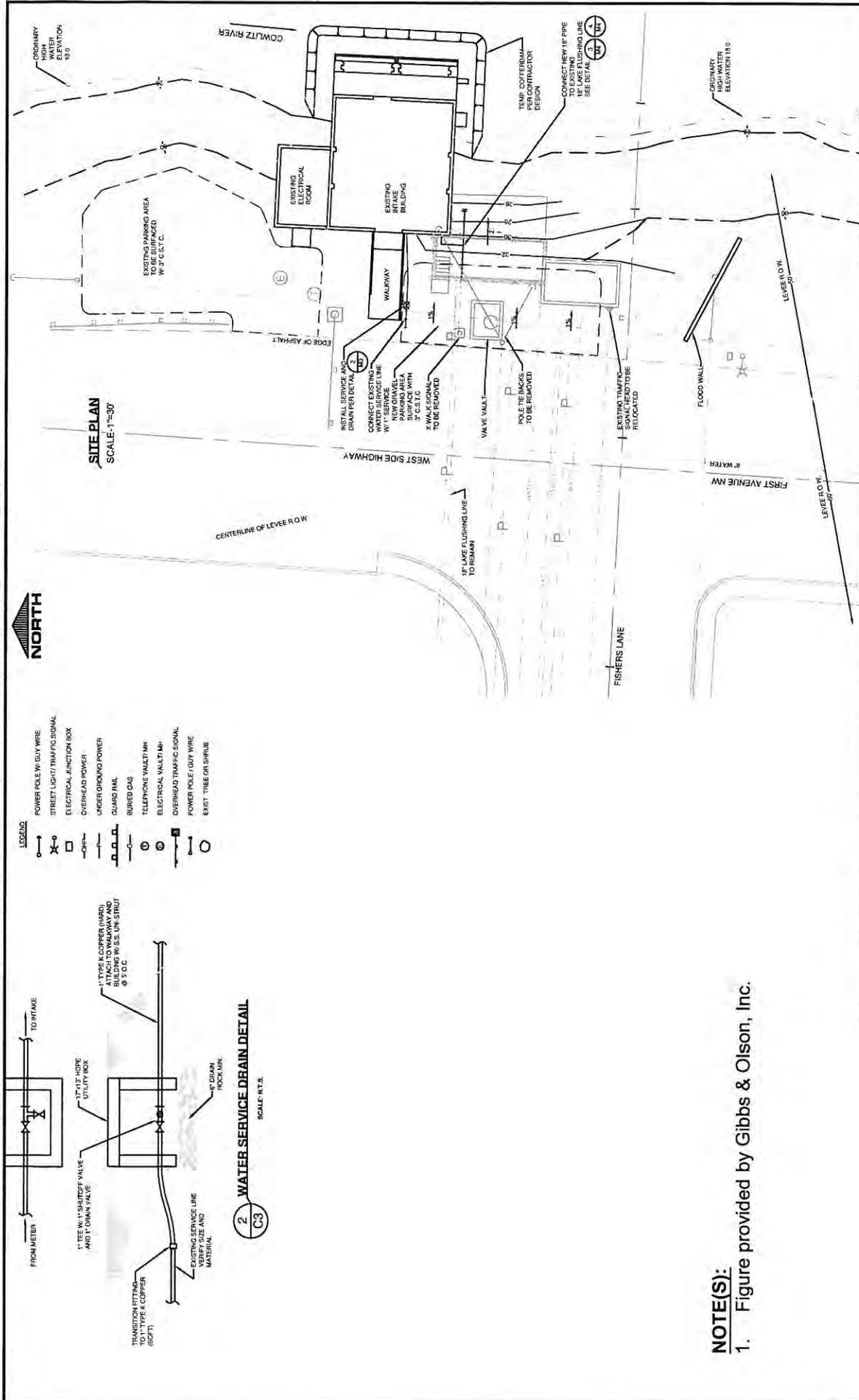
**STRUCTURE DEMOLITION NOTES**

- EXISTING (ABANDONED) LOW HEAD PUMP HOUSE SHALL HAVE ALL MECHANICAL AND ELECTRICAL EQUIPMENT. CONDUIT AND WIRING REMOVED. STRUCTURE SHALL BE REMOVED TO 1-FOOT BELOW FINISHED GRADE. REMAINING STRUCTURE SHALL BE FILLED AS SPECIFIED. AREA OVER BURIED STRUCTURE SHALL BE GRADED AND SURFACED AS SHOWN ON THE SITE PLAN
- EXISTING (ABANDONED) LAKE FLUSHING PUMPS SHALL HAVE ALL MECHANICAL AND ELECTRICAL EQUIPMENT, CONDUIT AND WIRING. REMOVE EXISTING ANGLE PUMP SHAFTS FROM PUMP CASINGS. CASINGS TO BE FILLED AND CAPPED AS SPECIFIED. EXISTING CONCRETE STRUCTURE, FENCING AND HANDRAILS TO BE COMPLETELY REMOVED AND AREA GRADED AND SURFACED SHOWN ON THE SITE PLAN
- EXISTING VALVE VAULT TO HAVE TOP REMOVED AND SIDES DEMOLISHED TO 1-FOOT BELOW FINISH GRADE. ALL ELECTRICAL EQUIPMENT, WIRING AND CONDUIT AND VALVES TO BE REMOVED. FILL STRUCTURE WITH C.S.T.C. GRADE AND SURFACE AS DEPICTED ON THE SITE PLAN
- LEAD BASED PAINT IS PRESENT AT WATER INTAKE INCLUDING STRUCTURES, PIPING AND EQUIPMENT. A LEAD SURVEY HAS BEEN PERFORMED AT THE WATER INTAKE AND IS AVAILABLE FOR REVIEW. CONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS OF FEDERAL, STATE AND LOCAL AUTHORITIES REGARDING REMOVING, HANDLING AND DISPOSING OF LEAD BASED PAINT AND MATERIALS CONTAINING LEAD BASED PAINT. SEE SPECIFICATION SECTION 01035 FOR ADDITIONAL INFORMATION.
- ABANDON ALL WETTED PIPE PENETRATIONS THROUGH LEVEE PER USAGE REQUIREMENTS. SEE SPECIFICATION SECTION 02050

**INTAKE MECHANICAL ABANDONMENT NOTES:**

- ALL PUMPS, PIPING, VALVES, SCREEN EQUIPMENT, SUPPORTS, BRACKETS AND HAND RAILS SHALL BE REMOVED FROM INTAKE STRUCTURE (UPPER LEVEL AND WELL) UNLESS OTHERWISE NOTED.
- ALL REMAINING WALL AND FLOOR PENETRATIONS SHALL BE COVERED WITH PLATES (AS NOTED) OR GROUTED, UNLESS THEY ARE TO BE REUSED.
- SEE SPECIFICATIONS FOR A LIST OF ITEMS THE CITY WISHES TO SALVAGE FROM DEMOLITION WORK
- ALL REMAINING GROUT OR CONCRETE EQUIPMENT PADS SHALL BE REMOVED TO FLOOR LEVEL TO PREVENT TRIPPING

**NOTE**  
DEMOLITION PLAN DEPICTS DEMOLITION OF STRUCTURES, PIPING GREATER THAN 6 INCHES, AND MECHANICAL EQUIPMENT. SEE SPECIFICATIONS FOR DEMOLITION REQUIREMENTS FOR ELECTRICAL EQUIPMENT, WIRING AND CONDUIT, AND SMALL DIAMETER PIPING.



**PURPOSE:** Water withdrawal

**DATUM:** NAD 83

**ADJACENT PROPERTY OWNERS:**  
Corps Ref: NWS-2012-1373

**APPLICANT:** City of Longview

**PROJECT NAME:** Lake Sacajawea

**REFERENCE #:** Not Yet Assigned

**SITE LOCATION ADDRESS:**  
Longview, Washington

**PROPOSED:** Dredging

**IN:** Cowlitz River

**NEAR:** Longview

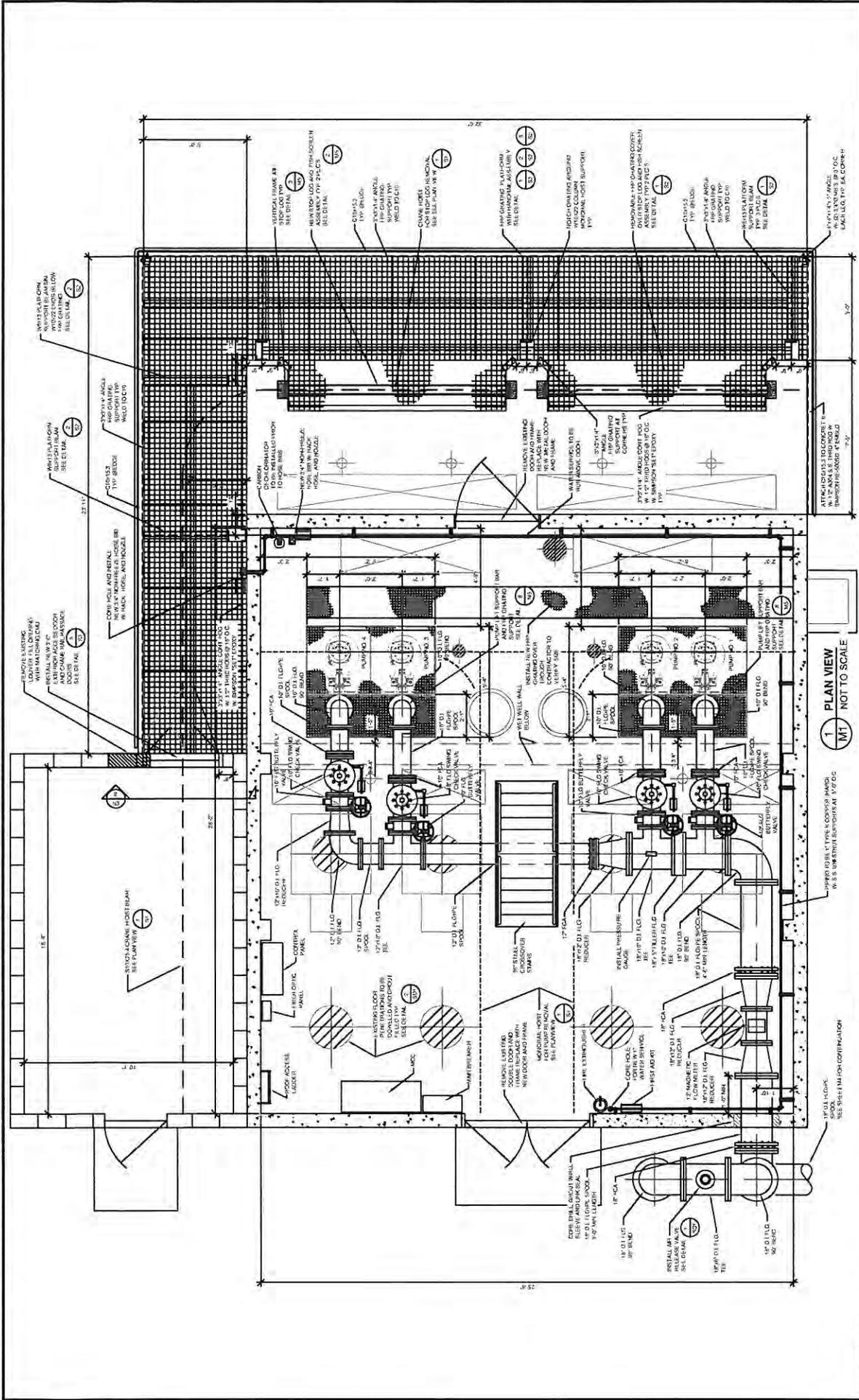
**COUNTY:** Cowlitz

**STATE:** WA

**SHEET 5 OF 13**

**DATE:** 12/13/12





**NOTE(S):**  
 1. Figure provided by Gibbs & Olson, Inc.

**PURPOSE:** Water withdrawal

**APPLICANT:** City of Longview

**PROJECT NAME:** Lake Sacajawea

**REFERENCE #:** Not Yet Assigned

**SITE LOCATION ADDRESS:** Longview, Washington

**PROPOSED:** Dredging

**IN Cowlitz River**

**NEAR: Longview**

**COUNTY: Cowlitz**

**STATE: WA**

**SHEET 6 OF 13**

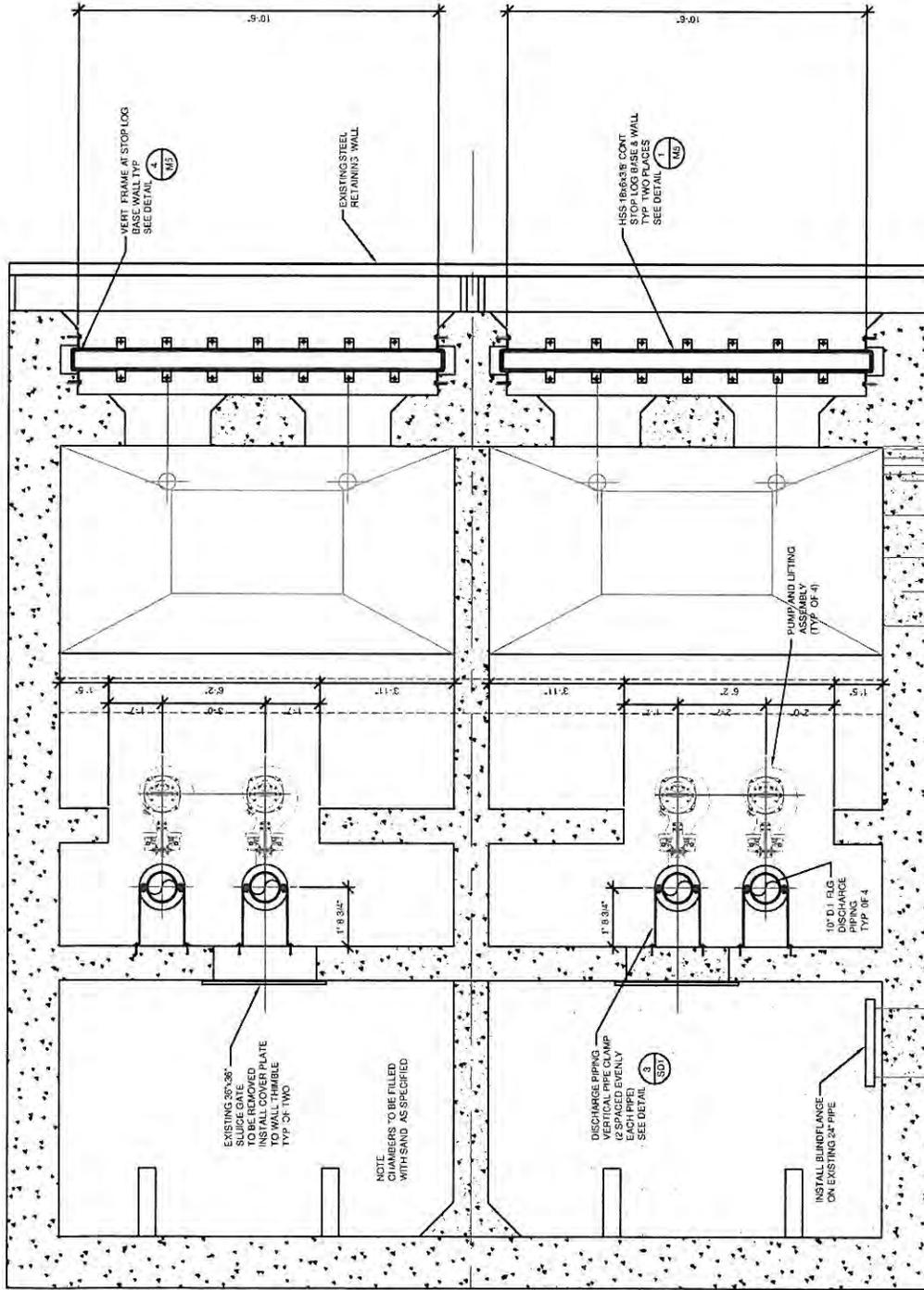
**DATE: 12/13/12**

**DATUM:** N/A

**ADJACENT PROPERTY OWNERS:** NWS-2012-1373

Corps Ref: NWS-2012-1373

**ECOLOGICAL LAND SERVICES, INC.**  
 1157 3rd Avenue, Suite 220  
 Longview, WA 98632



**NOTE(S):**

1. Figure provided by Gibbs & Olson, Inc.

1 PLAN VIEW  
M2

NOT TO SCALE

REMOVE EXISTING WALL THIMBLE AND INSTALL BLIND FLANGE ON 4" Ø1  
CONTRACTOR TO VERIFY SIZES

EXISTING RISER AND GATES (Ø) TO BE REMOVED  
INSTALL COVER PLATE TO WALL THIMBLE  
CONTRACTOR TO VERIFY SIZE

PUMP AND LIFTING ASSEMBLY (TYP. OF 4)

10" Ø1 DISCHARGE PIPING TYP. OF 4

DISCHARGE PIPING VERTICAL PIPE CLAMP (Ø SPACED EVENLY EACH PIPE) SEE DETAIL (3)

INSTALL BLINDFLANGE ON EXISTING 3" PIPE

NOTE: CHANGERS TO BE FILLED WITH SAND AS SPECIFIED

EXISTING 20" 36" TO BE REMOVED  
INSTALL COVER PLATE TO WALL THIMBLE TYP. OF TWO

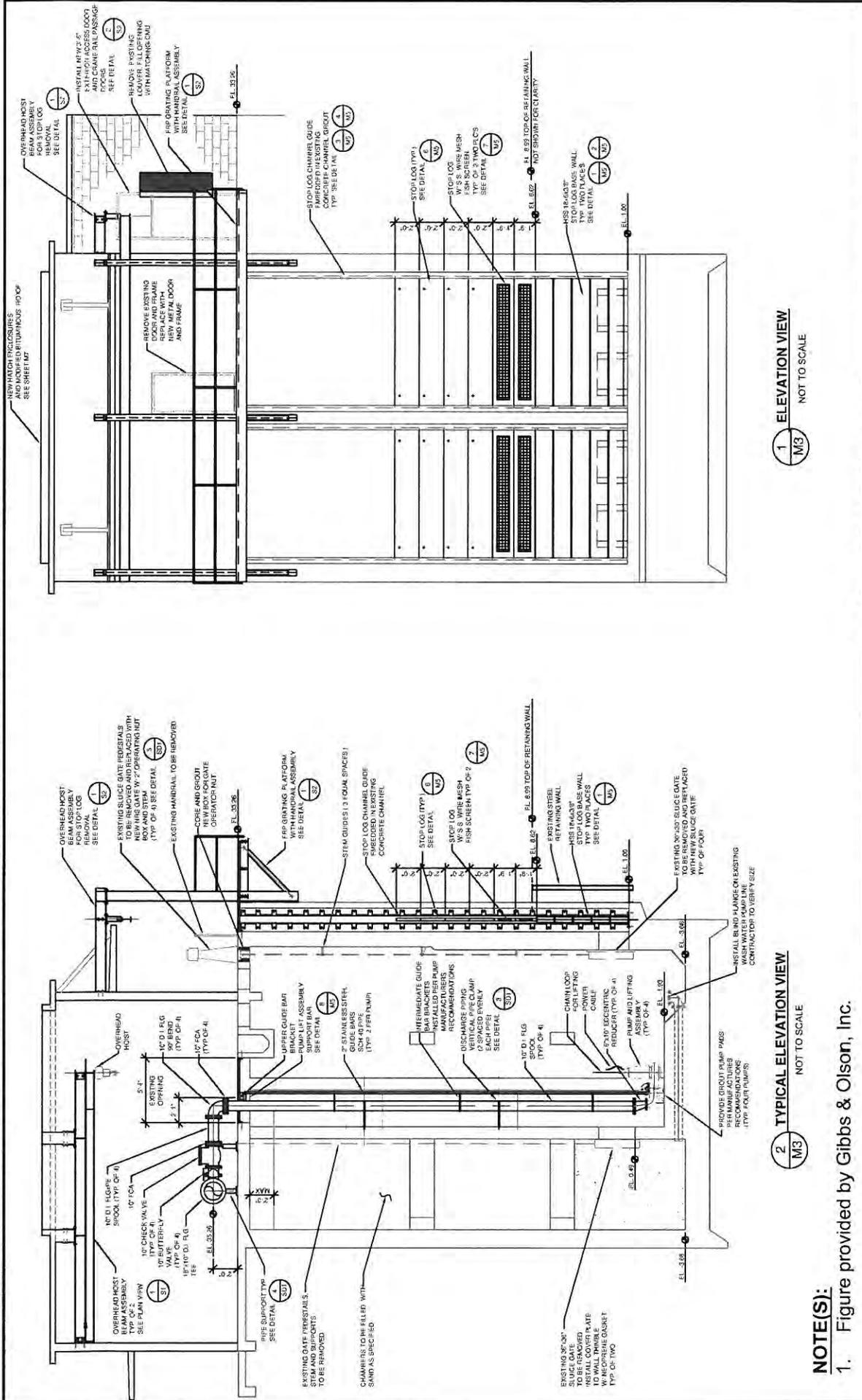
HSS 16x6x3/8 CONT. STOP LOG BASE & WALL TYP. TWO PLACES SEE DETAIL (1)

VERT. FRAME w/ STOP LOG BASE MAX. 1/4" SEE DETAIL (2)

EXISTING STEEL RETAINING WALL

<p><b>PROPOSED:</b> Dredging</p>	<p><b>APPLICANT:</b> City of Longview</p>	<p><b>PROJECT NAME:</b> Lake Sacajawea</p>	<p><b>REFERENCE #:</b> Not Yet Assigned</p>	<p><b>SITE LOCATION ADDRESS:</b> Longview, Washington</p>
<p><b>IN Cowlitz River</b></p>	<p><b>NEAR: Longview</b></p>	<p><b>COUNTY: Cowlitz</b></p>	<p><b>STATE: WA</b></p>	<p><b>SHEET 7 OF 13</b></p>
<p><b>DATE: 12/13/12</b></p>	<p><b>PURPOSE:</b> Water withdrawal</p>	<p><b>DATUM:</b> N/A</p>	<p><b>ADJACENT PROPERTY OWNERS:</b> Corps Ref: NWS-2012-1373</p>	<p><b>INTAKE PLAN VIEW (2)</b></p>





1 ELEVATION VIEW  
M3 NOT TO SCALE

2 TYPICAL ELEVATION VIEW  
M3 NOT TO SCALE

**NOTE(S):**

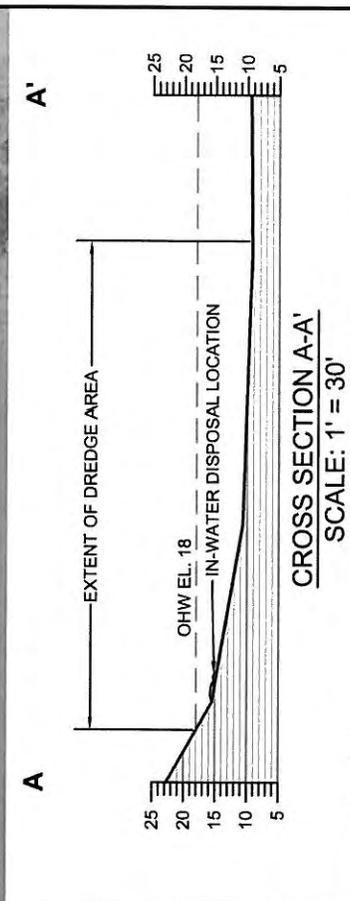
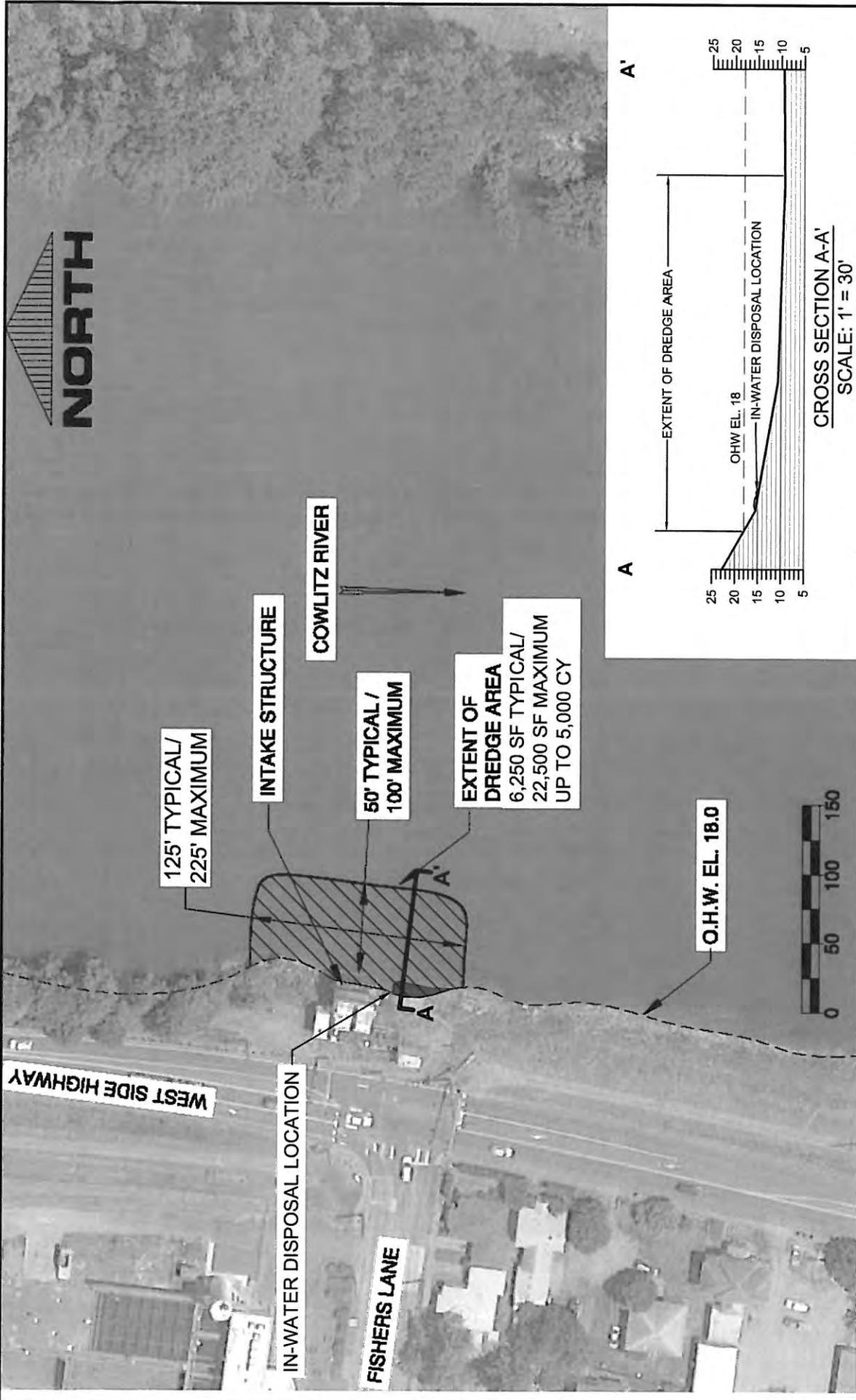
1. Figure provided by Gibbs & Olson, Inc.

**PROPOSED:** Dredging  
**IN** Cowlitz River  
**NEAR:** Longview  
**COUNTY:** Cowlitz **STATE:** WA  
**SHEET 8 OF 13**  
**DATE:** 12/13/12

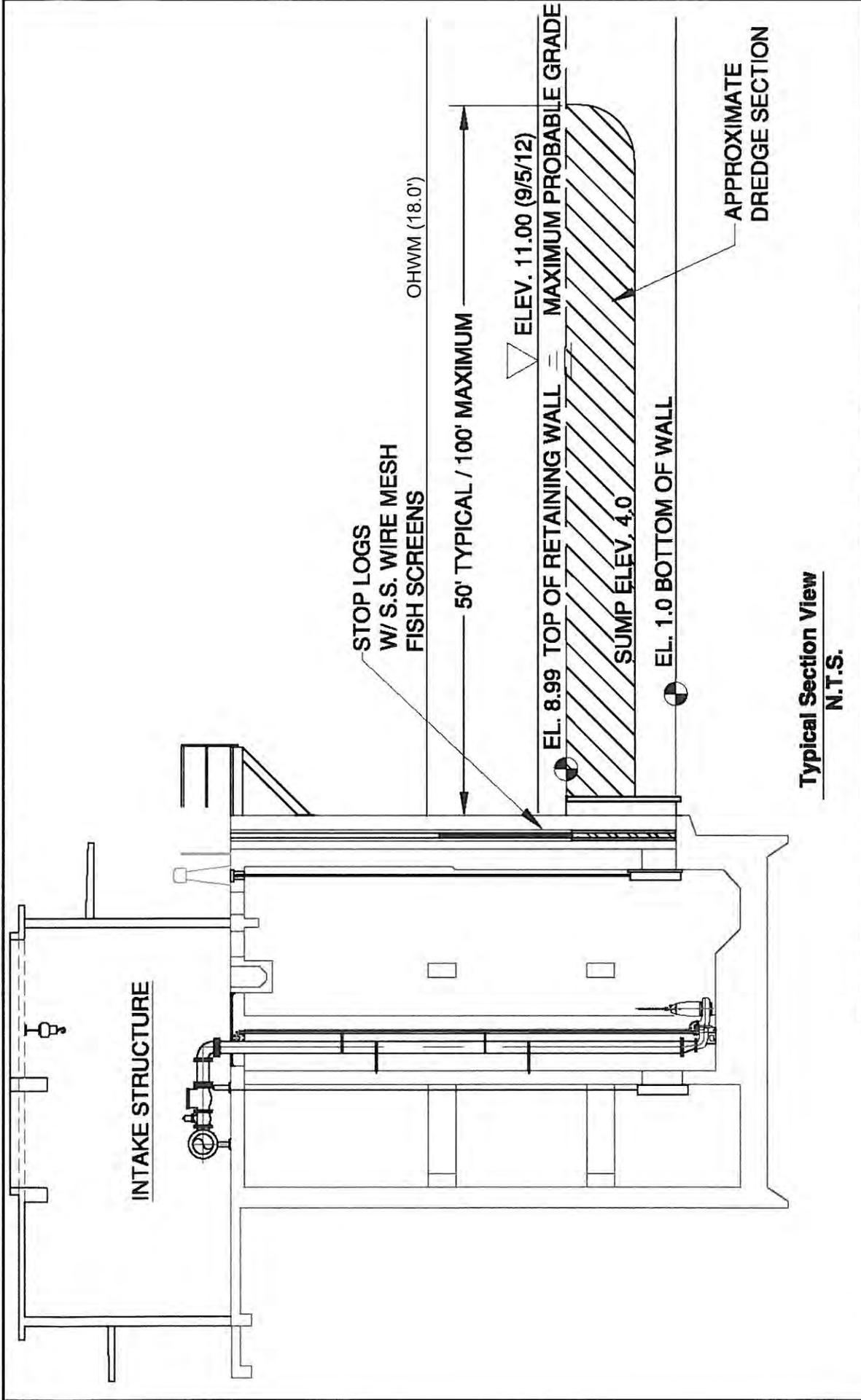
**INTAKE ELEVATION VIEWS**  
**APPLICANT:** City of Longview  
**PROJECT NAME:** Lake Sacajawea  
**REFERENCE #:** Not Yet Assigned  
**SITE LOCATION ADDRESS:** Longview, Washington

**PURPOSE:** Water withdrawal  
**DATUM:** N/A  
**ADJACENT PROPERTY OWNERS:** NWS-2012-1373  
 Corps Ref: NWS-2012-1373



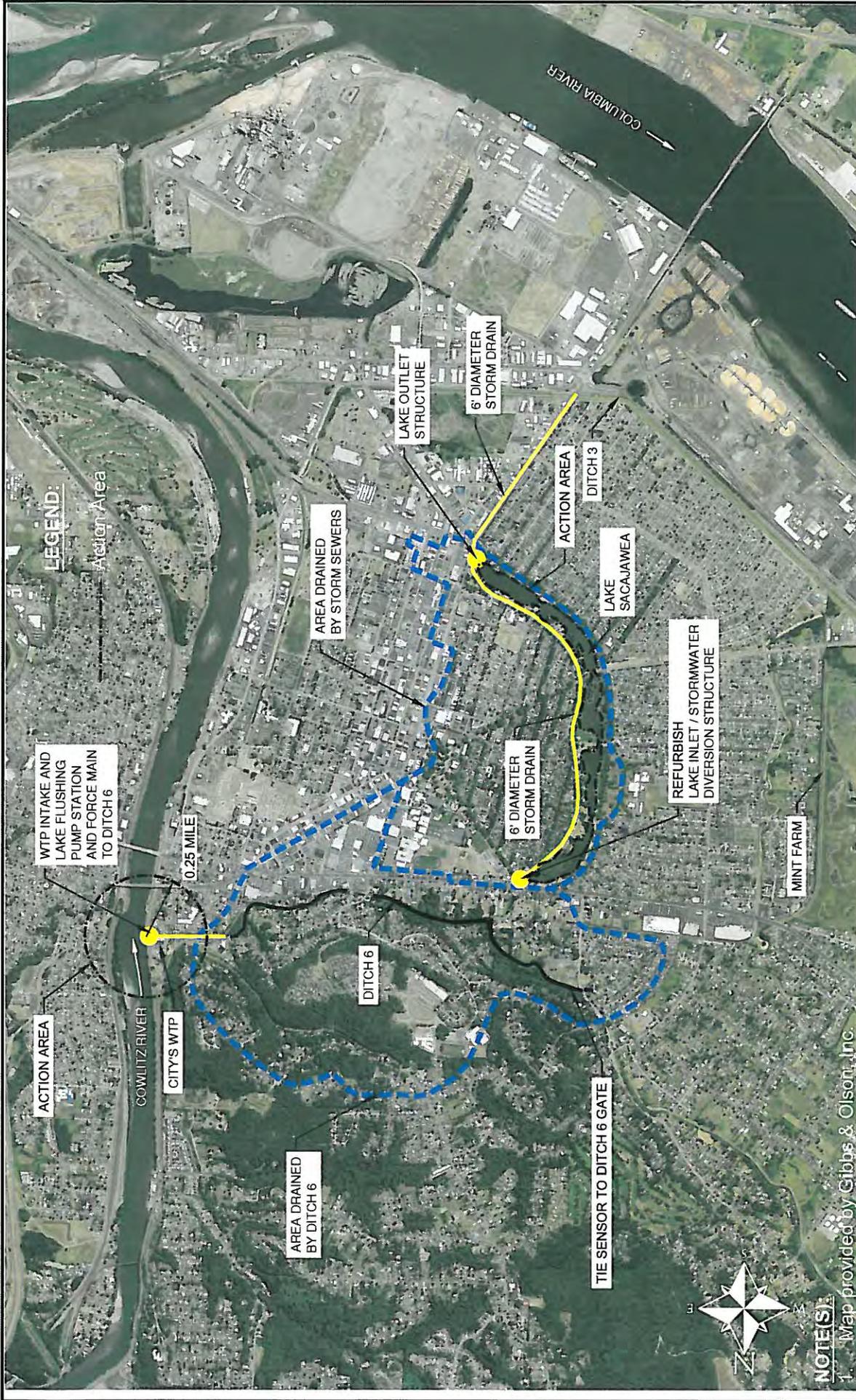


<p><b>NOTE(S):</b> 1. Figure provided by Gibbs &amp; Olson, Inc.</p> <p><b>ECOLOGICAL LAND SERVICES, INC.</b> 1157 3rd Avenue, Suite 220 Longview, WA 98632</p>	<p><b>PURPOSE:</b> Water withdrawal</p> <p><b>DATUM:</b> NAVD88</p> <p><b>ADJACENT PROPERTY OWNERS:</b></p>	<p><b>DREDGING AREA</b></p> <p><b>APPLICANT:</b> City of Longview</p> <p><b>PROJECT NAME:</b> Lake Sacajawea</p> <p><b>REFERENCE #:</b> Not Yet Assigned</p> <p><b>SITE LOCATION ADDRESS:</b> Longview, Washington</p>	<p><b>PROPOSED:</b> Dredging</p> <p><b>IN Cowlitz River</b></p> <p><b>NEAR:</b> Longview</p> <p><b>COUNTY:</b> Cowlitz</p> <p><b>STATE:</b> WA</p> <p><b>SHEET 10 OF 13</b></p> <p><b>DATE:</b> <del>3/21/12</del> 12/13/12</p>
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**Typical Section View**  
**N.T.S.**

<p><b>NOTE(S):</b> 1. Figure provided by Gibbs &amp; Olson, Inc.</p>	<p><b>PURPOSE:</b> Water withdrawal</p>	<p><b>PROPOSED:</b> Dredging IN Cowlitz River NEAR: Longview COUNTY: Cowlitz STATE: WA SHEET 11 OF 13 DATE: 12/13/12</p>
<p><b>ECOLOGICAL LAND SERVICES, INC.</b> 1157 3rd Avenue, Suite 220 Longview, WA 98632</p>	<p><b>DREDGING CROSS SECTION</b> APPLICANT: City of Longview PROJECT NAME: Lake Sacajawea REFERENCE #: Not Yet Assigned SITE LOCATION ADDRESS: Longview, Washington</p>	<p><b>DATUM:</b> N/A <b>ADJACENT PROPERTY OWNERS:</b> Corps Ref: NWS-2012-1373</p>



**NOTES:**  
1. Map provided by Gibbs & Olson, Inc.



SCALE IN FEET

**ECOLOGICAL LAND SERVICES, INC.**  
1157 3rd Avenue, Suite 220  
Longview, WA 98632

**PURPOSE:** Water withdrawal  
**DATUM:** NAD 83  
**ADJACENT PROPERTY OWNERS:**  
Corps Ref: NWS-2012-1373

**ACTION AREA MAP**  
**APPLICANT:** City of Longview  
**PROJECT NAME:** Lake Sacajawea  
**REFERENCE #:** Not Yet Assigned  
**SITE LOCATION ADDRESS:**  
Longview, Washington

**PROPOSED:** Dredging  
**IN:** Cowlitz River  
**NEAR:** Longview  
**COUNTY:** Cowlitz  
**STATE:** WA  
**SHEET 12 OF 13**  
**DATE:** 12/13/12



Photo 1  
Looking north (upstream) at the water intake structure on the Cowlitz River.  
Photo taken in May of 2012.



Photo 2  
Maintenance dredging at the water-intake structure. Divers use a portable section dredge on a floating skid. Hoses have proper fish screening. The outlet hose is placed downstream near the bank to minimize suspended sediment impacts. Turbidity is visible for less than 200 feet from the activity. Photo taken September 10, 2012.

**PROPOSED:**Dredging  
**IN** Cowlitz River  
**NEAR:** Longview  
**COUNTY:** Cowlitz  
**STATE:** WA  
**SHEET 13 OF 13**  
**DATE:** 12/13/12

**PHOTOPLATE**  
**APPLICANT:** City of Longview  
**PROJECT NAME:** Lake Sacajawea  
**REFERENCE #:** Not Yet Assigned  
**SITE LOCATION ADDRESS:**  
Longview, Washington

**PURPOSE:** Water withdrawal  
**DATUM:** N/A  
**ADJACENT PROPERTY OWNERS:**  
Corps Ref: NWS-2012-1373