US Army Corps of Engineers
Seattle District

# Public Notice of Application for Permit

**Regulatory Branch**
**Post Office Box 3755**
**Seattle, Washington 98124-3755**
**Telephone (206) 764-3495**
**Project Manager: Olivia Romano, Project Manager**

**Public Notice Date: March 25, 2005**
**Expiration Date: April 24, 2005**
**Reference: 200400304**
**Name: Northwest Pipeline Corporation**

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Interested parties are hereby notified that an application has been received for a Department of the Army permit in accordance with Section 404 of the Clean Water Act for certain work described below and shown on the enclosed drawings.

APPLICANT – Northwest Pipeline Corporation
2800 Post Oak Boulevard
Houston, Texas 77056
ATTN: Tim Powell
Telephone: (713) 215-2719

AGENT - Golder Associates
44 Union Boulevard
Suite 300
Lakewood, Colorado 80228
ATTN: Carolyn Last
Telephone: (303) 832-1600

LOCATION – In wetlands and waterbodies in Whatcom, Skagit, Snohomish, King, Pierce, Thurston, Lewis and Clark Counties. The proposed pipeline is in four segments: The Sumas Loop (22.68 miles) begins at Northwest Pipeline Corporation's (Northwest) existing Sumas Compressor Station, near Sumas, Whatcom County and ending on the south side of Mosquito Lake Road, near Acme, Whatcom County, Washington; The Mount Vernon Loop (22.54 miles) begins at Northwest's mainline pipeline on the north bank of the Skagit River, near Sedro Woolley, Skagit County and ending on the north side of Meridian Road, near Machias, Snohomish County, Washington; The Snohomish Loop (11.89 miles) beings at Northwest's Snohomish Compressor Station, near Echo Lake, Snohomish, County and ending at Mainline Block Valve 17L-0B on the north side of 8th Street, near Inglewood, in King County, Washington; and The Fort Lewis Loop (22.43 miles) begins at Puget Power Meter Station, south of 192nd Street East, near Frederickson, Pierce County and ending at Olympia and Grays Harbor lateral interconnects, west of Vail Loop Road, near Vail, Thurston County, Washington. Retirement of 26-inch pipeline facilities located in non-loop areas: Acme Meter station located north of Rothenbuhler Road, near Acme, Whatcom County, Washington; Proposed 30-inch valve located adjacent to Mount Vernon Compressor Station, north of Lange Road, near Baker Heights, Skagit County, Washington; Chehalis Compressor Station located north of Meier Road West and east of Interstate 5, near Napevine, in Lewis County, Washington: and Portland Lateral Take-off located southeast of King Corner, near Battleground, in Clark County, Washington.

WORK – Installation of approximately 79.50 miles of 36-inch buried natural gas pipeline in four segments or loops, installation and modification of aboveground facilities, and retirement of existing 26-inch pipeline and

associated facilities. The proposed pipeline loops will cross a total of 222 wetland areas, 17 isolated wetlands, 148 waterbodies, including 85 steams and rivers, 27 wetland ditches, 35 upland ditches and 1 isolated wetland ditch. The proposed pipeline and aboveground facilities will temporarily impact 109.93 acres of wetlands, resulting in the permanent conversion of 2.0 acres of forested wetlands to shrub-scrub or emergent wetlands and permanent loss of 0.65 acres of wetlands (see sheet 175 of 197). Retirement of 26-inch pipeline facilities will temporarily impact 0.32 acres of wetlands and result in the permanent loss of 0.07 acres of wetlands (see sheets 175 & 176 of 197). The work consists of the excavation and backfill of about 72,829 cubic yards of native material in wetlands and about 11,664 cubic yards native material waterward of ordinary high water (OHW) line of streams, rivers and ditches for burial of the pipeline, associated land clearing, and construction of temporary workspaces, drill sites and retirement of 26-inch pipeline facilities. These new pipeline segments will be constructed within existing pipeline rights-of-way, typically running parallel to, and 20 feet offset from, the existing 26-inch pipeline or the existing 26-inch pipeline will be removed and the proposed pipeline segment installed in the same location. All work is summarized in the wetland impact tables, sheets159 through 176 of 197.

Rivers, streams and ditches will be crossed using several methods including open cut, dam and pump, flume, aerial span and horizontal directional drill (HDD). Several wetland areas, stream and river crossings will employ HDD and there will be no wetland or in-water impacts associated with these crossings. The North Fork Nooksack River, Jim Creek, a tributary to Nooksack River, the North and South Fork Stillaguamish River and Eagle Creek crossings will be done using HDD. However, Northwest proposed an alternative crossing method (open cut) to cross these wetlands, streams and rivers should the HDD method fail. Temporary wetland, stream and river impacts as result of the proposed alternative crossing method would be 13.29 acres and wetland conversion impact of 0.04 acres (see sheet 187 Of 197, HDD alternative Crossing Method Wetland Impacts table). Pilchuck Creek and Nisqually River will be crossed using the open cut method as HDD method is not possible at these locations.

The seventeen isolated wetlands and one isolated wetland ditch that will be impacted by the proposed project are not regulated by the U.S. Army Corps of Engineers (Corps). However, these isolated wetlands are under the jurisdiction of Washington State Department of Ecology (Ecology). These isolated wetlands are listed on wetlands Impact Table on sheets 159 through 176 of 197. Isolated wetland impact acreage is included in the total temporary impact wetland acreage listed above (109.93 acres).

Please Note: Mailed copies of this public notice will include an abbreviated set of project drawings. A electronic version of this public notice with a complete set of project drawings is available on the Corps Seattle District Public Web Site at www.nws.usace.army.mil or are available upon request by contacting the Corps project manager.

PURPOSE – To replace the capacity of Northwest's existing 26-inch mainline interstate natural gas pipeline.

ADDITIONAL INFORMATION – U.S. Department of Transportation (USDOT) issued a Corrective Action Order (CAO), dated May 2, 2003, and amended on December 18, 2003 and April 9, 2004, under authority of 49 U.S.C. Section 60112 finding that continued operation of Northwest's existing 26-inch pipeline in western Washington would be hazardous to the public, property, and the environment without appropriate corrective action. The existing 26-inch pipeline has experienced 2 ruptures due to stress corrosion cracking. The CAO requires Northwest to replace all segments of the 26-inch pipeline located in high consequence areas by December 18, 2006, and the remaining segments must be replaced in two phases, by December 18, 2008, and December 18, 2013. Northwest has determined that by installing 79.50 miles of a 36-inch pipeline in four loops or segments would replace the capacity of the 268 miles of the existing 26-inch pipeline. Northwest proposed to retire in-place as much of the existing 26-inch pipeline and appurtenant facilities as possible for possible future use should new technology be developed that can more accurately detect stress corrosion cracking.

This project is also under the regulatory authority of the Federal Energy Regulatory Commission (FERC). FERC is the lead federal agency for this project. FERC has decided to prepare an environmental impact statement (EIS) to satisfy NEPA. The Corps and Ecology have agreed to participate as cooperating agencies in the preparation of the EIS. The proposed EIS will also satisfy Washington State Environmental Policy Act. The publication of the draft EIS occurred on March 11, 2005 and the 45-day public comment period ends on April 25, 2005. The draft EIS is available for viewing on Ecology's web site at www.ecy.wa.gov .

MITIGATION – Northwest is required by Federal Energy Regulatory Commission (FERC) to restore all wetlands impacted by the construction of the pipeline. Restoration includes the segregation of topsoil during construction to allow for its placement back over the trenchline, returning the ground elevation to pre-construction elevations, and revegetation. Impacted native wetland areas will be seeded using an approved wetland seed mixture that includes species native to the region. In addition, live cuttings of native woody species will be planted in impacted scrub-shrub and forested wetlands except in the 10-foot area directly above the proposed pipeline, which must not contain woody vegetation in accordance FERC with safety guidance. Live cuttings of native woody species will also be planted at waterway crossings to enhance wetland functions and to hasten recovery. Woody species would include dogwood, willow, cottonwood and salmonberry. Revegetation will be monitored periodically for the first three years following construction.

Northwest has submitted a conceptual compensatory wetland mitigation plan that identified possible mitigation proposals to compensate for the temporary wetland impacts, conversion of 2.0 acres of scrub-shrub and forested wetlands to emergent wetlands and permanent loss of 0.72 acres of wetlands. Potential mitigation projects in the plan are presented by pipeline loop, watershed or Water Resource Inventory Area (WRIA) and county. These potential mitigation projects were recommended by various conservation organizations, tribes or agencies that have jurisdiction or interest in the affected WRIA's. The potential projects include preservation, wetland enhancement and restoration. For impacts in Sumas Loop in Whatcom County the applicant presented 12 potential preservation sites comprising over 30 parcels in WRIA 1. For impacts in Mount Vernon Loop in Snohomish County the applicant identified nine potential sites comprising 30 parcels in WRIA 5 and two in WRIA 7. For impacts in Snohomish Loop in Snohomish and King Counties the applicant presented six potential sites encompassing 22 parcels in WRIA 8. For impacts in Fort Lewis Loop the applicant identified four potential mitigation sites within Thurston County in WRIA 11, 13 and 23. To determine specific compensatory mitigation projects or sites, Northwest will conduct additional analysis or screening of these sites to determine their suitability. These analysis or screenings will include 1) site visits to determine presence, category and size of on-site wetlands; 2) screenings to determine the properties' risk of development, clearing or logging; 3) discussion with landowners to determine their willingness to either allow a conservation easement on the property or their willingness to sell the property; 4) appraisals to determine land values; and 5) landowner negotiation to ascertain selling price vs. appraised value. To mitigate for wetland fill impacts at the proposed 30-inch valve installation site, the applicant proposes to enhance 0.28 of emergent wetlands to expand an existing wetland mitigation site on Skagit County Northern States Property. To mitigate for permanent wetland fill impacts at the Chehalis Compressor Station the applicant proposed to enhance 2.60 acres of degraded emergent wetlands adjacent to the compressor station.

ENDANGERED SPECIES

The Endangered Species Act (ESA) of 1973, as amended, requires assessment of potential impacts to listed and proposed species. The bald eagle (*Haliaeetus leucocephalus*) listed threatened; marbled murrelet (*Brachyramphus marmoratus)* listed threatened; Northern spotted owl (*Strix occidentalis*), listed threatened; Gray wolf (*Canis lupus*) listed endangered; Grizzly bear (*Ursus arctos*) listed threatened; Canada lynx (*Lynx Canadensis*), listed threatened; Coastal/Puget Sound bull trout (*Salvelinus confluentus)* listed threatened; Puget Sound Chinook (*Oncorhynchus tshawytscha*) listed threatened; Golden paintbrush (*Castilleja levisecta*), listed threatened; Marsh sandwort (*Arenaria paludicola*), listed endangered; and Water howellia (*Howellia aquatilis*), listed threatened, may occur in the proposed project area. For marbled murrelet and spotted owl, critical habitat has been designated. For bull trout and Chinook, critical habitat has been proposed. The Federal Energy Regulatory Commission (FERC) is the lead federal agency for ESA. FERC has determined that

the proposed project "may affect and is likely to adversely affect:" bull trout and Chinook and "not likely to adversely modify" proposed critical habitat for bull trout and Chinook; "may affect, not likely to adversely affect" northern spotted owl and bald eagle and "not likely to adversely modify designated critical habitat for northern spotted owl"; and "no effect" for gray wolf, marsh sandwort, grizzly bear, golden paintbrush, water howellia, Canada lynx, and marbled murrelet and its designated critical habitat. FERC initiated consultation with the NMFS and the USFWS on March 1, 2005, as required under Section 7 of the ESA.

ESSENTIAL FISH HABITAT - The Magnuson-Stevens Fishery Conservation and Management Act (MSA), as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the National Marine Fisheries Service (NMFS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). EFH for Pacific salmon species occurs in the project area. FERC, as the lead federal agency for a determination regarding EFH, will consult with the National Marine Fisheries Services if necessary.

CULTURAL RESOURCES - The FERC, as the lead agency for determining compliance with Section 106 of the National Historic Preservation Act, will consult with the State Historic Preservation Office as appropriate. The District Engineer invites responses to this public notice from Native American Nations or tribal governments; Federal, State, and local agencies; historical and archeological societies; and other parties likely to have knowledge of or concerns with historic properties in the area. This public notice initiates consultation under Section 106 of the National Historic Preservation Act (36 CFR 800.4[a][3]), with any Tribe that has information or concerns with historic properties in the proposed permit area.

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 - The decision whether to issue a permit will be based on an evaluation of the probable impact, 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 U.S. Army Corps of Engineers (Corps) is soliciting comments from the public; Federal, State, and local agencies and officials; Indian tribes; 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 evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act. This evaluation will include an alternatives analysis.

200400304

ADDITIONAL EVALUATION - The State of Washington is reviewing this work for consistency with the approved Washington Coastal Zone Management Program and for compliance with the applicable State and Federal water quality standards pursuant to Section 401 of the Clean Water Act. The Environmental Protection Agency is reviewing this work for compliance with the applicable Federal water quality standards pursuant to Section 401 of the Clean Water Act on Federal non-tribal lands.

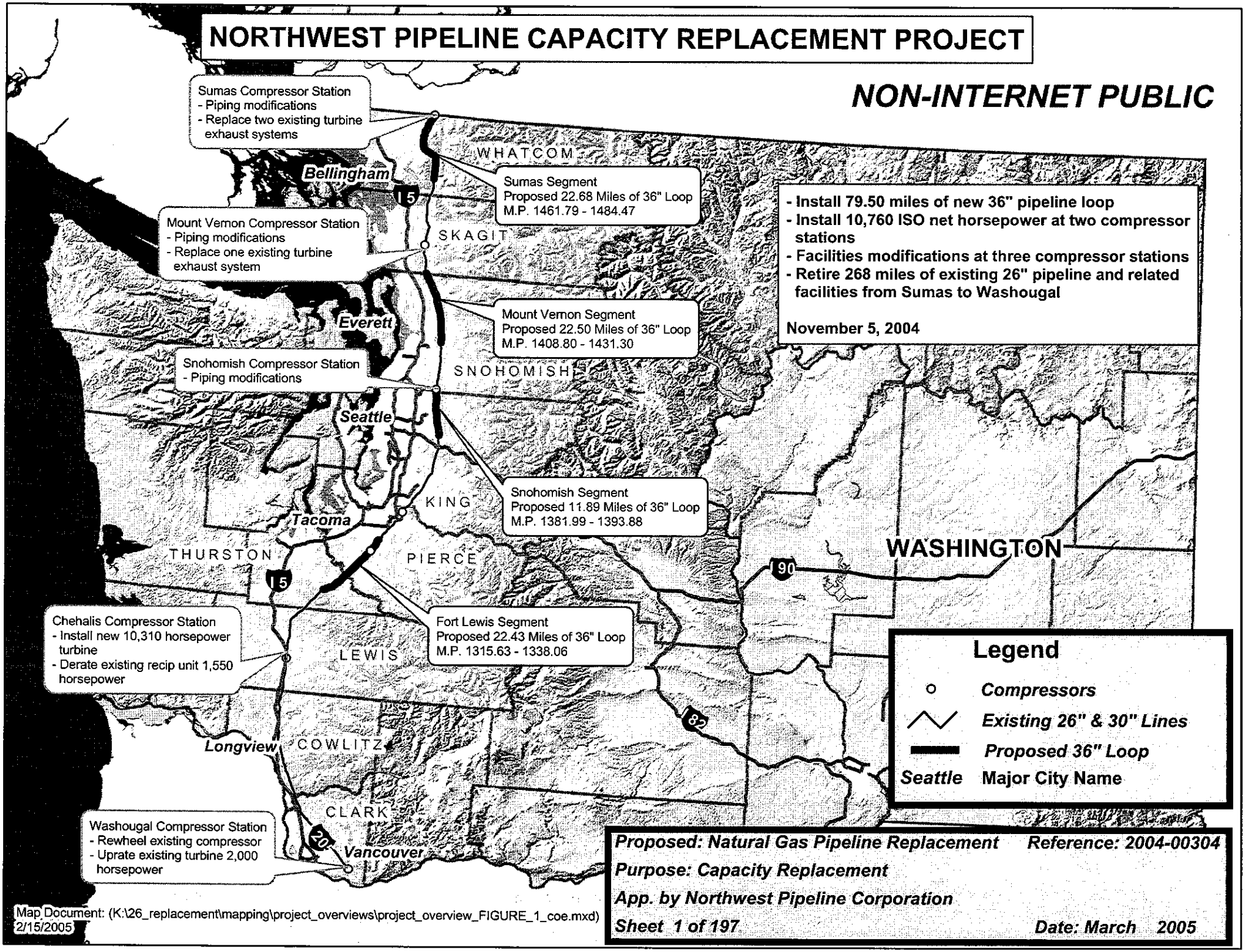
COMMENT AND REVIEW PERIOD - Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether it would be in the public interest to authorize this proposal. In order to be accepted, e-mail comments must originate from 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. All e-mail comments should be sent to Olivia.H.Romano@usace.army.mil. Conventional mail comments should be sent U.S. Army Corps of Engineers, Regulatory Branch, Post Office Box 3755, Seattle, Washington, 98124-3755. Both conventional mail or e-mail comments must include the permit applicant's name and reference number, as shown below, and the commentor'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. Please include the following name and reference number:

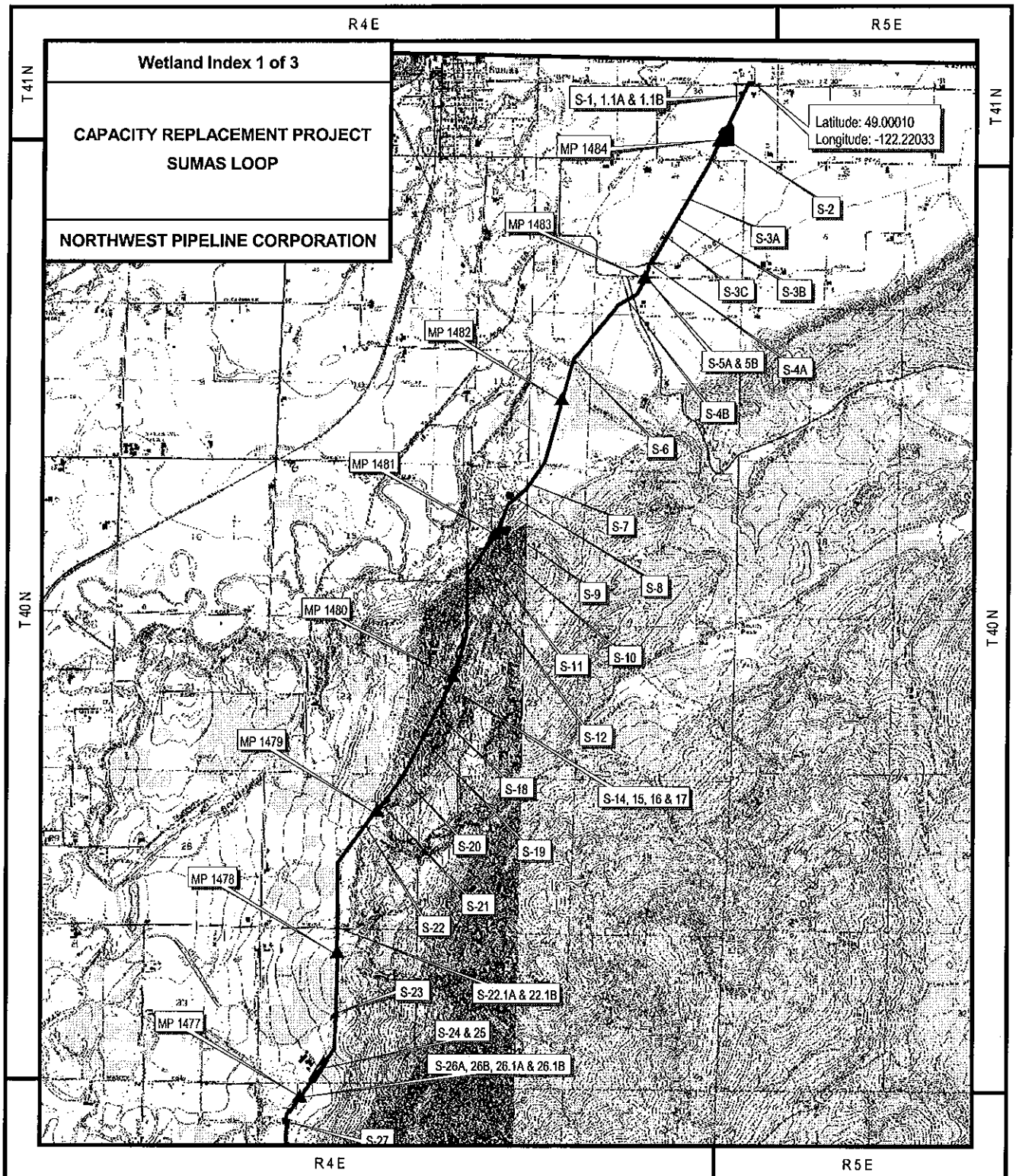
Northwest Pipeline Corporation
200400304

Encl
Drawings (197 complete set)
(78 abbreviated set)

# NORTHWEST PIPELINE CAPACITY REPLACEMENT PROJECT

**NON-INTERNET PUBLIC**






SUMAS LOOP INDEX (Page 1 of 3)

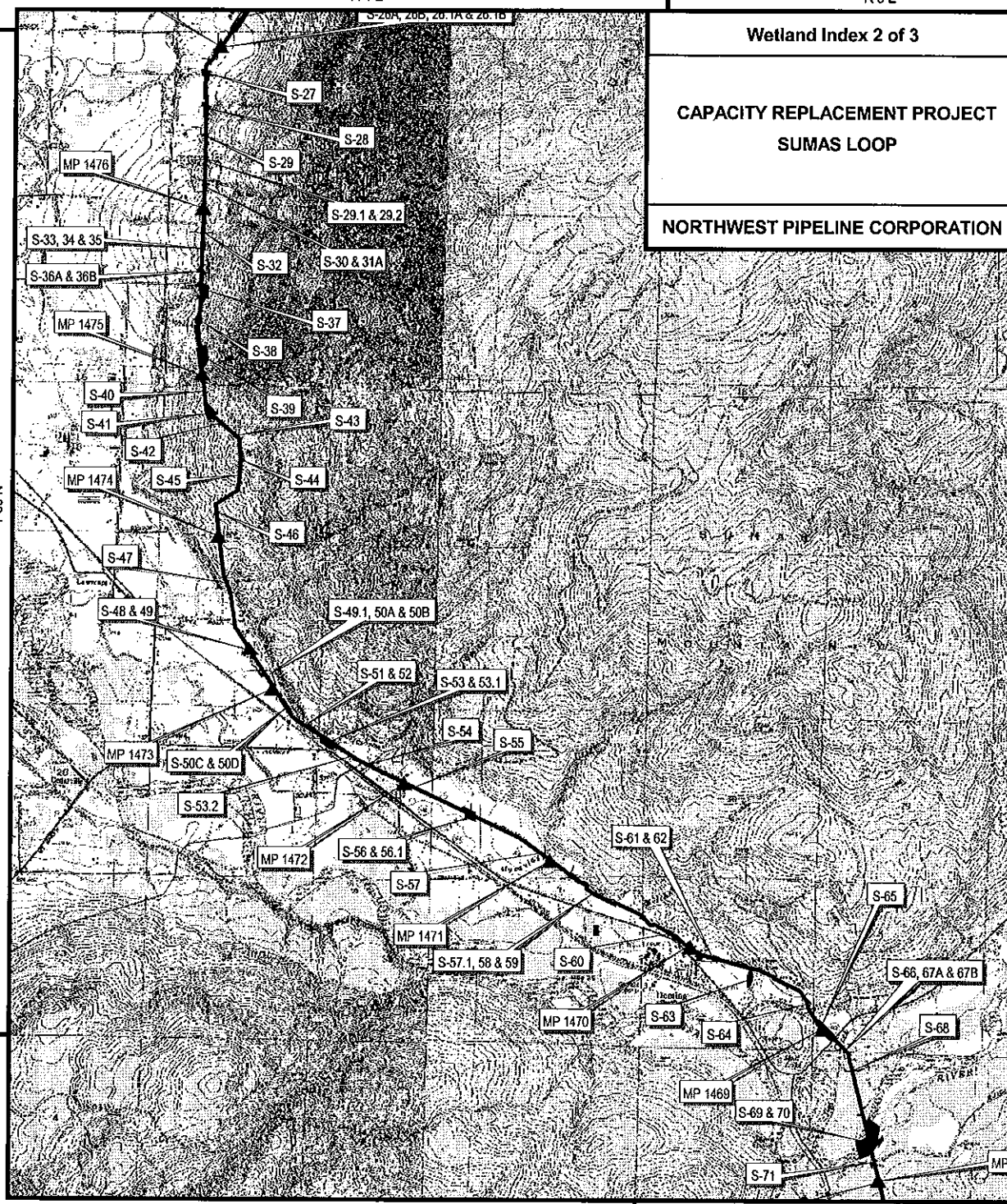
Existing Northwest Pipeline System
Wetlands

N
W E
S

4000 0 4000 Feet
1 0 1 Miles

Sumas, WA & Kendall, WA 7.5 Minute USGS Quadrangles - Whatcom County, Washington

Proposed: Natural Gas Pipeline Replacement
Reference: 2004-00304
Purpose: Capacity Replacement
App. by Northwest Pipeline Corporation
Sheet 2 of 197
Date: March 2005




SUMAS LOOP INDEX (Page 2 of 3)

Existing Northwest Pipeline System
Wetlands

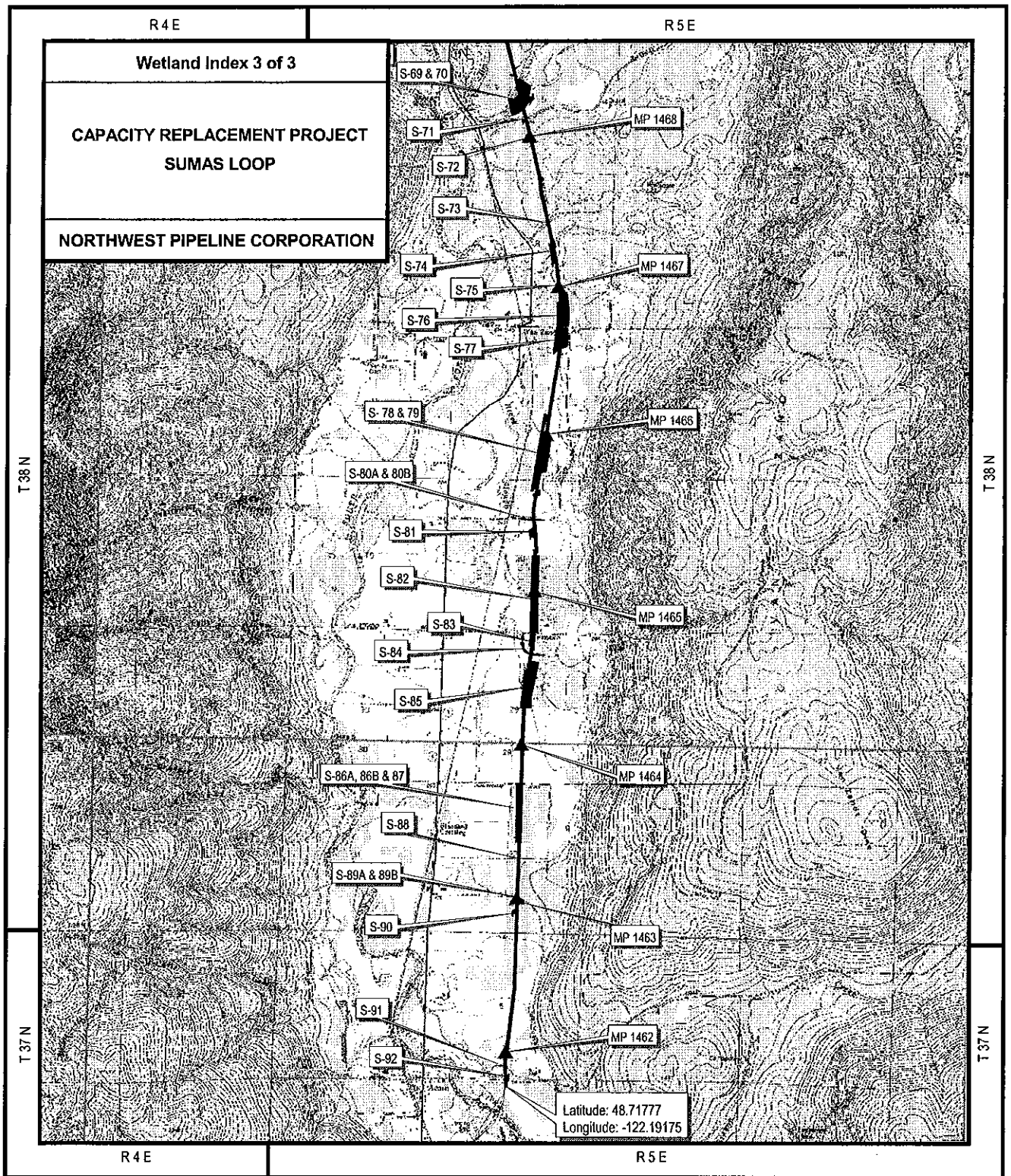
N
W E
S

4000 0 4000 Feet
1 0 1 Miles

Sumas, WA, Lawrence, WA & Deming, WA 7.5 Minute USGS Quadrangles - Whatcom County, Washington

Proposed: Natural Gas Pipeline Replacement
Purpose: Capacity Replacement
App. by Northwest Pipeline Corporation
Sheet 3 of 197

Reference: 2004-00304
Date: March 2005




SUMAS LOOP INDEX (Page 3 of 3)

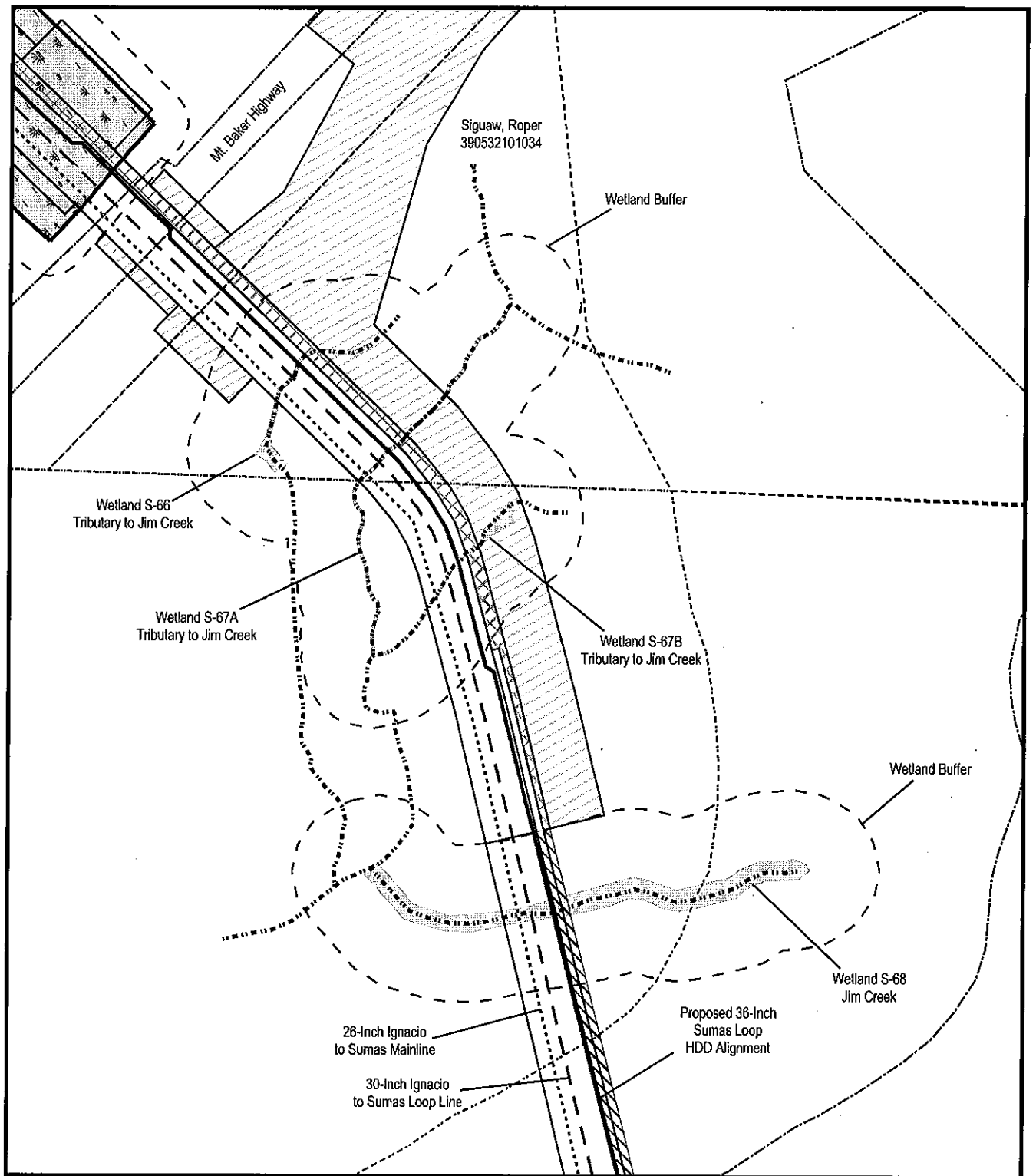
Existing Northwest Pipeline System
Wetlands

N W E S

4000 0 4000 Feet
1 0 1 Miles

Deming, WA & Acme WA 7.5 Minute USGS Quadrangles - Whatcom County, Washington

Proposed: Natural Gas Pipeline Replacement
Reference: 2004-00304
Purpose: Capacity Replacement
App. by Northwest Pipeline Corporation
Sheet 4 of 197
Date: March 2005




Whatcom County
T39N, R5E, Section 32
T38N, R5E, Section 5

WETLANDS S-66, 67A, 67B & 68

Existing Permanent Easement
Temporary Construction Right-of-Way
Temporary Extra Workspace
Parcel Boundaries

N W E S

200 0 200 Feet

Proposed: Natural Gas Pipeline Replacement

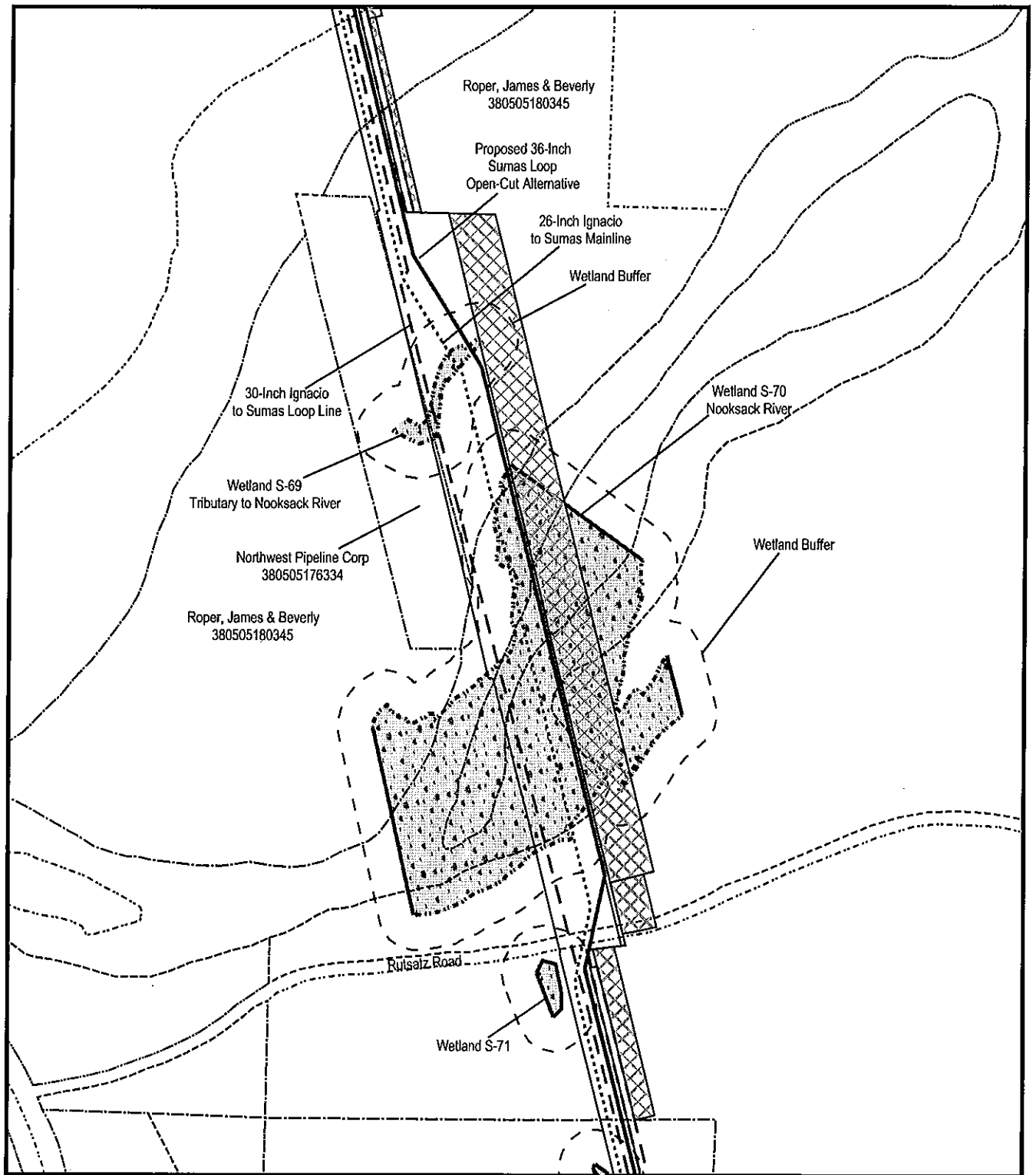
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 43 of 197

Date: March 2005




Whatcom County
T38N, R5E, Section 5

WETLANDS S-69, 70, 71 & 72

Existing Permanent Easement
Temporary Construction Right-of-Way
Temporary Extra Workspace
Parcel Boundaries

N W E S

400 0 400 Feet

Proposed: Natural Gas Pipeline Replacement

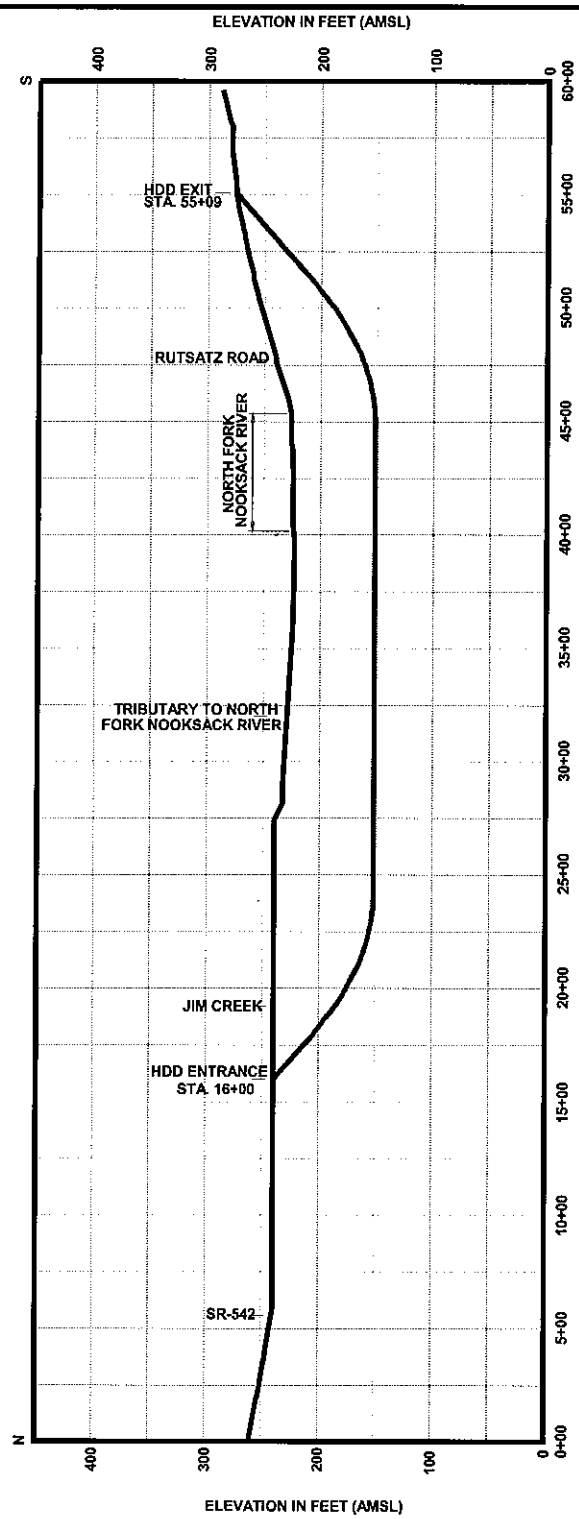
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 45 of 197

Date: March 2005




Whatcom County
T38N, R5E, Section 5

WETLAND S-70
NOOKSACK RIVER

Proposed: Natural Gas Pipeline Replacement

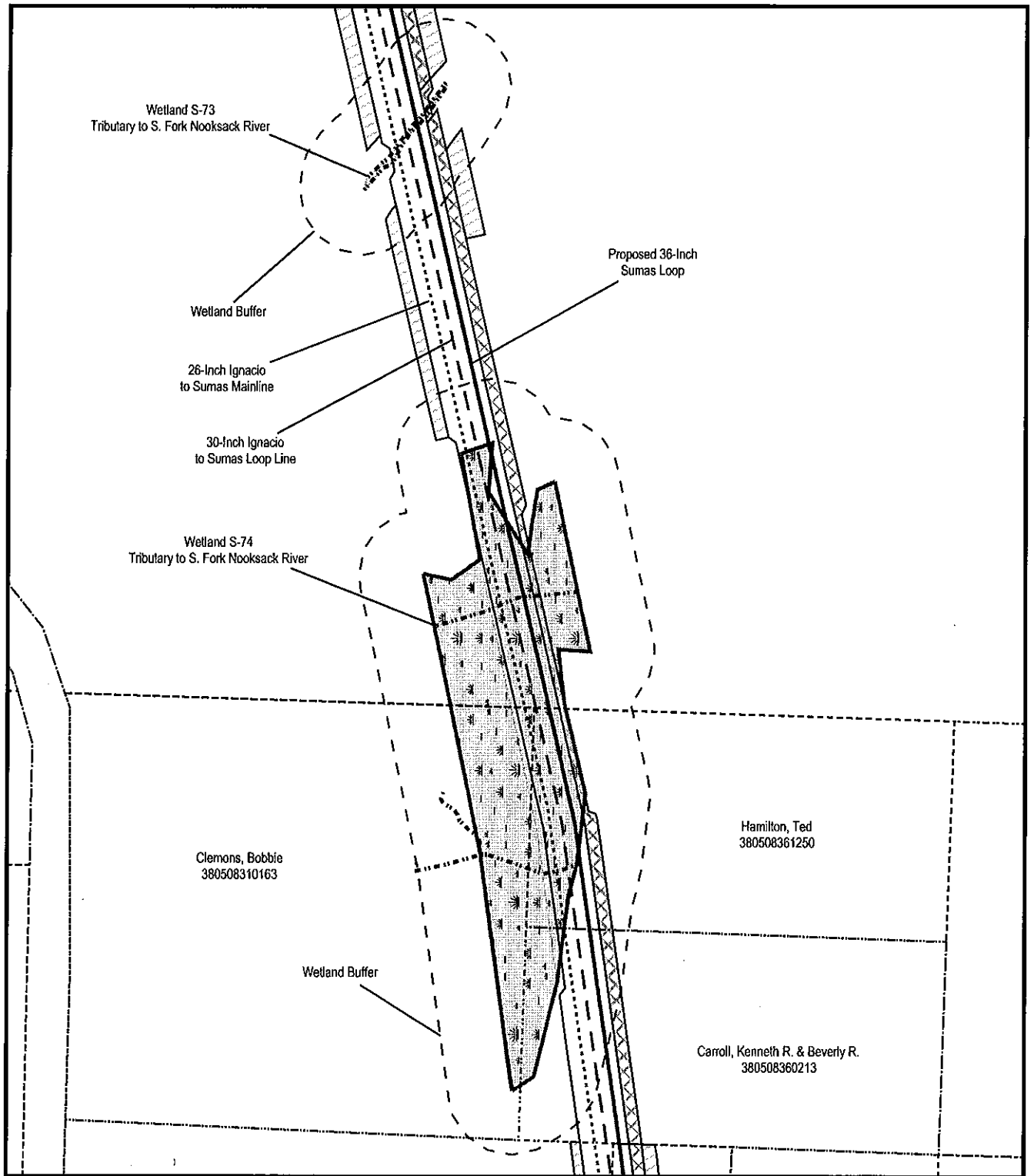
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 46 of 197

Date: March 2005




Whatcom County
T38N, R5E, Section 8

WETLANDS S-73 & 74

Existing Permanent Easement
Temporary Construction Right-of-Way
Temporary Extra Workspace
Parcel Boundaries

N W E S

200 0 200 Feet

Proposed: Natural Gas Pipeline Replacement

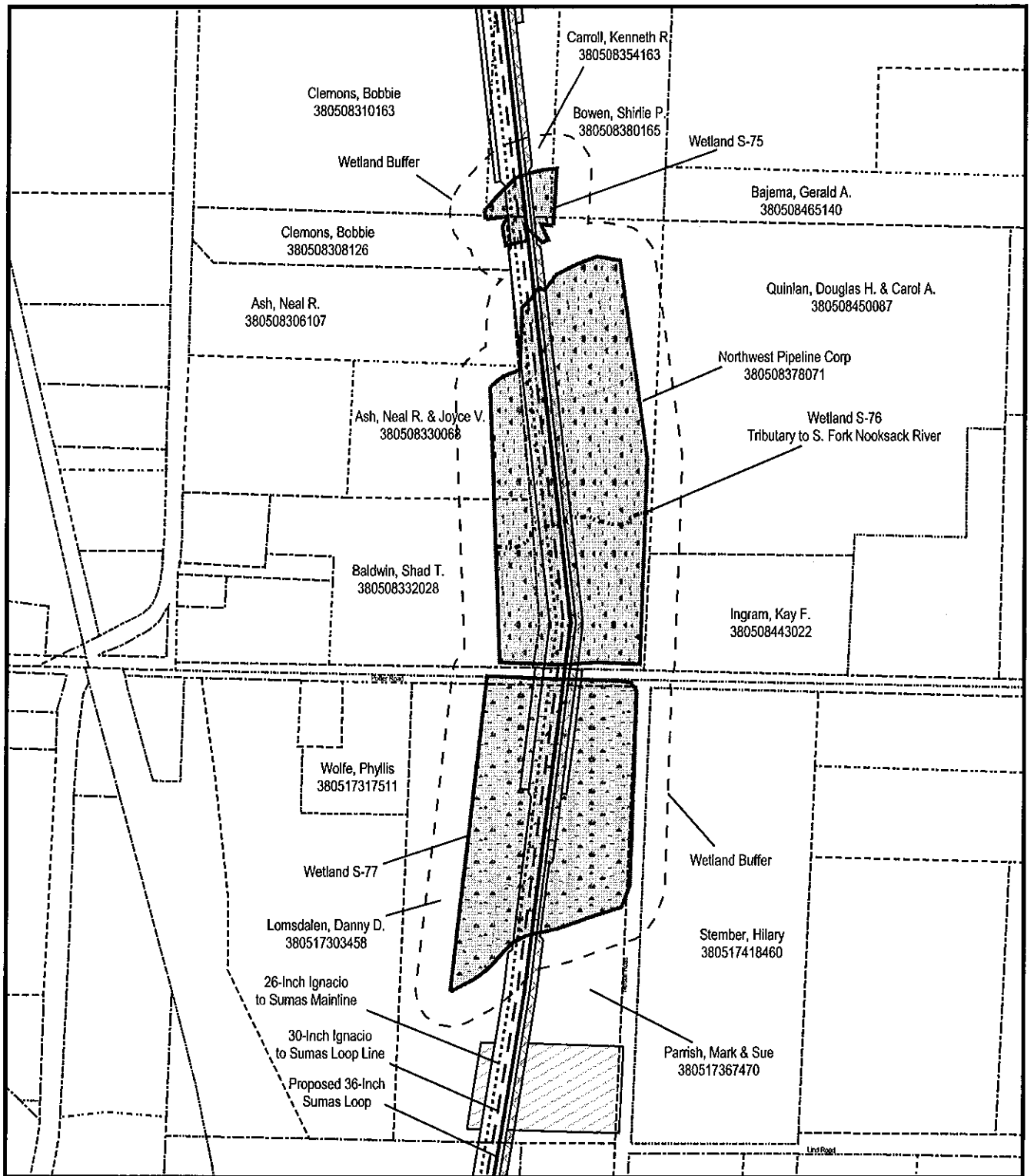
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 47 of 197

Date: March 2005




Whatcom County
T38N, R5E, Sections 8 & 17

WETLANDS S-75, 76 & 77

Existing Permanent Easement
Temporary Construction Right-of-Way
Temporary Extra Workspace
Parcel Boundaries

N W E S

400 0 400 Feet

Proposed: Natural Gas Pipeline Replacement

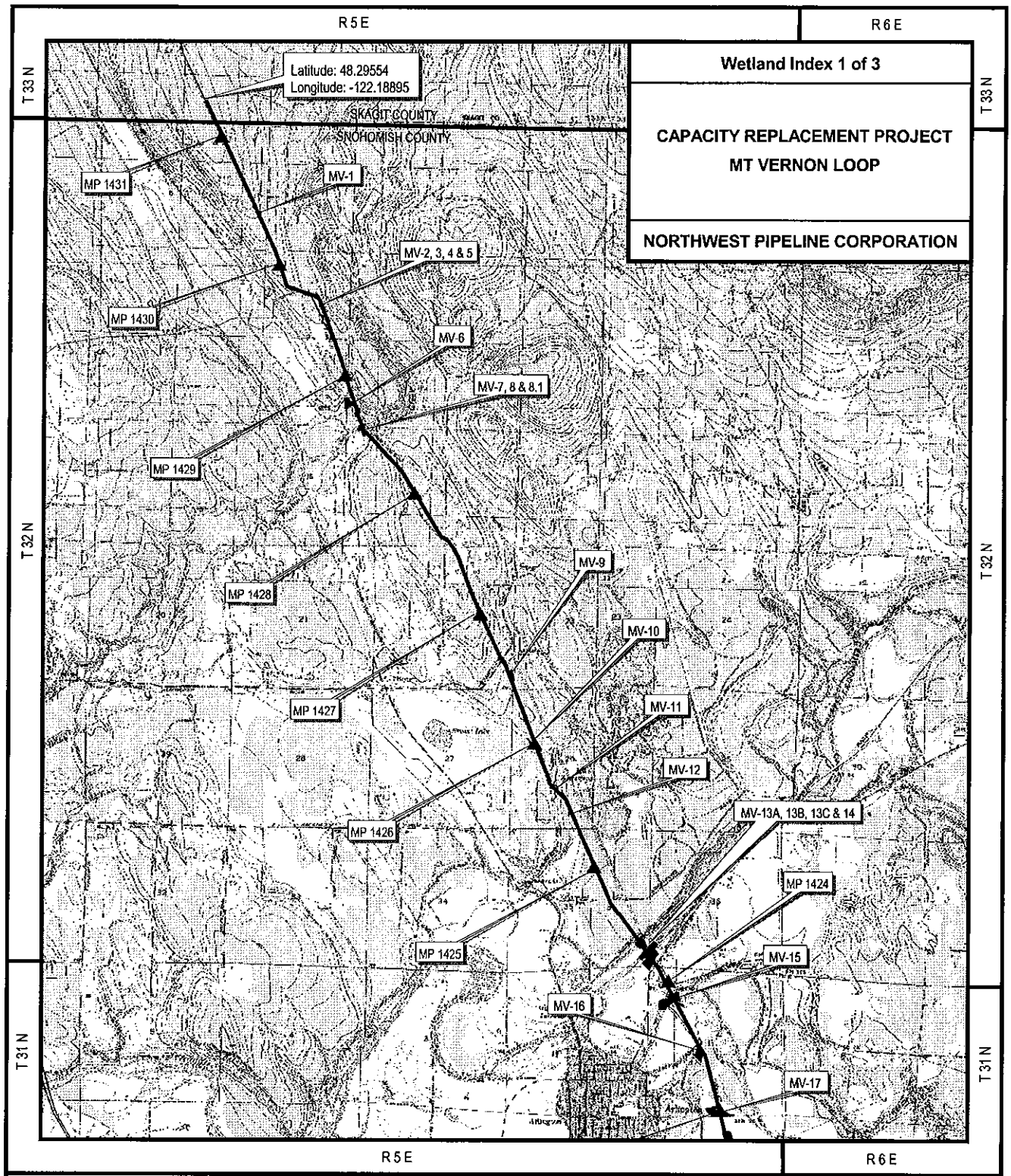
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 48 of 197

Date: March 2005




**Wetland Index 1 of 3**

**CAPACITY REPLACEMENT PROJECT**
**MT VERNON LOOP**

**NORTHWEST PIPELINE CORPORATION**

MT VERNON LOOP INDEX (Page 1 of 3)

Existing Northwest Pipeline System
Wetlands

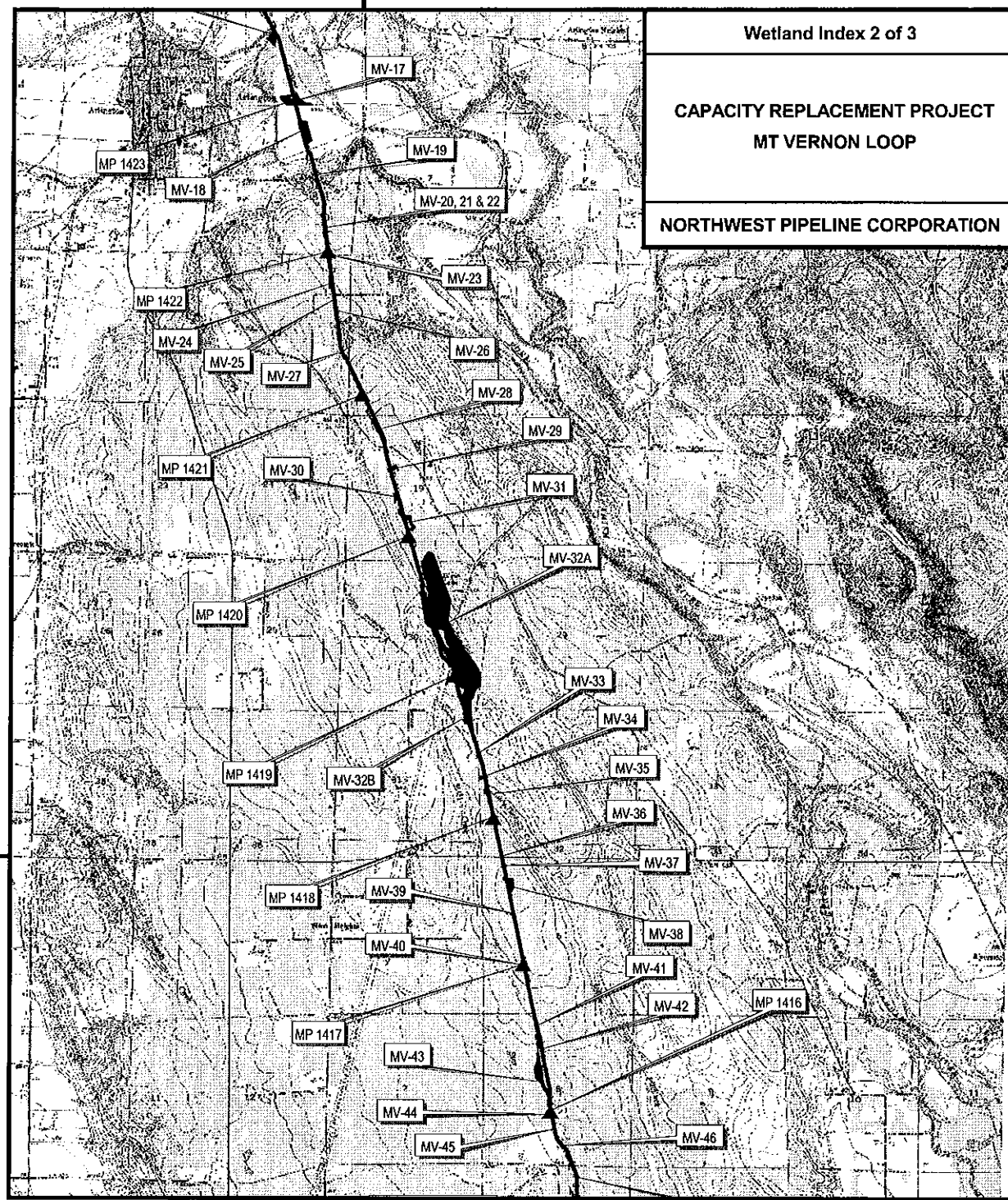
N W E S

4000 0 4000 Feet
1 0 1 Miles

McMurray, WA, Arlington East & West, WA 7.5 Minute USGS Quadrangles - Snohomish County, Washington

Proposed: Natural Gas Pipeline Replacement
Purpose: Capacity Replacement
App. by Northwest Pipeline Corporation
Sheet 56 of 197

Reference: 2004-00304
Date: March 2005




**Wetland Index 2 of 3**

**CAPACITY REPLACEMENT PROJECT**
**MT VERNON LOOP**

**NORTHWEST PIPELINE CORPORATION**

MT VERNON LOOP INDEX (Page 2 of 3)

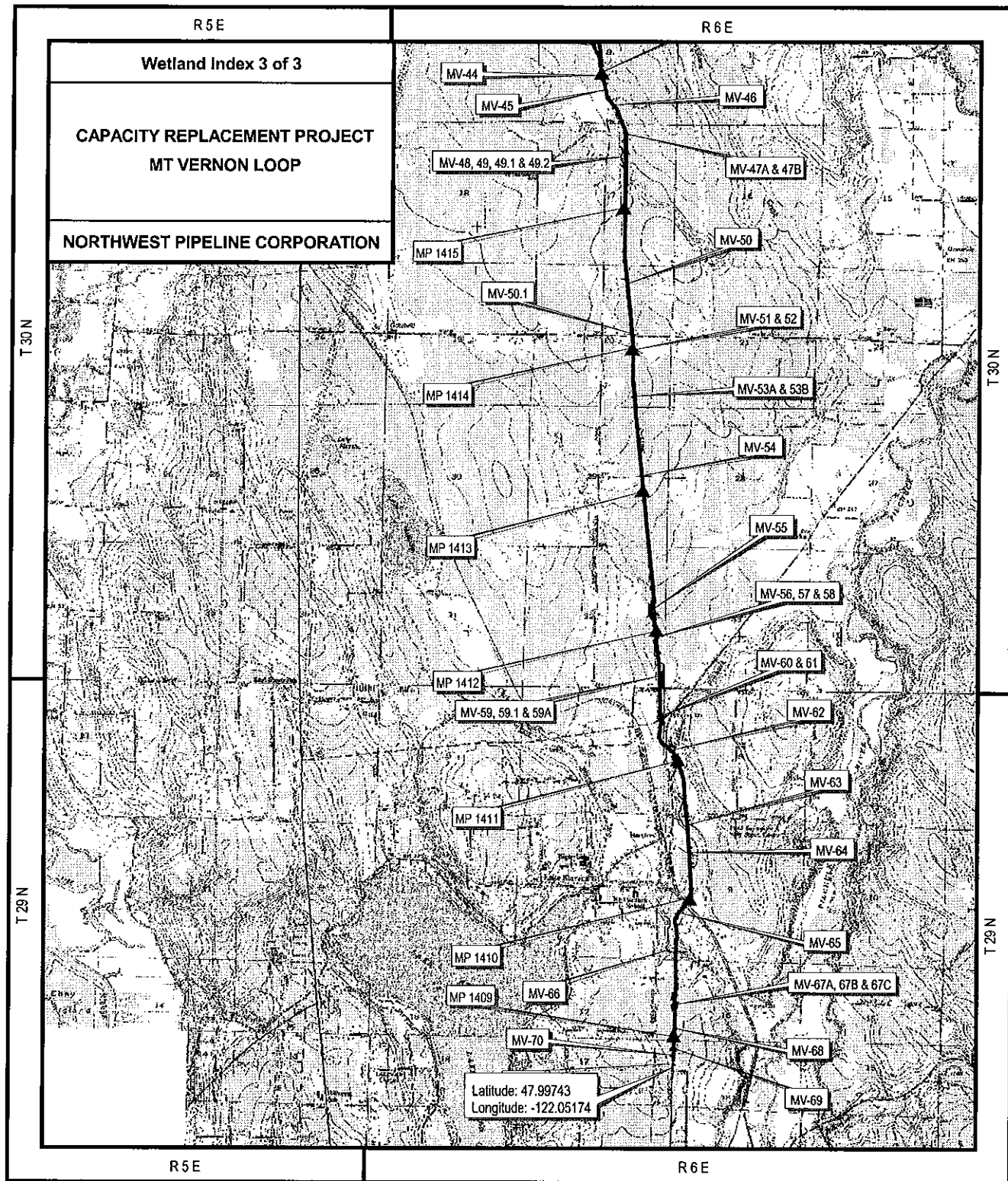
Existing Northwest Pipeline System
Wetlands

N W E S

4000 0 4000 Feet
1 0 1 Miles

Arlington East, WA & Lake Stevens, WA 7.5 Minute USGS Quadrangles - Snohomish County, Washington

Proposed: Natural Gas Pipeline Replacement
Reference: 2004-00304
Purpose: Capacity Replacement
App. by Northwest Pipeline Corporation
Sheet 57 of 197
Date: March 2005



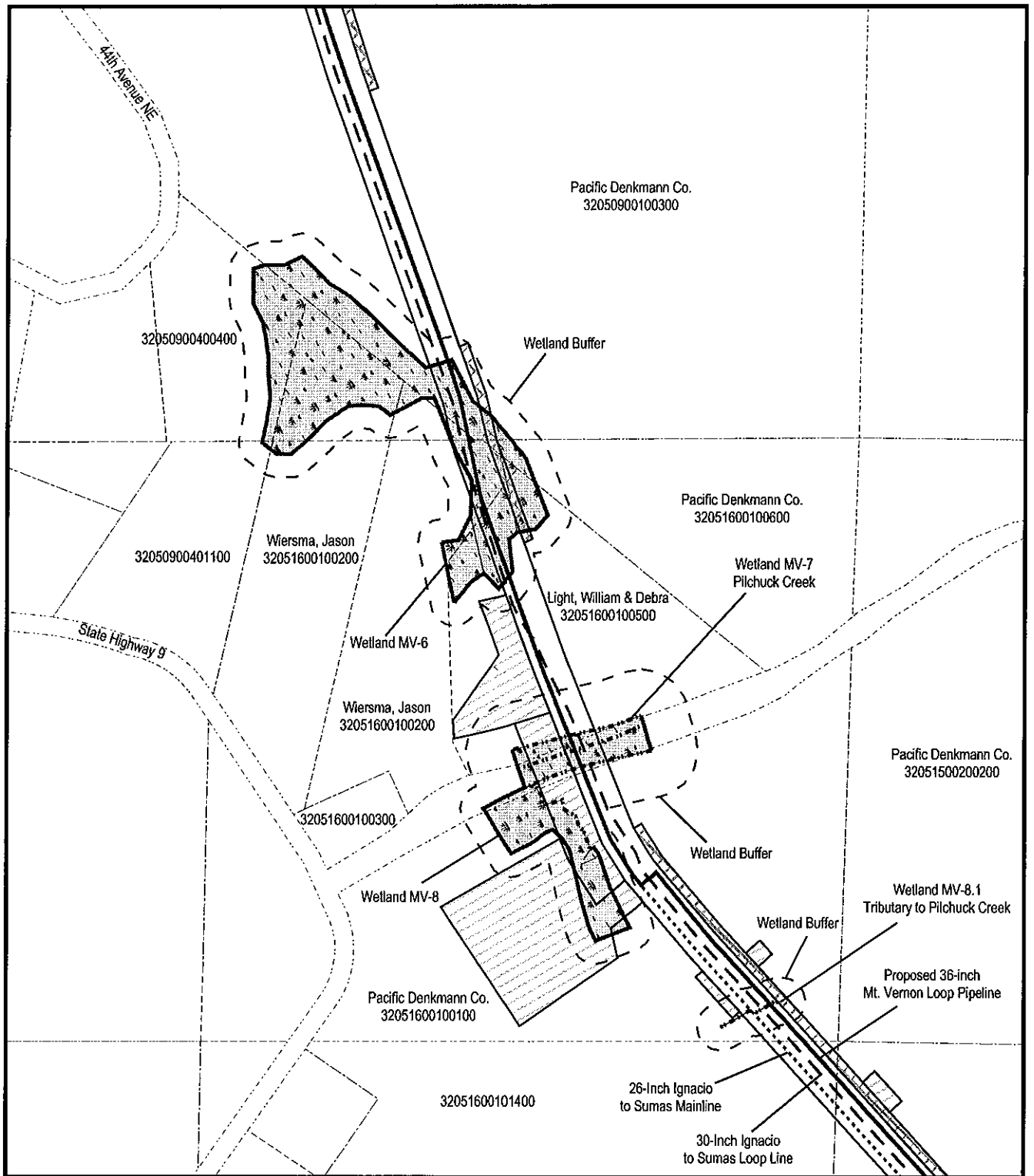

MT VERNON LOOP INDEX (Page 3 of 3)

Existing Northwest Pipeline System
Wetlands

4000 0 4000 Feet
1 0 1 Miles

Lake Stevens, WA & Snohomish, WA 7.5 Minute USGS Quadrangles - Snohomish County, Washington

Proposed: Natural Gas Pipeline Replacement
Reference: 2004-00304
Purpose: Capacity Replacement
App. by Northwest Pipeline Corporation
Sheet 58 of 197
Date: March 2005




Snohomish County
T32N, R5E, Sections 9 & 16

WETLANDS MV-6, 7, 8 & 8.1

Existing Permanent Easement
Temporary Construction Right-of-Way
Temporary Extra Workspace
Parcel Boundaries

N W E S

300 0 300 Feet

Proposed: Natural Gas Pipeline Replacement

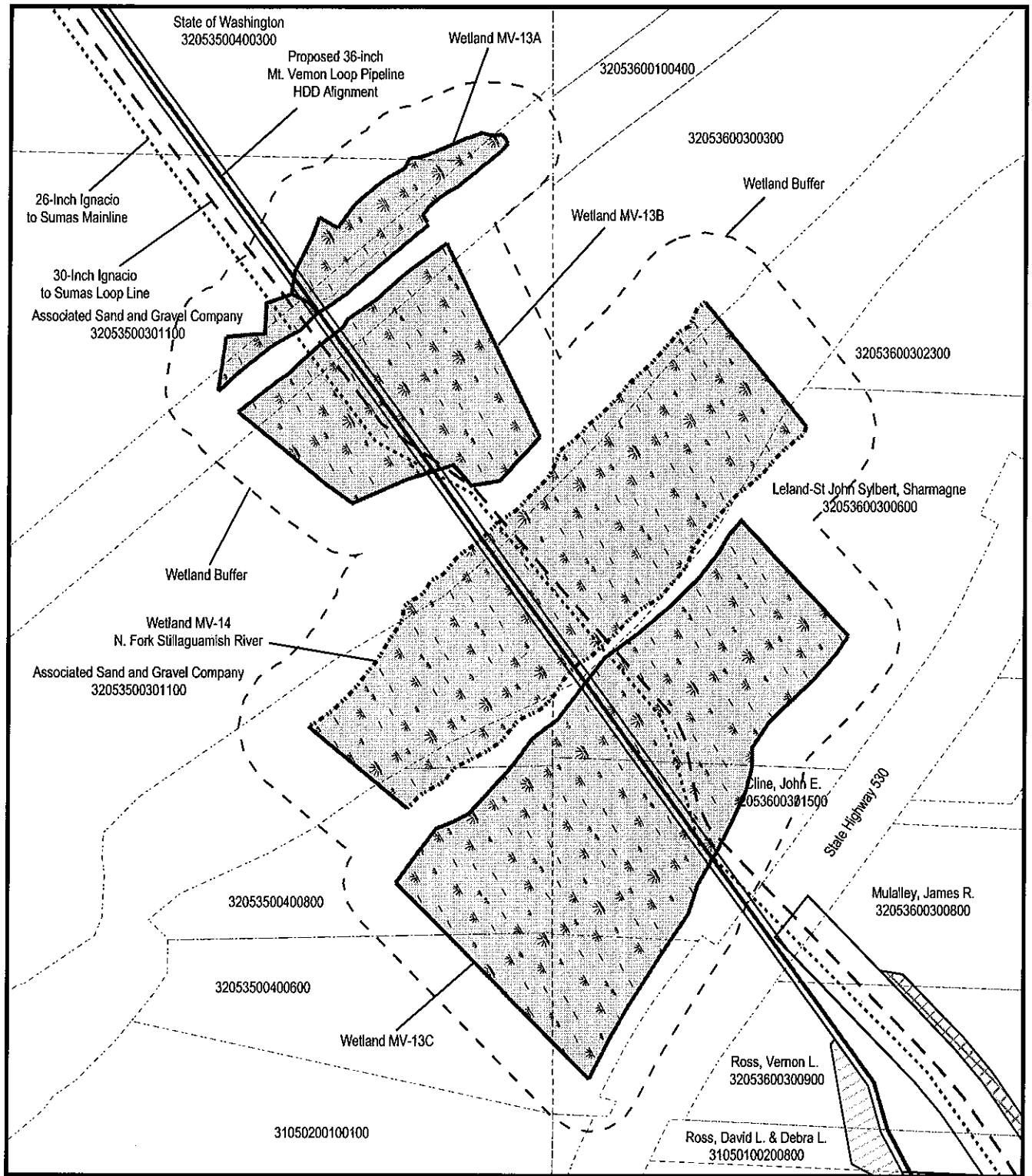
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 61 of 197

Date: March 2005




Snohomish County
T32N, R5E, Sections 35 & 36

WETLAND MV-13A, 13B, 13C & 14

Existing Permanent Easement
Temporary Construction Right-of-Way
Temporary Extra Workspace
Parcel Boundaries

N W E S

200 0 200 Feet

Proposed: Natural Gas Pipeline Replacement

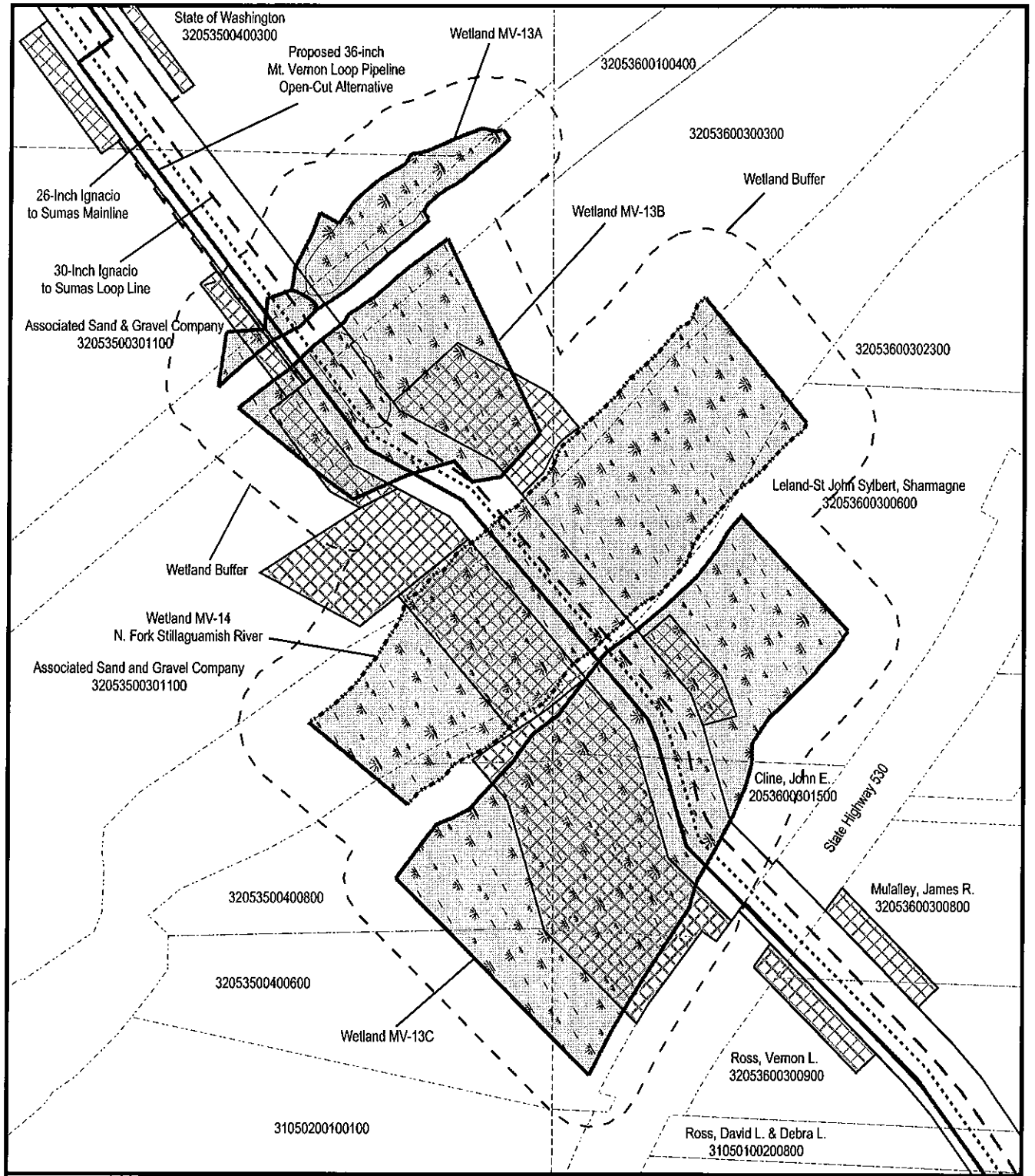
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 65 of 197

Date: March 2005




Snohomish County
T32N, R5E, Sections 35 & 36

WETLAND MV-13A, 13B, 13C & 14

Existing Permanent Easement
Temporary Construction Right-of-Way
Temporary Extra Workspace
Parcel Boundaries

N W E S

200 0 200 Feet

Proposed: Natural Gas Pipeline Replacement

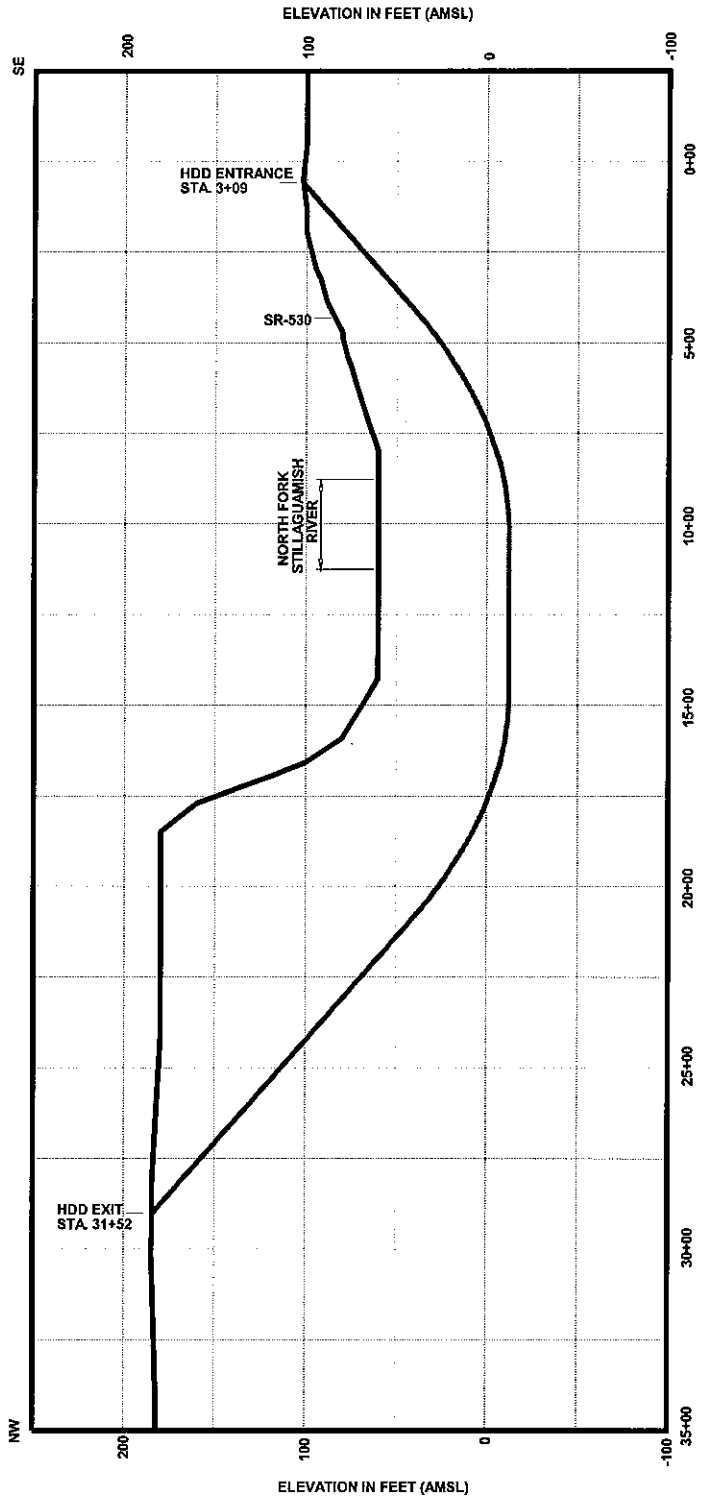
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 66 of 197

Date: March 2005




Snohomish County
T32N, R5E, Sections 35 & 36

WETLAND MV-14
North Fork Stillaguamish River

Proposed: Natural Gas Pipeline Replacement

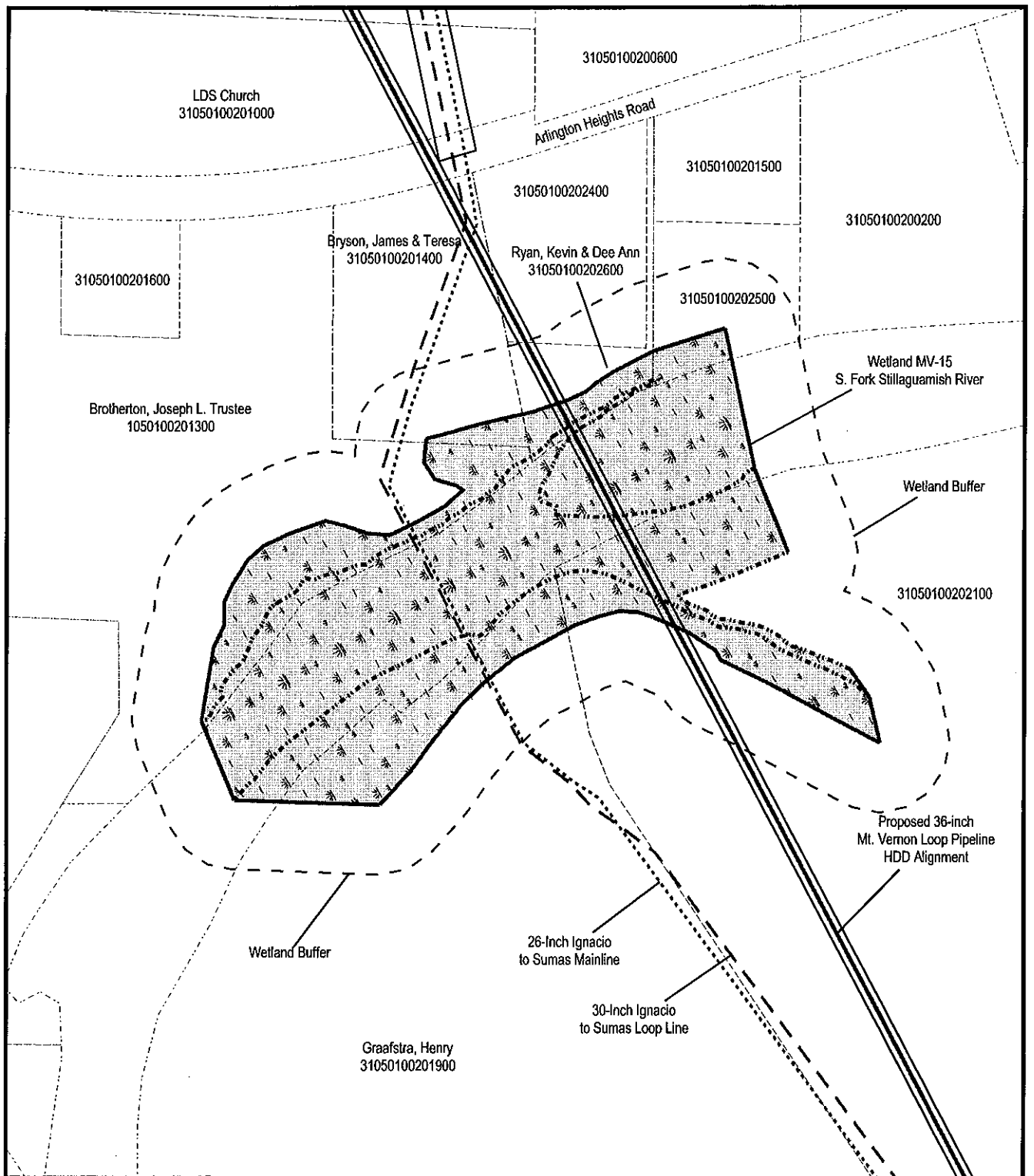
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 67 of 197

Date: March 2005




Snohomish County
T31N, R5E, Section 1

WETLAND MV-15

Existing Permanent Easement
Temporary Construction Right-of-Way
Temporary Extra Workspace
Parcel Boundaries

N
W E
S

200 0 200 Feet

Proposed: Natural Gas Pipeline Replacement

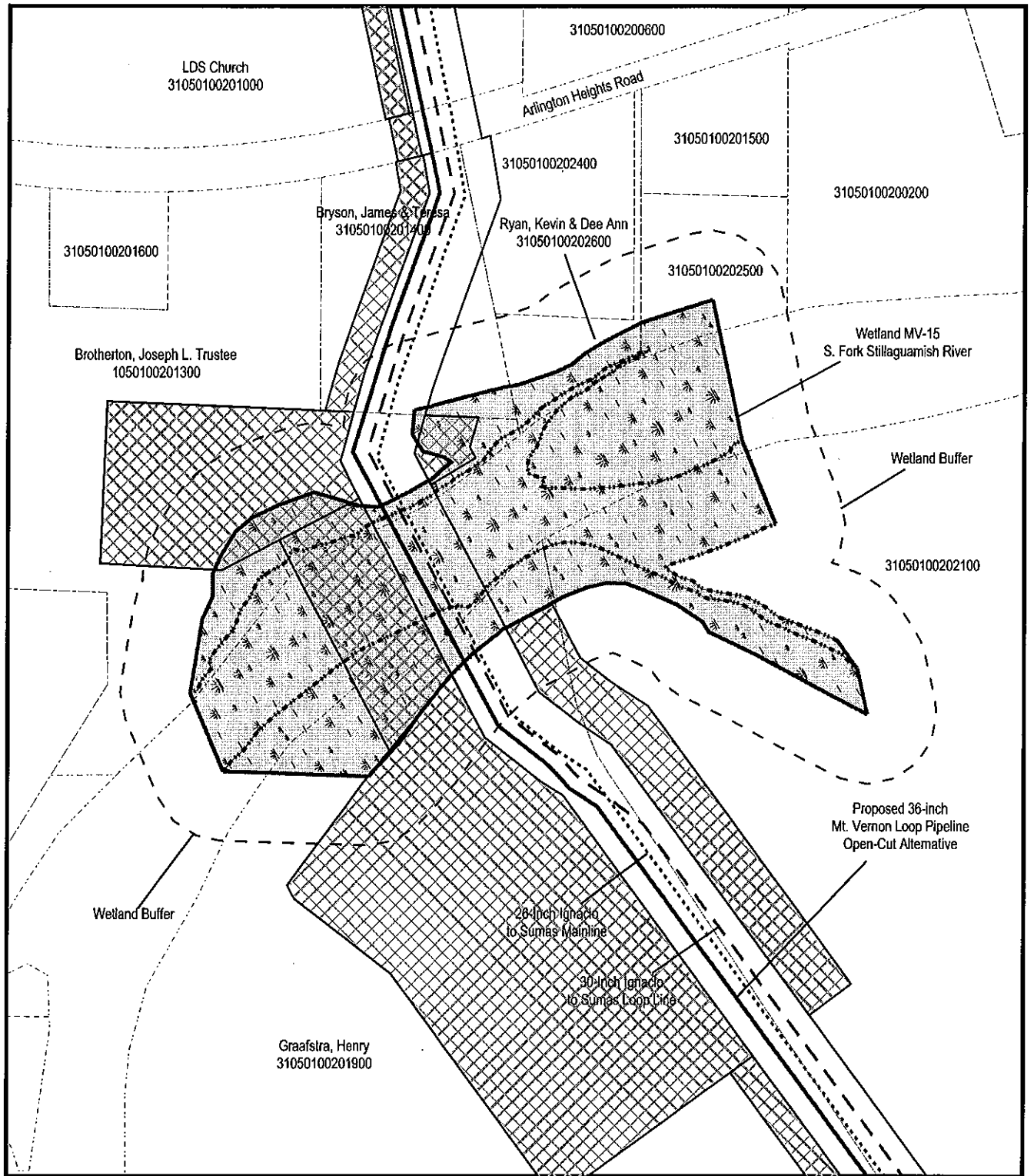
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 68 of 197

Date: March 2005




Snohomish County
T31N, R5E, Section 1

WETLAND MV-13A, 13B, 13C & 14

Existing Permanent Easement
Temporary Construction Right-of-Way
Temporary Extra Workspace
Parcel Boundaries

N
W E
S

200 0 200 Feet

Proposed: Natural Gas Pipeline Replacement

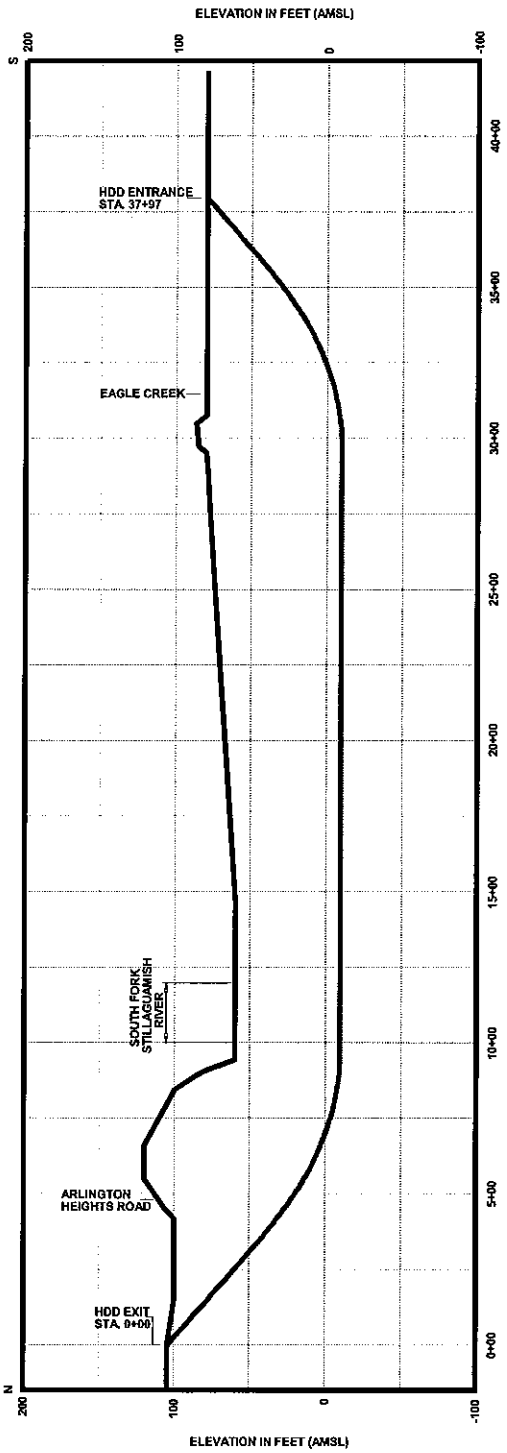
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 69 of 197

Date: March 2005




Snohomish County
T31N, R5E, Section 1

WETLAND MV-15
South Fork Stillaguamish River

Proposed: Natural Gas Pipeline Replacement

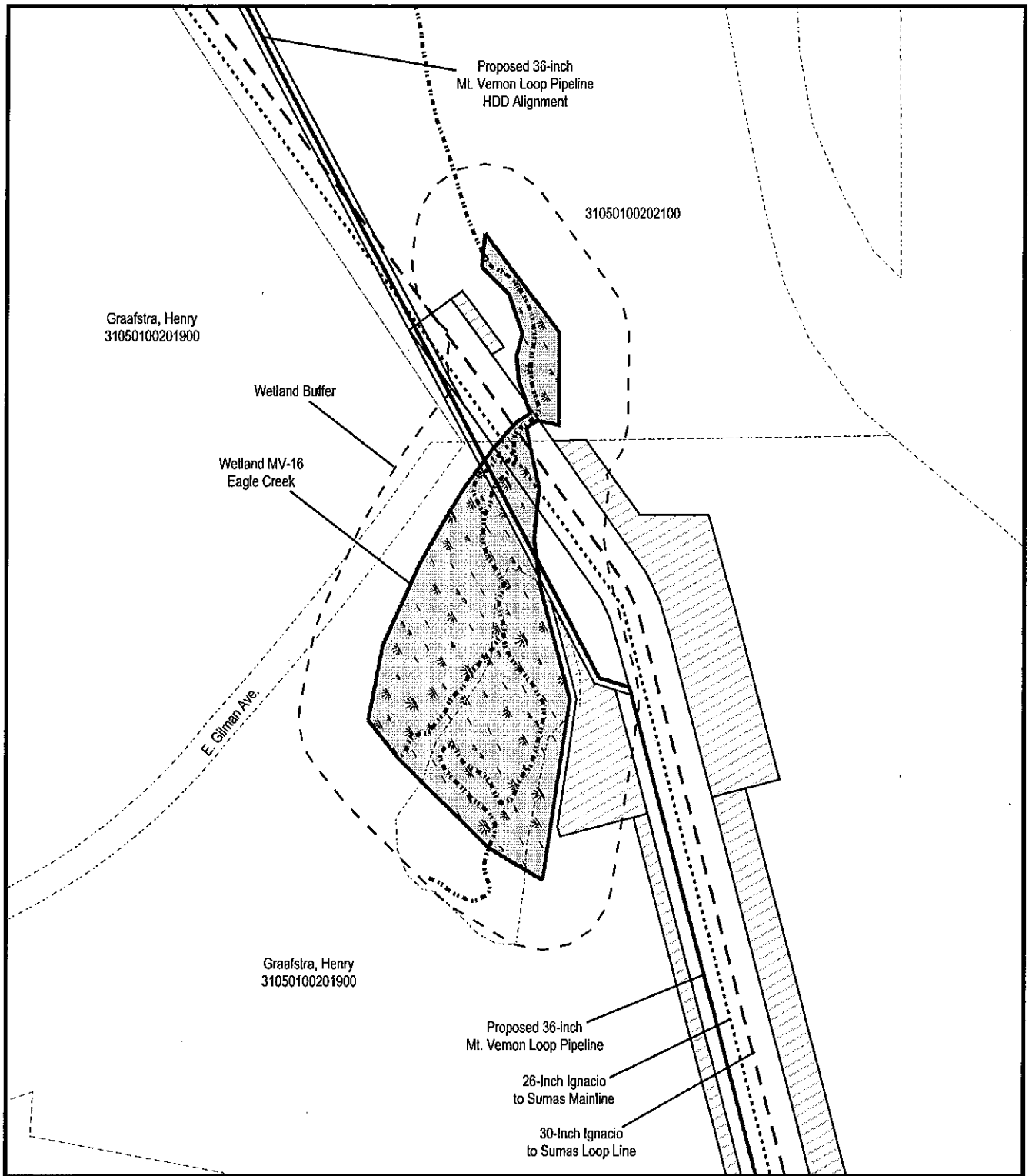
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 70 of 197

Date: March 2005




Snohomish County
T31N, R5E, Section 1

WETLAND MV-16

Existing Permanent Easement
Temporary Construction Right-of-Way
Temporary Extra Workspace
Parcel Boundaries

N W E S

200 0 200 Feet

Proposed: Natural Gas Pipeline Replacement

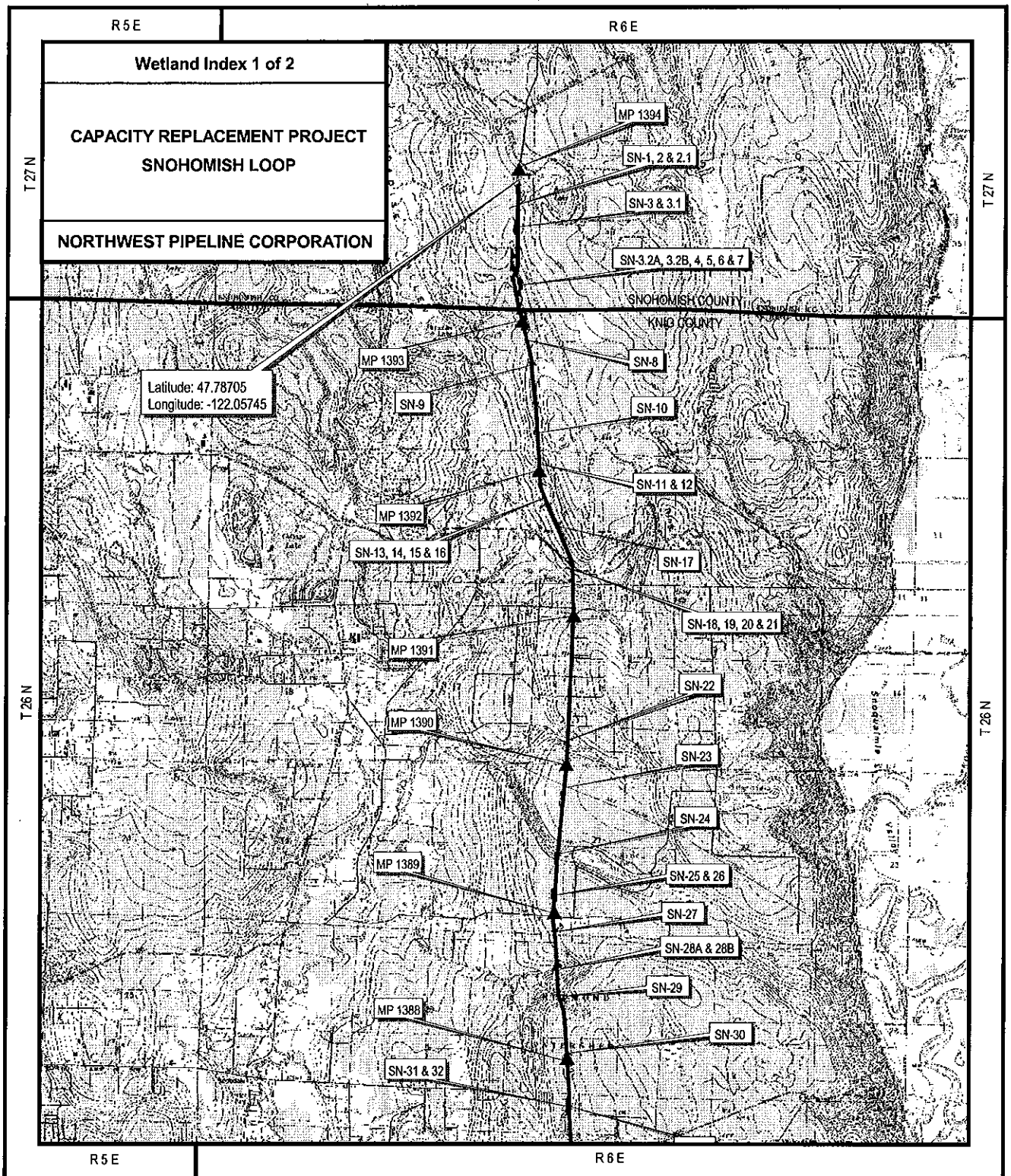
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 71 of 197

Date: March 2005




SNOHOMISH LOOP INDEX (Page 1 of 2)

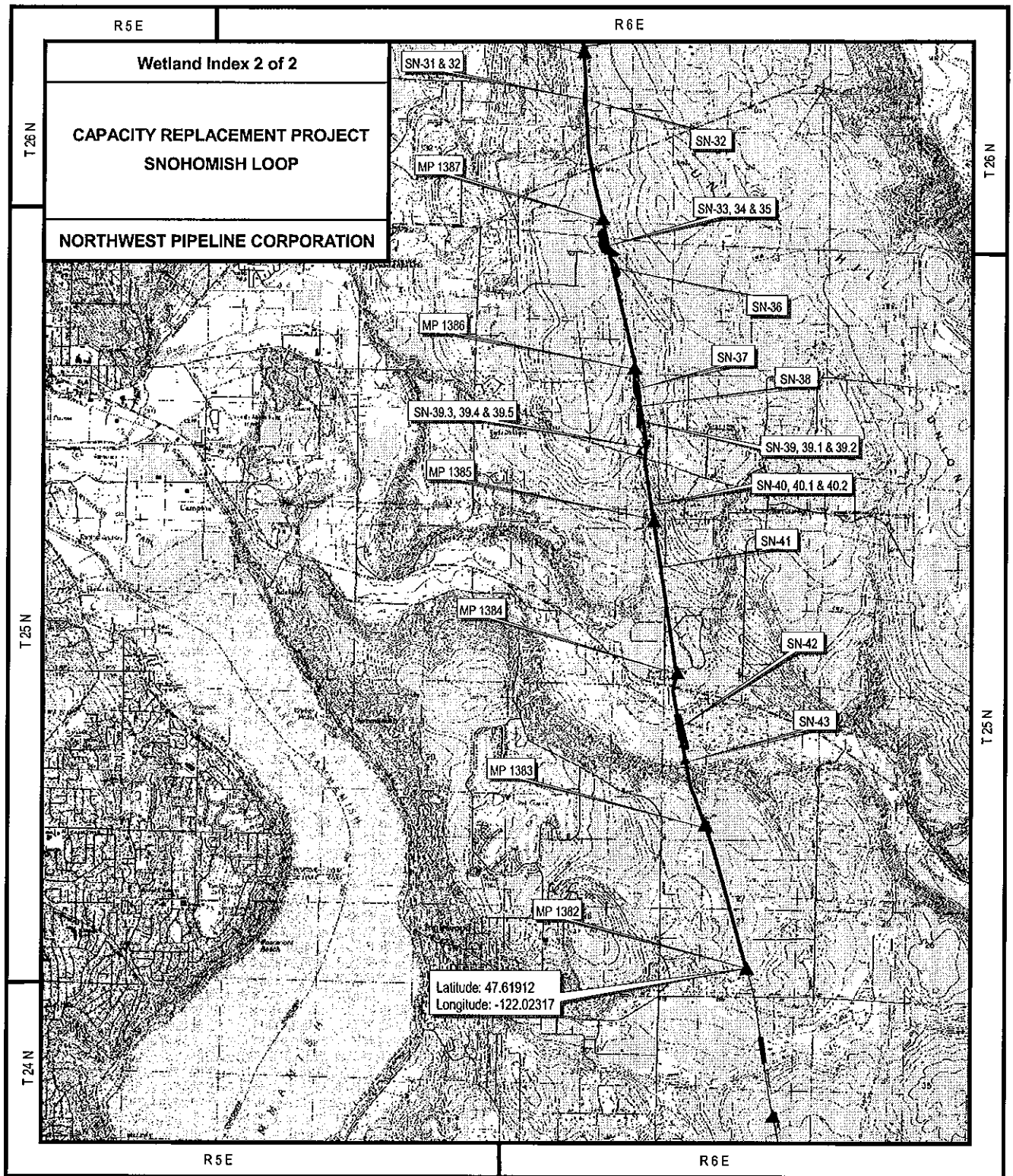
Existing Northwest Pipeline System
Wetlands

N W E S

4000 0 4000 Feet
1 0 1 Miles

Maltby, WA & Redmond, WA 7.5 Minute USGS Quadrangles - Snohomish & King Counties, Washington

Proposed: Natural Gas Pipeline Replacement
Reference: 2004-00304
Purpose: Capacity Replacement
App. by Northwest Pipeline Corporation
Sheet 103 of 197
Date: March 2005




SNOHOMISH LOOP INDEX (Page 2 of 2)

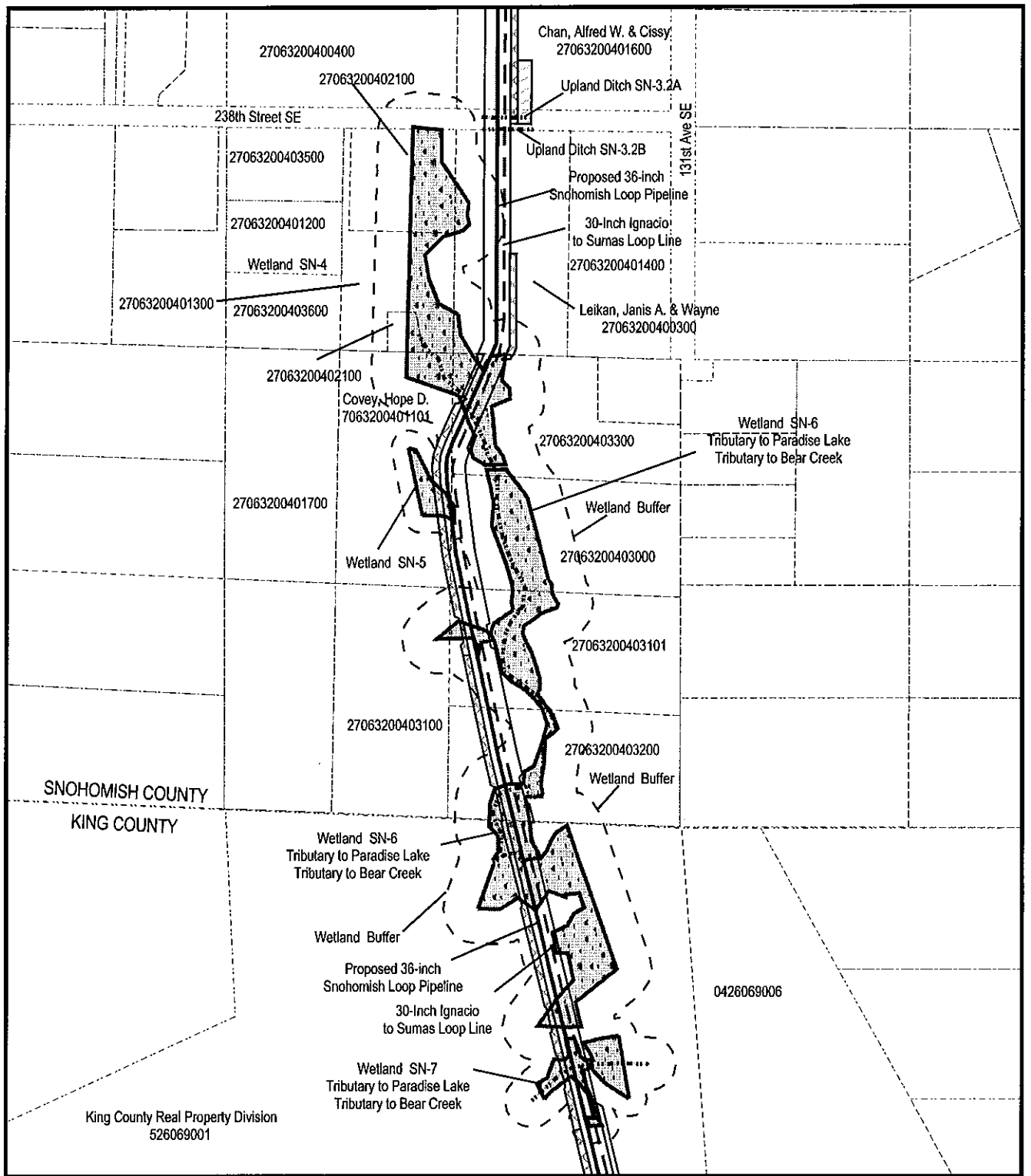
Existing Northwest Pipeline System
Wetlands

N
W E
S

4000 0 4000 Feet
1 0 1 Miles

Issaquah, WA & Redmond, WA 7.5 Minute USGS Quadrangles - King County, Washington

Proposed: Natural Gas Pipeline Replacement
Reference: 2004-00304
Purpose: Capacity Replacement
App. by Northwest Pipeline Corporation
Sheet 104 of 197
Date: March 2005




Snohomish County - T27N, R6E, Section 32
King County - T26N, R6E, Section 5

WETLANDS SN-4, 5, 6 & 7

Existing Permanent Easement
Temporary Construction Right-of-Way
Temporary Extra Workspace
Parcel Boundaries

N W E S

400 0 400 Feet

Proposed: Natural Gas Pipeline Replacement

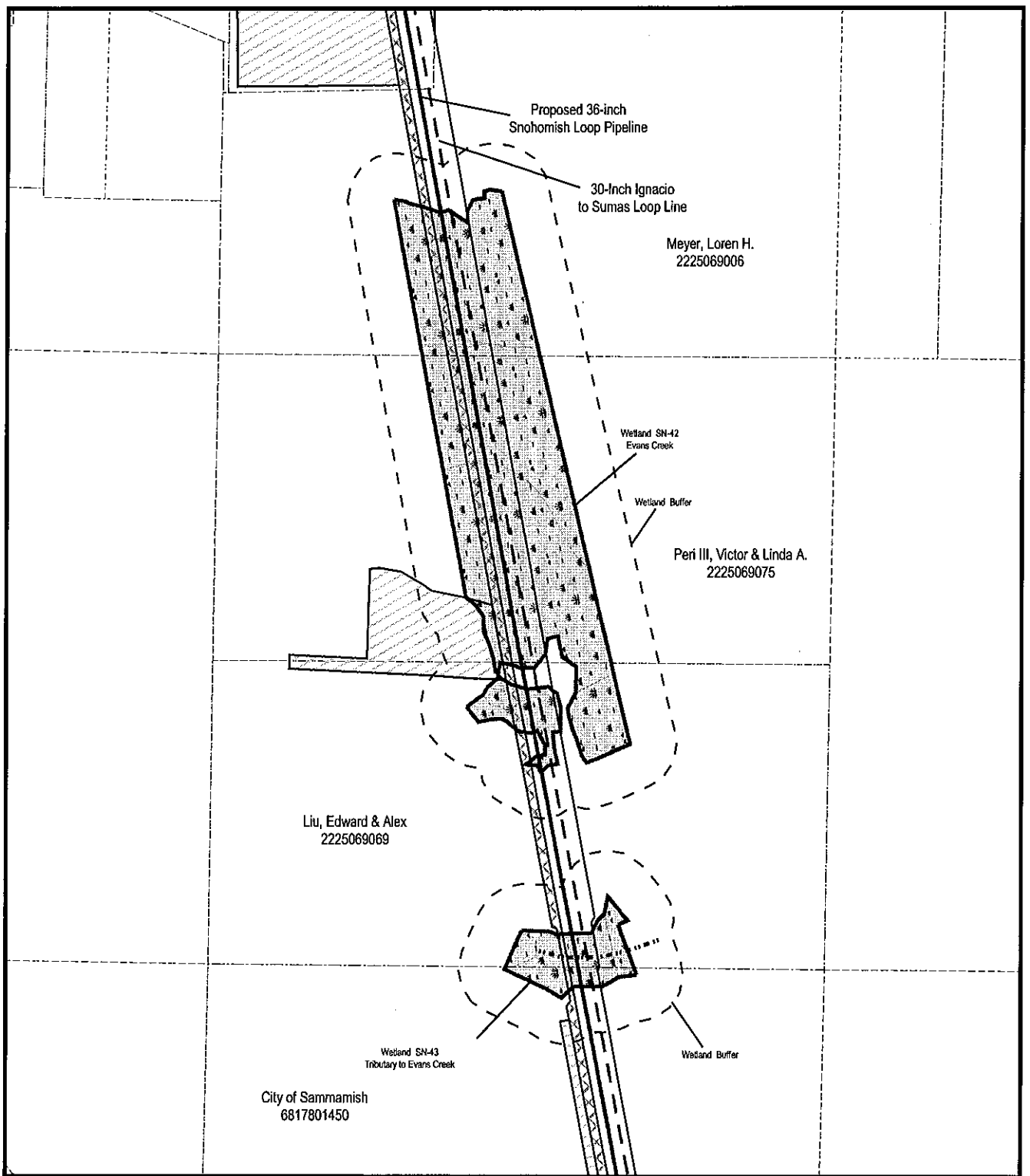
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 106 of 197

Date: March 2005




King County
T25N, R6E, Section 22

WETLAND SN-42 & SN-43

Existing Permanent Easement
Temporary Construction Right-of-Way
Temporary Extra Workspace
Parcel Boundaries

N
W E
S

300 0 300 Feet

Proposed: Natural Gas Pipeline Replacement

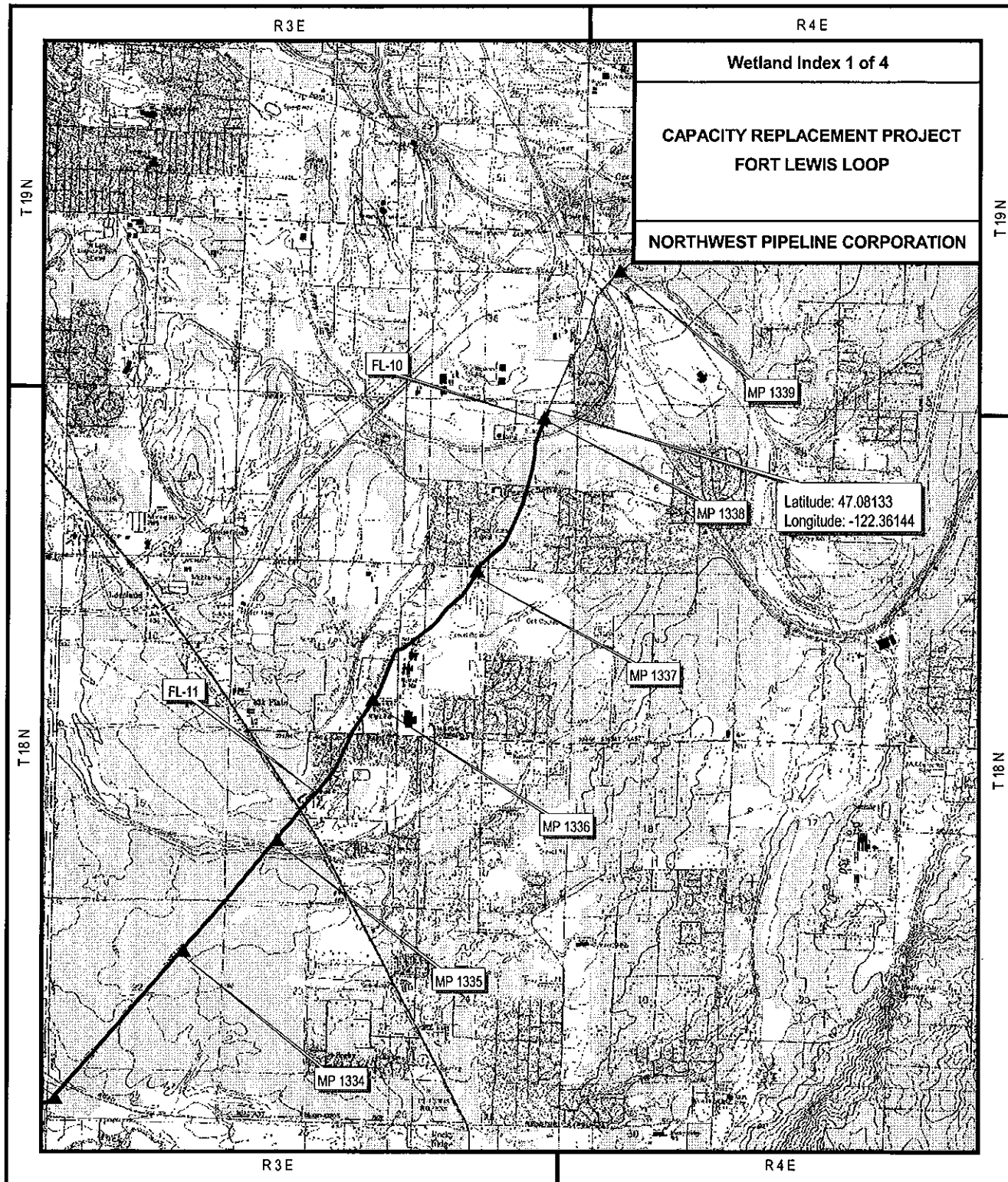
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 124 of 197

Date: March 2005




FORT LEWIS LOOP INDEX (Page 1 of 4)

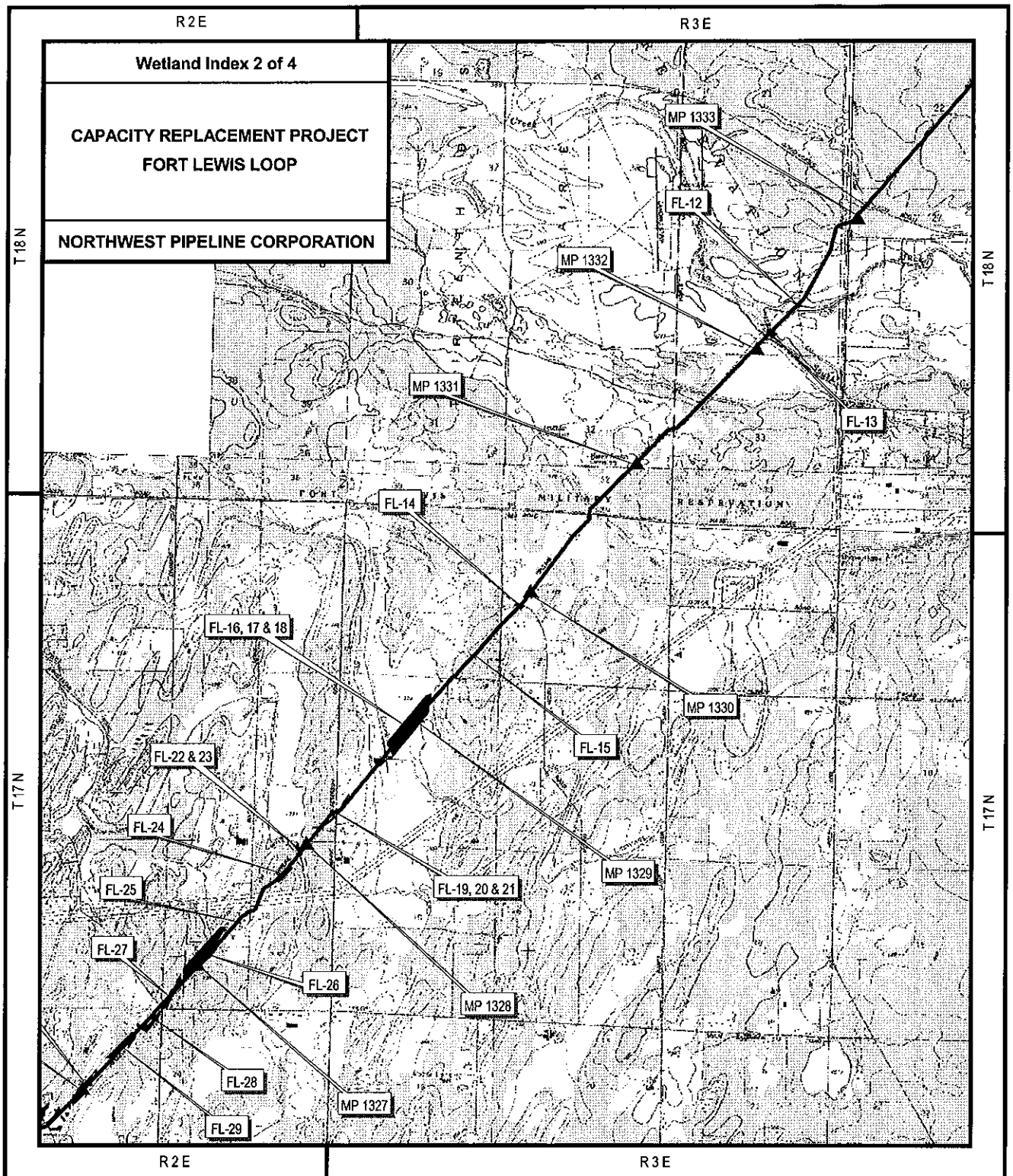
Existing Northwest Pipeline System
Wetlands

N W E S

4000 0 4000 Feet
1 0 1 Miles

Fredrickson, WA & Spanaway, WA 7.5 Minute USGS Quadrangles - Pierce County, Washington

Proposed: Natural Gas Pipeline Replacement
Reference: 2004-00304
Purpose: Capacity Replacement
App. by Northwest Pipeline Corporation
Sheet 125 of 197
Date: March 2005




FORT LEWIS LOOP INDEX (Page 2 of 4)

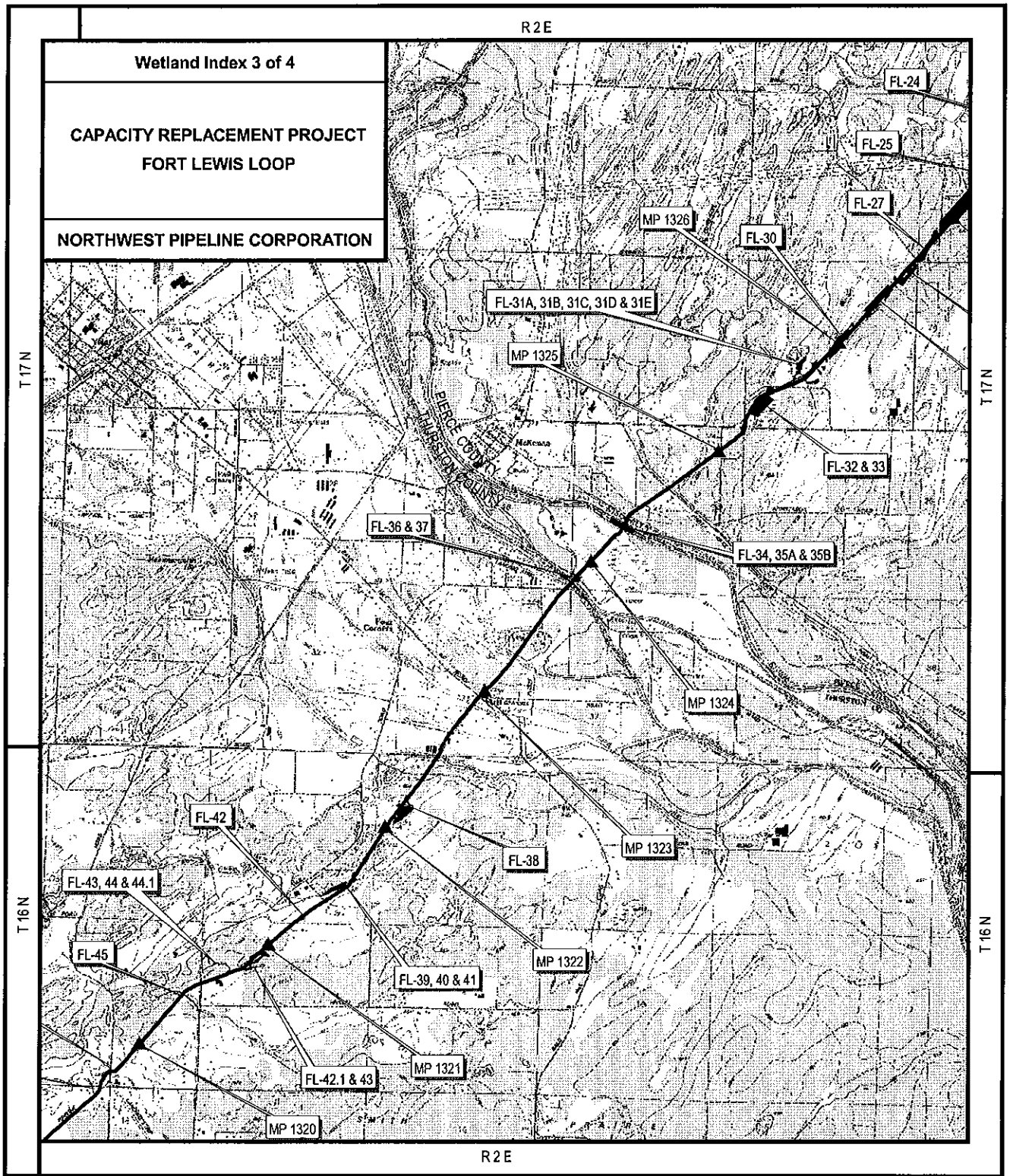
Existing Northwest Pipeline System
Wetlands

N W E S

4000 0 4000 Feet
1 0 1 Miles

Harts Lake, WA & Spanaway, WA 7.5 Minute USGS Quadrangles - Pierce County, Washington

Proposed: Natural Gas Pipeline Replacement
Reference: 2004-00304
Purpose: Capacity Replacement
App. by Northwest Pipeline Corporation
Sheet 126 of 197
Date: March 2005




FORT LEWIS LOOP INDEX (Page 3 of 4)

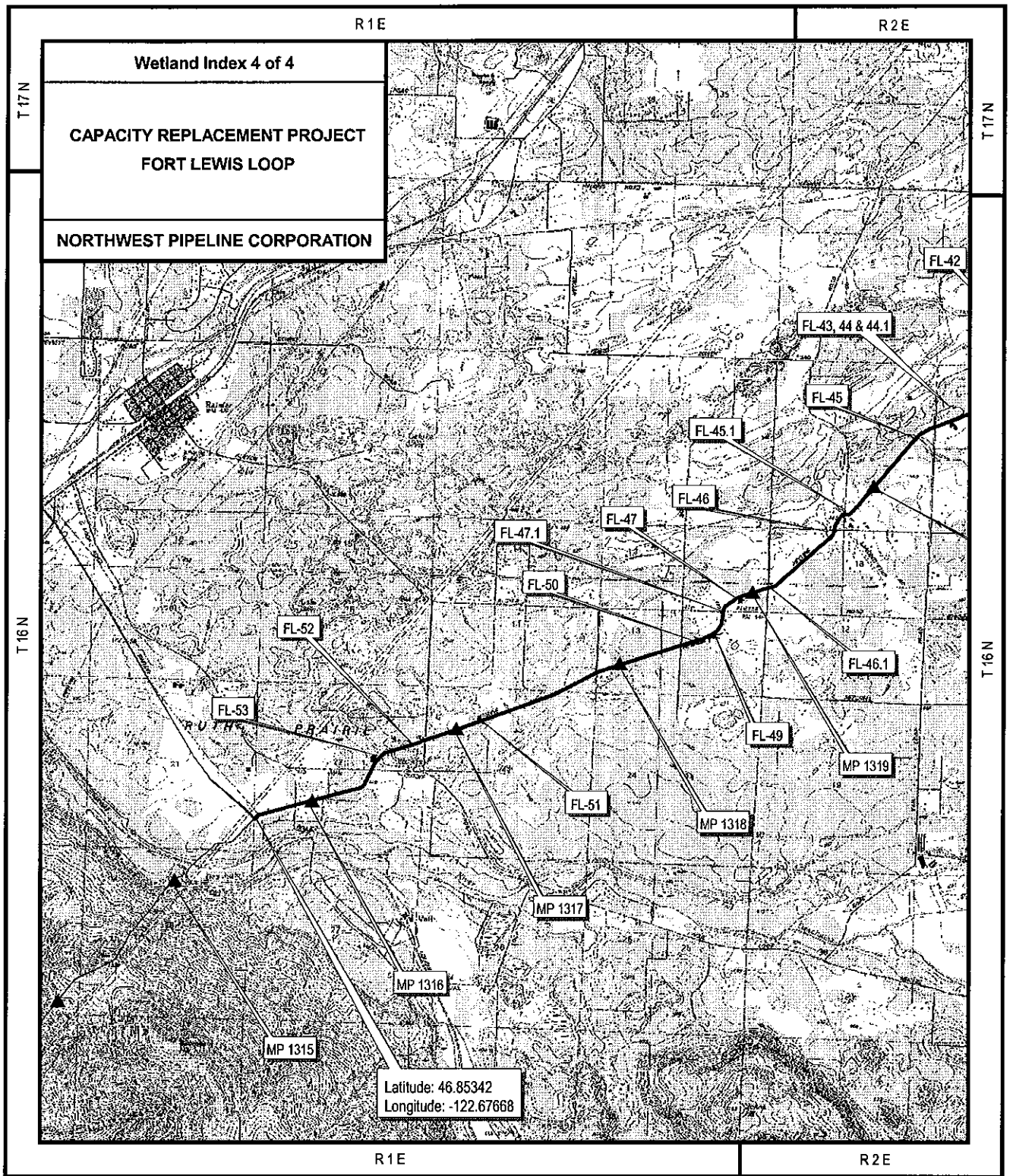
Existing Northwest Pipeline System
Wetlands

N W E S

4000 0 4000 Feet
1 0 1 Miles

Mc Kenna, WA 7.5 Minute USGS Quadrangle - Pierce & Thurston Counties, Washington

Proposed: Natural Gas Pipeline Replacement
Reference: 2004-00304
Purpose: Capacity Replacement
App. by Northwest Pipeline Corporation
Sheet 127 of 197
Date: March 2005



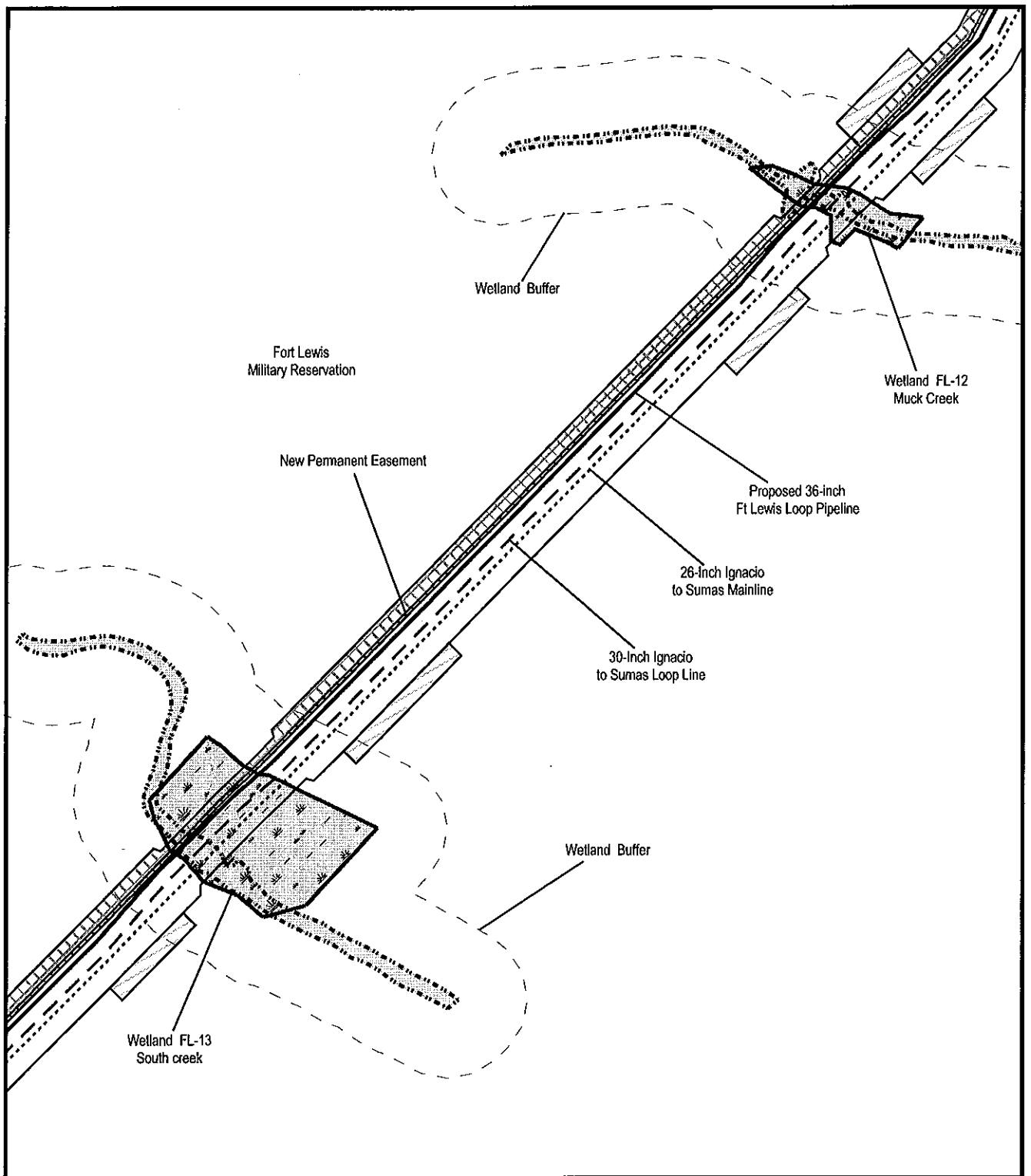

FORT LEWIS LOOP INDEX (Page 4 of 4)

Existing Northwest Pipeline System
Wetlands

4000 0 4000 Feet
1 0 1 Miles

Mc Kenna, WA, Vail, WA & Lake Lawrence, WA 7.5 Minute USGS Quadrangles - Thurston County, Washington

Proposed: Natural Gas Pipeline Replacement
Reference: 2004-00304
Purpose: Capacity Replacement
App. by Northwest Pipeline Corporation
Sheet 128 of 197
Date: March 2005




Pierce County
T18N, R3E, Section 28

WETLANDS FL-12 & 13

Existing Permanent Easement
Temporary Construction Right-of-Way
Temporary Extra Workspace
Parcel Boundaries

N
W E
S

200 0 200 Feet

Proposed: Natural Gas Pipeline Replacement

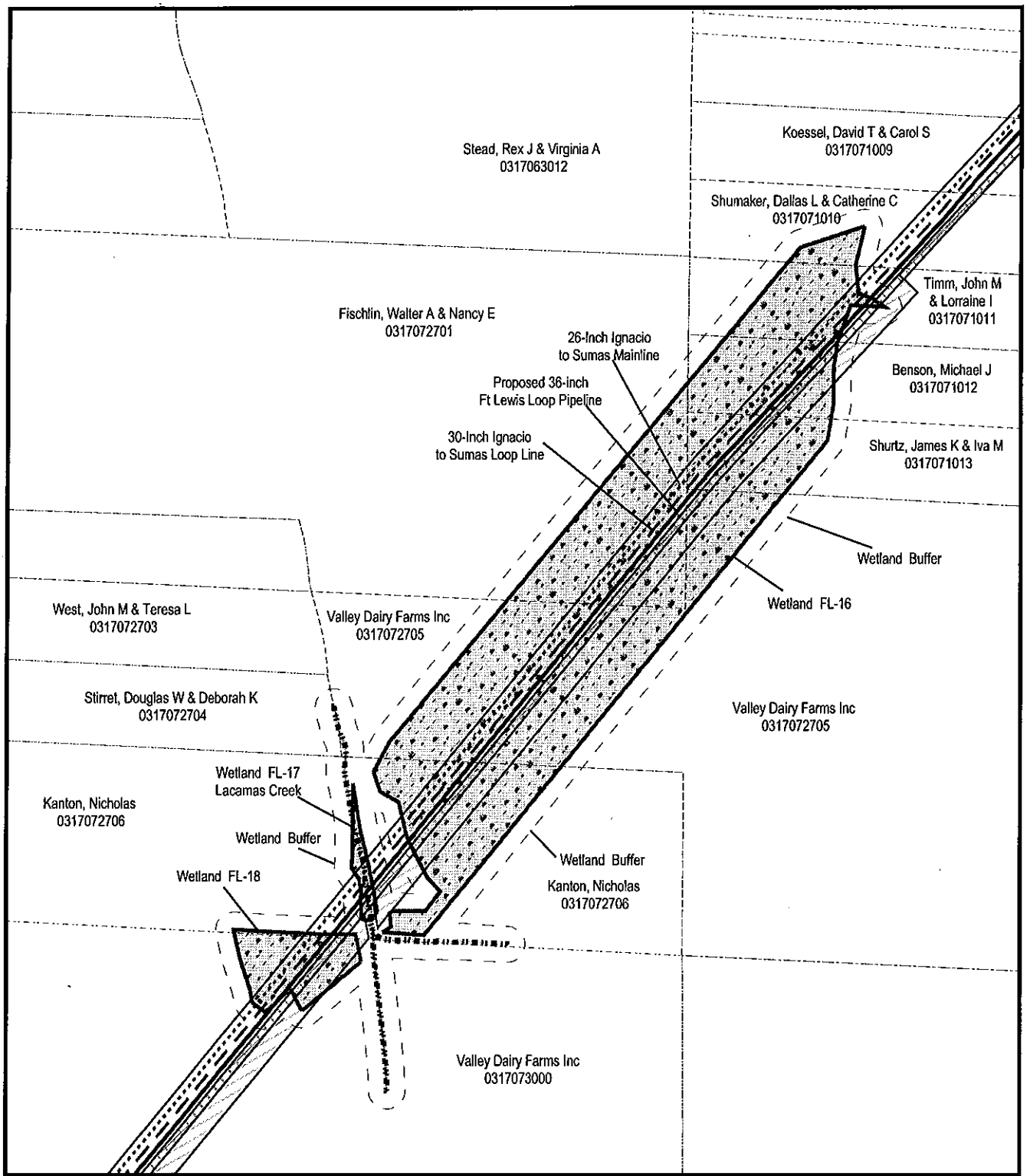
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 131 of 197

Date: March 2005




Pierce County
T17N, R3E, Section 7

WETLAND FL-16, 17 & 18

Existing Permanent Easement
Temporary Construction Right-of-Way
Temporary Extra Workspace
Parcel Boundaries

N
W E
S

400 0 400 Feet

Proposed: Natural Gas Pipeline Replacement

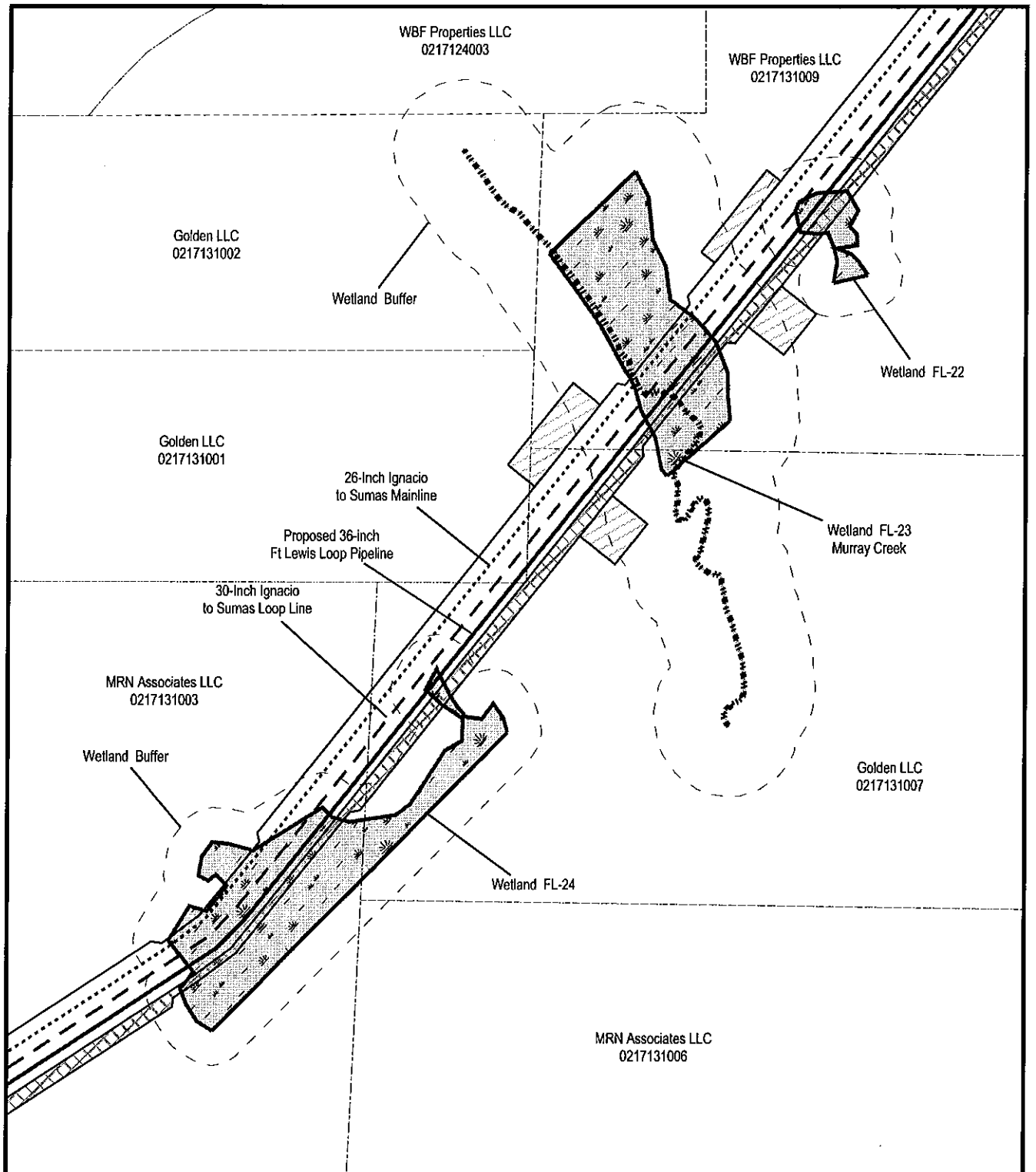
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 134 of 197

Date: March 2005




Pierce County
T17N, R2E, Section 13

WETLANDS FL-22, 23 & 24

Existing Permanent Easement
Temporary Construction Right-of-Way
Temporary Extra Workspace
Parcel Boundaries

N
W E
S

200 0 200 Feet

Proposed: Natural Gas Pipeline Replacement

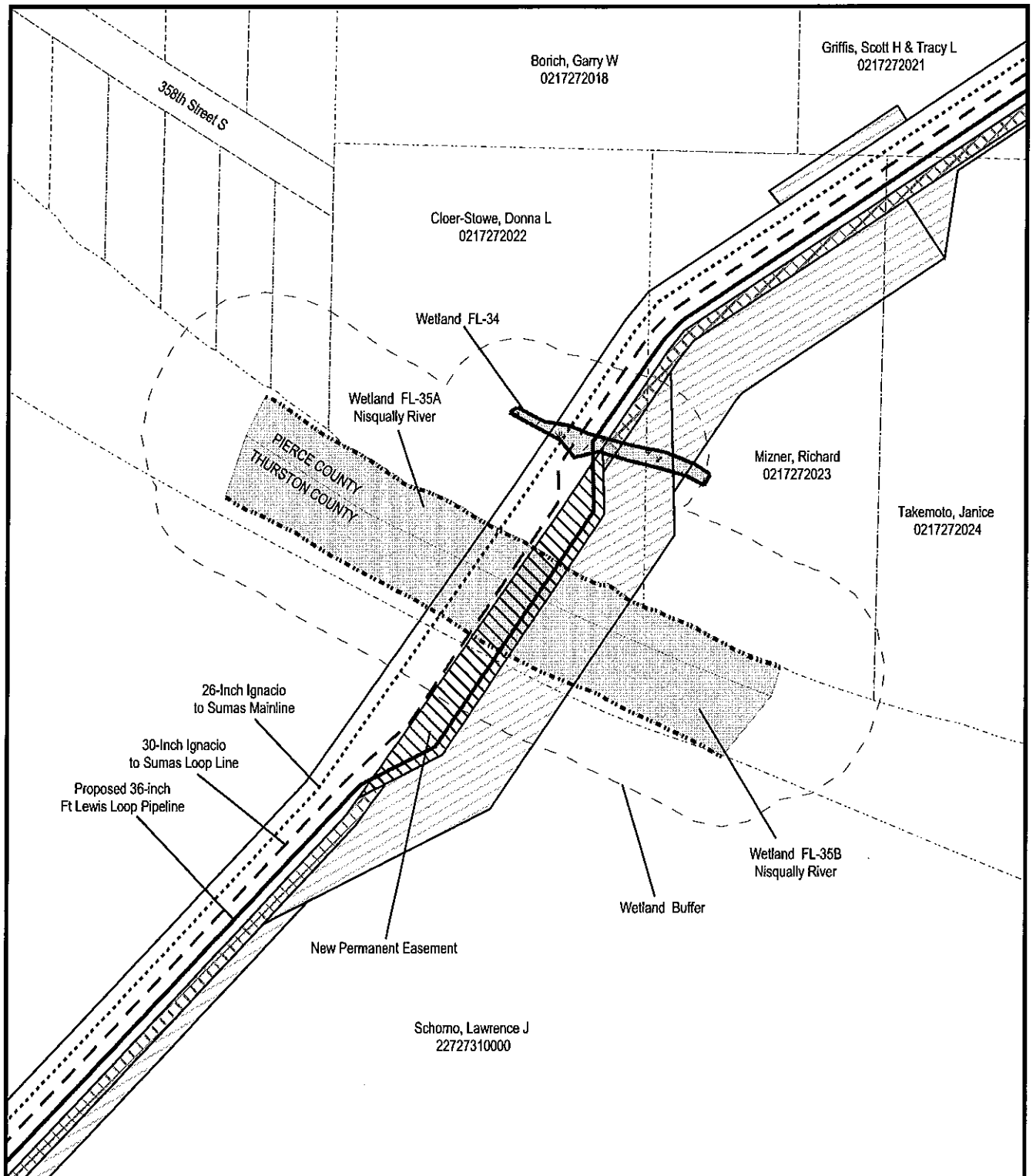
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 136 of 197

Date: March 2005




Pierce & Thurston Counties
T17N, R2E, Section 27

WETLANDS FL-34, 35A & 35B

Existing Permanent Easement
Temporary Construction Right-of-Way
Temporary Extra Workspace
Parcel Boundaries

N
W E
S

200 0 200 Feet

Proposed: Natural Gas Pipeline Replacement

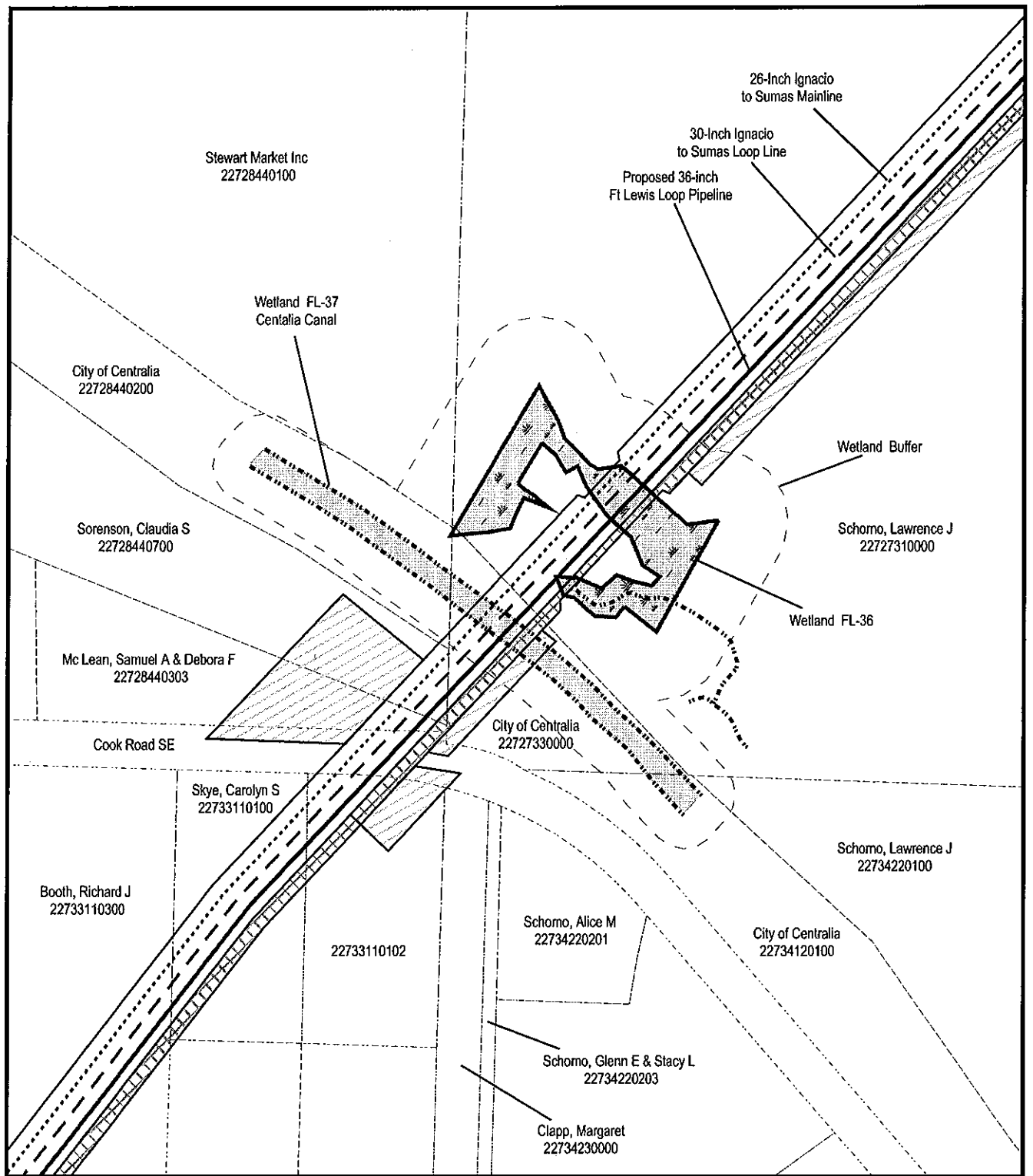
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 140 of 197

Date: March 2005




Thurston County
T17N, R2E, Sections 27 & 28

WETLANDS FL-36 & 37

Existing Permanent Easement
Temporary Construction Right-of-Way
Temporary Extra Workspace
Parcel Boundaries

N
W E
S

200 0 200 Feet

Proposed: Natural Gas Pipeline Replacement

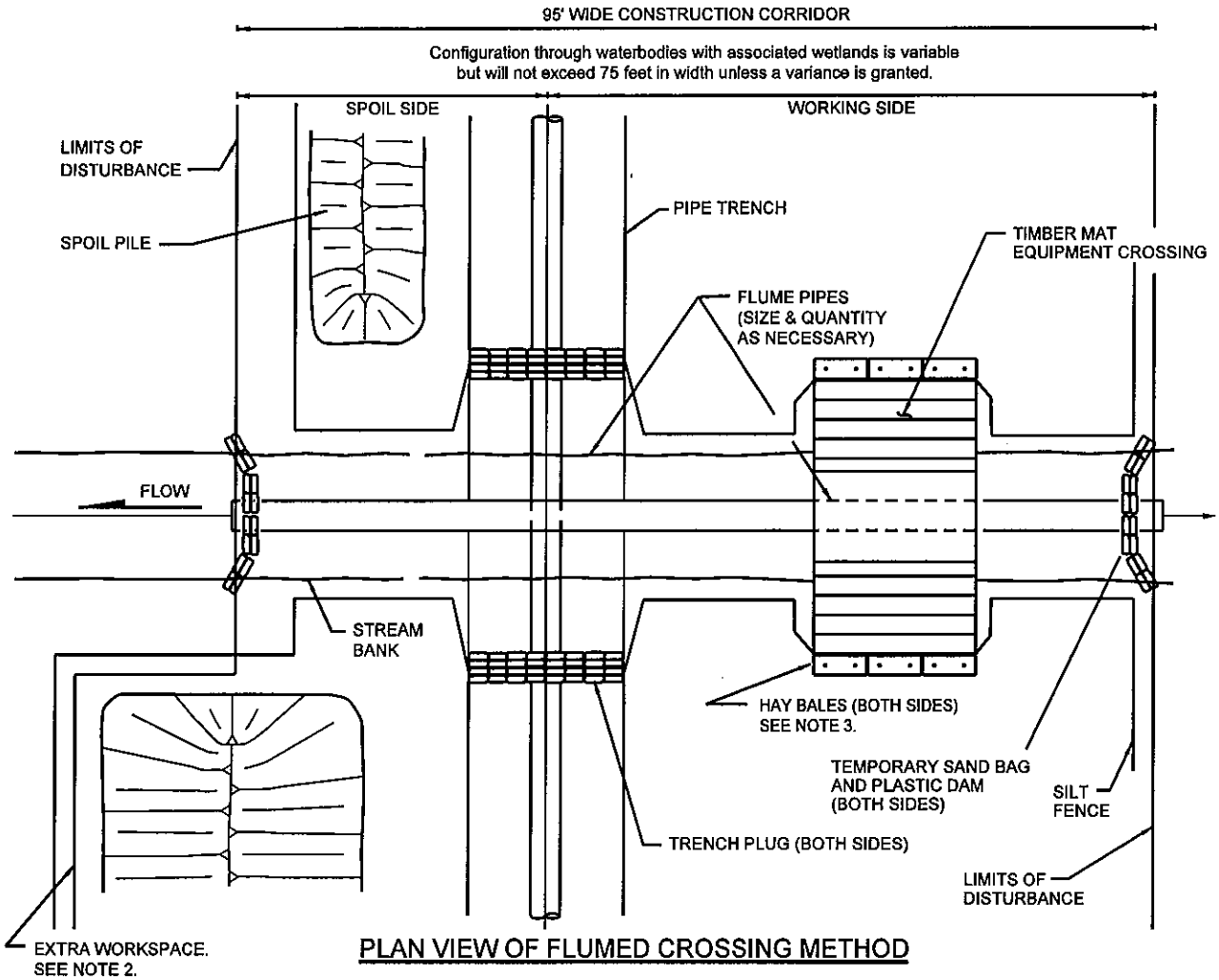
Reference: 2004-00304

Purpose: Capacity Replacement

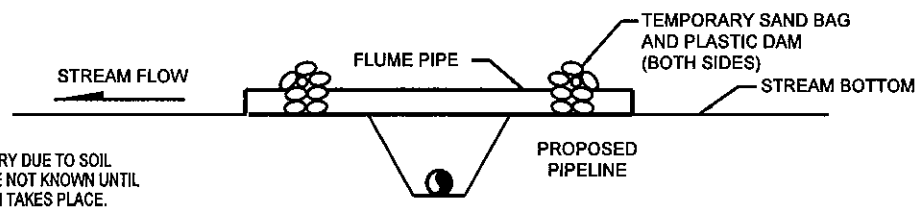
App. by Northwest Pipeline Corporation

Sheet 141 of 197

Date: March 2005




## PLAN VIEW OF FLUMED CROSSING METHOD

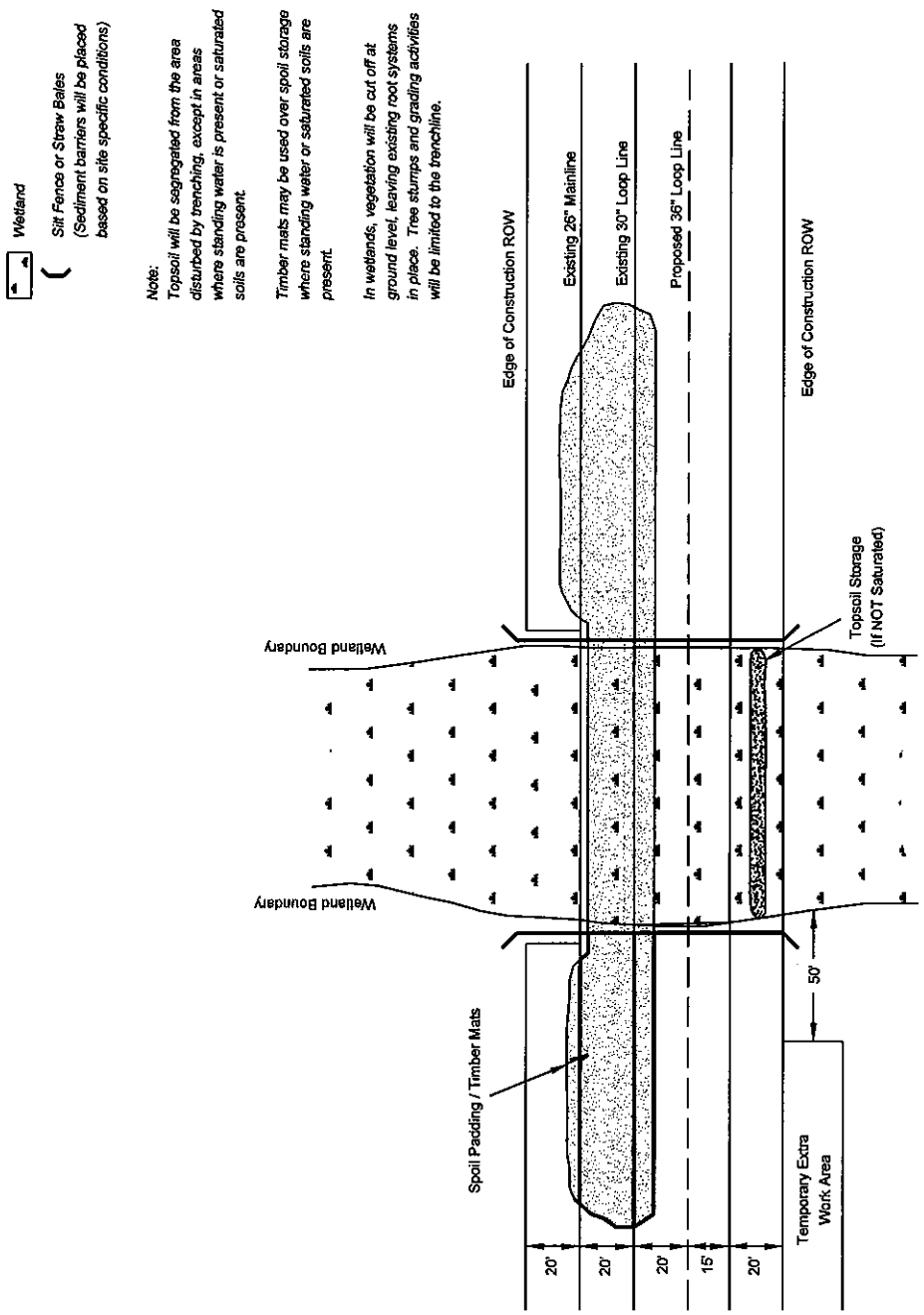



## CROSS-SECTION OF FLUMED CROSSING METHOD

NOTES:

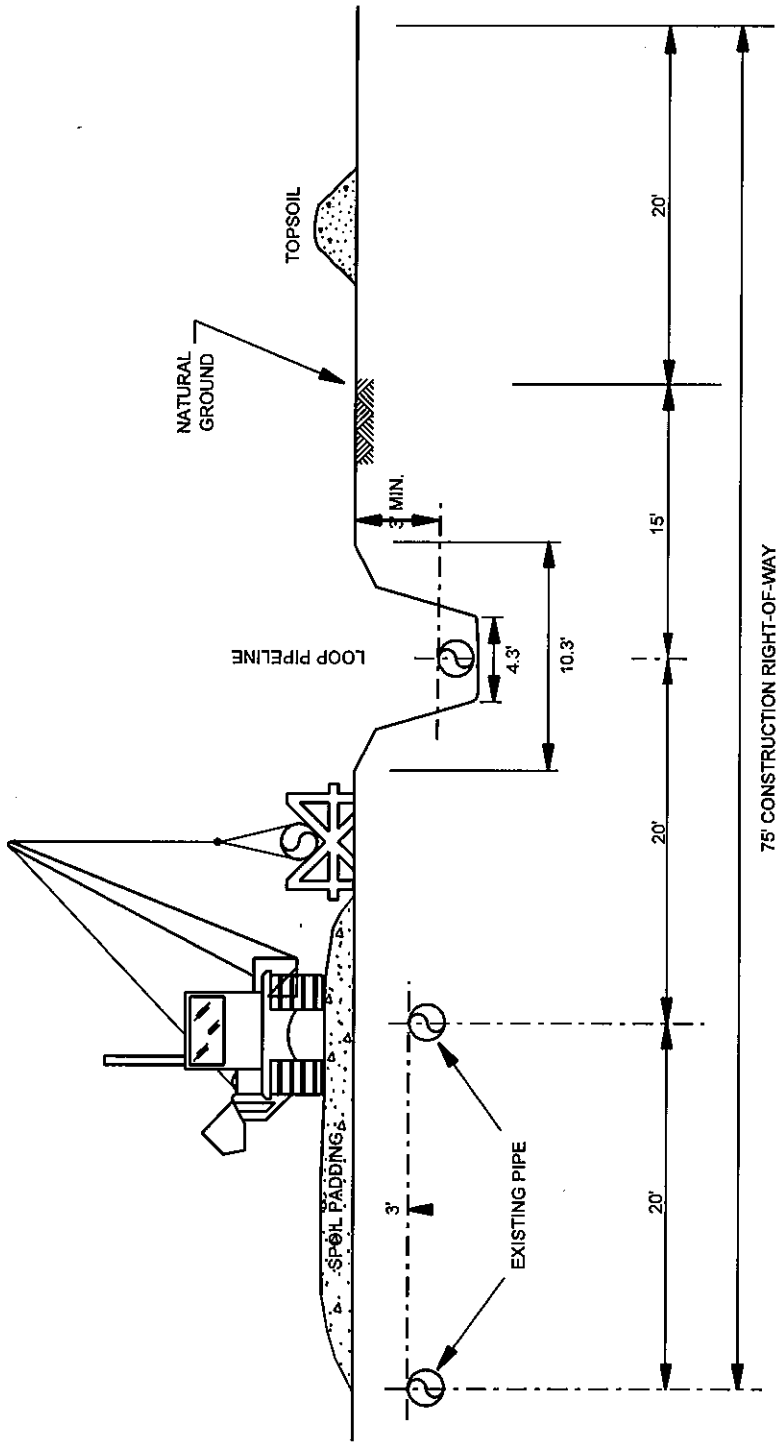
1. TRENCH WIDTH WILL VARY DUE TO SOIL CONDITIONS WHICH ARE NOT KNOWN UNTIL ACTUAL CONSTRUCTION TAKES PLACE.
2. EXTRA WORKSPACE WILL BE LOCATED 50 FEET FROM EDGE OF WATERBODY UNLESS A VARIANCE IS GRANTED. FOR EXTRA WORKSPACE LOCATIONS AND DIMENSIONS SEE ENVIRONMENTAL ALIGNMENT SHEETS.
3. TEMPORARY EROSION CONTROL MEASURES MUST BE REPLACED AT THE END OF EACH WORKING DAY.

| | |
|---|---|
| *Waterbody Crossing Detail*<br>*Flumed Crossing Method* | *Proposed: Natural Gas Pipeline Replacement* — *Reference: 2004-00304*<br>*Purpose: Capacity Replacement*<br>*App. by Northwest Pipeline Corporation*<br>*Sheet 153 of 197* — *Date: March 2005* |

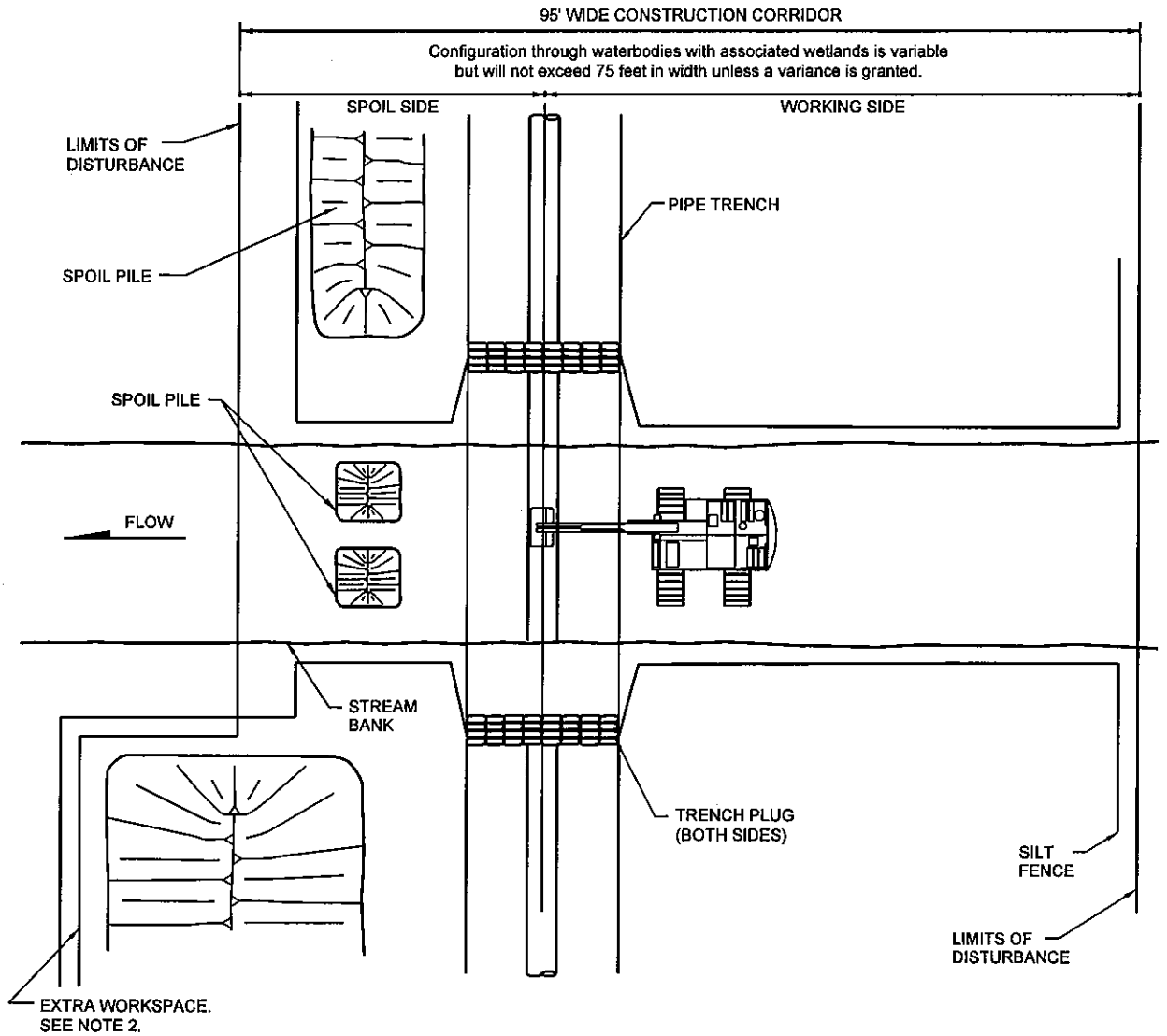



Note: Configuration through wetland is variable but will not exceed 75 feet in width unless a variance is granted.

| | | |
|---|---|---|
| *Plan View of*<br>*Typical Wetland Crossing* | *Proposed: Natural Gas Pipeline Replacement*<br>*Purpose: Capacity Replacement*<br>*App. by Northwest Pipeline Corporation* | *Reference: 2004-00304* |
| | *Sheet 154 of 197* | *Date: March 2005* |




| | | |
|---|---|---|
| *Typical Wetland Cross-Section of 75-Foot Wide Construction Right-of-Way Configuration with Existing Pipelines* | *Proposed: Natural Gas Pipeline Replacement* | *Reference: 2004-00304* |
| | *Purpose: Capacity Replacement* | |
| | *App. by Northwest Pipeline Corporation* | |
| *NOT TO SCALE* | *Sheet 155 of 197* | *Date: March 2005* |




NOTES:

1. TRENCH WIDTH WILL VARY DUE TO SOIL CONDITIONS WHICH ARE NOT KNOWN UNTIL ACTUAL CONSTRUCTION TAKES PLACE.
2. EXTRA WORKSPACE WILL BE LOCATED 50 FEET FROM EDGE OF WATERBODY UNLESS A VARIANCE IS GRANTED. FOR EXTRA WORKSPACE LOCATIONS AND DIMENSIONS SEE ENVIRONMENTAL ALIGNMENT SHEETS.
3. TEMPORARY EROSION CONTROL MEASURES MUST BE REPLACED AT THE END OF EACH WORKING DAY.

*Waterbody Crossing Detail*

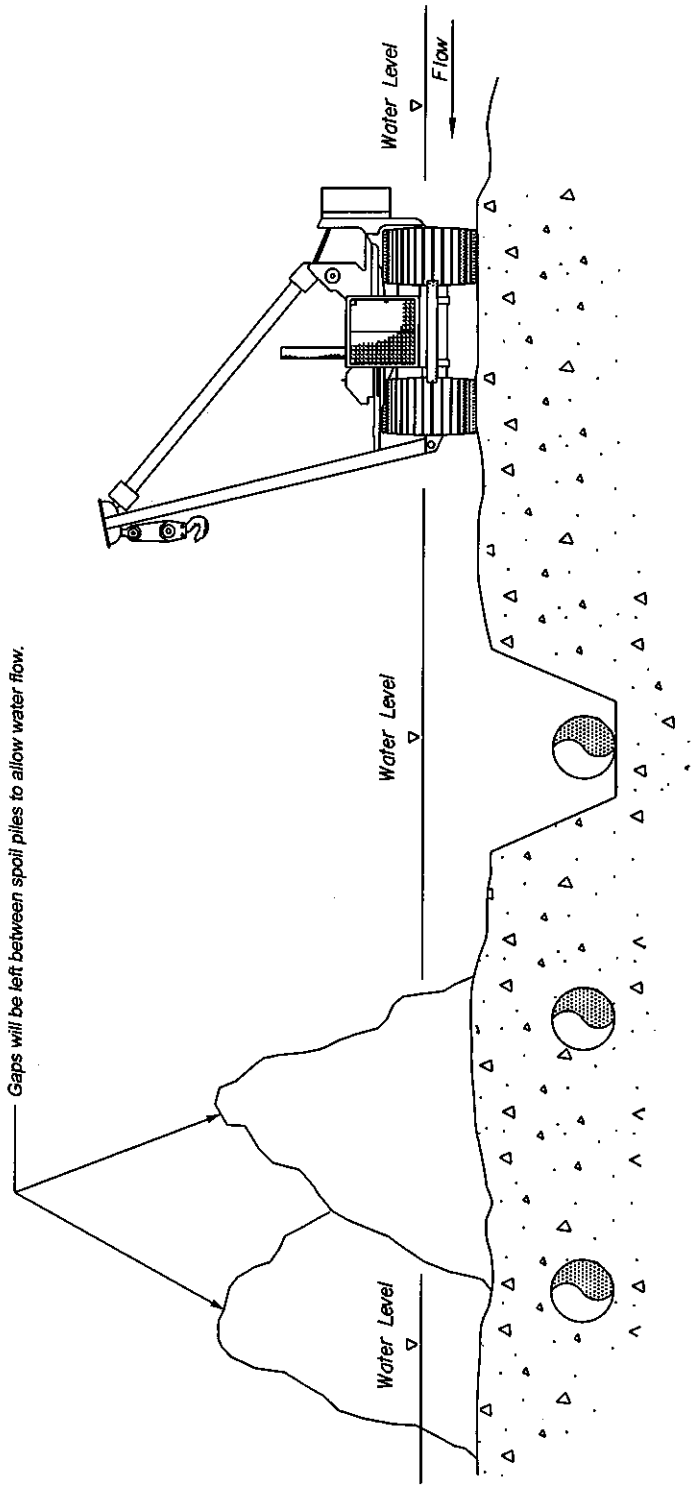
*Wet Open-Cut Method*

*Proposed: Natural Gas Pipeline Replacement* *Reference: 2004-00304*

*Purpose: Capacity Replacement*

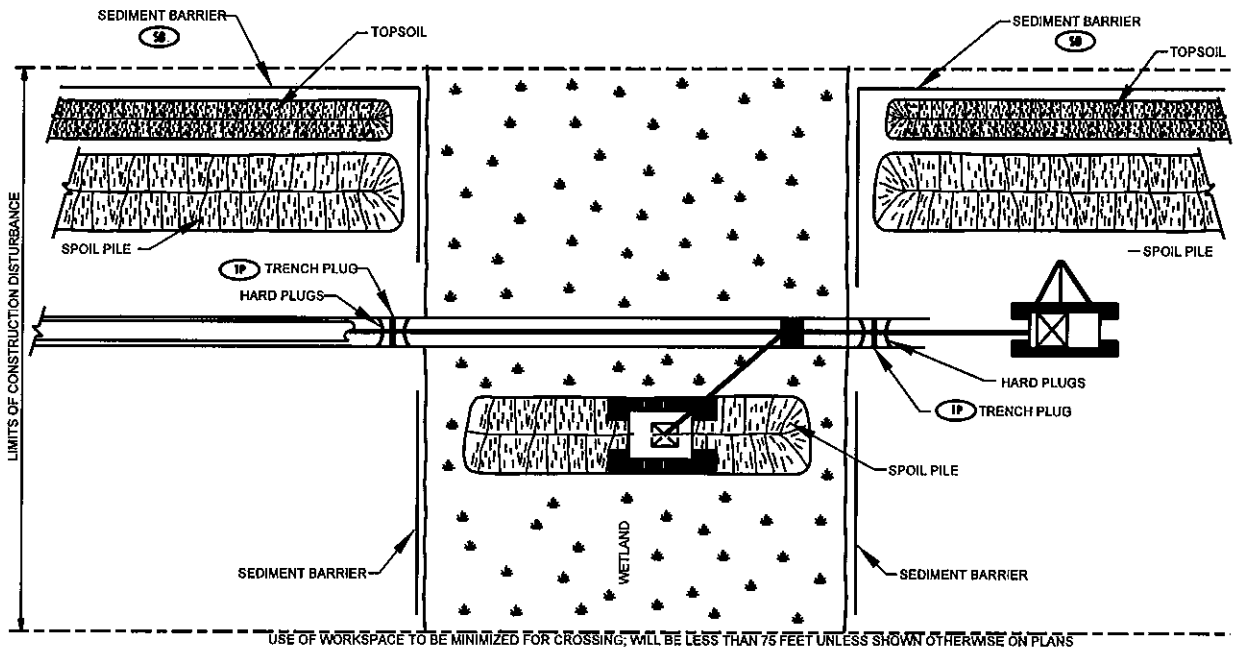
*App. by Northwest Pipeline Corporation*

*Sheet 156 of 197* *Date: March 2005*




NOTE:
Where possible, a minimum of five feet of cover will be maintained over the pipeline under the streambed.

| | | |
|---|---|---|
| *Typical Cross-Section of Stream Crossing with Existing Pipelines* | *Proposed: Natural Gas Pipeline Replacement*<br>*Purpose: Capacity Replacement*<br>*App. by Northwest Pipeline Corporation* | *Reference: 2004-00304* |
| | *Sheet 157 of 197* | *Date: March 2005* |




NOTES:

1. Contractor shall utilize this method for wetland pipelay where support of construction equipment on mats for excavation, stringing, welding, pipelay, backfilling and restoration is very difficult due to saturated conditions.
2. During a push/pull crossing, the trench is typically excavated by a single trackhoe, which is utilizing the excavated spoil to build a travel path through the swamp.

   Alternatively the Contractor may utilize amphibious excavators (pontoon mounted backhoes) or tracked backhoes supported by fabricated timber mats or floats, to excavate trench.
3. Topsoil salvage will not be required in saturated wetlands.
4. Contractor shall install sediment barriers at the wetland edge and maintain same throughout construction to the extent possible to prevent surface runoff from the upland construction area and upland spoil storage areas from entering the wetland.
5. Contractor shall fabricate the pipe string in an adjacent upland area and add floats to the pipe string. Equipment/winches located on the adjacent upland areas will push or pull pipe the string across wetland.
6. Once the pipe is floated in the entire trench the floats are cut allowing the pipe to sink. The track-hoe then retraces its path removing the spoil from the travel lane and replacing it in the trench over the pipe.
6. Trench plugs will be installed at the wetland edges.
7. Erosion and sediment control measures shall be inspected daily and contractor shall repair if necessary.
8. Contractor shall place signage 100 feet back from wetland boundary and advise no refueling of mobile equipment within 100 feet of stream bank. Refuel stationary equipment as per SPCC plan.
9. Contractor shall restore grade to near pre-construction topography, replace topsoil where salvaged, and install permanent erosion controls.
10. Contractor shall remove any timber mats or fill from wetlands upon completion.
11. Contractor shall avoid adjacent wetlands and install sediment barriers (straw bales and/or silt fence) at edge of ROW along wetland edge as required.
12. Contractor shall leave hard plugs at edge of wetland, until just prior to trenching.
13. Wetland boundaries shall be flagged prior to clearing.

| | |
|---|---|
| *Typical*<br>*Push-Pull Construction*<br>*Crossing Method* | *Proposed: Natural Gas Pipeline Replacement* — *Reference: 2004-00304*<br>*Purpose: Capacity Replacement*<br>*App. by Northwest Pipeline Corporation*<br>*Sheet 158 of 197* — *Date: March 2005* |

## Wetlands Impacted by Northwest Pipeline Corporation's Capacity Replacement Project

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PIPELINE FACILITIES** | | | | | | | | | | | | |
| **Sumas Loop (Whatcom County)** | | | | | | | | | | | | |
| Wetland S-1 [4] | 1484.34 | PEM | Regulated | III | 127.88 | 0.23 | 0.0 | 0.04 | 0.23 | 0.00 | 0.50 | 0.00 |
| Wetland S-1.1A (Ditch) | 1484.41 | PEM | Regulated | III | 4.35 | 0.01 | 0.00 | 0.00 | <0.01 | 0.00 | 0.01 | 0.00 |
| Wetland S-1.1B (Ditch) | 1484.40 | PEM | Regulated | III | 4.32 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| Wetland S-2 [4] (Ditches) | 1483.96<br>1483.95<br>1483.87<br>1483.86 | PEM | Regulated | III | 802.18 | 1.29 | 0.0 | 0.40 | 0.03 | 0.00 | 1.72 | 0.00 |
| Wetland S-4A, B (Saar Creek) | 1483.10 | R<br>PEM | Regulated | III | 33.51<br>24.72 | 0.05<br>0.04 | 0.00<br>0.00 | 0.01<br><0.01 | 0.00<br><0.01 | 0.00<br>0.00 | 0.06<br>0.04 | 0.00<br>0.00 |
| Wetland S-6 [4] | 1482.27 | PEM<br>PSS | Regulated | III | 28.45<br>0.00 | 0.02<br>0.00 | 0.00<br>0.00 | 0.03<br><0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.05<br><0.01 | 0.00<br>0.00 |
| Wetland S-7 (Trib to Lake) | 1481.39 | R | Isolated | N/A | 5.19 | 0.01 | 0.0 | <0.01 | 0.00 | 0.00 | 0.01 | 0.00 |
| Wetland S-8 [7] (Lake) | 1481.25 | POW<br>PEM | Isolated | III | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 |
| Wetland S-9 (Trib to Lake) | 1481.02 | PEM<br>R<br>PSS<br>PFO | Isolated | III | 0.00<br>8.18<br>20.76<br>0.00 | 0.00<br>0.01<br>0.04<br>0.01 | 0.00<br>0.00<br>0.00<br>0.00 | 0.00<br>0.01<br>0.01<br>0.07 | 0.00<br>0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00<br>0.00 | 0.00<br>0.02<br>0.05<br>0.08 | 0.00<br>0.00<br><0.01<br>0.00 |
| Wetland S-10 [6] (Ditch) | 1480.93 | PEM<br>PFO | Isolated | III | 164.93<br>0.00 | 0.37<br><0.01 | 0.00<br>0.00 | 0.02<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.39<br><0.01 | 0.00<br>0.00 |
| Wetland S-11 | 1480.88 | PEM<br>PFO<br>PSS | Regulated | III | 64.94<br>0.00<br>0.00 | 0.12<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | <0.01<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.12<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 |
| Wetland S-12 (Spring) | 1480.73 | PEM<br>PFO<br>R | Regulated | III | 0.00<br>0.00<br>0.00 | 0.02<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | <0.01<br>0.07<br>0.00 | 0.00<br>0.00<br>0.00 | 0.02<br>0.07<br>0.00 | 0.00<br>0.00<br>0.00 |
| Wetland S-13 | 1480.4 | PEM<br>PSS<br>PFO | Regulated | III | 137.90<br>0.00<br>0.00 | 0.09<br>0.00<br><0.01 | 0.00<br>0.00<br>0.00 | 0.02<br>0.07<br>0.05 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.11<br>0.07<br>0.05 | 0.00<br>0.00<br>0.00 |

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wetland S-14 (Trib. To Kinney Creek) | 1480.03 | PEM<br>PSS<br>R | Regulated | III | 113.47<br>0.00<br>0.00 | 0.16<br>0.01<br>0.00 | 0.00<br>0.00<br>0.00 | <0.01<br>0.00<br>0.00 | 0.00<br>0.0<br>0.00 | 0.00<br>0.00<br>0.00 | 0.16<br>0.01<br>0.00 | 0.00<br>0.00<br>0.00 |
| Wetland S-15 [7] | 1480.06 | PSS | Regulated | III | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland S-16 (Trib. to Kinney Creek) | 1480.01 | PEM<br>PFO<br>R | Regulated | III | 32.40<br>0.00<br>0.00 | 0.10<br>0.00<br><0.01 | 0.00<br>0.00<br>0.00 | 0.00<br>0.01<br><0.01 | 0.00<br>0.00<br><0.01 | 0.00<br>0.00<br>0.00 | 0.10<br>0.01<br><0.01 | 0.00<br>0.00<br>0.00 |
| Wetland S-17 | 1479.92 | PEM<br>PFO<br>PSS | Regulated | II | 594.58<br>0.00<br>0.00 | 0.70<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.01<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.71<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 |
| Wetland S-18 | 1479.74 | PEM<br>PFO<br>PSS | Regulated | III | 87.15<br>0.00<br>0.00 | 0.14<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.01<br><0.01<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.15<br><0.01<br>0.00 | 0.00<br>0.00<br>0.00 |
| Wetland S-19 | 1479.56 | PEM | Isolated | IV | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| Wetland S-20 | 1479.28 | PEM<br>PSS | Regulated | III | 635.26<br>0.00 | 0.94<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.94<br>0.00 | 0.00<br>0.00 |
| Wetland S-21 (Kinney Creek) | 1479.06 | PEM<br>R<br>PSS<br>PFO | Regulated | II | 295.58<br>12.87<br>38.17<br>0.00 | 0.38<br>0.02<br>0.02<br>0.01 | 0.00<br>0.00<br>0.00<br>0.00 | 0.05<br>0.01<br>0.03<br>0.03 | 0.00<br>0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00<br>0.00 | 0.43<br>0.03<br>0.05<br>0.04 | 0.00<br>0.00<br>0.01<br>0.00 |
| Wetland S-22 (Breckenridge Creek) | 1478.87 | R | Regulated | N/A | 48.26 | 0.07 | 0.00 | 0.01 | 0.00 | 0.00 | 0.08 | 0.00 |
| Wetland S-23 (Swift Creek) | 1477.60 | R | Regulated | N/A | 142.63 | 0.23 | 0.07 | 0.00 | 0.25 | 0.00 | 0.55 | 0.00 |
| Wetland S-24 | 1477.28 | PEM<br>PSS<br>PFO | Regulated | III | 1044.02<br>0.00<br>0.00 | 1.32<br><0.01<br>0.00 | 0.00<br>0.00<br>0.00 | 0.03<br>0.00<br>0.20 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 1.35<br><0.01<br>0.20 | 0.00<br>0.00<br>0.00 |
| Wetland S-25 (Ditch) | 1477.10 | PEM | Regulated | III | 26.37 | 0.04 | 0.00 | 0.01 | 0.00 | 0.00 | 0.05 | 0.00 |
| Wetland S-26 A&B [4] | 1477.00 | PEM | Regulated | IV | 44.13 | 0.03 | 0.00 | 0.02 | 0.00 | 0.00 | 0.05 | 0.00 |
| Wetland S-26.1 A&B (Ditches) | 1476.97<br>1476.90 | PEM | Regulated | III | 10.57 | 0.02 | 0.00 | <0.01 | 0.00 | 0.00 | 0.02 | 0.00 |
| Wetland S-27 (Trib. to Sumas River) | 1476.80 | PEM<br>R<br>PFO<br>POW | Regulated | II | 248.61<br>7.59<br>0.00<br>0.00 | 0.37<br>0.01<br><0.01<br><0.01 | 0.00<br>0.00<br>0.00<br>0.00 | <0.01<br><0.01<br>0.02<br>0.00 | 0.00<br>0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00<br>0.00 | 0.37<br>0.01<br>0.02<br><0.01 | 0.00<br>0.00<br>0.00<br>0.00 |
| Wetland S-28[4] | 1476.60 | PEM | Regulated | III | 360.31 | 0.65 | 0.00 | 0.15 | 0.00 | 0.00 | 0.80 | 0.00 |

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wetland S-29 (Trib to Sumas River) | 1476.43 | PEM<br>R<br>PSS | Regulated | III | 216.34<br>5.66<br>47.89 | 0.14<br>0.01<br>0.02 | 0.00<br>0.00<br>0.00 | 0.08<br>0.00<br>0.00 | 0.01<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.23<br>0.01<br>0.02 | 0.00<br>0.00<br>0.01 |
| Wetland S-30 (Trib. to Sumas River) | 1476.16 | PSS<br>PFO<br>R | Regulated | III | 66.11<br>0.00<br>7.11 | 0.05<br>0.01<br>0.01 | 0.00<br>0.00<br>0.00 | 0.00<br>0.01<br><0.01 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.05<br>0.02<br>0.01 | 0.02<br>0.00<br>0.00 |
| Wetland S-31A, B (Trib. to Sumas River) | 1476.10 | PEM<br>R<br>PFO | Regulated | III | 0.00<br>4.55<br>0.00 | 0.01<br><0.01<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br><0.01<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.01<br><0.01<br>0.00 | 0.00<br>0.00<br>0.00 |
| Wetland S-32 (Dale Creek) | 1475.86 | R<br>PEM | Regulated | III | 10.23<br>6.53 | 0.01<br>0.01 | 0.00<br>0.00 | <0.01<br><0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.01<br>0.01 | 0.00<br>0.00 |
| Wetland S-33 | 1475.77 | PEM<br>PFO | Regulated | III | 46.21<br>0.00 | 0.13<br><0.01 | 0.00<br>0.00 | 0.01<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.14<br><0.01 | 0.00<br>0.00 |
| Wetland S-34 | 1475.75 | PSS<br>PFO | Regulated | III | 0.00<br>0.00 | 0.02<br>0.00 | 0.00<br>0.00 | 0.01<br><0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.03<br><0.01 | 0.00<br>0.00 |
| Wetland S-35 (Trib. to Sumas River) | 1475.71 | R | Regulated | N/A | 7.23 | 0.01 | 0.00 | <0.01 | 0.00 | 0.00 | 0.01 | 0.00 |
| Wetland S-36A, B [4] | 1475.62 | PEM | Regulated | III | 0.00 | 0.04 | 0.00 | 0.01 | 0.00 | 0.00 | 0.05 | 0.00 |
| Wetland S-37 | 1475.46 | PEM<br>PSS | Regulated | III | 410.11<br>0.00 | 0.49<br>0.01 | 0.00<br>0.00 | 0.05<br>0.03 | 0.79<br>0.00 | 0.00<br>0.00 | 1.33<br>0.04 | 0.00<br>0.00 |
| Wetland S-38 (Trib. to Sumas River) | 1475.38 | R<br>PEM<br>PFO | Regulated | III | 17.49<br>388.27<br>0.00 | 0.02<br>0.57<br>0.04 | 0.00<br>0.00<br>0.00 | 0.01<br>0.04<br>0.05 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.03<br>0.61<br>0.09 | 0.00<br>0.00<br>0.00 |
| Wetland S-39 (Unnamed Tributary) | 1475.19 | PEM<br>PSS<br>PFO<br>R | Regulated | II | 799.73<br>146.76<br>2.68<br>5.68 | 1.70<br>0.09<br>0.04<br>0.01 | 0.00<br>0.00<br>0.00<br>0.00 | 0.10<br>0.01<br>0.12<br><0.01 | 0.05<br>0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00<br>0.00 | 1.85<br>0.10<br>0.16<br>0.01 | 0.00<br>0.03<br><0.01<br>0.00 |
| Wetland S-40 | 1474.90 | PEM | Regulated | III | 3.47 | 0.10 | 0.00 | <0.01 | 0.00 | 0.00 | 0.10 | 0.00 |
| Wetland S-41 | 1474.77 | PEM<br>PSS<br>PFO | Regulated | II | 305.41<br>0.00<br>0.00 | 0.40<br>0.00<br><0.01 | 0.00<br>0.00<br>0.00 | <0.01<br>0.00<br>0.14 | 0.23<br><0.01<br>0.05 | 0.00<br>0.00<br>0.00 | 0.63<br><0.01<br>0.19 | 0.00<br>0.00<br>0.00 |
| Wetland S-42 | 1474.70 | PEM<br>PSS | Regulated | III | 68.75<br>0.00 | 0.09<br><0.01 | 0.00<br>0.00 | 0.00<br>0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.09<br>0.01 | 0.00<br>0.00 |
| Wetland S-43 | 1474.60 | PEM<br>PSS | Regulated | III | 2.15<br>5.05 | 0.01<br><0.01 | 0.00<br>0.00 | 0.00<br><0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.01<br><0.01 | 0.00<br><0.01 |

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wetland S-44 | 1474.45 | PEM<br>PSS<br>PFO | Regulated | III | 0.00<br>29.91<br>0.00 | <0.01<br>0.04<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.01<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | <0.01<br>0.05<br>0.00 | 0.00<br>0.01<br>0.00 |
| Wetland S-45 | 1474.38 | PEM | Regulated | III | 44.28 | 0.06 | 0.00 | 0.01 | 0.00 | 0.00 | 0.07 | 0.00 |
| Wetland S-46 | 1474.13 | PEM<br>PFO | Regulated | III | 33.10<br>0.00 | 0.06<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.06<br>0.00 | 0.00<br>0.00 |
| Wetland S-47 (Trib. to Sumas River) | 1473.70 | R | Regulated | N/A | 13.44 | 0.03 | 0.00 | <0.01 | 0.00 | 0.00 | 0.03 | 0.00 |
| Wetland S-48 [4] | 1473.28 | PEM<br>POW | Regulated | III | 444.42<br>0.00 | 0.65<br>0.05 | 0.00<br>0.00 | 0.21<br>0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.86<br>0.06 | 0.00<br>0.00 |
| Wetland S-49 [4] | 1473.20 | PEM | Regulated | IV | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| Wetland S-50A [4] | 1473.10 | PEM | Regulated | III | 3.52 | 0.06 | 0.00 | 0.01 | 0.00 | 0.00 | 0.07 | 0.00 |
| Wetland S-50B [4] | 1473.01 | PEM | Regulated | III | 77.38 | 0.05 | 0.00 | 0.04 | 0.00 | 0.00 | 0.09 | 0.00 |
| Wetland S-50C [4] | 1472.94 | PEM | Regulated | III | 99.13 | 0.09 | 0.00 | 0.05 | 0.00 | 0.00 | 0.14 | 0.00 |
| Wetland S-50D [4] | 1472.87 | PEM | Regulated | III | 295.75 | 0.28 | 0.00 | 0.18 | 0.00 | 0.00 | 0.46 | 0.00 |
| Wetland S-50E [4] | 1472.77 | PEM | Regulated | III | 0.00 | 0.03 | 0.00 | 0.00 | <0.01 | 0.00 | 0.03 | 0.00 |
| Wetland S-52 (Unnamed Tributary) | 1472.63 | R | Regulated | N/A | 0.99 | <0.01 | 0.00 | <0.01 | 0.00 | 0.00 | <0.01 | 0.00 |
| Wetland S-53 [4] (Ditch) | 1472.56 | PEM | Regulated | III | 539.16 | 0.95 | 0.00 | 0.24 | 0.13 | 0.00 | 1.32 | 0.00 |
| Wetland S-54 (Smith Creek) | 1472.23 | R | Regulated | N/A | 25.93 | 0.04 | 0.00 | 0.01 | 0.00 | 0.00 | 0.05 | 0.00 |
| Wetland S-55 (Trib. to Macaulay Creek) | 1471.95 | R | Regulated | N/A | 10.59 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 0.03 | 0.00 |
| Wetland S-56 [4] (Trib. to Macaulay Creek) | 1471.55 | PEM<br>R<br>POW | Regulated | III | 560.09<br>8.71<br>0.00 | 0.86<br>0.01<br>0.00 | 0.00<br>0.00<br>0.00 | 0.25<br><0.01<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 1.11<br>0.01<br>0.00 | 0.00<br>0.00<br>0.00 |
| Wetland S-57 (Macaulay Creek) | 1471.04 | R | Regulated | N/A | 10.50 | 0.02 | 0.00 | <0.01 | 0.00 | 0.00 | 0.02 | 0.00 |
| Wetland S-57.1 Trib. to Mitchell Creek) | 1470.85 | R | Regulated | N/A | 5.01 | 0.01 | 0.00 | <0.01 | 0.00 | 0.00 | 0.01 | 0.00 |
| Wetland S-58 [4] | 1470.83 | PEM | Regulated | III | 208.11 | 0.31 | 0.00 | 0.10 | 0.09 | 0.00 | 0.50 | 0.00 |
| Wetland S-59 (Mitchell Creek – ditch) | 1470.76 | R | Regulated | N/A | 2.61 | 0.03 | <0.01 | <0.01 | <0.00 | 0.00 | 0.03 | 0.00 |
| Wetland S-60 [4] (Trib. to Mitchell Creek) | 1470.14 | PEM | Regulated | III | 143.94 | 0.18 | 0.10 | 0.00 | 0.04 | 0.00 | 0.32 | 0.00 |
| Wetland S-61 | 1469.92 | PEM | Regulated | III | 791.27 | 1.35 | 0.00 | 0.28 | 0.28 | 0.00 | 1.91 | 0.00 |

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wetland S-62 (Trib. to Mitchell Creek) | 1469.79 | R | Regulated | N/A | 27.63 | 0.03 | 0.00 | 0.01 | 0.01 | 0.00 | 0.05 | 0.00 |
| Wetland S-63 [7] (Lake) | 1469.60 | L | Regulated | III | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland S-64 [4] (Ditch & Unnamed Trib.) | 1469.16<br>1469.14 | PEM<br>R | Regulated | III | 0.00<br>16.65 | <0.01<br>0.02 | 0.00<br>0.00 | 0.03<br><0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.03<br>0.02 | 0.00<br>0.00 |
| Wetland S-65 [4] | 1469.00 | PEM | Regulated | III | 727.11 | 1.28 | 0.00 | 0.33 | 0.82 | 0.00 | 2.43 | 0.00 |
| Wetland S-66 (Trib. to Jim Creek) | 1468.84 | R | Regulated | N/A | 5.04 | 0.01 | 0.00 | <0.01 | 0.01 | 0.00 | 0.02 | 0.00 |
| Wetland S-67A,B (Trib. to Jim Creek) | 1468.81<br>1468.77 | R | Regulated | N/A | 6.47 | 0.02 | 0.00 | <0.01 | 0.03 | 0.00 | 0.05 | 0.00 |
| Wetland S-68 [8] (Jim Creek) | 1468.68 | R | Regulated | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland S-69 [8] (Trib. to Nooksack) | 1468.44 | R | Regulated | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland S-70 [8] (N. Fork Nooksack River) | 1468.20 | R | Regulated | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland S-71 [7] | 1468.10 | PFO | Regulated | III | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland S-72 | 1467.96 | PEM<br>PSS | Regulated | III | 81.08<br>0.00 | 0.14<br>0.00 | 0.00<br>0.00 | 0.01<br><0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.15<br><0.01 | 0.00<br>0.00 |
| Wetland S-73 (Trib to S. Fork Nooksack River) | 1467.41 | R | Regulated | N/A | 6.91 | 0.01 | 0.00 | <0.01 | 0.00 | 0.00 | 0.01 | 0.00 |
| Wetland S-74 (Trib to S. Fork Nooksack River) | 1467.27<br>1467.20 | PEM<br>PFO<br>R | Regulated | III | 540.09<br>0.00<br>1.00 | 0.96<br>0.00<br><0.01 | 0.00<br>0.00<br>0.00 | 0.08<br>0.01<br><0.01 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 1.04<br>0.01<br><0.01 | 0.00<br>0.00<br>0.00 |
| Wetland S-75 | 1466.99 | PEM<br>PSS | Regulated | III | 0.07<br>149.03 | 0.17<br>0.09 | 0.00<br>0.00 | 0.00<br>0.04 | 0.00<br>0.00 | 0.00<br>0.00 | 0.17<br>0.13 | 0.00<br>0.03 |
| Wetland S-76 (Trib to S. Fork Nooksack River) | 1466.81 | PFO<br>PSS<br>PEM<br>R | Regulated | II | 0.00<br>0.00<br>1065.10<br>3.03 | <0.01<br>0.00<br>1.76<br>0.01 | 0.00<br>0.00<br>0.00<br>0.00 | 0.14<br>0.11<br>0.25<br><0.01 | 0.00<br>0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00<br>0.00 | 0.14<br>0.11<br>2.01<br>0.01 | 0.00<br>0.00<br>0.00<br>0.00 |
| Wetland S-77 | 1466.62 | PEM<br>PSS | Regulated | III | 739.61<br>0.00 | 1.19<br>0.00 | 0.00<br>0.00 | 0.29<br>0.00 | 0.30<br>0.00 | 0.00<br>0.00 | 1.78<br>0.00 | 0.00<br>0.00 |
| Wetland S-78 | 1465.83 | PEM<br>PSS<br>PFO | Regulated | II | 1844.26<br>60.95<br>0.00 | 3.21<br>0.05<br>0.05 | 0.00<br>0.00<br>0.00 | 0.47<br>0.15<br>0.25 | 0.02<br>0.00<br>0.02 | 0.00<br>0.00<br>0.00 | 3.70<br>0.20<br>0.32 | 0.00<br>0.01<br>0.00 |

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wetland S-79 | 1465.62 | PEM | Regulated | III | 234.45 | 0.35 | 0.00 | 0.11 | 0.00 | 0.00 | 0.46 | 0.00 |
| Wetland S-80A (Ditch) | 1465.45 | PEM | Regulated | III | 1.52 | <0.01 | 0.00 | <0.01 | <0.01 | 0.00 | <0.01 | 0.00 |
| Wetland S-80B (Ditch) | 1465.45 | PEM | Regulated | III | 1.50 | <0.01 | 0.00 | <0.01 | <0.01 | 0.00 | <0.01 | 0.00 |
| Wetland S-81[4] | 1465.38 | PEM | Regulated | III | 446.60 | 0.72 | 0.00 | 0.21 | 0.00 | 0.00 | 0.93 | 0.00 |
| Wetland S-82 [4] (Trib. to Black Slough & Ditch) | 1465.01<br>1464.73 | PFO<br>R<br>PEM | Regulated | II | 115.81<br>2.00<br>2521.81 | 0.92<br><0.01<br>3.63 | 0.40<br><0.01<br>0.51 | 0.23<br><0.01<br>0.08 | 1.76<br><0.01<br>0.63 | 0.00<br>0.00<br>0.00 | 3.31<br><0.01<br>4.85 | 0.40<br>0.00<br>0.00 |
| Wetland S-83 [4] (Ditch) | 1464.72 | PEM<br>PFO | Regulated | III | 583.86<br>0.00 | 0.81<br>0.00 | 0.09<br>0.00 | <0.01<br>0.00 | 0.30<br>0.00 | 0.00<br>0.00 | 1.20<br>0.00 | 0.00<br>0.00 |
| Wetland S-84 [4] (Tinling Creek) | 1464.59 | R | Regulated | N/A | 15.88 | 0.03 | 0.00 | 0.01 | 0.00 | 0.00 | 0.04 | 0.00 |
| Wetland S-85 [4] (Ditches) | 1464.50<br>1464.24 | PEM | Regulated | III | 1388.30 | 2.38 | 0.00 | 0.65 | 0.00 | 0.00 | 3.03 | 0.00 |
| Wetland S-86A,B (Ditches) | 1463.75<br>1463.74 | PEM | Regulated | III | 9.03 | 0.01 | 0.00 | <0.03 | 0.02 | 0.00 | 0.03 | 0.00 |
| Wetland S-87 (Ditch) | 1463.50 | PEM<br>PFO | Regulated | III | 1909.67<br>0.00 | 2.67<br>0.19 | 0.00<br>0.00 | 0.03<br>0.41 | 0.20<br>0.01 | 0.00<br>0.00 | 2.90<br>0.61 | 0.00<br>0.00 |
| Wetland S-88 (Trib. to Black Slough) [4] | 1463.26 | R | Regulated | N/A | 2.47 | 0.01 | 0.00 | <0.01 | 0.00 | 0.00 | 0.01 | 0.00 |
| Wetland S-89A,B (Ditches) | 1463.01<br>1463.00 | PEM | Regulated | III | 13.12 | 0.02 | 0.00 | <0.01 | 0.02 | 0.00 | 0.04 | 0.00 |
| Wetland S-90 | 1462.93 | PEM<br>PSS | Regulated | III | 237.60<br>0.00 | 0.56<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.56<br>0.00 | 0.00<br>0.00 |
| Wetland S-91 (Trib. to S. Fork Nooksack River) | 1461.9 | R<br>PEM<br>PFO<br>PSS | Regulated | III | 9.84<br>19.28<br>0.00<br>0.00 | 0.01<br>0.01<br>0.01<br>0.00 | 0.00<br>0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00<br>0.00 | 0.01<br>0.01<br>0.01<br>0.00 | 0.00<br>0.00<br>0.00<br>0.00 |
| Wetland S-92 | 1461.84 | PSS | Regulated | III | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 |
| **SUMAS LOOP TOTAL (Whatcom County Total)** | | | | | **23,877.30** | **38.16** | **1.17** | **7.32** | **6.40** | **0.00** | **53.05** | **0.52** |
| **Mt. Vernon Loop (Snohomish County)** | | | | | | | | | | | | |
| Wetland MV-1 | 1430.38 | PFO | Regulated | I | 0.0 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 |
| Wetland MV-2 | 1429.65 | PSS<br>PEM<br>PFO | Regulated | II | 0.00<br>91.67<br>0.00 | <0.01<br>0.30<br>0.00 | 0.00<br>0.00<br>0.00 | 0.02<br><0.01<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.02<br>0.30<br>0.00 | 0.00<br>0.00<br>0.00 |
| Wetland MV-3 | 1429.57 | PEM<br>PSS | Regulated | III | 112.05<br>0.00 | 0.13<br>0.02 | 0.00<br>0.00 | 0.00<br>0.03 | 0.00<br>0.00 | 0.00<br>0.00 | 0.13<br>0.05 | 0.00<br>0.00 |

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill[7]) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wetland MV-4 | 1429.54 | PEM<br>PSS | Regulated | III | 151.14<br>0.00 | 0.21<br>0.03 | 0.00<br>0.00 | <0.01<br>0.04 | 0.00<br>0.00 | 0.00<br>0.00 | 0.21<br>0.07 | 0.00<br>0.00 |
| Wetland MV-5 | 1429.42 | PSS | Regulated | III | 0.00 | 0.02 | 0.00 | 0.05 | 0.00 | 0.00 | 0.07 | 0.00 |
| Wetland MV-6 | 1428.74 | PSS<br>PEM<br>PFO | Regulated | III | 0.00<br>482.79<br>0.00 | <0.01<br>0.70<br>0.00 | 0.00<br>0.00<br>0.00 | 0.06<br>0.07<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.06<br>0.77<br>0.00 | 0.00<br>0.00<br>0.00 |
| Wetland MV-7 (Pilchuck Creek) | 1428.62 | R | Regulated | N/A | 71.74 | 0.12 | 0.00 | 0.00 | 0.14 | 0.00 | 0.26 | 0.00 |
| Wetland MV-8 (Trib. to Pilchuck Creek-Ditch) | 1428.60 | PEM<br>PSS | Regulated | III | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.01<br>0.39 | 0.00<br>0.00 | 0.01<br>0.39 | 0.00<br>0.00 |
| Wetland MV-8.1 (Trib. to Pilchuck Creek) | 1428.49 | R | Regulated | N/A | 1.01 | <0.01 | 0.00 | <0.01 | 0.00 | 0.00 | <0.01 | 0.00 |
| Wetland MV-9 | 1426.53 | PFO | Regulated | II | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 |
| Wetland MV-10 [7] | 1426.00 | PFO<br>PSS | Regulated | I | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 |
| Wetland MV-11 (Armstrong Creek) | 1425.62 | R | Regulated | N/A | 16.80 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| Wetland MV-12 [7] | 1425.42 | PFO | Regulated | III | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland MV-13A,B,C [8] | 1424.37<br>1424.32<br>1424.20 | PSS<br>PEM<br>POW | Regulated | II | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00 |
| Wetland MV-14 [8] (N. Fork Stillaguamish River) | 1424.26 | R | Regulated | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland MV-15 [8] (S. Fork Stillaguamish River) | 1423.84 | R | Regulated | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland MV-16 [4] (Eagle Creek) | 1423.46 | PEM<br>POW<br>R | Regulated | III | 132.68<br>22.87<br>4.36 | 0.07<br><0.01<br>0.02 | 0.10<br>0.02<br><0.01 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.17<br>0.02<br>0.02 | 0.00<br>0.00<br>0.00 |
| Wetland MV-17 [4] (Ditch) | 1422.96 | PEM | Regulated | III | 70.68 | 0.14 | 0.03 | 0.00 | 0.04 | 0.00 | 0.21 | 0.00 |
| Wetland MV-18 [4] (Ditch) | 1422.79 | PEM | Regulated | III | 1123.10 | 1.51 | 0.53 | 0.00 | 0.56 | 0.00 | 2.60 | 0.00 |
| Wetland MV-19 [7] | 1422.51 | PSS | Regulated | III | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill[7]) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wetland MV-20 (Trib. to S. Fork Stillaguamish River) | 1422.24 | PEM<br>PSS<br>R | Regulated | III | 0.00<br>0.00<br>3.00 | 0.02<br><0.01<br>0.01 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br><0.01 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.02<br><0.01<br>0.01 | 0.00<br>0.00<br>0.00 |
| Wetland MV-21 | 1422.19 | PEM<br>PFO<br>R | Regulated | III | 97.88<br>0.00<br>0.00 | 0.16<br>0.01<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.03<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.16<br>0.04<br>0.00 | 0.00<br>0.00<br>0.00 |
| Wetland MV-22 | 1422.12 | PSS<br>PFO<br>R | Regulated | III | 22.13<br>0.00<br>0.00 | 0.19<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | <0.01<br>0.01<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.19<br>0.01<br>0.00 | 0.01<br>0.00<br>0.00 |
| Wetland MV-23 (Trib. to S. Fork Stillaguamish River) | 1421.94 | PSS<br>PEM<br>R | Regulated | III | 0.00<br>0.00<br>0.00 | 0.12<br>0.14<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.12<br>0.14<br>0.00 | 0.00<br>0.00<br>0.00 |
| Wetland MV-24 (Ditch) | 1421.85 | PEM<br>PFO | Regulated | III | 0.00<br>3.81 | 0.61<br>0.00 | 0.00<br>0.00 | <0.01<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.61<br><0.01 | 0.00<br><0.01 |
| Wetland MV-25 | 1421.7 | PEM | Isolated | IV | 68.47 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 |
| Wetland MV-26 | 1421.58 | PEM | Isolated | IV | 139.18 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.00 |
| Wetland MV-27 (Trib. to S. Fork Stillaguamish River) | 1421.33 | R | Regulated | N/A | 17.28 | 0.02 | 0.00 | <0.01 | 0.00 | 0.00 | 0.02 | 0.00 |
| Wetland MV-28 | 1420.64 | PEM<br>PSS<br>PFO | Regulated | III | 35.11<br>0.00<br>0.00 | 0.13<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.05<br>0.01<br>0.00 | 0.02<br>0.02<br>0.00 | 0.00<br>0.00<br>0.00 | 0.20<br>0.03<br>0.00 | 0.00<br>0.00<br>0.00 |
| Wetland MV-29 | 1420.46 | PEM<br>PFO<br>PSS | Regulated | II | 163.29<br>0.00<br>0.00 | 0.22<br>0.01<br>0.00 | 0.00<br>0.00<br>0.00 | <0.01<br>0.04<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.22<br>0.05<br>0.00 | 0.00<br>0.00<br>0.00 |
| Wetland MV-30 | 1420.26 | PEM<br>PFO | Regulated | II | 383.31<br>0.00 | 0.57<br>0.03 | 0.00<br>0.00 | 0.00<br>0.04 | 0.00<br>0.00 | 0.00<br>0.00 | 0.57<br>0.07 | 0.00<br>0.00 |
| Wetland MV-31 | 1420.15 | PFO<br>PEM<br>PSS | Regulated | I<br>III<br>III | 0.00<br>147.65<br>0.00 | 0.04<br>0.41<br>0.00 | 0.00<br>0.00<br>0.00 | 0.03<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.07<br>0.41<br>0.00 | 0.00<br>0.00<br>0.00 |
| Wetland MV-32A,B (Olson Lake) | 1419.33 | PSS<br>PEM<br>PFO | Regulated | II | 260.08<br>768.96<br>1015.86 | 1.77<br>1.51<br>0.20 | 0.10<br>0.13<br>0.66 | 0.23<br>0.12<br>0.17 | 0.11<br>0.01<br>0.11 | 0.10<br>0.00<br>0.08 | 2.31<br>1.77<br>1.22 | 0.00 [10]<br>0.00<br>0.66 |
| Wetland MV-32.1 | 1418.7 | PFO<br>PEM | Regulated | III | 0.00<br>133.22 | 0.00<br>0.60 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.60 | 0.00<br>0.00 |
| Wetland MV-32.2 | 1418.62 | PEM<br>PSS | Regulated | III | 89.65<br>0.00 | 0.12<br>0.00 | 0.00<br>0.00 | 0.03<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.15<br>0.00 | 0.00<br>0.00 |

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill') (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wetland MV-33 | 1418.47 | PEM | Regulated | III | 186.45 | 0.27 | 0.00 | 0.02 | 0.00 | 0.00 | 0.29 | 0.00 |
| Wetland MV-34 | 1418.28 | PEM<br>PSS | Regulated | III | 105.90<br>0.00 | 0.16<br>0.00 | 0.00<br>0.00 | <0.01<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.16<br>0.00 | 0.00<br>0.00 |
| Wetland MV-35 | 1418.16 | PEM<br>PFO | Regulated | III | 283.11<br>0.00 | 0.52<br>0.00 | 0.00<br>0.00 | <0.01<br>0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.52<br>0.01 | 0.00<br>0.00 |
| Wetland MV-36 | 1417.73 | PEM | Regulated | III | 82.95 | 0.11 | 0.00 | 0.01 | 0.00 | 0.00 | 0.12 | 0.00 |
| Wetland MV-37 | 1417.66 | PEM | Regulated | III | 40.40 | 0.07 | 0.00 | 0.01 | 0.00 | 0.00 | 0.08 | 0.00 |
| Wetland MV-38 | 1417.5 | PSS<br>PEM | Regulated | III | 0.00<br>277.65 | 0.07<br>0.37 | 0.00<br>0.00 | 0.00<br><0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.07<br>0.37 | 0.00<br>0.00 |
| Wetland MV-39 | 1417.34 | PEM<br>PSS | Regulated | III | 45.28<br>0.00 | 0.07<br>0.01 | 0.00<br>0.00 | 0.00<br>0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.07<br>0.02 | 0.00<br>0.00 |
| Wetland MV-40 | 1417.01 | PEM | Regulated | III | 119.77 | 0.16 | 0.00 | <0.01 | 0.00 | 0.00 | 0.16 | 0.00 |
| Wetland MV-41 | 1416.51 | PAB<br>PEM<br>PSS<br>PFO | Regulated | II | 30.68<br>0.00<br>572.75<br>0.00 | 0.19<br>0.30<br>0.80<br><0.01 | 0.00<br>0.00<br>0.00<br>0.00 | 0.09<br>0.00<br>0.18<br>0.04 | 0.00<br>0.00<br>0.01<br>0.01 | 0.00<br>0.00<br>0.00<br>0.00 | 0.28<br>0.30<br>0.99<br>0.05 | 0.00<br>0.00<br>0.13<br>0.00 |
| Wetland MV-42 | 1416.36 | PEM<br>PSS | Regulated | IV | 0.00<br>212.67 | 0.21<br>0.12 | 0.00<br>0.00 | 0.00<br>0.02 | 0.00<br>0.00 | 0.00<br>0.00 | 0.21<br>0.14 | 0.00<br>0.05 |
| Wetland MV-43 | 1416.13 | PAB<br>PSS | Regulated | III | 0.00<br>154.72 | 0.10<br>0.20 | 0.00<br>0.00 | 0.00<br>0.04 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.24 | 0.00<br>0.04 |
| Wetland MV-44 (Trib. to Star Creek) | 1415.98 | R | Regulated | N/A | 3.05 | 0.01 | 0.00 | <0.01 | 0.00 | 0.00 | 0.01 | 0.00 |
| Wetland MV-46 | 1415.72 | PSS<br>PFO | Regulated | III | 33.04<br>138.57 | 0.20<br>0.06 | 0.00<br>0.00 | 0.00<br>0.05 | 0.00<br>0.00 | 0.00<br>0.00 | 0.20<br>0.11 | 0.01<br>0.10 |
| Wetland MV-48 | 1415.39 | PEM | Regulated | III | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 |
| Wetland MV-49 7 | 1415.4 | POW | Regulated | II | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland MV-49.1 (Star Creek) | 1415.31 | R<br>PEM | Regulated | III | 18.25<br>0.00 | 0.03<br>0.13 | <0.01<br>0.00 | <0.01<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.03<br>0.13 | 0.00<br>0.00 |
| Wetland MV-49.2 [7] (Trib. to Star Creek) | 1415.30 | R<br>POW<br>PEM | Regulated | III | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00 |
| Wetland MV-50 (Trib. to Little Pilchuck Creek) | 1414.45 | R | Regulated | N/A | 1.88 | 0.01 | 0.00 | <0.01 | 0.00 | 0.00 | 0.01 | 0.00 |
| Wetland MV-52 | 1413.95 | PEM | Regulated | III | 166.57 | 0.26 | 0.00 | <0.01 | 0.00 | 0.00 | 0.26 | 0.00 |

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wetland MV-55 (Trib. to Little Pilchuck Creek) | 1412.12 | PEM<br>R<br>PFO<br>PAB | Regulated | II | 55.54<br>3.12<br>0.00<br>0.00 | 0.10<br>0.01<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00<br>0.00 | 0.05<br>0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00<br>0.00 | 0.15<br>0.01<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00<br>0.00 |
| Wetland MV-56 | 1412.02 | PEM<br>PFO | Regulated | III | 223.63<br>0.00 | 0.33<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.33<br>0.00 | 0.00<br>0.00 |
| Wetland MV-57 (Trib. to Little Pilchuck Creek) | 1411.94 | R | Regulated | N/A | 1.06 | <0.01 | 0.00 | 0.00 | 0.00 | 0.00 | <0.01 | 0.00 |
| Wetland MV-58 | 1411.86 | PEM<br>PSS | Regulated | III | 107.04<br>0.00 | 0.15<br>0.03 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.15<br>0.03 | 0.00<br>0.00 |
| Wetland MV-59A | 1411.65 | PEM | Regulated | III | 303.31 | 0.71 | 0.05 | 0.02 | 0.00 | 0.00 | 0.78 | 0.00 |
| Wetland MV-60 | 1411.39 | PEM<br>PFO<br>POW | Regulated | III | 0.00<br>0.00<br>0.00 | 0.12<br>0.00<br>0.00 | <0.01<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.12<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 |
| Wetland MV-61 | 1411.35 | PFO | Regulated | III | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.00 | 0.03 | 0.00 |
| Wetland MV-62 (Little Pilchuck Creek) | 1411.06 | R | Regulated | N/A | 20.00 | 0.03 | 0.01 | 0.00 | 0.01 | 0.00 | 0.05 | 0.00 |
| Wetland MV-63 (Little Pilchuck Creek) | 1410.52 | R | Regulated | N/A | 25.90 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 0.04 | 0.00 |
| **Mt. Vernon Loop (City of Lake Stevens)** | | | | | | | | | | | | |
| Wetland MV-65 | 1409.88 | PSS | Regulated | IV | 1.81 | 0.02 | 0.00 | 0.07 | 0.00 | 0.00 | 0.09 | <0.01 |
| **Mt. Vernon Loop (Snohomish County)** | | | | | | | | | | | | |
| Wetland MV-66 (Catherine Creek) | 1409.59 | R | Regulated | N/A | 18.24 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 0.03 | 0.00 |
| Wetland MV-67A, B, C | 1409.26<br>1409.2<br>1409.16 | POW<br>PSS<br>PEM | Regulated | II | 133.99<br>37.79<br>166.41 | 0.12<br>0.03<br>0.49 | 0.00<br>0.00<br>0.00 | 0.05<br>0.10<br><0.01 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.17<br>0.13<br>0.49 | 0.00<br>0.01<br>0.00 |
| Wetland MV-68 | 1409.04 | PEM<br>PSS | Regulated | III | 0.00<br>186.84 | 0.28<br>0.02 | 0.00<br>0.00 | 0.00<br>0.03 | 0.00<br>0.00 | 0.00<br>0.00 | 0.28<br>0.05 | 0.00<br>0.04 |
| Wetland MV-69 | 1408.9 | PEM<br>PSS | Regulated | III | 29.24<br>22.14 | 0.07<br>0.02 | 0.00<br>0.00 | 0.00<br>0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.07<br>0.03 | 0.00<br>0.01 |
| Wetland MV-70 | 1408.87 | PEM<br>PSS | Regulated | III | 41.29<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 |
| Wetland MV-71 | 1408.79 | PSS<br>PEM<br>PFO | Regulated | II | 0.00<br>0.00<br>0.00 | 0.00<br>0.23<br><0.01 | 0.00<br><0.01<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.23<br><0.01 | 0.00<br>0.00<br>0.00 |

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MT. VERNON LOOP TOTAL** | | | | | **9,480.81** | **18.15** | **1.63** | **1.85** | **1.51** | **0.18** | **23.32** | **1.06** |
| **Snohomish County Total** | | | | | **9,479.00** | **18.13** | **1.63** | **1.78** | **1.51** | **0.18** | **23.23** | **1.06** |
| **City of Lake Stevens Total** | | | | | **1.81** | **0.02** | **0.00** | **0.07** | **0.00** | **0.00** | **0.09** | **0.00** |
| **Snohomish Loop (Snohomish County)** | | | | | | | | | | | | |
| Wetland SN-1 | 1393.80 | PEM | Regulated | III | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| Wetland SN-2 (Trib. to Paradise Lake/Bear Creek) | 1393.77 | PFO | Regulated | III | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.02 | 0.00 |
| | | PEM | | | 52.67 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| | | R | | | 8.32 | 0.01 | 0.00 | <0.01 | 0.00 | 0.00 | 0.01 | 0.00 |
| Wetland SN-3 | 1393.62 | PFO | Regulated | III | 0.00 | <0.01 | 0.00 | 0.12 | 0.00 | 0.00 | 0.12 | 0.00 |
| | | PEM | | | 9.62 | 0.07 | 0.00 | <0.01 | 0.00 | 0.00 | 0.07 | 0.00 |
| Wetland SN-3.1 | 1393.58 | PEM | Isolated | III | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| | | PSS | | | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| Wetland SN-4 (Trib. to Paradise Lake/Bear Creek) | 1393.32 | R | Regulated | II | 12.16 | 0.02 | 0.00 | <0.01 | 0.00 | 0.00 | 0.02 | 0.00 |
| | | PFO | | | 0.00 | 0.04 | 0.00 | 0.03 | 0.00 | 0.00 | 0.07 | 0.00 |
| | | PSS | | | 0.00 | 0.11 | 0.00 | <0.01 | 0.00 | 0.00 | 0.11 | 0.00 |
| | | PEM | | | 166.65 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| Wetland SN-5 [4] | 1393.27 | PSS | Regulated | III | 0.00 | 0.02 | 0.00 | 0.04 | 0.00 | 0.00 | 0.06 | 0.00 |
| | | PEM | | | 61.94 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| Wetland SN-6 [4] (Trib. to Paradise Lake/Bear Creek) | 1393.11 | PFO | Regulated | II | 21.39 | 0.06 | 0.00 | 0.02 | 0.00 | 0.00 | 0.08 | 0.01 |
| | | R | | | 6.01 | 0.01 | 0.00 | <0.01 | 0.00 | 0.00 | 0.01 | 0.00 |
| | | PSS | | | 85.50 | 0.11 | 0.00 | 0.02 | 0.00 | 0.00 | 0.13 | 0.02 |
| | | PEM | | | 115.65 | 0.18 | 0.00 | 0.01 | 0.00 | 0.00 | 0.19 | 0.00 |
| | | POW | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **Snohomish Loop (King County)** | | | | | | | | | | | | |
| Wetland SN-6 (Trib. to Paradise Lake/Bear Creek) | 1393.07 | PEM | Regulated | II | 143.70 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 |
| | | PSS | | | 111.95 | 0.07 | 0.00 | 0.02 | 0.00 | 0.00 | 0.09 | 0.03 |
| | | PFO | | | 2.72 | 0.07 | 0.00 | 0.05 | 0.00 | 0.00 | 0.12 | <0.01 |
| | | R | | | 0.00 | <0.01 | 0.00 | <0.01 | 0.00 | 0.00 | <0.01 | 0.00 |
| | | POW | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland SN-7 (Trib. to Paradise Lake/Bear Creek) | 1392.95 | PEM | Regulated | II | 53.08 | 0.06 | 0.00 | <0.01 | 0.00 | 0.00 | 0.06 | 0.00 |
| | | PSS | | | 66.68 | 0.10 | 0.00 | 0.00 | <0.01 | 0.00 | 0.10 | 0.02 |
| | | PFO | | | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.02 | 0.00 |
| | | R | | | 3.01 | <0.01 | 0.00 | <0.01 | 0.00 | 0.00 | <0.01 | 0.00 |
| Wetland SN-8 | 1392.86 | PSS | Isolated | IV | 68.41 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.02 |
| Wetland SN-9 | 1392.72 | PFO | Regulated | III | 0.00 | 0.01 | 0.00 | <0.01 | 0.00 | 0.00 | 0.01 | 0.00 |
| | | PEM | | | 59.70 | 0.07 | 0.00 | <0.01 | 0.00 | 0.00 | 0.07 | 0.00 |
| Wetland SN-10 | 1392.24 | PEM | Regulated | III | 15.81 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 |

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wetland SN-11 | 1392.03 | PSS<br>PEM | Regulated | III | 0.00<br>32.22 | 0.10<br>0.11 | 0.00<br>0.00 | <0.01<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.11 | 0.00<br>0.00 |
| Wetland SN-12 | 1391.97 | PEM<br>PSS | Isolated | III | 0.00<br>0.00 | 0.02<br>0.02 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.02<br>0.02 | 0.00<br>0.00 |
| Wetland SN-13 | 1391.9 | PEM | Regulated | III | 18.23 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| Wetland SN-14 | 1391.85 | PSS | Isolated | III | 8.86 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | <0.01 |
| Wetland SN-15 | 1391.79 | PEM | Regulated | III | 24.07 | 0.04 | 0.00 | 0.01 | 0.00 | 0.00 | 0.05 | 0.00 |
| Wetland SN-16 | 1391.74 | PEM | Isolated | IV | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| Wetland SN-17 | 1391.59 | PEM | Isolated | IV | 0.00 | 0.02 | 0.00 | 0.00 | <0.01 | 0.00 | 0.02 | 0.00 |
| Wetland SN-18 | 1391.40 | PEM<br>PSS | Regulated | III | 16.79<br>0.00 | 0.04<br><0.01 | 0.00<br>0.00 | 0.00<br><0.01 | <0.01<br>0.04 | 0.00<br>0.00 | 0.04<br>0.04 | 0.00<br>0.00 |
| Wetland SN-19 | 1391.34 | PEM | Regulated | III | 20.75 | 0.05 | 0.00 | 0.00 | 0.01 | 0.00 | 0.06 | 0.00 |
| Wetland SN-20 | 1391.31 | PEM<br>PAB<br>PSS<br>PFO | Regulated | II | 32.41<br>36.53<br>57.65<br>0.55 | 0.04<br>0.02<br>0.06<br>0.02 | 0.00<br>0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00<br>0.05 | 0.00<br>0.00<br>0.00<br>0.04 | 0.00<br>0.00<br>0.00<br>0.00 | 0.04<br>0.02<br>0.06<br>0.11 | 0.00<br>0.02 [11]<br>0.01<br><0.01 |
| Wetland SN-21 (Trib. to Paradise Lake/Bear Creek) | 1391.24 | PSS<br>R | Regulated | III | 0.00<br>19.43 | <0.01<br>0.04 | 0.00<br>0.00 | <0.01<br>0.01 | 0.00<br>0.00 | 0.00<br>0.00 | <0.01<br>0.05 | 0.00<br>0.00 |
| Wetland SN-22 (Struve Creek) | 1390.15 | R | Regulated | N/A | 180.71 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 |
| Wetland SN-23 [4] | 1389.84 | PEM | Regulated | III | 69.99 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| Wetland SN-24 (Colin Creek) (span) | 1389.40 | R<br>PFO<br>PSS | Regulated | II | 9.34<br>0.00<br>262.28 | 0.02<br>0.04<br>0.30 | 0.00<br>0.00<br>0.00 | <0.01<br>0.10<br><0.01 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.02<br>0.14<br>0.30 | 0.00<br>0.00<br>0.06 |
| Wetland SN-25 | 1389.14 | PFO<br>PSS<br>PEM | Regulated | III | 0.00<br>0.00<br>0.00 | 0.00<br>0.06<br>0.03 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.06<br>0.03 | 0.00<br>0.00<br>0.00 |
| Wetland SN-26 | 1389.12 | PSS<br>PFO | Regulated | III | 266.08<br>0.00 | 0.20<br><0.01 | 0.00<br>0.00 | 0.02<br>0.05 | 0.00<br>0.00 | 0.00<br>0.00 | 0.22<br>0.05 | 0.06<br>0.00 |
| Wetland SN-27 | 1388.87 | PEM<br>PFO<br>PSS | Regulated | III | 48.03<br>0.00<br>0.00 | 0.07<br>0.03<br>0.00 | 0.00<br>0.00<br>0.00 | <0.01<br>0.01<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.07<br>0.04<br>0.00 | 0.00<br>0.00<br>0.00 |

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Snohomish Loop (City of Redmond)** | | | | | | | | | | | | |
| Wetland SN-28 A&B (Trib. to Seidel Creek) | 1388.64 | R | Regulated | N/A | 10.44 | 0.01 | 0.00 | <0.01 | 0.00 | 0.00 | 0.01 | 0.00 |
| | | PEM | | II | 64.50 | 0.10 | 0.00 | 0.02 | 0.00 | 0.00 | 0.12 | 0.00 |
| | | PSS | | II | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | PFO | | I | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland SN-29 (Trib. to Seidel Creek) | 1388.51 | R | Regulated | II | 9.60 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.02 | 0.00 |
| | | PSS | | | 20.42 | 0.05 | 0.00 | 0.02 | 0.00 | 0.00 | 0.07 | <0.01 |
| | | PFO | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland SN-30 | 1388.03 | PFO | Regulated | II | 0.00 | 0.01 | 0.00 | 0.02 | 0.00 | 0.00 | 0.03 | 0.00 |
| | | PEM | | | 37.80 | 0.04 | 0.00 | <0.01 | 0.00 | 0.00 | 0.04 | 0.00 |
| | | PAB | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland SN-31 | 1387.84 | PEM | Isolated | III | 0.00 | 0.01 | 0.00 | <0.01 | 0.00 | 0.00 | 0.01 | 0.00 |
| Wetland SN-32 (Trib. to Bear Creek) | 1387.73 | PEM | Regulated | II | 125.67 | 0.14 | 0.00 | <0.01 | 0.00 | 0.00 | 0.14 | 0.00 |
| | | R | | | 0.90 | <0.01 | 0.00 | <0.01 | 0.00 | 0.00 | <0.01 | 0.00 |
| | | PFO | | | 0.00 | 0.12 | 0.00 | 0.12 | 0.00 | 0.00 | 0.24 | 0.00 |
| | | PSS | | | 0.00 | 0.02 | 0.00 | 0.03 | 0.00 | 0.00 | 0.05 | 0.00 |
| **Snohomish Loop (King County)** | | | | | | | | | | | | |
| Wetland SN-33 [7] | 1386.99 | PFO | Regulated | III | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland SN-34 | 1386.86 | PFO | Regulated | III | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.05 | 0.00 |
| | | PSS | | | 2.43 | 0.14 | 0.00 | 0.29 | 0.00 | 0.00 | 0.43 | <0.01 |
| Wetland SN-35 | 1386.78 | PSS | Regulated | III | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| | | PFO | | | 0.00 | <0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | PEM | | | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| Wetland SN-36 | 1386.67 | PFO | Regulated | III | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| | | PSS | | | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| Wetland SN-37 (Trib. to Evans Creek) | 1385.80 | PFO | Regulated | II | 0.00 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 0.03 | 0.00 |
| | | PSS | | | 108.29 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.02 |
| | | R | | | 5.07 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| | | POW | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland SN-38 (Trib. to Evans Creek) | 1385.79 | PFO | Regulated | III | 0.00 | 0.00 | 0.00 | <0.01 | 0.00 | 0.00 | <0.01 | 0.00 |
| | | R | | | 0.00 | <0.01 | 0.00 | <0.01 | 0.00 | 0.00 | <0.01 | 0.00 |
| | | POW | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | PSS | | | 22.50 | 0.01 | 0.00 | <0.01 | 0.00 | 0.00 | 0.01 | 0.01 |
| Wetland SN-39 [7] | 1385.7 | PFO | Regulated | III | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | R | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| Wetland SN-39.1 | 1385.64 | PEM | Regulated | III | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 |
| | | PFO | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill[7]) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wetland SN-39.2 [7] | 1385.58 | R | Regulated | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland SN-39.3 (Trib. to Evans Creek) | 1385.51 | PSS | Regulated | II | 73.38 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.02 |
| | | PEM | | | 62.18 | 0.11 | 0.00 | 0.02 | 0.00 | 0.00 | 0.13 | 0.00 |
| | | R | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | PFO | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland SN-39.4 [7] | 1385.47 | POW | Regulated | III | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland SN-39.5 | 1385.47 | PSS | Regulated | III | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| | | PEM | | | 8.51 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| Wetland SN-40 | 1385.21 | PEM | Regulated | III | 365.43 | 0.64 | 0.00 | 0.07 | 0.00 | 0.00 | 0.71 | 0.00 |
| | | PFO | | | 0.00 | 0.05 | 0.00 | <0.01 | 0.00 | 0.00 | 0.05 | 0.00 |
| | | PSS | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland SN-40.1 | 1385.03 | PSS | Regulated | III | 185.65 | 0.31 | 0.00 | 0.05 | 0.00 | 0.00 | 0.36 | 0.04 |
| Wetland SN-41 | 1384.70 | PEM | Isolated | IV | 0.00 | <0.01 | 0.00 | 0.00 | 0.00 | 0.00 | <0.01 | 0.00 |
| Wetland SN-42 (Evans Creek) | 1383.66 | PSS | Regulated | II | 998.03 | 1.70 | 0.00 | 0.46 | 0.08 | 0.00 | 2.24 | 0.00 [10] |
| | | PFO | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | PEM | | | 129.67 | 0.22 | 0.00 | 0.03 | <0.01 | 0.00 | 0.25 | 0.00 |
| | | POW | | | 0.00 | <0.01 | 0.00 | 0.02 | 0.00 | 0.00 | 0.02 | 0.00 |
| Wetland SN-43 (Trib. to Evans Creek) | 1383.41 | PSS | Regulated | II | 27.52 | 0.04 | 0.00 | 0.02 | 0.00 | 0.00 | 0.06 | 0.01 |
| | | PEM | | | 46.14 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| | | R | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | PFO | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **Snohomish County (City of Sammamish)** | | | | | | | | | | | | |
| Wetland SN-43 (Trib. to Evans Creek) | 1383.41 | PSS | Regulated | II | 42.60 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 0.03 | 0.01 |
| | | PEM | | | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| **SNOHOMISH LOOP TOTAL** | | | | | **4,515.62** | **8.26** | **0.00** | **1.84** | **0.17** | **0.00** | **10.27** | **0.36** |
| **Snohomish County Total** | | | | | **539.91** | **1.09** | **0.00** | **0.25** | **0.00** | **0.00** | **1.34** | **0.03** |
| **King County Total** | | | | | **3,663.78** | **6.60** | **0.00** | **1.36** | **0.17** | **0.00** | **8.13** | **0.32** |
| **City of Redmond Total** | | | | | **269.33** | **0.51** | **0.00** | **0.22** | **0.00** | **0.00** | **0.73** | **0.00** |
| **City of Sammamish Total** | | | | | **42.60** | **0.06** | **0.00** | **0.01** | **0.00** | **0.00** | **0.07** | **0.01** |
| **Ft. Lewis Loop (Pierce County)** | | | | | | | | | | | | |
| Wetland FL-10 [7] | 1337.98 | PFO | Isolated | III | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wetland FL-11 [7] | 1335.35 | PFO | Isolated | III | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **Ft. Lewis Loop (Fort Lewis Military Reservation)** | | | | | | | | | | | | |
| Wetland FL-12 (Muck Creek) | 1332.35 | R | Regulated | III | 19.28 | 0.03 | <0.01 | 0.01 | 0.00 | 0.00 | 0.04 | 0.00 |
| | | PEM | | | 22.69 | 0.05 | <0.01 | 0.01 | 0.00 | 0.00 | 0.06 | 0.00 |

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wetland FL-13 (South Creek) | 1332.11 | R<br>PEM<br>PFO | Regulated | II | 28.93<br>137.03<br>0.00 | 0.05<br>0.19<br><0.01 | <0.01<br>0.01<br><0.01 | 0.01<br>0.03<br>0.01 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.06<br>0.23<br>0.01 | 0.00<br>0.00<br>0.00 |
| **Ft. Lewis Loop (Pierce County)** | | | | | | | | | | | | |
| Wetland FL-14 | 1329.89 | PEM<br>PFO | Regulated | III | 95.53<br>0.00 | 0.16<br><0.01 | 0.00<br>0.00 | 0.00<br>0.02 | 0.00<br>0.00 | 0.00<br>0.00 | 0.16<br>0.02 | 0.00<br>0.00 |
| Wetland FL-15 [4] | 1329.50 | PEM | Regulated | III | 195.97 | 0.25 | 0.00 | 0.02 | 0.00 | 0.00 | 0.27 | 0.00 |
| Wetland FL-16 [4] | 1328.94 | PEM | Regulated | III | 1962.48 | 3.44 | 0.00 | 0.88 | 2.34 | 0.00 | 6.66 | 0.00 |
| Wetland FL-17 (Lacamas Creek) | 1328.71 | R<br>PEM | Regulated | III | 6.08<br>46.51 | 0.01<br>0.07 | 0.00<br>0.00 | <0.01<br>0.02 | 0.00<br>0.01 | 0.00<br>0.00 | 0.01<br>0.10 | 0.00<br>0.00 |
| Wetland FL-18 [4] | 1328.65 | PEM | Regulated | III | 250.70 | 0.45 | 0.00 | 0.10 | 0.30 | 0.00 | 0.85 | 0.00 |
| Wetland FL-19 [4] | 1328.30 | PEM | Regulated | III | 374.25 | 0.60 | 0.00 | 0.12 | 0.13 | 0.00 | 0.85 | 0.00 |
| Wetland FL-20 | 1328.24 | PSS<br>PEM | Regulated | IV | 0.00<br>0.00 | 0.01<br>0.02 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.01<br>0.02 | 0.00 |
| Wetland FL-21 | 1328.12 | PEM<br>PSS | Regulated | III | 107.75<br>0.00 | 0.13<br>0.00 | 0.00<br>0.00 | 0.02<br>0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.15<br>0.01 | 0.00<br>0.00 |
| Wetland FL-22 | 1328.00 | PFO<br>PEM | Regulated | III | 0.00<br>64.58 | 0.00<br>0.04 | 0.00<br>0.00 | 0.01<br>0.03 | 0.00<br>0.00 | 0.00<br>0.00 | 0.01<br>0.07 | 0.00<br>0.00 |
| Wetland FL-23 (Murray Creek) | 1327.92 | PFO<br>PEM<br>PSS<br>R | Regulated | II | 0.00<br>49.35<br>98.46<br>3.25 | 0.02<br>0.13<br>0.06<br>0.01 | 0.00<br>0.00<br>0.00<br>0.00 | 0.00<br><0.01<br>0.03<br><0.01 | 0.00<br>0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00<br>0.00 | 0.02<br>0.13<br>0.09<br>0.01 | 0.00<br>0.00<br>0.02<br>0.00 |
| Wetland FL-24 | 1327.75 | PEM<br>PFO<br>PSS | Regulated | III | 329.10<br>0.00<br>0.00 | 0.36<br>0.03<br>0.01 | 0.00<br>0.00<br>0.00 | 0.01<br>0.08<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.37<br>0.11<br>0.01 | 0.00<br>0.00<br>0.00 |
| Wetland FL-25 [4] | 1327.36 | PEM | Regulated | III | 0.00 | 0.01 | 0.00 | 0.02 | 0.00 | 0.00 | 0.03 | 0.00 |
| Wetland FL-26 | 1327.04 | PEM<br>PFO | Regulated | I-II | 1217.27<br>0.00 | 1.87<br>0.05 | 0.00<br>0.00 | 0.04<br>0.21 | 0.00<br>0.00 | 0.00<br>0.00 | 1.91<br>0.26 | 0.00<br>0.00 |
| Wetland FL-27 | 1326.81 | PEM<br>PFO | Regulated | III | 797.45<br>0.00 | 0.99<br>0.00 | 0.00<br>0.00 | 0.18<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 1.17<br>0.00 | 0.00<br>0.00 |
| Wetland FL-28 | 1326.50 | PFO<br>PEM | Regulated | II | 0.00<br>92.62 | <0.01<br>0.14 | 0.00<br>0.00 | 0.03<br><0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.03<br>0.14 | 0.00<br>0.00 |
| Wetland FL-29 | 1326.34 | PFO<br>PEM | Regulated | II | 0.00<br>831.79 | <0.01<br>1.35 | 0.00<br>0.00 | 0.08<br><0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.08<br>1.35 | 0.00<br>0.00 |
| Wetland FL-30[4] | 1326.00 | PEM<br>PFO | Regulated | II | 909.54<br>0.00 | 1.37<br><0.01 | 0.00<br>0.00 | 0.20<br><0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 1.57<br><0.01 | 0.00<br>0.00 |

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wetland FL-31A, B, C,D,E | 1325.87<br>1325.78<br>1325.71<br>1325.70<br>1325.65 | PEM | Regulated | III | 22.00 | 0.04 | 0.00 | <0.01 | 0.00 | 0.00 | 0.04 | 0.00 |
| Wetland FL-32 | 1325.48 | PEM | Regulated | III | 232.01 | 0.23 | 0.14 | 0.05 | 0.00 | 0.00 | 0.42 | 0.00 |
| Wetland FL-33 | 1325.34 | PFO<br>PSS<br>PEM<br>PAB | Regulated | II | 0.00<br>0.00<br>571.26<br>0.00 | 0.00<br>0.00<br>0.15<br>0.00 | 0.00<br>0.02<br>0.31<br><0.01 | 0.06<br>0.09<br>0.01<br>0.02 | 0.00<br>0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00<br>0.00 | 0.06<br>0.11<br>0.47<br>0.02 | 0.00<br>0.00<br>0.00<br>0.00 |
| Wetland FL-34 | 1324.33 | PSS<br>PFO | Regulated | II | 26.55<br>0.00 | 0.04<br>0.01 | 0.00<br><0.01 | 0.00<br>0.01 | 0.00<br>0.06 | 0.00<br>0.00 | 0.04<br>0.08 | 0.01<br>0.00 |
| Wetland FL-35A (Nisqually River) | 1324.28 | R | Regulated | N/A | 56.74 | 0.11 | 0.08 | 0.00 | 0.13 | 0.00 | 0.32 | 0.00 |
| **Ft. Lewis Loop (Thurston County)** | | | | | | | | | | | | |
| Wetland FL-35B (Nisqually River) | 1324.28 | R | Regulated | N/A | 93.67 | 0.15 | 0.13 | 0.00 | 0.22 | 0.00 | 0.50 | 0.00 |
| Wetland FL-36 | 1323.88 | PEM<br>PSS | Regulated | II | 68.91<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.02<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.12<br>0.00 | 0.00<br>0.00 |
| Wetland FL-38 [4] | 1322.20 | PEM<br>POW | Regulated | III | 275.87<br>0.00 | 0.38<br>0.00 | 0.00<br>0.00 | 0.05<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.43<br>0.00 | 0.00<br>0.00 |
| Wetland FL-39 | 1321.68 | PSS | Regulated | III | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| Wetland FL-40 | 1321.64 | PSS | Isolated | III | 0.00 | <0.01 | 0.00 | 0.05 | 0.00 | 0.00 | 0.05 | 0.00 |
| Wetland FL-41 | 1321.59 | PFO<br>PSS<br>POW | Regulated | II | 0.00<br>0.00<br>0.00 | 0.00<br><0.01<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br><0.01<br>0.00 | 0.00<br>0.00<br>0.00 |
| Wetland FL-42 | 1321.27 | PEM | Isolated | III | 109.17 | 0.10 | 0.00 | 0.05 | 0.00 | 0.00 | 0.15 | 0.00 |
| Wetland FL-42.1 | 1320.89 | PEM<br>PFO | Regulated | III | 252.55<br>0.00 | 0.37<br>0.00 | 0.00<br>0.00 | 0.04<br>0.04 | 0.00<br>0.00 | 0.00<br>0.00 | 0.41<br>0.04 | 0.00<br>0.00 |
| Wetland FL-43 (Trib. to Yelm Creek-Ditch) | 1320.72 | PEM<br>R | Regulated | III | 83.17<br>5.65 | 0.06<br>0.01 | 0.00<br>0.00 | 0.10<br>0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.16<br>0.02 | 0.00<br>0.00 |

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill[7]) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wetland FL-44 | 1320.63 | PEM<br>PFO | Isolated | III | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br><0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br><0.01 | 0.00<br>0.00 |
| Wetland FL-45 (Trib. to Yelm Creek) | 1320.40 | R | Regulated | N/A | 1.15 | <0.01 | 0.00 | <0.01 | 0.00 | 0.00 | <0.01 | 0.00 |
| Wetland FL-47 | 1318.93 | PFO | Regulated | III | 20.86 | 0.02 | 0.00 | 0.03 | 0.00 | 0.00 | 0.05 | 0.01 |
| Wetland FL-48[4] | 1318.62 | PEM | Regulated | III | 35.81 | 0.03 | 0.00 | 0.03 | 0.00 | 0.00 | 0.06 | 0.00 |
| Wetland FL-49 | 1318.55 | PFO<br>PEM | Regulated | III | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | <0.01<br>0.01 | 0.00<br>0.00 | 0.00<br>0.00 | <0.01<br>0.01 | 0.00<br>0.00 |
| Wetland FL-50 | 1318.51 | PEM<br>PFO | Regulated | III | 0.00<br>11.52 | 0.03<br>0.00 | 0.00<br>0.00 | <0.01<br>0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.03<br>0.01 | 0.00<br>0.01 |
| Wetland FL-51 | 1317.14 | POW<br>PSS | Regulated | III | 42.00<br>25.61 | 0.05<br>0.07 | 0.00<br>0.00 | <0.01<br>0.01 | 0.00<br>0.00 | 0.00<br>0.00 | 0.05<br>0.08 | 0.00<br>0.01 |
| Wetland FL-52 | 1316.73 | PEM<br>PSS | Regulated | III | 68.64<br>0.00 | 0.08<br>0.01 | 0.00<br>0.00 | 0.00<br>0.02 | 0.00<br><0.01 | 0.00<br>0.00 | 0.08<br>0.03 | 0.00<br>0.00 |
| Wetland FL-53 | 1316.50 | PSS<br>PFO | Regulated | II | 0.00<br>0.00 | <0.01<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | <0.01<br>0.00 | 0.00<br>0.00 |
| **FT. LEWIS LOOP TOTAL** | | | | | **9,643.75** | **13.96** | **0.69** | **2.87** | **3.19** | **0.00** | **20.71** | **0.06** |
| **Pierce County Total** | | | | | **8,341.24** | **12.16** | **0.55** | **2.33** | **2.97** | **0.00** | **18.01** | **0.03** |
| **Ft. Lewis Military Base Total** | | | | | **207.93** | **0.32** | **0.01** | **0.07** | **0.00** | **0.00** | **0.40** | **0.00** |
| **Thurston County Total** | | | | | **1,094.58** | **1.48** | **0.13** | **0.47** | **0.22** | **0.00** | **2.30** | **0.03** |
| **PIPELINE FACILITIES TOTAL** | | | | | **47,517.48** | **78.53** | **3.49** | **13.88** | **11.27** | **0.18** | **107.35** | **2.00** |
| **ABOVEGROUND FACILITIES** | | | | | | | | | | | | |
| Wetland CS-1A | 1289.35 | PEM | Regulated | III | 0.00 | 0.00 | 0.00 | 0.00 | 1.22 | 0.00 | 1.22 | 0.02 |
| Wetland CS-1B | 1289.35 | PEM | Regulated | III | 0.00 | 0.00 | 0.00 | 0.00 | 0.73 | 0.00 | 0.73 | 0.15 |
| Wetland CS-1C | 1289.35 | PEM | Regulated | III | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.23 | 0.23 |
| Wetland CS-1D | 1289.35 | PEM | Regulated | III | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 | 0.35 | 0.24 |
| Wetland CS-1E | 1289.35 | PEM | Regulated | III | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.04 | 0.00 |
| Wetland CS-1F | 1289.35 | PEM | Regulated | III | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.01 |
| **ABOVEGROUND FACILITIES TOTAL** | | | | | **0.00** | **0.00** | **0.00** | **0.00** | **2.58** | **0.00** | **2.58** | **0.65** |
| **RETIREMENT OF 26-INCH FACILITIES** | | | | | | | | | | | | |
| **Portland Lateral Take-Off (Clark County)** Wetland RF-1 | 1232.53 | R | Regulated | III | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.05 | 0.00 |

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | COE Regulated/Isolated [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Wetland Vegetation Type Conversion [5] (or fill) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Acme Meter Station (Whatcom County)** Wetland RF-2 | 1461.24 | PEM | Regulated | III | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.20 | 0.00 |
| **30-inch Valve (MP 1440.11) (Skagit County)** Wetland RF-3 | 1440.11 | PEM | Regulated | III | N/A | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.07 | 0.07 |
| **RETIREMENT OF 26-INCH FACILITIES TOTAL** | | | | | **0.00** | **0.00** | **0.00** | **0.00** | **0.32** | **0.00** | **0.32** | **0.07** |
| **PROJECT TOTAL** | | | | | **47,517.48** | **78.53** | **3.49** | **13.88** | **14.17** | **0.18** | **110.25** | **2.72** |

[1] Wetland numbers correspond to the wetland numbers shown on the Environmental Alignment Sheets.
[2] Approximate milepost is at the center of the wetland perpendicular to the pipeline.
[3] Wetland types according to Cowardin *et al.* (1979).
Palustrine Forested (PFO)
Palustrine Scrub-Shrub (PSS)
Palustrine Emergent (PEM)
Palustrine Open Water (POW)
Palustrine Aquatic Bed (PAB)
Riverine (R)
Lacustrine (L)
[4] Farmed Wetlands-COE Jurisdictional.
[5] Permanent wetland vegetation type conversion impacts are associated with scrub-shrub and forested wetlands. Operational requirements (corrosion/leak surveys) allow a 10-foot wide corridor centered on the pipeline to be maintained in a herbaceous state and allows trees within 15 feet of the pipeline that are greater than 15 feet in height to be selectively cut from the right-of-way. To determine permanent conversion impacts to scrub-shrub wetlands a 10-foot wide corridor center on the pipeline was assessed. A 30-foot wide corridor centered on the pipeline was assessed for forested wetlands.
[6] Isolated Wetlands-are Non-Jurisdictional to the COE but are regulated by WDOE.
[7] Impacts to these wetlands are avoided, but they have been included if they are within 100 feet of the project work area as required by county ordinances.
[8] Impacts to this wetland/stream are avoided by HDD.
[9] Wetland category types for each jurisdiction are provided in Appendix E of the Wetland Report.
[10] Northwest will not perform maintenance activities in the scrub-shrub portions of Wetlands MV-32A, B (Olson Lake) or SN-42 (Evans Creek) because of the saturated/flooded conditions.
[11] A shallow pond will be filled during construction converting this palustrine aquatic bed system to an emergent system. This system was noted with WDOE on 10/05/04.

## Waterbodies Which Will Be Crossed by the Capacity Replacement Project

| Waterbody Name and Identification Number\ | Approximate Milepost | Flow Type [1] | Crossing Width (feet) | FERC Stream Type | Proposed Crossing Technique | State Water Quality Classification [2] | Washington Department of Natural Resources Stream Type [3] | Listed Species' Critical Habitat Present and Status [4] | Listed Species Present (Documentation [5]) | Species with EFH Present [5] | Recommended Dates for In-Stream Construction [6] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sumas Loop - Whatcom County** | | | | | | | | | | | |
| Wetland Ditch S-1.1A | 1484.41 | I | 4 | MN | Open Cut | A | N/A/(1) | | | | July 1 to September 30 |
| Wetland Ditch S-1.1B | 1484.40 | I | 4 | MN | Open Cut | A | N/A/(1) | | | | |
| Wetland Ditch S-2 | 1483.96 | I | 7.5 | MN | Open Cut | A | N/A/(1) | | | | |
| Wetland Ditch S-2 | 1483.95 | I | 6.5 | MN | Open Cut | A | N/A/(1) | | | | |
| Wetland Ditch S-2 | 1483.87 | I | 6 | MN | Open Cut | A | N/A | | | | |
| Wetland Ditch S-2 | 1483.86 | I | 6 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch S-3A | 1483.57 | I | <10 (10) | MN | Open Cut | A | N/A | | | | |
| Upland Ditch S-3B | 1483.43 | I | 8.5 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch S-3C | 1483.29 | I | 6.5 | MN | Open Cut | A | N/A | | | | |
| Saar Creek S-4A | 1483.10 | P | 20 | Inter | Dam&Pump | A | 1 | | | coho-R | |
| Upland Ditch S-5A | 1483.01 | I | 5 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch S-5B | 1483.00 | I | 4 | MN | Open Cut | A | N/A | | | | |
| Saar Creek S-4B | 1482.81 | P | 20 | Inter | Dam&Pump | A | 1 | | | coho-S | |
| Tributary to Lake S-7 | 1481.39 | P | 4 | MN | Flume | AA | 3 | | | | |
| Tributary to Lake S-9 | 1481.02 | P | <10 | MN | Flume | AA | 4 | | | | |
| Wetland Ditch S-10 | 1480.93 | I | 1 | MN | Open Cut | A | N/A | | | | |

| Waterbody Name and Identification Number\ | Approximate Milepost | Flow Type [1] | Crossing Width (feet) | FERC Stream Type | Proposed Crossing Technique | State Water Quality Classification [2] | Washington Department of Natural Resources Stream Type [3] | Listed Species' Critical Habitat Present and Status [4] | Listed Species Present (Documentation [5]) | Species with EFH Present [5] | Recommended Dates for In-Stream Construction [6] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Tributary to Kinney Creek S-14 | 1480.03 | I | 1 | MN | Open Cut | A | 5 | | | | July 1 to September 30 |
| Tributary to Kinney Creek S-16 | 1480.01 | I | 2 | MN | Open Cut | A | 5 | | | | |
| Kinney Creek S-21 | 1479.06 | P | <10 | MN | Flume | A | 3 | | | coho-Pr | |
| Breckenridge Creek S-22 | 1478.87 | P | >10(30) | Inter | Flume | A | 3 | | | coho-S | |
| Upland Ditch S-22.1A | 1478.16 | I | 3 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch S-22.1B | 1478.15 | I | 2 | MN | Open Cut | A | N/A | | | | |
| Swift Creek S-23 | 1477.60 | I | >10(15) | Inter | Flume | A | 3 | | | | |
| Wetland Ditch S-25 | 1477.10 | I | 6 | MN | Open Cut | A | N/A | | | | |
| Wetland Ditch S-26.1A | 1476.97 | I | 3 | MN | Open Cut | A | N/A | | | | |
| Wetland Ditch S-26.1B | 1476.90 | I | 4 | MN | Open Cut | A | N/A | | | | |
| Tributary to Sumas River S-27 | 1476.80 | P | 4 | MN | Flume | A | 3 | | | coho-D | |
| Pond Outlet S-27 | 1476.80 | I | 3 | MN | Flume | A | 3 | | | | |
| Tributary to Sumas River S-29 | 1476.43 | I | <10 | MN | Open Cut | A | 5 | | | | |
| Upland Ditch S-29.1 | 1476.29 | I | 3 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch S-29.2 | 1476.26 | I | 2 | MN | Open Cut | A | N/A | | | | |
| Tributary to Sumas River S-30 | 1476.16 | P | 7 | MN | Flume | A | 3 | | | | |
| Tributary to Sumas River S-31A,B | 1476.10 | I | 5 | MN | Flume | A | 3 | | | | |
| Dale Creek S-32 | 1475.86 | P | <10 | MN | Flume | A | 2 | | | coho-D | |

| Waterbody Name and Identification Number\ | Approximate Milepost | Flow Type [1] | Crossing Width (feet) | FERC Stream Type | Proposed Crossing Technique | State Water Quality Classification [2] | Washington Department of Natural Resources Stream Type [3] | Listed Species' Critical Habitat Present and Status [4] | Listed Species Present (Documentation [5]) | Species with EFH Present [5] | Recommended Dates for In-Stream Construction [6] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Tributary to Sumas River S-35 | 1475.71 | P | 5 | MN | Flume | A | 4 | | | | July 1 to September 30 |
| Tributary to Sumas River S-38 | 1475.38 | I | 2 | MN | Open Cut | A | 5 | | | | |
| Unnamed Tributary S-39 | 1475.19 | I | 2 | MN | Open Cut | A | 5 | | | | |
| Tributary to Sumas River S-47 | 1473.70 | P | >10 | Inter | Flume | A | 3 | | | coho-Pr | |
| Upland Ditch S-49.1 | 1473.12 | I | <10 | MN | Open Cut | A | N/A | | | | June 15 to August 31 (odd years only)<br><br>June 15 to September 30 (even years only) |
| Upland Ditch S-51 | 1472.68 | I | 3 | MN | Open Cut | A | N/A | | | | |
| Unnamed Tributary S-52 | 1472.63 | I | 2 | MN | Open Cut | A | 5 | | | | |
| Wetland Ditch S-53 | 1472.56 | I | 3 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch S-53.1 | 1472.46 | I | 5 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch S-53.2 | 1472.36 | I | 2 | MN | Not Crossed | A | 5 | | | | |
| Smith Creek S-54 | 1472.23 | P | 28 | Inter | Flume | A | 3 | bull trout P-CH chinook F-CH | chinook-Pr | chinook-Pr coho-D | |
| Tributary to Macaulay Creek S-55 | 1471.95 | P | 4 | MN | Flume | A | 3 | chinook F-CH | | | |
| Tributary to Macaulay Creek S-56 | 1471.55 | I | 2 | MN | Open Cut | A | 5 | | | | |
| Upland Ditch S-56.1 | 1471.49 | I | 2 | MN | Open Cut | A | N/A | | | | |
| Macaulay Creek S-57 | 1471.04 | P | >10 | Inter | Flume | A | 3 | chinook F-CH | chinook-D | chinook-D coho-R | |
| Tributary to Mitchell Creek S-57. | 1470.85 | P | 5 | MN | Flume | A | 3 | chinook F-CH | chinook-D | chinook-D coho-S | |
| Mitchell Creek Ditch S-59 | 1470.76 | P | 5 | MN | Flume | A | 3 | chinook F-CH | chinook-D | chinook-D coho-S | |

| Waterbody Name and Identification Number\ | Approximate Milepost | Flow Type [1] | Crossing Width (feet) | FERC Stream Type | Proposed Crossing Technique | State Water Quality Classification [2] | Washington Department of Natural Resources Stream Type [3] | Listed Species' Critical Habitat Present and Status [4] | Listed Species Present (Documentation [5]) | Species with EFH Present [5] | Recommended Dates for In-Stream Construction [6] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Tributary to Mitchell Creek S-60 | 1470.14 | P | 4 | MN | Flume | A | 3 | chinook F-CH | | coho-S | June 15 to August 31 (odd years only)<br>June 15 to September 30 (even years only) |
| Tributary to Mitchell Creek S-62 | 1469.79 | P | 4 | MN | Flume | A | 3 | chinook F-CH | | | |
| Ditch and Unnamed Tributary S-64 | 1469.16<br>1469.14 | I | 2 | MN | Open Cut | A | 5 | | | | |
| Tributary to Jim Creek S-66 | 1468.84 | I | 2 | MN | Open Cut | A | 5 (1) | | | | |
| Tributary to Jim Creek S-67A | 1468.81 | I | 2 | MN | Open Cut | A | 5 (1) | | | | |
| Tributary to Jim Creek S-67B | 1468.77 | I | 2 | MN | Open Cut | A | 5 (1) | | | | |
| Jim Creek S-68 | 1468.68 | P | 10 | Inter | HDD | A | 3 (1) | chinook F-CH | | coho-D | |
| Tributary to Nooksack River S-69 | 1468.44 | I | 20 | Inter | HDD | A | 3 (1) | chinook F-CH | | | |
| North Fork Nooksack River S-70 | 1468.20 | P | 580 | MJ | HDD | A | 1 | bull trout P-CH<br>chinook F-CH | bull trout-R<br>chinook-S | chinook-S<br>coho-R<br>pink-S | |
| Tributary to South Fork Nooksack River S-73 | 1467.41 | P | 5 | MN | Flume | A | 3 | chinook F-CH | | chum-D<br>coho-S<br>sockeye-D<br>steelhead-D<br>cutthroat-S | July 15 to August 15 |
| Tributary to South Fork Nooksack River S-74 | 1467.27 | I | 1 | MN | Open Cut | A | 5 | | | | |
| Tributary to South Fork Nooksack River S-74 | 1467.20 | I | 1 | MN | Open Cut | A | 5 | | | | |
| Tributary to South Fork Nooksack River S-76 | 1466.81 | I | 2 | MN | Flume | A | 3 | chinook F-CH | chum-D<br>coho-Pr | chum-D<br>coho-Pr | |
| Wetland Ditch S-80A | 1465.45 | I | 3 | MN | Open Cut | A | N/A (1) | | | | |
| Wetland Ditch S-80B | 1465.45 | I | 3 | MN | Open Cut | A | N/A (1) | | | | |

| Waterbody Name and Identification Number\ | Approximate Milepost | Flow Type [1] | Crossing Width (feet) | FERC Stream Type | Proposed Crossing Technique | State Water Quality Classification [2] | Washington Department of Natural Resources Stream Type [3] | Listed Species' Critical Habitat Present and Status [4] | Listed Species Present (Documentation [5]) | Species with EFH Present [5] | Recommended Dates for In-Stream Construction [6] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Tributary to Black Slough S-82 | 1465.01 | P | 2 | MN | Flume | A | 3 | chinook F-CH | coho-D | coho-D | July 15 to August 15 |
| Wetland Ditch S-82 | 1464.73 | I | 2 | MN | Flume | A | 3 (1) | chinook F-CH | Unknown | Unknown | |
| Wetland Ditch S-83 | 1464.72 | I | 7 | MN | Open Cut | A | N/A (1) | | | | |
| Tinling Creek S-84 | 1464.59 | P | 25 | Inter | Flume | A | 3 (1) | chinook F-CH | chum-S coho-S | chum-S coho-S | |
| Wetland Ditch S-85 | 1464.50 | I | 5 | MN | Open Cut | A | N/A (1) | | | | |
| Wetland Ditch S-85 | 1464.24 | I | 6 | MN | Open Cut | A | N/A (1) | | | | |
| Wetland Ditch S-86A | 1463.75 | I | 6 | MN | Open Cut | A | N/A (1) | | | | |
| Wetland Ditch S-86B | 1463.74 | I | 6 | MN | Open Cut | A | N/A (1) | | | | |
| Wetland Ditch S-87 | 1463.50 | I | 3 | MN | Open Cut | A | N/A (1) | | | | |
| Tributary to Black Slough S-88 | 1463.26 | I | 2 | MN | Open Cut | A | 5 (1) | | | | |
| Wetland Ditch S-89A | 1463.01 | I | <10 | MN | Flume | A | 3 (1) | chinook F-CH | coho-D | coho-D | |
| Wetland Ditch S-89B | 1463.00 | I | <10 | MN | Open Cut | A | N/A (1) | | | | |
| Tributary to South Fork Nooksack River S-91 | 1461.90 | P | <10 | MN | Flume | A | 3 | chinook F-CH | chinook-Pr coho-Pr | chinook-Pr coho-Pr | |
| **Mt. Vernon Loop – Skagit County (No waterbodies crossed in Skagit County)** | | | | | | | | | | | |
| **Mt. Vernon Loop - Snohomish County** | | | | | | | | | | | |
| Pilchuck Creek MV-7 | 1428.62 | P | 75 | Inter | Open Cut | A | 1 | chinook F-CH | bull trout-Pr chinook-S | chinook-S coho-R pink-S | July 1 to August 31 |
| Tributary to Pilchuck Creek (Ditch) MV-8 | 1428.60 | I | 4 | MN | Open Cut | A | 5 | | | | |
| Tributary to Pilchuck Creek MV-8.1 | 1428.49 | I | 1 | MN | Open Cut | A | 5 | | | | |
| Armstrong Creek MV-11 | 1425.62 | P | 4 | MN | Flume | A | 2 | chinook F-CH | bull trout-Pr chinook-Po | chinook-Po coho-S pink-S | |

| Waterbody Name and Identification Number\ | Approximate Milepost | Flow Type [1] | Crossing Width (feet) | FERC Stream Type | Proposed Crossing Technique | State Water Quality Classification [2] | Washington Department of Natural Resources Stream Type [3] | Listed Species' Critical Habitat Present and Status [4] | Listed Species Present (Documentation [5]) | Species with EFH Present [5] | Recommended Dates for In-Stream Construction [6] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| North Fork Stillaguamish River MV-14 | 1424.26 | P | 275 | MJ | HDD | A | 1 | bull trout P-CH chinook F-CH | bull trout-R chinook-S | chinook-S coho-R pink-S | July 1 to August 15 |
| South Fork Stillaguamish River MV-15 | 1423.84 | P | 200 | MJ | HDD | A | 1 | bull trout P-CH chinook F-CH | bull trout-R chinook-S | chinook-S coho-R pink-S | |
| Eagle Creek MV-16 | 1423.46 | P | <10 | MN | HDD | A | 3 (1) | chinook F-CH | | coho-D | |
| Wetland Ditch MV-17 | 1422.96 | I | 3 | MN | Open Cut | A | N/A (1) | | | | |
| Wetland Ditch MV-18 | 1422.79 | I | <10 | MN | Open Cut | A | N/A (1) | | | | |
| Tributary to South Fork Stillaguamish River MV-20 | 1422.24 | I | 2 | MN | Open Cut | A | 5 | | | | |
| Tributary to South Fork Stillaguamish River MV-23 | 1421.94 | I | 1 | MN | Open Cut | A | 5 | | | | |
| Wetland Ditch MV-24 | 1421.85 | I | 2 | MN | Open Cut | A | N/A | | | | |
| Tributary to South Fork Stillaguamish River MV-27 | 1421.33 | P | 4 | MN | Flume | A | 3 | chinook F-CH | | coho-S | |
| Olson Lake MV-32A&B | 1419.33 | P | 1,500 | MJ | Push/Pull | AA | 2 | chinook F-CH | | coho-Pr | |
| Tributary to Star Creek (Ditch) MV-44 | 1415.98 | I | 1 | MN | Open Cut | A | 5 | | | | |
| Upland Ditch MV-45 | 1415.88 | I | 3 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch MV-47A | 1415.53 | I | 1.5 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch MV-47B | 1415.52 | I | 1 | MN | Open Cut | A | N/A | | | | |
| Star Creek MV-49.1 | 1415.31 | P | 4 | MN | Flume | A | 3 | chinook F-CH | | coho-S | |
| Tributary to Little Pilchuck Creek MV-50 | 1414.45 | I | 1 | MN | Open Cut | A | 5 | | | | July 1 to August 31 |

| Waterbody Name and Identification Number\ | Approximate Milepost | Flow Type [1] | Crossing Width (feet) | FERC Stream Type | Proposed Crossing Technique | State Water Quality Classification [2] | Washington Department of Natural Resources Stream Type [3] | Listed Species' Critical Habitat Present and Status [4] | Listed Species Present (Documentation [5]) | Species with EFH Present [5] | Recommended Dates for In-Stream Construction [6] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Upland Ditch MV-50.1 | 1414.10 | I | 4 | MN | Open Cut | A | N/A | | | | July 1 to August 31 |
| Upland Ditch MV-51 | 1414.00 | I | 1 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch MV-53A | 1413.67 | I | 3 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch MV-53B | 1413.66 | I | 3 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch MV-54 | 1413.10 | I | 4 | MN | Open Cut | A | N/A | | | | |
| Tributary to Little Pilchuck Creek MV-55 | 1412.12 | P | 4 | MN | Flume | A | 3 | chinook F-CH | | coho-S | |
| Tributary to Little Pilchuck Creek MV-57 | 1411.94 | I | 1 | MN | Open Cut | A | 5 | | | | |
| Upland Ditch MV-59 | 1411.77 | I | 1 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch MV-59.1 | 1411.58 | I | 3 | MN | Open Cut | A | N/A | | | | |
| Little Pilchuck Creek MV-62 | 1411.06 | P | 20 | Inter | Flume | A | 1 | chinook F-CH | | coho-S | |
| Little Pilchuck Creek MV-63 | 1410.52 | P | 20 | Inter | Flume | A | 1 | chinook F-CH | bull trout-R | coho-S | |
| Upland Ditch MV-64 | 1410.33 | I | 2 | MN | Open Cut | A | N/A | | | | |
| Catharine Creek MV-66 | 1409.59 | P | <10 | MN | Flume | A | 1 | chinook F-CH | bull trout-R | coho-S | |
| **Snohomish Loop - Snohomish County** | | | | | | | | | | | |
| Tributary to Paradise Lake/ Bear Creek SN-2 | 1393.77 | P | 8 | MN | Flume | A | 3 | chinook F-CH | | | July 1 to August 15 |
| Upland Ditch SN-2.1 | 1393.76 | I | 3 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch SN-3.2A | 1393.47 | I | 3 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch SN-3.2B | 1393.47 | I | 3 | MN | Open Cut | A | N/A | | | | |
| Tributary to Paradise Lake/Bear Creek SN-4 | 1393.32 | P | <10 | MN | Flume | AA | 3 | chinook F-CH | | | |

| Waterbody Name and Identification Number\ | Approximate Milepost | Flow Type [1] | Crossing Width (feet) | FERC Stream Type | Proposed Crossing Technique | State Water Quality Classification [2] | Washington Department of Natural Resources Stream Type [3] | Listed Species' Critical Habitat Present and Status [4] | Listed Species Present (Documentation [5]) | Species with EFH Present [5] | Recommended Dates for In-Stream Construction [6] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Tributary to Paradise Lake/Bear Creek SN-6 | 1393.11 | P | 6 | MN | Flume | AA | 3 | chinook F-CH | | | July 1 to August 15 |
| **Snohomish Loop - King County** | | | | | | | | | | | |
| Tributary to Paradise Lake/Bear Creek SN-6 | 1393.07 | I | 2 | MN | Flume | AA | 3 | chinook F-CH | | Unknown | July 1 to August 15 |
| Tributary to Paradise Lake/Bear Creek SN-7 | 1392.95 | P | 3 | MN | Flume | AA | 3 | chinook F-CH | | coho-S | |
| Tributary to Paradise Lake/Bear Creek SN-21 | 1391.24 | P | <10 | MN | Flume | AA | 3 | chinook F-CH | | coho-S | |
| Struve Creek SN-22 | 1390.15 | P | 14 | Inter | Flume | A | 3 | chinook F-CH | | coho-R | July 1 to August 15 |
| Colin Creek SN-24 | 1389.40 | P | 14 | Inter | Span | A | 3 | chinook F-CH | | coho-S | |
| **Snohomish Loop - City of Redmond** | | | | | | | | | | | |
| Tributary to Seidel Creek SN-28A,B | 1388.64 | P | <10 | MN | Flume | A | 3 | | | | July 1 to August 15 |
| Tributary to Seidel Creek SN-29 | 1388.51 | P | <10 | MN | Flume | A | 3 | | | | |
| Tributary to Bear Creek SN-32 | 1387.73 | I | 2 | MN | Open Cut | A | 5 | | | | |
| **Snohomish Loop - King County** | | | | | | | | | | | |
| Tributary to Evans Creek SN-37 | 1385.80 | P | >10 | Inter | Flume | A | 4 | | | | July 1 to August 15 |
| Tributary to Evans Creek SN-38 | 1385.79 | P | <10 Existing 26" Culvert | MN | Flume | A | 4 | | | | |
| Tributary to Evans Creek Wetland SN-39.2 | 1385.58 | I | <10 | MN | Not Crossed | A | 5 | | | | |
| Tributary to Evans Creek SN-39.3 | 1385.51 | I | <1 Culverted | MN | Open Cut | A | 5 | | | | |
| Upland Ditch SN-40.2 | 1384.95 | I | 3 | MN | Open Cut | A | N/A | | | | |
| Evans Creek SN-42 | 1383.66 | P | 950 | MJ | Push/Pull | A | 3 | chinook F-CH | | coho-S | |
| Tributary to Evans Creek SN-43 | 1383.41 | P | >10 | Inter | Flume | A | 3 | chinook F-CH | | | |

| Waterbody Name and Identification Number\ | Approximate Milepost | Flow Type [1] | Crossing Width (feet) | FERC Stream Type | Proposed Crossing Technique | State Water Quality Classification [2] | Washington Department of Natural Resources Stream Type [3] | Listed Species' Critical Habitat Present and Status [4] | Listed Species Present (Documentation [5]) | Species with EFH Present [5] | Recommended Dates for In-Stream Construction [6] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ft. Lewis Loop - Pierce County** | | | | | | | | | | | |
| Muck Creek FL-12 | 1332.35 | P | 20 | Inter | Flume | A | 2 | chinook F-CH | | coho-S | July 1 to September 15 |
| South Creek FL-13 | 1332.11 | I | 25 | Inter | Flume | A | 2 | chinook F-CH | | coho-S | |
| Lacamas Creek FL-17 | 1328.71 | P | 15 | Inter | Flume | A | 3 | chinook F-CH | | coho-S | |
| Murray Creek FL-23 | 1327.92 | P | 3 | MN | Flume | A | 3 | chinook F-CH | | coho-Po | |
| Nisqually River FL-35A,B | 1324.28 | P | 160 | MJ | Open Cut | A | 1 | bull trout P-CH chinook F-CH | chinook-S | chinook-S coho-S pink-S | July 1 to August 31 |
| **Ft. Lewis Loop - Thurston County** | | | | | | | | | | | |
| Centralia Canal FL-37 | 1323.85 | P | 40 | Inter | Span | A | 3 | chinook F-CH | | | July 1 to September 15 |
| Tributary to Yelm Creek (ditch) FL-43 | 1320.72 | I | 2 | MN | Open Cut | A | 5 | | | | |
| Upland Ditch FL-44.1A | 1320.52 | I | 1 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch FL-44.1B | 1320.52 | I | 1 | MN | Open Cut | A | N/A | | | | |
| Tributary to Yelm Creek FL-45 | 1320.40 | I | <10 | MN | Open Cut | A | 5 | | | | |
| Upland Ditch FL-45.1 | 1319.76 | I | 1 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch FL-46 | 1319.58 | I | 3 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch FL-46.1 | 1319.10 | I | 3 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch FL-47.1A | 1318.78 | I | 1 | MN | Open Cut | A | N/A | | | | |
| Upland Ditch FL-47.1B | 1318.78 | I | 1 | MN | Open Cut | A | N/A | | | | |

| Waterbody Name and Identification Number\ | Approximate Milepost | Flow Type [1] | Crossing Width (feet) | FERC Stream Type | Proposed Crossing Technique | State Water Quality Classification [2] | Washington Department of Natural Resources Stream Type [3] | Listed Species' Critical Habitat Present and Status [4] | Listed Species Present (Documentation [5]) | Species with EFH Present [5] | Recommended Dates for In-Stream Construction [6] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Retirement of 26-Inch Facilities** | | | | | | | | | | | |
| **Portland Lateral Take–Off** | | | | | | | | | | | |
| Tributary to East Fork Lewis River (Ditch) RF-1 | 1232.52 | I | 4 | MN | Flume | A | 3 | chinook F-CH | | | July 1 to August 31 |

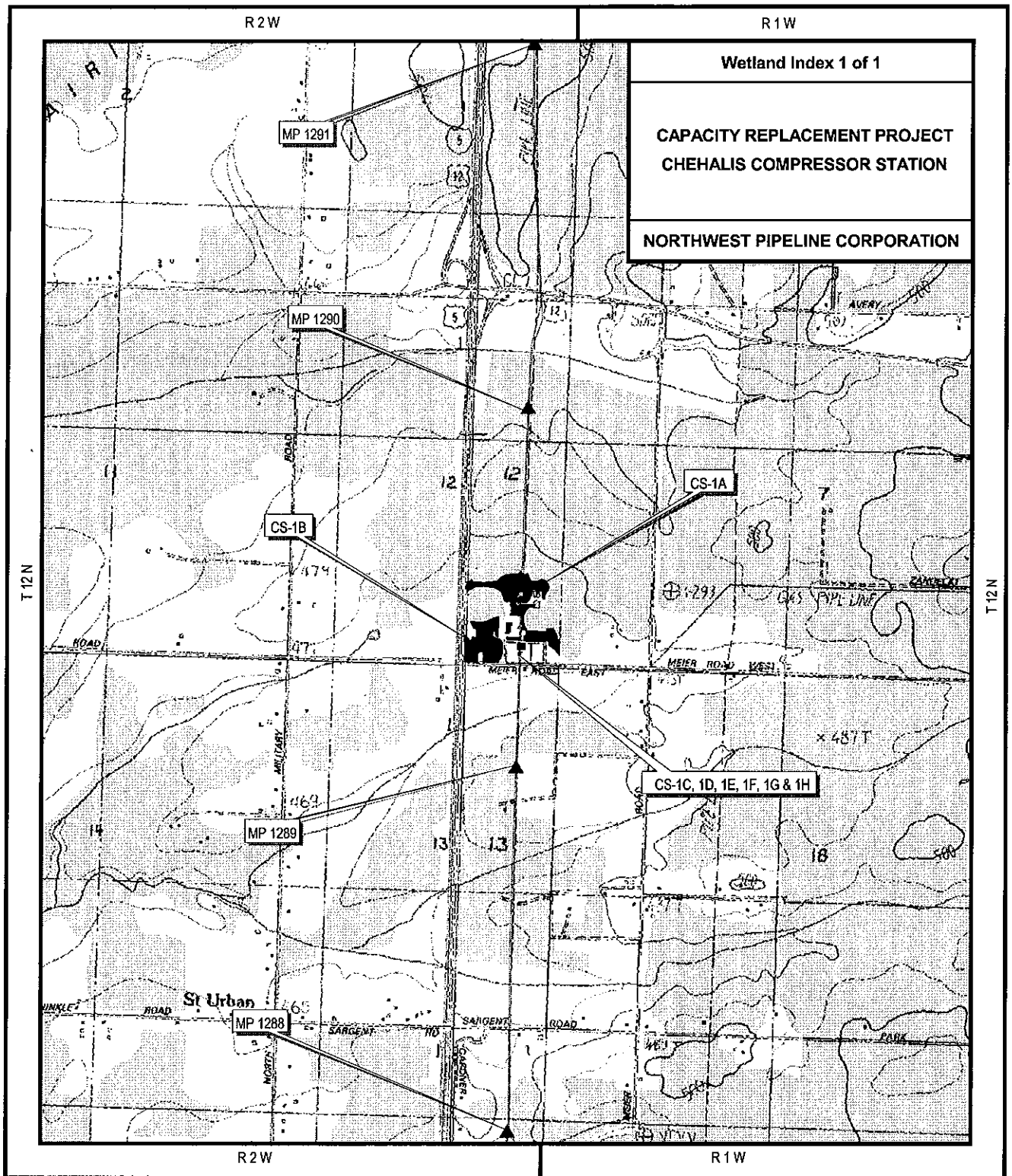
[1] Based on WDNR Type (Types 1 through 4 are perennial, Type 5 is intermittent).
[2] WAC Chapter 173-201A.
[3] Washington Department of Natural Resources. 2001. GIS Database Hydrolayer-Streamtype.
[4] P-CH is Proposed Critical Habitat for bull trout; F-CH is Former Critical Habitat for chinook salmon.
[5] ESA listed species and EFH species presence were identified from the SalmonScape component of the Salmon and Steelhead Habitat Inventory and Assessment Program (WDFW and NWIFC, 2004).
[6] Construction windows are based on the draft WDFW table: Allowable In-Water Work Windows.

## HDD Alternative Crossing Method Wetland Impacts

| Wetland [1] | Milepost [2] | Cowardin Classification [3] | Wetland Category (County/City) [6] | Wetland Category (WDOE) | Length of Ditch Excavated in Wetland (feet) | Acres of Existing Permanent Easement in Wetland | Acres of New Permanent Easement in Wetland | Acres of Temporary Construction Right-of-Way in Wetland | Acres of Temporary Extra Workspace in Wetland | Acres of Temporary Access Road in Wetland | Total Construction Disturbance in Wetland (acres) | Total Permanent Disturbance in Wetland Vegetation Type Conversion [5] (or fill) (acres) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sumas Loop (Whatcom County) – North Fork Nooksack Open Cut** | | | | | | | | | | | | |
| Wetland S-68 (Jim Creek) | 1468.68 | R | N/A | N/A | 23.99 | 0.04 | 0.00 | 0.01 | 0.01 | 0.00 | 0.06 | 0.00 |
| Wetland S-69 (Trib. to Nooksack) | 1468.44 | R | N/A | N/A | 50.77 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 |
| Wetland S-70 (N. Fork Nooksack River) | 1468.20 | R | N/A | N/A | 560.07 | 3.06 | 0.10 | 0.00 | 2.61 | 0.00 | 5.77 | 0.00 |
| **Mt. Vernon Loop (Snohomish County) – North Fork Stillaguamish Open Cut** | | | | | | | | | | | | |
| Wetland MV-13A, B, C | 1424.37<br>1424.32 | PSS<br>PEM<br>POW | 3 | II | 168.61<br>440.18<br>7.53 | 0.44<br>1.03<br><0.01 | 0.01<br>0.01<br>0.00 | 0.00<br>0.00<br>0.00 | 2.42<br>0.17<br>0.00 | 0.00<br>0.00<br>0.00 | 2.87<br>1.21<br><0.01 | 0.04<br>0.00<br>0.00 |
| Wetland MV-14[4] (N. Fork Stillaguamish River) | 1424.23 | R | N/A | N/A | 228.17 | 0.53 | 0.00 | 0.00 | 0.70 | 0.00 | 1.23 | 0.00 |
| **Mt. Vernon Loop (Snohomish County) – South Fork Stillaguamish Open Cut** | | | | | | | | | | | | |
| Wetland MV-15[4] (S. Fork Stillaguamish River) | 1423.84 | R | N/A | N/A | 361.81 | 0.59 | 0.00 | 0.00 | 1.22 | 0.00 | 1.81 | 0.00 |
| MV-16 (Eagle Creek) | 1423.46 | PEM<br>POW<br>R | 3 | III | 132.68<br>22.87<br>4.36 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.00<br>0.00<br>0.00 | 0.07<br>0.02<br>0.01 | 0.00<br>0.00<br>0.00 | 0.10 | 0.00<br>0.00<br>0.00 |

[1] Wetland numbers correspond to the wetland numbers shown on the Environmental Alignment Sheets.
[2] Approximate milepost is at the center of the wetland perpendicular to the pipeline.
[3] Wetland types according to Cowardin *et al.* (1979).
- Palustrine Forested (PFO)
- Palustrine Scrub-Shrub (PSS)
- Palustrine Emergent (PEM)
- Palustrine Open Water (POW)
- Palustrine Aquatic Bed (PAB)
- Riverine (R)
- Lacustrine (L)

[4] Farmed Wetlands-COE Jurisdictional.
[5] Permanent wetland vegetation type conversion impacts are associated with scrub-shrub and forested wetlands. Operational requirements (corrosion/leak surveys) allow a 10-foot wide corridor centered on the pipeline to be maintained in a herbaceous state and allows trees within 15 feet of the pipeline that are greater than 15 feet in height to be selectively cut from the right-of-way. To determine permanent conversion impacts to scrub-shrub wetlands a 10-foot wide corridor center on the pipeline was assessed. A 30-foot wide corridor centered on the pipeline was assessed for forested wetlands.
[6] Wetland category types for each jurisdiction are provided in Appendix E of the Wetland Report.




CHEHALIS COMPRESSOR STATION (Page 1 of 1)

Existing Northwest Pipeline System
Wetlands

N W E S

2000 0 2000 Feet

0.5 0 0.5 Miles

Napavine, WA 7.5 Minute USGS Quadrangles - Lewis County, Washington

Proposed: Natural Gas Pipeline Replacement

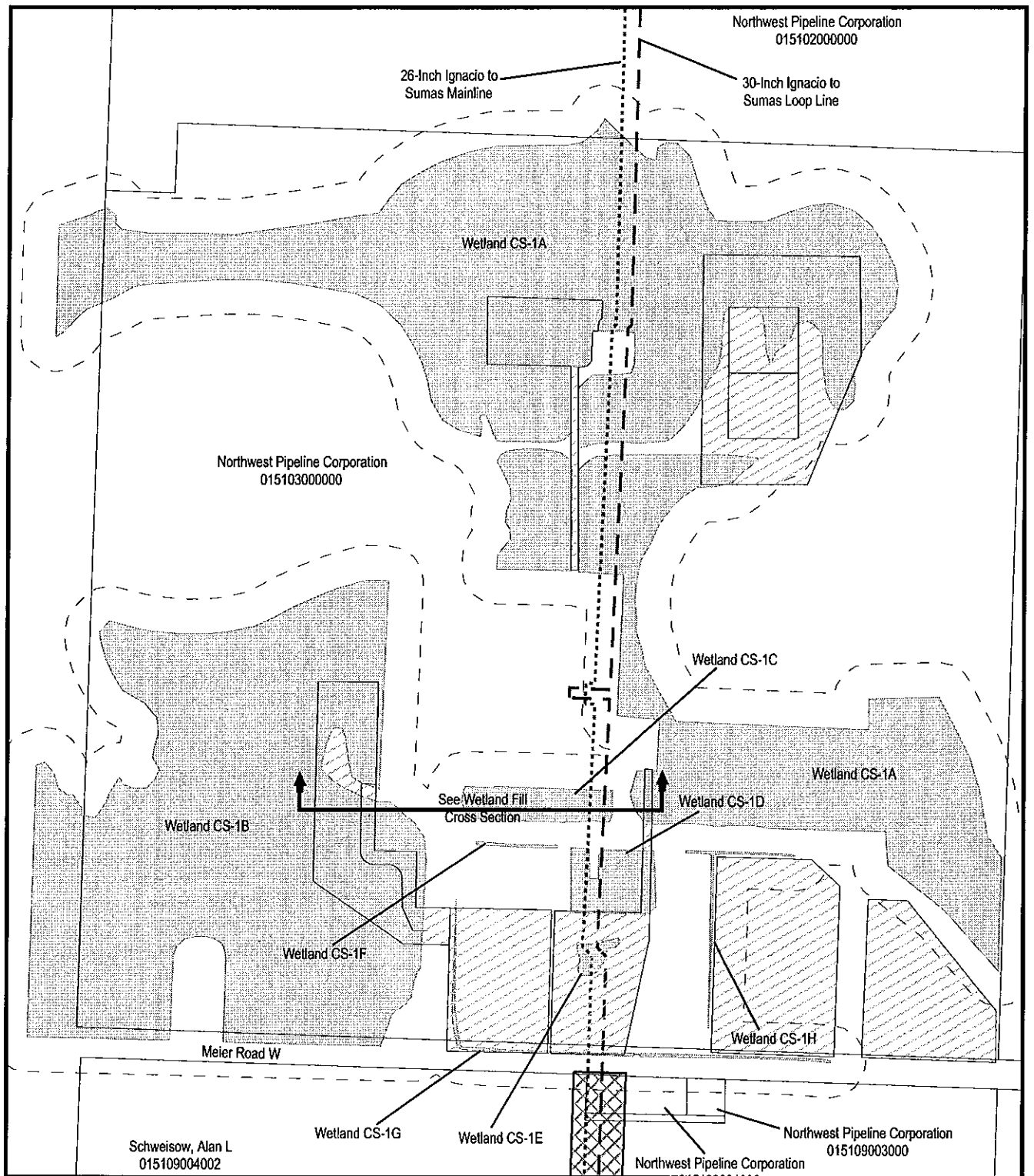
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 188 of 197

Date: March 2005




Lewis County
T12N, R2W, Section 12

WETLAND CS-1A thru 1H

Temporary Construction Workspace & Chehalis Compressor Station Expansion Area

Parcel Boundaries

N W E S

200 0 200 Feet

Proposed: Natural Gas Pipeline Replacement

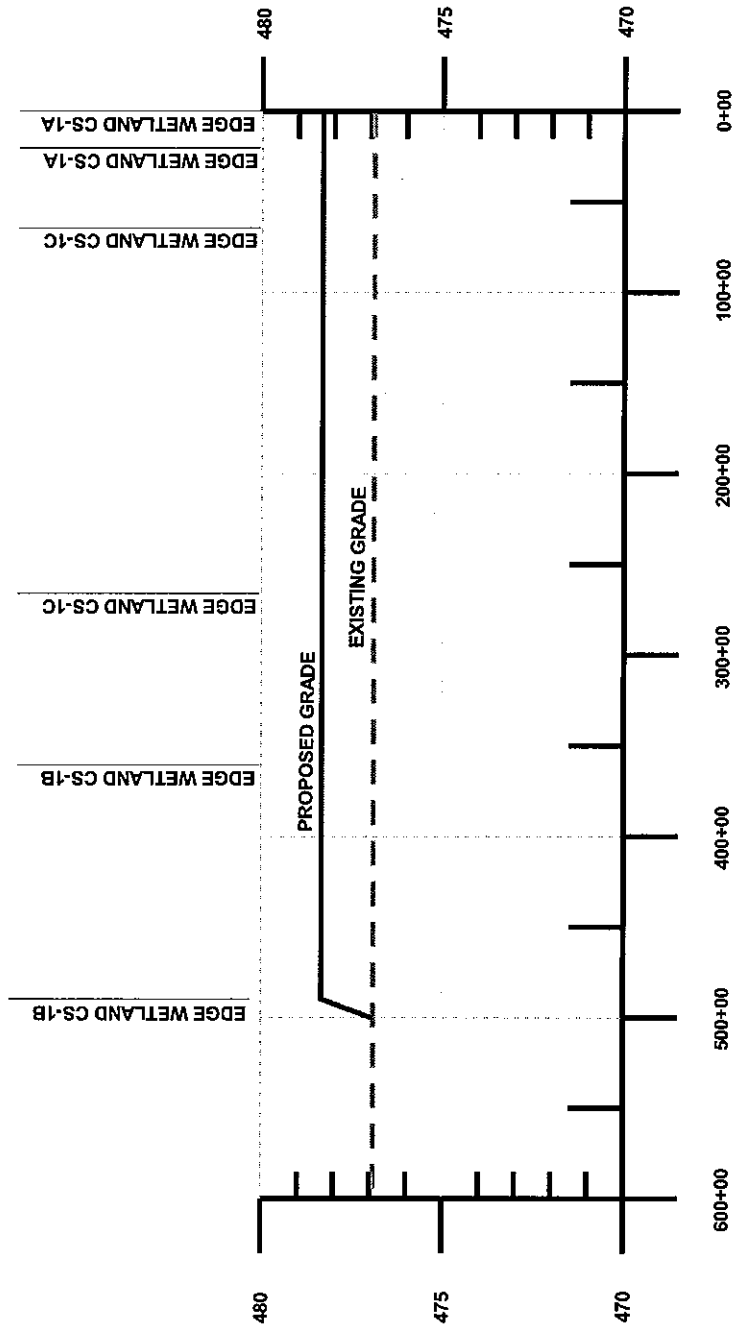
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 189 of 197

Date: March 2005




CHEHALIS COMPRESSOR STATION
WETLAND FILL CROSS SECTION

Proposed: Natural Gas Pipeline Replacement

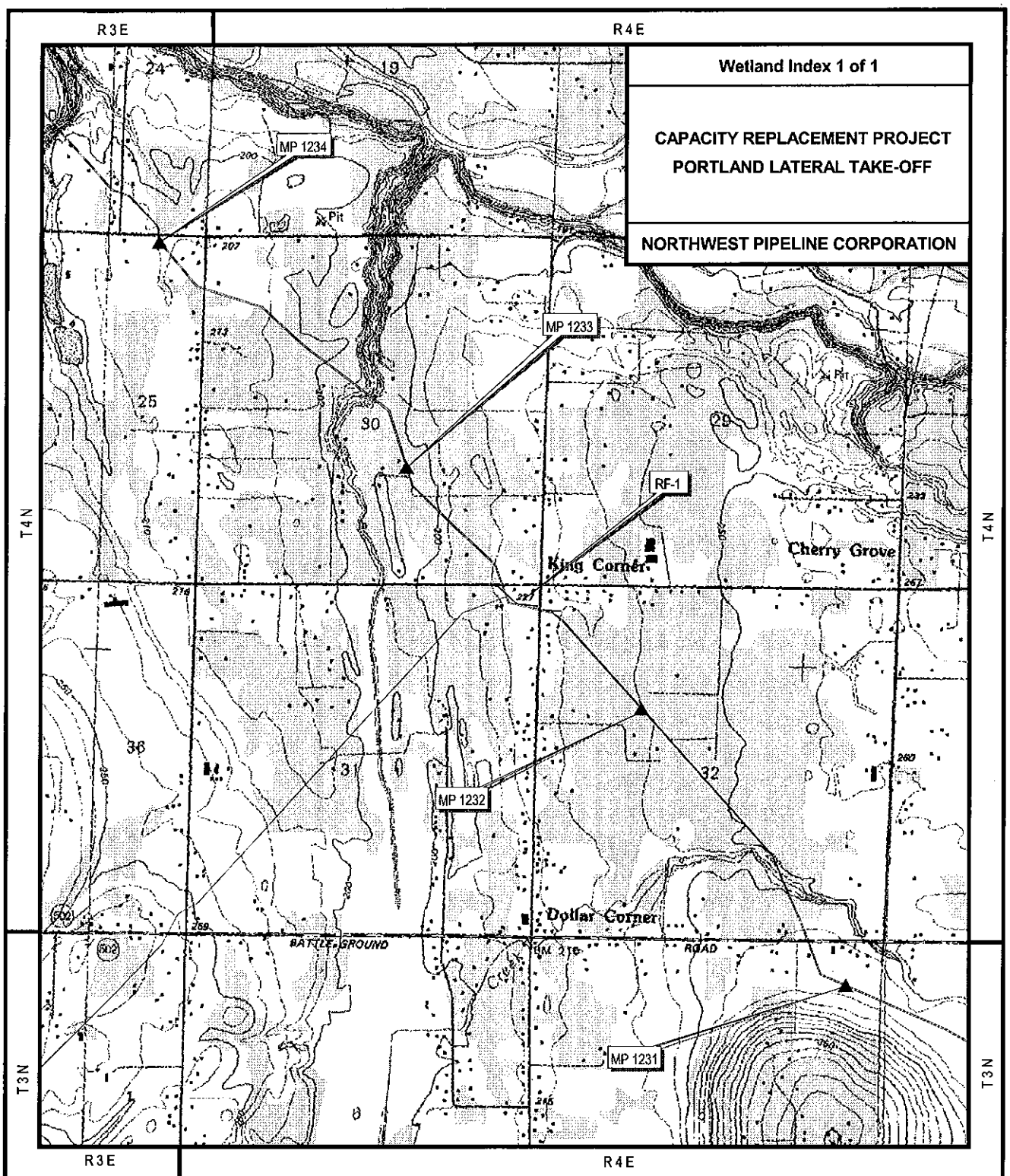
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 190 of 197

Date: March 2005



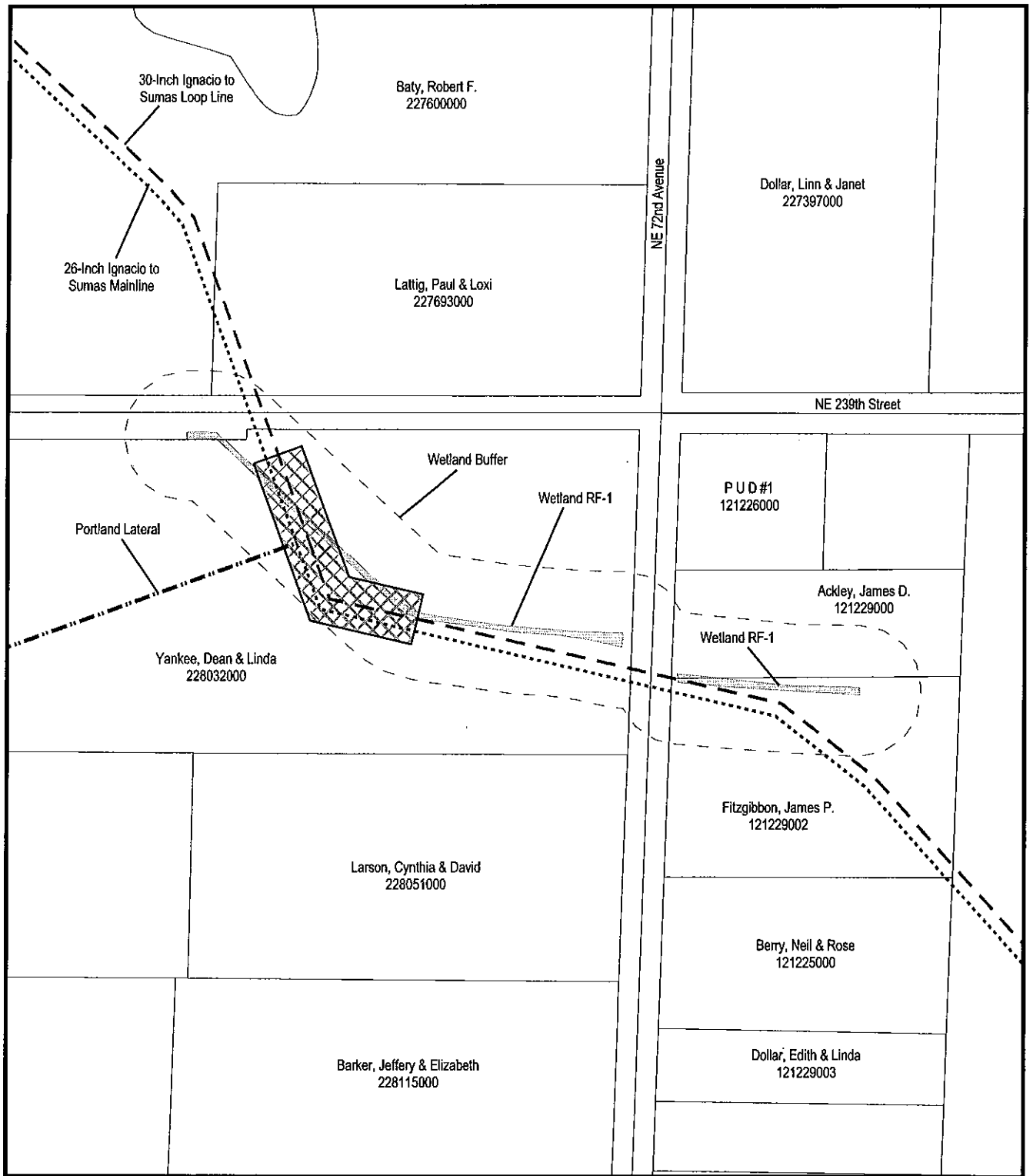

Portland Lateral Take-Off (Page 1 of 1)

Existing Northwest Pipeline System
Wetlands

2000 0 2000 Feet
0.5 0 0.5 Miles

Battle Ground WA 7.5 Minute USGS Quadrangle - Clark County, Washington

Proposed: Natural Gas Pipeline Replacement
Reference: 2004-00304
Purpose: Capacity Replacement
App. by Northwest Pipeline Corporation
Sheet 191 of 197
Date: March 2005




Clark County
T4N, R2E, Section 31

WETLAND RF-1

Temporary Extra Workspace within Existing Easement

Parcel Boundaries

N W E S

200 0 200 Feet

Proposed: Natural Gas Pipeline Replacement

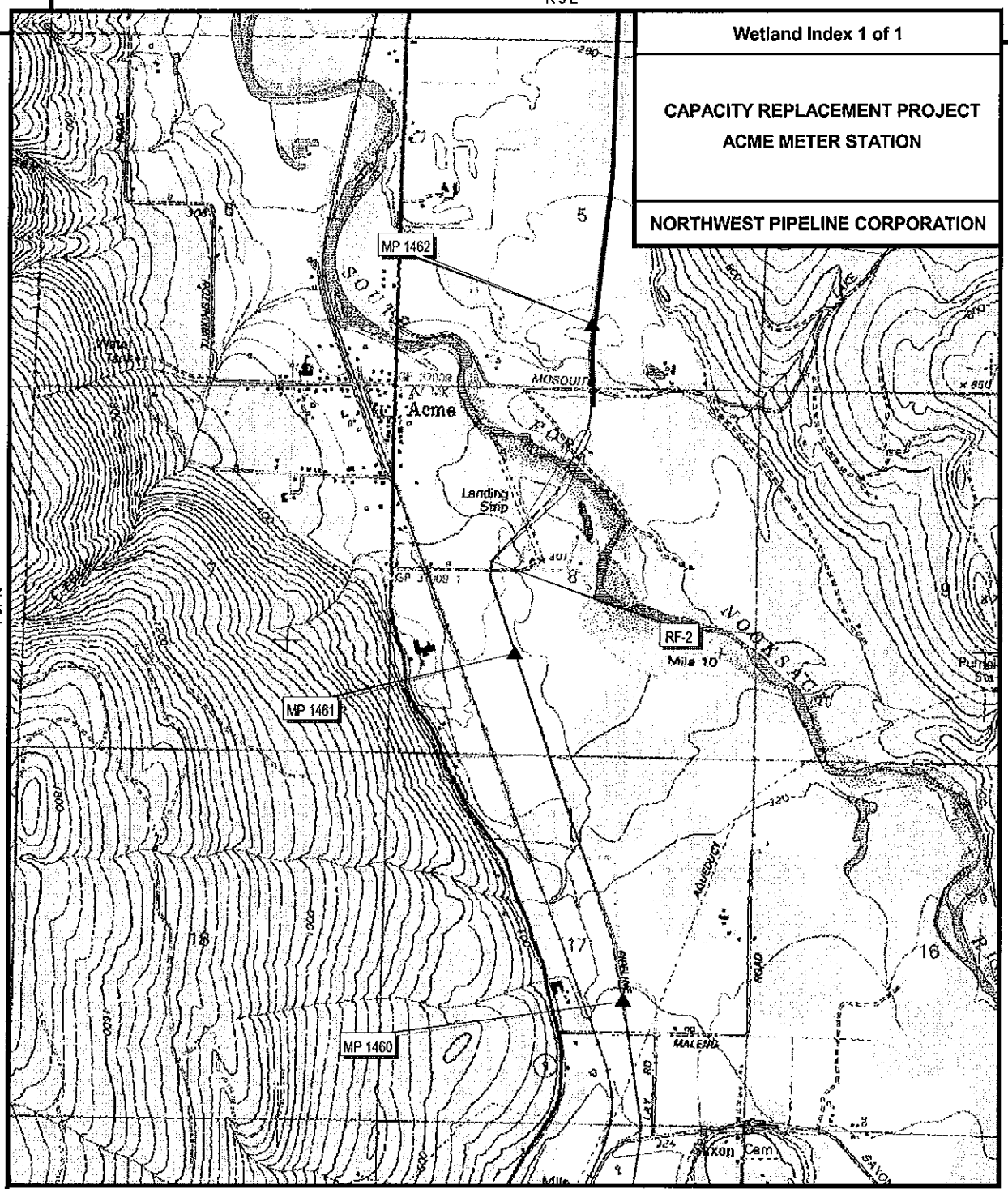
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 192 of 197

Date: March 2005




Acme Meter Station (Page 1 of 1)

Existing Northwest Pipeline System
Wetlands

N
W E
S

2000 0 2000 Feet
0.5 0 0.5 Miles

Acme WA 7.5 Minute USGS Quadrangle - Whatcom County, Washington

Proposed: Natural Gas Pipeline Replacement

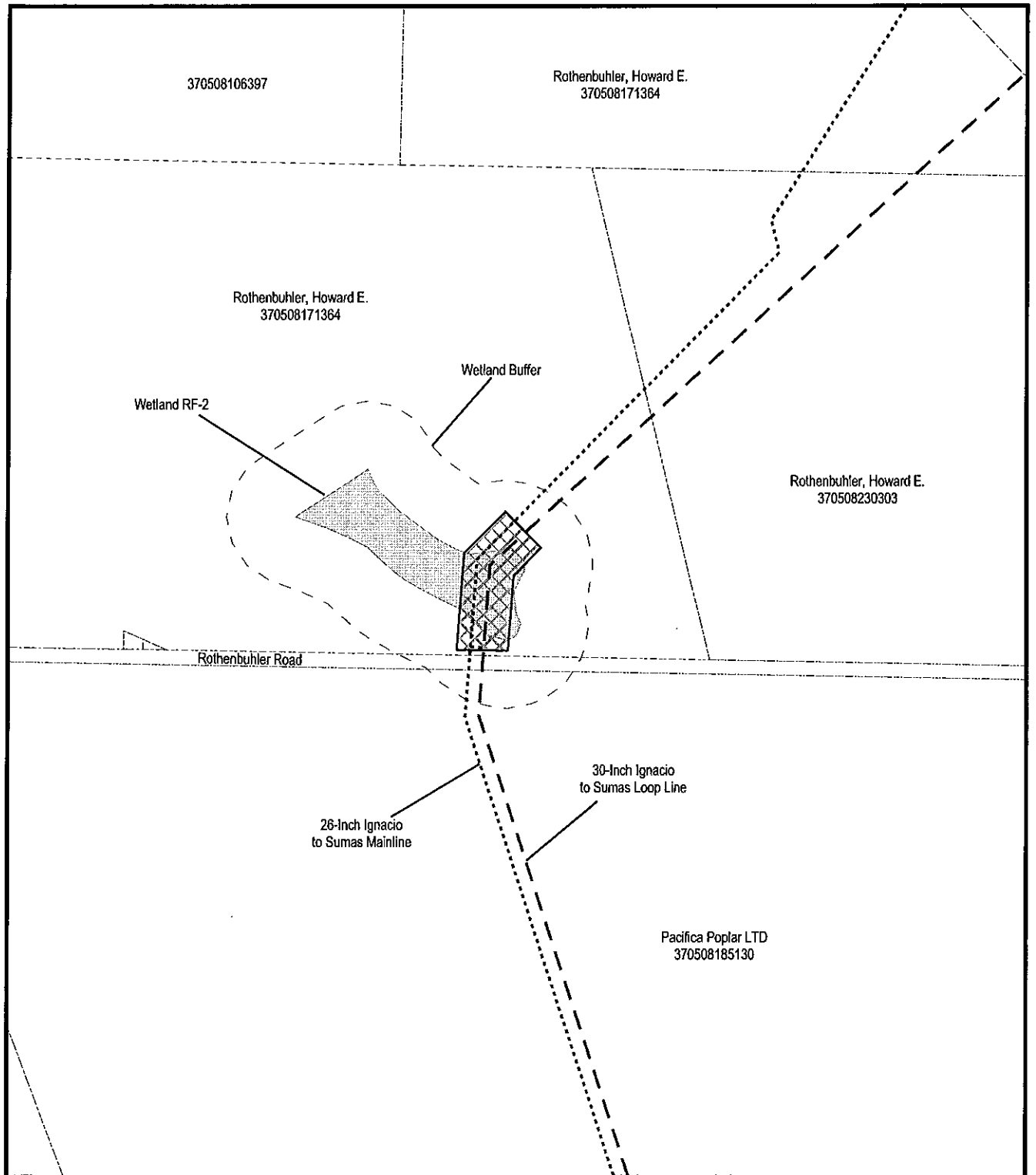
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 193 of 197

Date: March 2005




Whatcom County
T37N, R5E, Section 8

WETLAND RF-2

Temporary Extra Workspace within Existing Easement

Parcel Boundaries

N W E S

200 0 200 Feet

Proposed: Natural Gas Pipeline Replacement

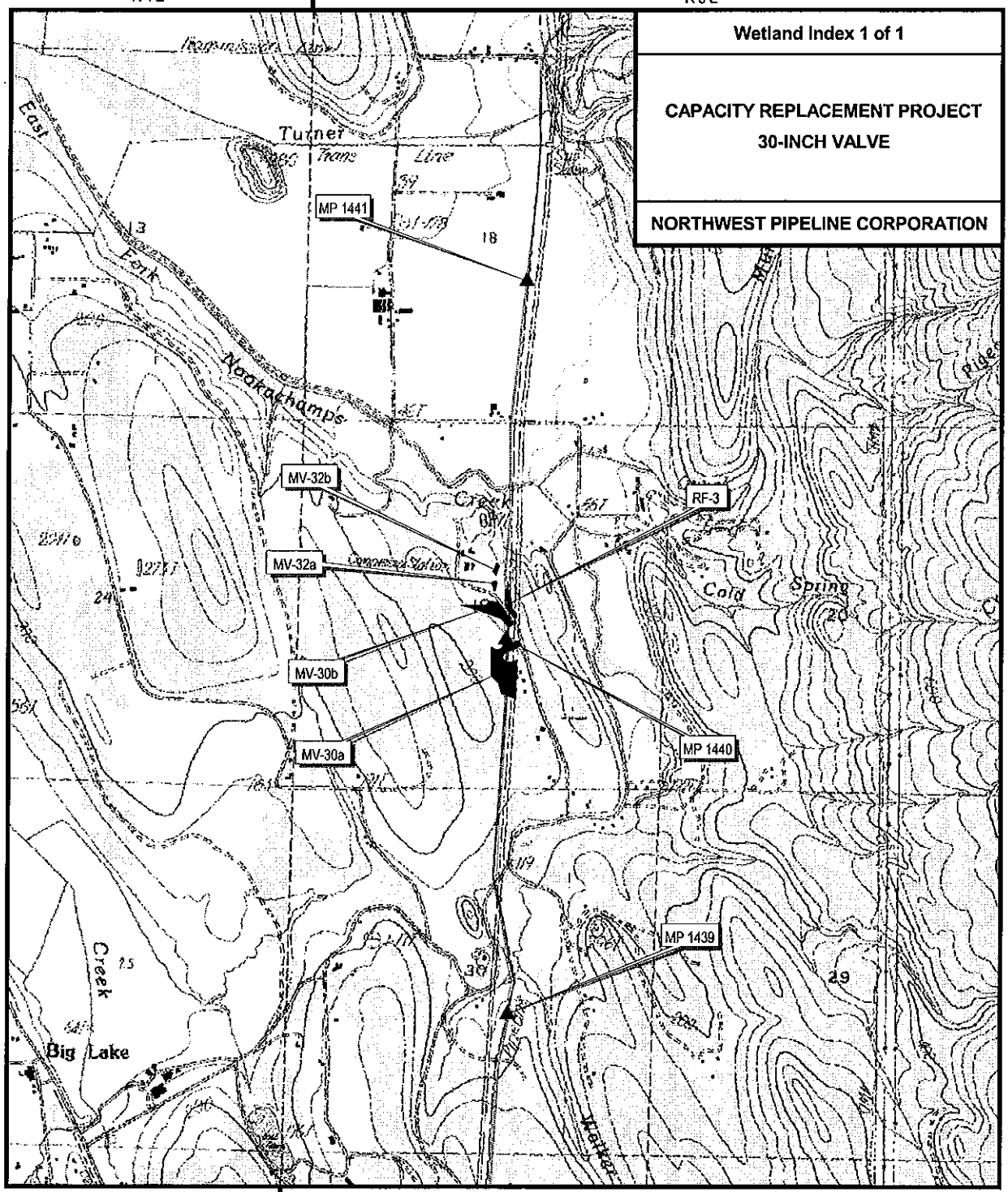
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 194 of 197

Date: March 2005




30-Inch Valve (Page 1 of 1)

Existing Northwest Pipeline System
Wetlands

N
W
E
S

2000 0 2000 Feet
0.5 0 0.5 Miles

Sedro Woolley South, WA 7.5 Minute USGS Quadrangle - Skagit County, Washington

Proposed: Natural Gas Pipeline Replacement

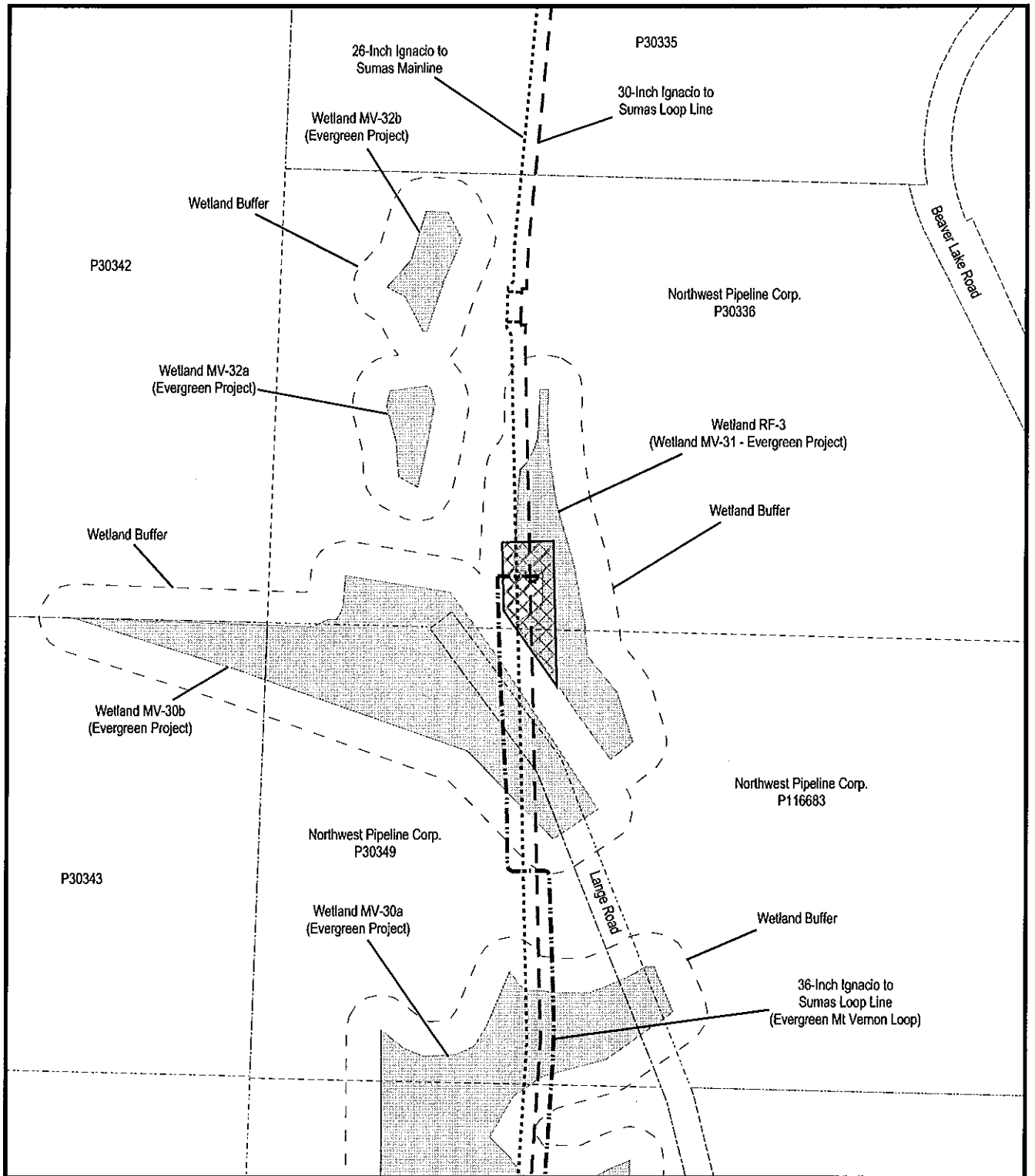
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 195 of 197

Date: March 2005




Skagit County
T34N, R5E, Section 19

WETLAND RF-3

Temporary Extra Workspace within Existing Easement

Parcel Boundaries

N W E S

200 0 200 Feet

Proposed: Natural Gas Pipeline Replacement

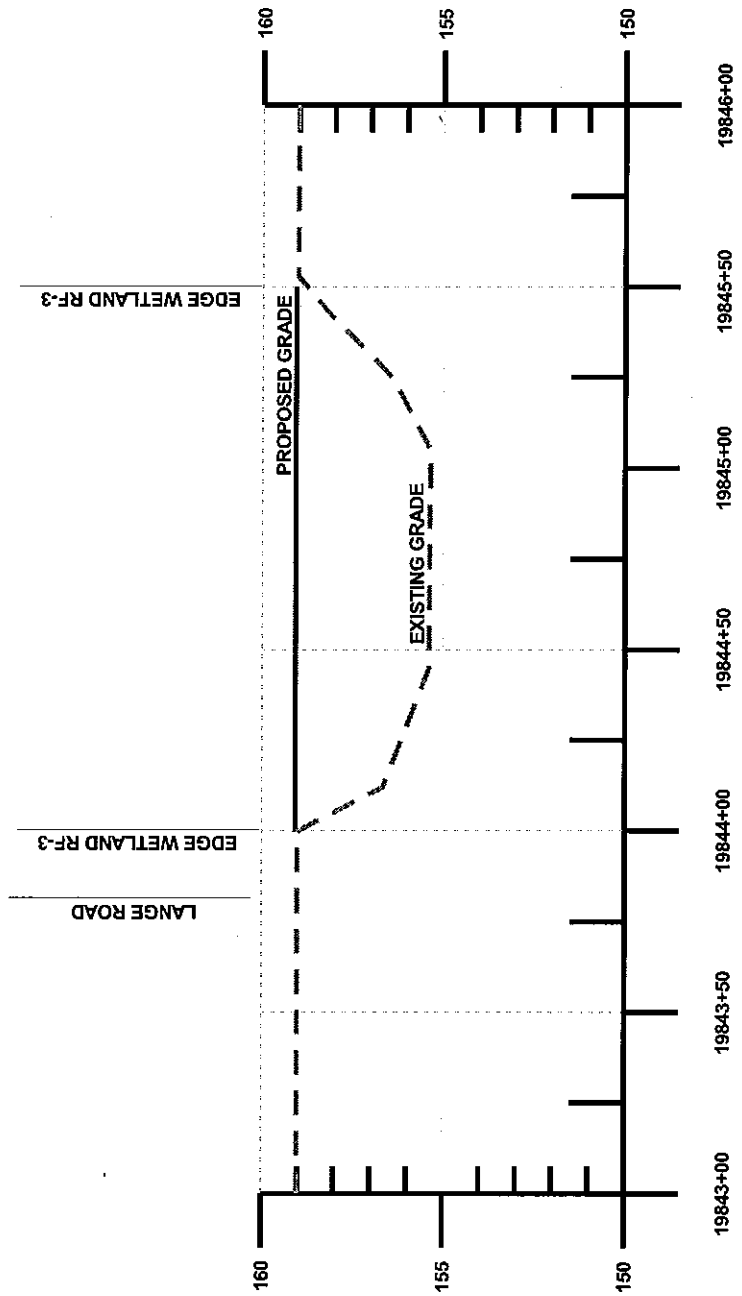
Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 196 of 197

Date: March 2005




30-INCH VALVE INSTALLATION
WETLAND FILL CROSS SECTION

Proposed: Natural Gas Pipeline Replacement

Reference: 2004-00304

Purpose: Capacity Replacement

App. by Northwest Pipeline Corporation

Sheet 197 of 197

Date: March 2005

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
*P.O. Box 47600 • Olympia, Washington 98504-7600*
*(360) 407-6000 • TDD Only (Hearing Impaired) (360) 407-6006*

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Notice of Application for
Water Quality Certification
and for
Certification of Consistency with the
Washington Coastal Zone Management Program

Date: March 25, 2005

Notice is herby given that a request has been filed with the Department of Ecology, pursuant to the requirements of Section 401 of the federal Clean Water Act of 1977 (PL 95-217), to certify that the project described in the U.S. Army Corps of Engineers Public Notice No. 200400304 will comply with the Sections 301, 302, 303, 306, and 307 of the Act, and with applicable provisions of State and Federal water pollution control laws.

Notice is herby given that a request has been filed with the Department of Ecology, pursuant to the requirements of Section 307© of the Federal Coastal Zone Management Act of 1972 (16 U.S.C. 1451), to certify that the above referenced project will comply with the Washington State Coastal Zone Management Program and that the project will be conducted in a manner consistent with that program.

Any person desiring to present views on the project pertaining to the project on either or both (1) compliance with water pollution control laws or (2) the project's compliance or consistency with the Washington State Coastal Zone Management Program may do so by providing written comments within 30 days of the above publication date to:

Federal Permit Coordinator
Department of Ecology
SEA Program
Post Office Box 47600
Olympia, Washington 98504-7600