

# WASHINGTON STATE



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AGENCY USE ONLY

## Tax Parcel #(s):

# **Joint Aquatic Resources Permit** Application (JARPA) Form<sup>1</sup>

USE BLACK OR BLUE INK TO ENTER ANSWERS IN WHITE SPACES BELOW.

# Part 1-Project Identification

1. Project Name (A name for your project that you create. Examples: Smith's Dock or Seabrook Lane Development) [help]<sup>2</sup>

Custer Spur Improvements (BNSF Intalco Wye Through Elliott Yard Capacity Expansion Project)

# Part 2-Applicant

The person or organization responsible for the project. [help]

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Glen M. Gaz, Manager Engineering - BNSF Railway

Mailing Address (Street or PO Box)

2454 Occidental Avenue South, Suite 2-D

2c. City, State, Zip

Seattle, WA 98134-1451

<b>2d.</b> Phone (1)	<b>2e.</b> Phone (2)	<b>2f.</b> Fax	2g. E-mail
206-625-6150	( )	206-625-6356	glen.gaz@bnsf.com

# Part 3-Authorized Agent or Contact

Person authorized to represent the applicant about the project. (Note: Authorized agent(s) must sign 11b. of this application.) [help]

ं	sa.	ľ	van	1e (	Last, First, M	liddle) a	nd O	rganizat	on (if	applicat	ole)

Pierre Bordenave, VP Environmental Services - JLP Environmental (JLP-E)

Mailing Address (Street or PO Box)

PO Box 1724; 101 North Fourth Avenue, Suite 203

3c. City, State, Zip

http://www.epermitting.wa.gov/site/alias\_\_resourcecenter/jarpa\_jarpa\_form/9984/jarpa\_form.aspx. For other help, contact the Governor's Office of Regulatory Assistance at 1-800-917-0043 or help@ora.wa.gov.

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<sup>&</sup>lt;sup>1</sup>Additional forms may be required for the following permits:

<sup>•</sup> If your project may qualify for Department of the Army authorization through a Regional General Permit (RGP), contact the U.S. Army Corps of Engineers for application information (206) 764-3495.

<sup>•</sup> If your project might affect species listed under the Endangered Species Act, you will need to fill out a Specific Project Information Form (SPIF) or prepare a Biological Evaluation. Forms can be found at http://www.nws.usace.army.mil/PublicMenu/Menu.cfm?sitename=REG&pagename=mainpage\_ESA

If you are applying for an Aquatic Resources Use Authorization you will need to fill out and submit an Application for Authorization to Use State-Owned Aquatic Lands form to DNR, which can be found at http://www.dnr.wa.gov/Publications/aqr\_use\_auth\_app.doc

Not all cities and counties accept the JARPA for their local Shoreline permits. If you think you will need a Shoreline permit, contact the appropriate city or county government to make sure they will accept the JARPA.

<sup>&</sup>lt;sup>2</sup>To access an online JARPA form with [help] screens, go to

Sandpoint, ID 8386			
<b>3d.</b> Phone (1)	<b>3e.</b> Phone (2)	<b>3f.</b> Fax	3g. E-mail
208-263-9391	208-293-3333 (cell)	208-263-7013	pbordenave@jlpatterson.com
art 4–Property	/ Owner(s)		
		ns owning the proper	rty(ies) where the project will occur. [help]
_	nt. (Skip to Part 5.)		
 			asements. (Skip to Part 5.)
I here are multiple each additional p		iplete the section beli	ow and fill out <u>JARPA Attachment A</u> for
•	. •	nd being compiled who	en all properties affected are identified. When
the list is finalized,	the respective attachments	s will be submitted to the	he agencies.
<b>4a.</b> Name (Last, First	t, Middle) and Organizatio	n (if applicable)	
<b>4b.</b> Mailing Addres	s (Street or PO Box)		
	and the second state of the second	The Control of the Control of the Control	
<b>4c.</b> City, State, Zip			[전환 [전환원 전환원 경험원 회장 ] [18] 20 20 20 20 20 20 20 20 20 20 20 20 20
<b>4c.</b> City, State, Zip			
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	<b>4e.</b> Phone (2)	<b>4f.</b> Fax	4g. E-mail
<b>4d.</b> Phone (1)	( )	( )	<b>4g.</b> E-mail
4d. Phone (1) ( ) Part 5–Project	( ) Location(s)	( )	
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5d. County [help]

Whatcom

<b>5e.</b> Provide the section	Section		
Portions of	26, 27, 28, 32, 33	Township T 40 N	Range R1E
Portions of	5, 8, 17	T 39 N	RIE
	de and longitude of the pr 22 N lat. / -122:89142 W long.	사용하는 하는 사람들이 들어 된 사는 사람들은 이 나를 다니라 하는데 같은	
• /	idor: Intalco Wye N48.9 dor: Elliott Yard @ Lons	9218'; W122.6478' eth Road N48.8702'; W122.	7094'
	el number(s) for the projections	취임하다 근처에 가는데 하나 그 사람들들이 그만들는 살은	
		being compiled when all propertial be submitted to the agencies.	ies affected are identified. When
<b>5h.</b> Contact informati	ion for all adjoining prope	rty owners. (If you need more spa	ace, use JARPA Attachment C.)
Name		Mailing Address	Tax Parcel # (if known)
See NOTE in 5g.			
5i. List all wetlands o	n or adjacent to the proje	ect location. [help]	
41 wetlands are shown or continue off the pro		e project work corridor. Many	y of the wetlands are connected
<b>5j.</b> List all waterbodie	es (other than wetlands) o	on or adjacent to the project lo	cation. [help]
California Creek (drai	ns to Drayton Harbor); T	errell Creek (drains to Birch B	ay)
5k. Is any part of the	project area within a 100	-year flood plain? [help]	
☐ Yes ⊠ No	☐ Don't know		
<b>51.</b> Briefly describe th	e vegetation and habitat	conditions on the property. [h	elp]
Wetland and upland pagricultural land use agricultural pasturelar Pastures exhibit lush plantain. In less extent histle, bentgrass, qua along with black cotto hemlock, and Douglas	plant communities in the , soil characteristics, and along the work corridgrowth with mixtures of sively managed pastures, ack grass, and orchard growood (deciduous forest s-fir (coniferous forest).	e project work corridor are a nd geomorphic and hydrolog for is generally managed for of red fescue, bentgrass, sweet, dominant grass species includes. Ass. Vegetation in forested a and with relatively small area	reflection of historic intensive
	e property is currently use		
The project work corr	idor is an active BNSF ra	ilroad subdivision main line ar	nd switch yards.
	adjacent properties are		

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Adjacent properties have been used primarily for agricultural, timber management, rural single-family home residences, and commercial / industrial facilities. There are pockets of relatively undisturbed coniferous and deciduous forested areas adjacent to the work corridor, and wetland areas are generally associated with either California Creek or Terrell Creek.

50. Describe the structures (above and below ground) on the property, including their purpose(s). [help]

Structures within the work corridor consist of the railroad track structural embankment, with the top of rail to toe of slope varying from 3 to 20 feet. Railroad signal communications for rail operations are distributed as needed along the corridor. In general, signals and associated communications bungalows are no more than 25' +/- high and 10' by 10' in dimension. Existing bridges span both Terrell and California Creeks. Existing Terrell bridge is a full span across the creek channel and California Creek has pilings within the creek channel. The new bridges would fully span both creek channels. Existing timber pilings would be cut at the base to ensure the least amount of impact to aquatic resources.

**5p.** Provide driving directions from the closest highway to the project location, and attach a map. [help]

Travel north on Interstate-5 from Seattle, take the first 'Custer' exit # 266 to Grandview Road westbound; take Portal Way north; in Custer, take Main Street west, turn right (north) on Bruce Road travelling north, then west on Arnie Road to the intersection of Valley View Road. Turn right (north) to where Valley View Rd. intersects with the BNSF tracks. To the left (west) is the existing Intalco Yard and Receiving & Departure (R&D) tracks. To the right (east) is the Intalco Wye and the R&D tracks, going towards the Custer Junction.

## Part 6-Project Description

^	<ul> <li>A sign of the bridge in the research of the research of the research.</li> </ul>	na kata da kat	[1] A. Control of the state of the property
<b>n</b> a:	Summarize the overs	I project. You can provide	more detail in hid [heln]
J-61.	Cummanzo uno overa	i project. Tod can provide	more detail in out, meior

BNSF is proposing to improve the existing Cherry Point Subdivision Mainline (from the Intalco Wye through the Elliott Yard) which aligns generally east-west for 2 miles, then generally north-south for approximately four miles. The start of the project (Intalco Wye Junction) spurs off of the Bellingham Subdivision Mainline at the town of Custer. The project ends at the intersection of the BNSF Cherry Point Subdivision Mainline to Lonseth Road, south of the existing BNSF Elliott Yard. For consistency in the JARPA narrative and all attached documents, the description of the geographic alignment for the Cherry Point Mainline tracks will be referred to as "east / west" and adjacent properties identified as on the "north or south" side of the BNSF right-of-way (ROW).

The improvements would accommodate the potential tonnage of dry bulk commodities for projected rail capacity needs. The expansion would also allow access to/from international and interstate commercial facilities and markets on this rail line. This is the only rail line that provides connecting rail service to existing and proposed Cherry Point Area industrial facilities. Project activities would consist of constructing a second track, expansion and improvements at both the Intalco and Elliott switch yards, and the addition of three R&D tracks at the east end (Intalco) of the Cherry Point Mainline Subdivision.

A detailed description of the project components is in 6d.

<b>6b.</b> Indicate the project	ct category. (Check	all that apply) [help]	
	Residential	Institutional	☐ Recreational
Maintenance	Environmenta	al Enhancement	

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-	pacity Expansion project) a	Float Geotechnical Survey Land Clearing Marina / Moorage Mining Outfall Structure Piling Retaining Wall (upland)  the BNSF Custer Spur Improre: Railroad track construction	
methods and equipmen  Identify where each elements  Indicate which activities a	t to be used. [help] ent will occur in relation to the nea re within the 100-year flood plain.		

The project summary from 6a and the elements checked in 6c are related to the bulleted construction components described below:

- Up to three R&D tracks would be developed on the south side of the BNSF Railway's Cherry Point Subdivision Mainline starting from the Intalco Wye and ending at Ham Road. Each R&D track would be long enough to provide a holding area for a full length train and avoid blockage of the main line. The R&D track construction would include expansion of the existing rail embankment, additional trackage, new bridges, improvements to existing bridges, and drainage improvements (i.e. culverts/ditches).
- The existing Cherry Point Subdivision Mainline and siding tracks would also be upgraded to accommodate the potential volume of transported commodities while maintaining current service levels. This rail upgrade would include rehabilitation of existing ties, switches, signals, and other existing railbed or structural improvements to support efficient and safe maintenance.
- A second track would be added along the length of the existing Cherry Point Subdivision Mainline from the Intalco Wye to Lonseth Road (approximately six miles) on the north side, to the new proposed industrial/commercial facilities connection point. This line currently services several existing industries by way of a single rail line track. A second track would protect existing rail service and switching capabilities for all customers along the line, including the ability to efficiently accommodate potential rail traffic to and from the proposed Gateway Pacific Terminal (GPT).
- California Creek in the Intalco Yard portion of the project (Approx. Station 45+00) would be realigned to reduce the oblique angle of the creek to the existing BNSF bridges thereby reducing potential for erosion or scour to the railroad bridge structure embankments/abutments, and improve natural flow-through in the creek channel. This realignment would enhance opportunities for habitat restoration to California Creek through the impacted reach. The intent is to fully restore the creek from the new bridges to an existing stream restoration area south of Arnie Road. The replacement bridges would fully span the creek channel. The existing timber pilings would be cut at the base to reduce impacts to aquatic resources.
- New and replacement bridges over Terrell Creek would fully span the creek. The riparian edges and corridor under and adjacent to the bridges would be restored for the enhancement of natural hydrologic connection and improve fish passage.

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forms of support vehicles/trucks, earth moving/grading equipment, tie/track laying equipment, etc.
The entire project and all components would be constructed in one stage.
What are the start and end dates for project construction? (month/year) [help]     If the project will be constructed in phases or stages, use JARPA Attachment D to list the start and end dates of each phase or stage.
Start date: Upon permit approval End date: 12 months after start   See JARPA Attachment  D
<b>6f.</b> Describe the purpose of the project and why you want or need to perform it. [help]
Improvements to the BNSF Cherry Point Subdivision Mainline are necessary to accommodate the number length, and weight of trains, as well as to safely and efficiently provide rail services for the existing facilitie in the Cherry Point Industrial Area and the proposed GPT facility. Current capacity is insufficient to efficiently and safely handle the potential volume and length of trains without impacting operations on the Cherry Point Subdivision Mainline or the Bellingham Subdivision Mainline.
<b>6g.</b> Fair market value of the project, including materials, labor, machine rentals, etc. [help]
\$ 50 million
6h. Will any portion of the project receive federal funding? [help]  ■ If yes, list each agency providing funds.  □ Yes ☑ No □ Don't know
Part 7–Wetlands: Impacts and Mitigation  Check here if there are wetlands or wetland buffers on or adjacent to the project area.  (If there are none, skip to Part 8.) [help]
<b>7a.</b> Describe how the project has been designed to avoid and minimize adverse impacts to wetlands. [help]
☐ Not applicable
Project planning has gone through three iterations:
The initial plan identified almost all expansions of the rail line and improvements as occurring to the south of the current rail line. This location had the lowest cost and most direct connections that minimized switches and signals. This alternative resulted in an initial evaluation of up to 30 + acres of potentia wetland fills identified.
The second iteration defined the expansion with access roads and service areas along both sides of the tracks for the entire six miles, but moved most of the major expansion, other than the R&D tracks, to the north side. This resulted in approximately 20+ acres of total wetland fill.
The final iteration of the proposed expansion plan has reduced, through design and alignment adjustments the total wetland impacts to 16.76 acres, and also minimized impacts to higher function and value wetland areas and features.
7b. Will the project impact wetlands? [help]
⊠ Yes □ No □ Don't know

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<b>7c.</b> Will the	project im	pact wettand	l buffers? [help				
⊠ Yes	☐ No	☐ Don't					
			ort been prepa data sheets, with	red? [ <u>help]</u> the JARPA package.			
⊠ Yes	☐ No						
System	1? [ <u>hefp]</u>			tern Washington of with the JARPA pack		√ashington W	etland Rating
⊠ Yes	☐ No	☐ Don't k	<u> </u>	<u>ne valla galla la la li linten e materia Medicen a</u>			<u> </u>
● If yes,	submit the p	olan with the JA	RPA package and	ensate for any ac l answer 7g. ation plan should not		cts to wetland	s? [help]
⊠ Yes	□No	☐ Not ap	plicable				
Ecology (Eco = 13.56 AC; wetlands loc typically hav construction mitigation fo altered and d and working Fish & Wild areas that are	ology) rate IV = 3.13 rated with re been his and /or to r impacts drained for with local life (WDI high pote	ed Category AC. The in in the existi storically dis by agricultur to all wetlar agricultural and state en FW), and Wential candida	II, III, and IV on pacts occur to ing and propositurbed or imparal and silvicularly would be a purposes adjantities such as to A Dept. of Nantes for wetland	impacts of 16.76 wetlands. By Cate emergent, scrubsed additional Bracted either by the ltural activities and accomplished throcent to the BNSF he Whatcom Countural Resources (I and stream restores)	egory, the inshrub, forest NSF ROW. e original randjacent to to ough: rehabit ROW, restouty Conservation, which	npacts are: II ted-open water The areas of ilroad construction of areas oration of off ration District omplete potern lack availab	= 0.07 AC; III er, and riparian of wetland fill action, gas line Compensatory eas historically esite locations, t, WA Dept. of atial mitigation le funds.
of the track s fill or alterat bottom-of-did ditches along ditch impacts	tructure. Sion, the extending the infiltrate the tracks be define	Since all ditoxisting impactation will rented to some states for safe raced as being according to the safe raced as being according to the safe according according to the safe according according to the safe according to	thes would be rects to hydrologonain essentially illustructure maccomplished the	ditches to be off- eplaced essentially y are projected to the same for the nagement. Thus, rough adjacent in- wetland impacts y	y in-kind nead to be minimal to be minimal to hew ditched we are proposed with the placed to be a second to be	ar or adjacent l. Vegetation s as the exist cosing that al ement.	to the point of n filtration and ing maintained l jurisdictional
mitigation sit				*			
1 1 1 T	the contract of the con-	the mitigatior gn the plan.	the professional and the first terminal	to accomplish, a	nd describe	how a waters	hed approach
WADOE Ca watersheds to habitat, water	itegory II, o offset the r quality f	III, and IV ne unavoidat unctions, and	wetlands wit ble wetland im I flood flow fea	for this project is thin the impacted pacts from the project in the project wetland impacted.	l watershed roject and to ct area. Mit	(WRIA #1) improve fis igation is pro	or in adjacent sh and wildlife posed to offset

7h. Use the table below to list me type and rating of each wetland impacted; the extent and duration of the impact; and the type and amount of mitigation proposed. Or if you are submitting a mitigation plan with a similar table, you can state (below) where we can find this information in the plan. [help]

Activity (fill, drain, excavate, flood, etc.)	Wetland Name <sup>1</sup>	Wetland type and rating category <sup>2</sup>	Impact area (Acres)	Duration of impact <sup>3</sup>	Proposed mitigation type <sup>4</sup>	Wetland mitigation area (sq. ft. or acres)
Fill	WW	III	1.25	Permanent		
Fill	W	III	0.38	Permanent		
Fill	X	III	0.18	Permanent		
Fill	V	III	1.73	Permanent		
Fill	Uu	III	2.40	Permanent		
Fill	VV	III	0.85	Permanent		
Fill	U	III	1.04	Permanent		
Fill	u	IV	0.61	Permanent		
Fill	Vv	IV	0.46	Permanent		
Fill	V, VV	III	2.19	Permanent		
Fill	Ť	III	0.69	Permanent		
Fill	tt	III	0.15	Permanent		
Fill	TT	IV	0.34	Permanent		
Fill	R, Rr, rr, RR	III	0.30	Permanent		
Fill	Ss	IV	0.16	Permanent		
Fill	SS	III	0.32	Permanent		
Fill	QQ	IV	0.15	Permanent		
Fill	S	III	0.11	Permanent		
Fill	q	III	0.03	Permanent		
Fill	Q	IV	0.10	Permanent		
Fill	n	III	0.16	Permanent		
Fill	N, Nn	IV	0.10	Permanent		
Fill	M	III	0.67	Permanent		
Fill	00,00	II	0.03	Permanent		
Fill	Mm	IV	0.02	Permanent		
Fill	m	IV	0.17	Permanent		
Fill	KK	IV	0.13	Permanent		
Fill	K	IV	0.03	Permanent		
Fill	J	IV	0.38	Permanent		***************************************
Fill	H	III	0.54	Permanent		
Fill	I	IV	0.37	Permanent		
Fill	D	IV	0.05	Permanent		· · · · · · · · · · · · · · · · · · ·
Fill	G	IV	0.04	Permanent		
Fill	F, FF	IV	0.02	Permanent		
Fill	E	III	0.02	Permanent		ALCONOMIC TO THE PARTY OF THE P
Fill	В	II	0.04	Permanent		
Fill	A		0.55	Permanent		
Total Acres	TL	111	16.76	1 CHIMANUM		
I Otal ACIES			10.70		J,	

<sup>&</sup>lt;sup>1</sup> If no official name for the wetland exists, create a unique name (such as "Wetland 1"). The name should be consistent with other project documents, such as a wetland delineation report.

Page number(s) for similar information in the mitigation plan, if available:

7i. For all filling activities identified in 7h., describe the source and nature of the fill material, the amount in cubic yards that will be used, and how and where it will be placed into the wetland. [help]

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<sup>&</sup>lt;sup>2</sup> Ecology wetland category based on current Western Washington or Eastern Washington Wetland Rating System. Provide the wetland rating forms with the JARPA package.

<sup>&</sup>lt;sup>3</sup> Indicate the days, months or years the wetland will be measurably impacted by the activity. Enter "permanent" if applicable. <sup>4</sup> Creation (C), Re-establishment/Rehabilitation (R), Enhancement (E), Preservation (P), Mitigation Bank/In-lieu fee (B)

Approximately 250,000 cubic yards of structural soil and rock fill would be required for the construction of the proposed rail improvements.

The source of the soil/rock materials would be from local commercial quarries that meet the engineering design criteria for use in mainline railroad construction.

Material would be brought to the work site via commercial haul truck/trailers and/or via freight cars designed for transport of rock materials. Materials would be used immediately or temporarily stockpiled in upland staging locations within the BNSF ROW. Materials would be placed using earth moving equipment typical of major transportation corridor projects, i.e. dump trucks, bulldozers, front end loaders, graders, backhoes, excavators, etc.

7j. For all excavating activities identified in 7h., describe the excavation method, type and amount of material in cubic yards you will remove, and where the material will be disposed. [help]

Approximately 15,000 cubic yards of excavation would be required along the project work corridor for the construction of the proposed rail improvements.

Excavation would require using excavators or backhoes and excavated material would be used in the project for non-structural fill, slope and edge restoration, or removed via commercial haul trucks or train cars to off-site upland locations, pre-approved by the project construction management team. Any off-site disposal areas would avoid surface water quality impacts by following the project Water Quality Management and Storm Water Pollution Prevention Plans.

# Part 8-Waterbodies (other than wetlands): Impacts and Mitigation

In Part 8, "waterbodies" refers to non-wetland waterbodies. (See Part 7 for information related to wetlands.) [help]

☑ Check here if there are waterbodies on or adjacent to the project area. (If there are none, skip to Part 9.)

8a.	<ul> <li>Describe how the project is designed to avoid and minimize adverse impacts to the aquatic environment. [help]</li> </ul>	
	☐ Not applicable	

The project would directly impact the named creeks (California & Terrell) and unnamed tributaries of California Creek where they intersect and flow under the existing BNSF rail line. The project design and proposed work includes design elements that minimize impacts to these waterways while fulfilling federally mandated standards for safe construction and operations of Class 1 railroads:

- 1. At California Creek and the unnamed tributaries to California Creek, freight capacity requirements were carefully analyzed and the three new R&D tracks were identified as the minimum required for full capacity needs in order to minimize the extent of fills, channel alterations, and culvert lengths. Bridges will be full span to avoid the placement of structural components in the stream.
- 2. The location of the R&D tracks on the south side of the existing tracks resulted in lower potential impacts than the north side because California Creek on south side of the tracks is highly altered by agricultural activities, compared to the more naturalized stream conditions on the north side.
- 3. Culverts and stream flow-through structures will incorporate design methods to improve and enhance fish and other aquatic life passage.
- 4. The full span/no in-water pilings or piers bridge design avoids in-stream alterations to the greatest extent possible at Terrell Creek.

8b.	Will you	r project impact a waterbody or the area around a waterbody? [help]	
	⊠ Yes	□ No	

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	u prepare lies? [ <u>help</u>	ed a mitigation plan to compensate for the project's adverse impacts to non-wetland
<ul><li>If yes,</li></ul>	submit the p	plan with the JARPA package and answer 8d.
<ul><li>If No,</li></ul>	or Not app	plicable, explain below why a mitigation plan should not be required.
	☐ No	☐ Not applicable
1 111 1 111 111 111 111 111 111		☐ Not applicable  the mitigation plan is meant to accomplish. Describe how a watershed approach w

California Creek and its associated tributaries/unnamed drainages are considered a sub-basin of the Drayton Harbor Watershed. A significant portion (68+/-%) of the California Creek basin's wetlands and riparian habitat has been historically altered. Generally the alteration of the area relates to removal of forest cover for agriculture, residential, and industrial development. Research (i.e. the Drayton Harbor Focused Watershed Analysis WADOE, 8/2003) has determined that natural hydrologic processes are maintained when at least 65% of a given watershed is forested. With only 32% +/- of the California Creek sub-basin of the Drayton Harbor watershed forested, the quality of habitat for fish and other aquatic species is defined as compromised.

Upstream of the California Creek existing and new bridge location, an 800+/- foot section of California Creek would be proposed to be realigned to change the oblique angle of flow entry to the BNSF rail bridges and reduce potential scour and erosion. The realignment of this portion of California Creek would be combined with the restoration of meander, stream complexity, substrate enhancement, and improved riparian habitat for the entire stream reach from the proposed bridges to the Arnie Road bridge. The riparian edges of the realigned creek corridor would be restored and rehabilitated from the existing agricultural use of a hay/grazing pasture to a naturalized, riparian corridor habitat.

These actions are intended to improve stream and riparian habitat, particularly for aquatic species in this reach of the creek, as well as fish passage and use to upstream habitats.

We are proposing to restore the entire reach of California Creek from the BNSF bridges to the existing restoration area south of Arnie Road to provide offset mitigation for the proposed project stream impacts. This stream reach restoration is proposed as the mitigation for the stream channel change near the BNSF main line bridges.

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Activity (clear, dredge, fill, pile drive, etc.)	Waterbody name <sup>1</sup>	Impact location <sup>2</sup>	Duration of impact <sup>3</sup>	Amount of material to be placed in or removed from waterbody	Area (sq. ft. or linear ft.) of waterbody directly affected
Station 0+00 Extend culverts and install elbows/headwall	Unnamed tributary to California Ck.	At intersect of BNSF tracks/CA Ck. flow through	Permanent	300 +/- cubic yards (CY)	50+/- linear feet (LF) 500+/- square feet (SF)
Station 45+00 Realign a section of creek for a new bridge in the Intalco Yard area	California Ck.	Up/downstream of BNSF-CA Ck. intersect; Along CA Ck. to restoration project south of Arnie Rd	Permanent	4000 +/- CY	800 +/- LF 80,000 +/- SF

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	2000000				
	Unnamed	West of where	Permanent	2000+/- CY	650+/- LF
Station 84+00	tributary to	the main stem	:		33,000 SF
Two new 72" culverts	California Ck.	of CA Ck.			
		Intersects w/			
		BNSF			
Station 209+00	Terrell Creek	Over and	Permanent	None	None
New Single Span		adjacent to			
Bridge and riparian		Terrell Ck.			
edge restoration and					
stabilization of					
existing bridge			Landau de la constante de la c		
abutments.		:			

filf no official name for the waterbody exists, create a unique name (such as "Stream 1") The name should be consistent with other documents

#### Tributary to California Creek Culvert Extension (Station 0+00+/-):

The existing culverts that this tributary to California Creek flows through would be extended with the same or larger size diameter culverts. The extensions would also be designed to avoid impacts to the adjacent Arnie Road. Disturbed open soil areas would be re-seeded and planted with native riparian species for both water quality and riparian corridor habitat improvements. The diversion would occur when the creek is at its lowest flow and during applicable in-water work windows as established by regulatory agencies. During this work, the creek would be temporarily diverted to a gravity pipe bypass system in late summer/early fall of the first year of construction.

Fill materials related to the extension of the culverts would be primarily the materials removed from the area needed for the extension. Quantity of fill into the realigned creek corridor is estimated to be 300+/- cubic vards.

#### California Creek Channel Relocation and Restoration Related to New Bridge (Station 45+00+/-):

The entire new channel would be constructed and restored prior to any diversion of flows. Diversion would occur when the creek is at its lowest flow and during applicable in-water work fish windows and while the creek is temporarily diverted to a gravity pipe bypass system in late summer/early fall of the first year of construction.

The new channel configuration would accommodate 500 year flood events and other extreme flow volumes resulting from upstream events. Generally, the new configuration would eliminate the existing straight and high wall excavated channel condition. The meandering realignment would incorporate the use of Biotechnical Erosion Control techniques for both habitat and passage accommodation and to prevent erosion/sedimentation impacts to water quality, as well as greater channel complexity that would include, but is not limited to: boulder clusters, root wads, riparian vegetation, and spawning gravel placement.

Fill materials related to the realignment of the creek channel would be primarily the materials removed from the excavated new channel. Quantity of fill into the realigned creek corridor is estimated to be 4,000+/cubic yards, which would likely come from the excavated channel.

### New Culverts @ Tributary to California Creek Channel Restoration (84+00 +/-):

Two unnamed tributary drainages to California Creek, that appear to have been historically ditched for agricultural purposes, would be reconfigured to reduce the length of the culverts needed to carry these flows under the tracks, and eliminate the existing straight, incised channels to a more natural meandering character. Currently this flow goes under the BNSF tracks at two locations. The proposed drainageway restoration would join the two sub-tributaries into a single tributary flowing under the tracks via two 72"

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provided.

Indicate whether the impact will occur in or adjacent to the waterbody. If adjacent, provide the distance between the impact and the waterbody and indicate whether the impact will occur within the 100-year flood plain.

<sup>&</sup>lt;sup>3</sup> Indicate the days, months or years the waterbody will be measurably impacted by the work. Enter "permanent" if applicable.

<sup>8</sup>f. For all activities identified in 8e., describe the source and nature of the fill material, amount (in cubic yards) you will use, and how and where it will be placed into the waterbody. [help]

culverts with a design that allows for better peak flow, debris, and aquatic species passage. The new channels would incorporate riparian corridor native planting restoration. This would avoid and minimize impacts to water quality by stabilizing the disturbed soils while also restoring the drainage to a higher quality riparian habitat. This work would restore approximately 900+/- linear feet of tributary channel.

#### Terrell Creek Bridge Construction (Station 209+00):

The bridge structure at Terrell Creek would be a full span structure, requiring no piers or pilings within the channel. A new bridge of the same design may be installed on the existing main once the second bridge is constructed and operational.

Restoration activities for the existing bank and creek corridor may involve minor temporary activities related to the removal and rearranging of existing riprap rock and widening of the constricted channel immediately below the bridges based on discussions on-site with Jeffrey Kamps, Habitat Manager, WDFW.

**8g.** For all excavating or dredging activities identified in 8e., describe the method for excavating or dredging, type and amount of material you will remove, and where the material will be disposed. [help]

#### Station 0+00 Tributary to California Creek Culvert Extension:

300 CY would be excavated using excavators and/or backhoes to prepare the site for the culvert extension process. Excavated materials would be replaced as appropriate for bedding/support of the new culverts. Excess materials would be used in the construction of the rail grade in non-support areas.

#### Station 45+00 California Creek Channel Restoration Related to New Bridge:

4,000 CY would be removed using excavators and backhoes. Excess materials would be used as part of the project construction if acceptable, or removed to an approved offsite upland areas and revegetated.

#### Station 84+00 Tributaries to California Creek Channel Drainage/Culvert Restoration:

2,000 CY would be removed using excavators and backhoes. Excess materials would be used as part of the project construction if acceptable or removed to approved offsite, in upland areas and revegetated.

### **Station 209+00 Terrell Creek Bridge Construction:**

Minor amounts of material would be excavated at the bridge abutments with an excavator to increase the channel cross section to its historic width. Cranes would be used to set the bridge spans. Other minor support equipment such as service trucks and material deliver railcars would be used as well. Excavated material is expected to be usable in the construction of the rail grade. All disturbed areas would be graded and contoured to allow for successful stabilization via seeding/mulching and planting.

#### Part 9-Additional Information

Any additional information you can provide helps the reviewer(s) understand your project. Complete as much of this section as you can. It is ok if you cannot answer a question.

Agency Name	Contact Name	Phone	es on this project, list them below. [help]  Most Recent  Date of Contact
WA Dept of Fish & Wildlife	Jeffrey Kamps	(360) 466-4345 ext 271	Email rcvd 5/16/11 after 5/11/11 site visit.
WA Dept of Ecology	Susan Meyer	(425) 649-7168	Personal Communication at ORA Map Team/GPT Meeting, 5/12/11 in Lacey, WA
Dept. of Army, Corps of Engineers, Seattle Reg. Dist.	Randel Perry	(360) 734-3156	Conference call on 7/14/11 with BNSF & JLP-E

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<ul> <li>9b. Are any of the wetlands or waterbodies identified in Part 7 or Part 8 on the Washington Department of Ecology's 303(d) List? [help]</li> <li>If yes, list the parameter(s) below.</li> <li>If you don't know, use Washington Department of Ecology's Water Quality Assessment tools at:</li> </ul>
http://www.ecy.wa.gov/programs/wq/303d/.  Yes No
Portions of California Creek within the project work limits: Bioassesment; Fecal Coliform; Dissolved Oxygen Terrell Creek is not listed on the current, EPA approved 303(d) list.
9c. What U.S. Geological Survey Hydrological Unit Code (HUC) is the project in? [help]  • Go to http://cfpub.epa.gov/surf/locate/index.cfm to help identify the HUC.
HUC 17110004 - Nooksack Watershed
9d. What Water Resource Inventory Area Number (WRIA #) is the project in? [help]  Go to http://www.ecy.wa.gov/services/gis/maps/wria/wria.htm to find the WRIA #.
WRIA 1 – Nooksack River
9e. Will the in-water construction work comply with the State of Washington water quality standards for turbidity? [help]  • Go to http://www.ecy.wa.gov/programs/wq/swqs/criteria.html for the standards.
⊠ Yes □ No □ Not applicable
<ul> <li>9f. If the project is within the jurisdiction of the Shoreline Management Act, what is the local shoreline environment designation? [help]</li> <li>If you don't know, contact the local planning department.</li> <li>For more information, go to: http://www.ecy.wa.gov/programs/sea/sma/laws_rules/173-26/211_designations.html.</li> </ul>
☐ Rural ☐ Urban ☐ Natural ☐ Aquatic ☐ Conservancy ☒ Other - Within the project work corridor, neither California nor Terrell Creeks have been designated.
9g. What is the Washington Department of Natural Resources Water Type? [help]  • Go to http://www.dnr.wa.gov/BusinessPermits/Topics/ForestPracticesApplications/Pages/fp_watertyping.aspx for the Forest Practices Water Typing System.
☐ Shoreline ☐ Fish [California & Terrell Creeks]
Non-Fish Perennial ⊠ Non-Fish Seasonal [Other noted drainages within work corridor, exceptor certain tributaries to California Creek, WADNR Water Type Maps)]
<ul> <li>9h. Will this project be designed to meet the Washington Department of Ecology's most current stormwate manual? [help]</li> <li>If no, provide the name of the manual your project is designed to meet.</li> </ul>
⊠ Yes □ No
Name of manual: 2005 Stormwater Management Manual for Western Washington, Volumes I thru Publication Number: 05-10-029, printed/published in April 2005; plus current corrections (available of line via http://www.ecy.wa.gov/programs/wq/stormwater/manual.htm)
9i. If you know what the property was used for in the past, describe below. [help]
The project work property has been a railroad right of way for over thirty years.

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9j. Has a cultural resource (archaeological) survey bee	n performed on the project area? [help]
<ul> <li>If yes, attach it to your JARPA package.</li> </ul>	
∑ Yes ☐ No	
<b>9k.</b> Name each species listed under the federal Endang project area or might be affected by the proposed v	
<ul> <li>USFWS Listed Species for Whatcom County, Updated 12/15//</li> <li>Bull trout (Salvelinus confluentus) - Coastal-Puge</li> <li>Canada lynx (Lynx canadensis) [No Effect]</li> <li>Gray wolf (Canis lupus) [No Effect]</li> <li>Grizzly bear (Ursus arctos = U. a. horribilis) [No Effect]</li> <li>Marbled murrelet (Brachyramphus marmoratus)  </li> <li>Northern spotted owl (Strix occidentalis caurina) [No Effect]</li> </ul>	et Sound DPS [No Effect]  [ffect] [No Effect]
NOAA Fisheries Listed Fish Species in the Project Vicinity, a Department of Fish & Wildlife Priority Habitat Species Data : WDFW habitat manager (Jeffrey Kamps, Whatcom County) l	Search Request, StreamNet online data research, and
<ul> <li>Coho Salmon (Oncorhynchus kisutch) [Species of CAffect]</li> <li>Steelhead Trout (Oncorhynchus mykiss) [Threaten</li> <li>[Note bold text denotes USFWS &amp; NMFS listed species with</li> </ul>	ed: May Affect, but Not Likely to Adversely Affect]
Action Area and expected effect, upon final EIS/Biological A	• • • • • • • • • • • • • • • • • • • •
<b>9I.</b> Name each species or habitat on the Washington De Habitats and Species List that might be affected by the	proposed work. [help]
These are the species and habitats identified for Whatcom County. developed using the distribution maps found in the Priority Habitat	
(see http://wdfw.wa.gov/conservation/phs/).	and Species (1 113) Lise
** Denotes potential for habitat and species presence within Project	- I
All other WDFW, Whatcom County Listed Species are <u>not applicab</u>	2 0
HABITATS:	BIRDS:
<ul> <li>Biodiversity Areas &amp; Corridors</li> <li>Old-Growth/Mature Forest</li> </ul>	<ul> <li>Marbled Murrelet</li> <li>** Western grebe</li> </ul>
** Riparian	** Great Blue Heron
** Freshwater Wetlands	** Cavity-nesting ducks: (Wood Duck, Barrow's
** Instream	Goldeneye, Common Goldeneye, Bufflehead, Hooded
Snags and Logs	Merganser)
FISH:	** Waterfowl Concentrations
<ul> <li>Bull Trout/ Dolly Varden</li> </ul>	** Bald Eagle
<ul> <li>Chinook Salmon</li> </ul>	** Peregrine Falcon
• Chum Salmon	• Spotted Owl
** Coho Salmon	Vaux's Swift     ** Plack hasked Woodnesker
Pink Salmon     Painkany Trans	<ul> <li>** Black-backed Woodpecker</li> <li>** Pileated Woodpecker</li> </ul>
<ul> <li>Rainbow Trout</li> <li>** Steelhead/ Inland Redband Trout</li> </ul>	** Purple Martin

AMPHIBIANS:

Western Toad

# Part 10-SEPA Compliance and Permits

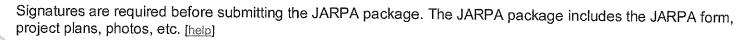
Use the resources and checklist below to identify the permits you are applying for.

- Online Project Questionnaire at <a href="http://apps.ecy.wa.gov/opas/">http://apps.ecy.wa.gov/opas/</a>.
- Governor's Office of Regulatory Assistance at (800) 917-0043 or <a href="mailto:help@ora.wa.gov">help@ora.wa.gov</a>.
- For a list of agency addresses to send your application, click on the "where to send your completed JARPA" at http://www.epermitting.wa.gov.

10a. Compliance with the State Environmental Policy Act (SEPA). (Check all that apply.) [help]  • For more information about SEPA, go to <a href="www.ecy.wa.gov/programs/sea/sepa/e-review.html">www.ecy.wa.gov/programs/sea/sepa/e-review.html</a> .
☐ A copy of the SEPA determination or letter of exemption is included with this application.
A SEPA determination is pending with (lead agency). The expected decision date is
☐ I am applying for a Fish Habitat Enhancement Exemption. (Check the box below in 10b.) [help]
☐ This project is exempt (choose type of exemption below). ☐ Categorical Exemption. Under what section of the SEPA administrative code (WAC) is it exempt?
Other:
SEPA is pre-empted by federal law.
10b. Indicate the permits you are applying for. (Check all that apply.) [help]
LOCAL GOVERNMENT
Local Government Shoreline permits: Not Applicable  Substantial Development Conditional Use Variance  Shoreline Exemption Type (explain):
Other city/county permits:
☐ Floodplain Development Permit ☐ Critical Areas Ordinance
STATE GOVERNMENT
Washington Department of Fish and Wildlife:  Hydraulic Project Approval (HPA)  Fish Habitat Enhancement Exemption
Washington Department of Ecology:
☑ Section 401 Water Quality Certification
Washington Department of Natural Resources:
Aquatic Resources Use Authorization
FEDERAL GOVERNMENT
United States Department of the Army permits (U.S. Army Corps of Engineers):
⊠ Section 404 (discharges into waters of the U.S.)     ☐ Section 10 (work in navigable waters)
United States Coast Guard permits:
☐ General Bridge Act Permit ☐ Private Aids to Navigation (for non-bridge projects)

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# Part 11-Authorizing Sig lures



11a. Applicant Signature (required) [help]

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities, and I agree to start work only after I have received all necessary permits.

I hereby authorize the agent named in Part 3 of this application to act on my behalf in matters related to this application. (initial)

By initialing here, I state that I have the authority to grant access to the property. I also give my consent to the permitting agencies entering the property where the project is located to inspect the project site or any work related to the project. (initial)

Glen M. Gaz, Manager Engineering, BNSF Railway Applicant Printed Name pplicant Signature

Date

#### 11b. Authorized Agent Signature [help]

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities and I agree to start work only after all necessary permits have been issued.

Pierre Bordenave, JLP-Environmental
Authorized Agent Printed Name

Authorized Agent Signature

Date

**11c.** Property Owner Signature (if not applicant). [help]

Not required if project is on existing rights-of-way or easements.

I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.

Property Owner Printed Name

Property Owner Signature

Date

18 U.S.C §1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than 5 years or both.

If you require this document in another format, contact The Governor's Office of Regulatory Assistance (ORA). People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341.

ORA publication number: ENV-019-09

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