WASHINGTON STATE DEPARTMENT OF
Natural Resources
Peter Goldmark - Commissioner of Public Lands

Application for Use of State-owned Aquatic Lands

Applicant Name:	Quinault Indian Nation
County:	Grays Harbor County
Water Body:	Upper Quinault River
Type of Authorization - Use:	Pending – Log Jam
Authorization Number:	Pending
Term:	Pending
Description:	This agreement will allow the use of State-owned aquatic lands for the sole purpose of log jam installation and habitat restoration. It is located in Quinault River, in Grays Harbor County, Washington.

Date of Public Notice: 7/25/11

RECEIVED 7/21/11

WASHINGTON STATE DEPARTMENT OF
Natural Resources
Peter Goldmark - Commissioner of Public Lands

APPLICATION FOR AUTHORIZATION TO USE STATE-OWNED AQUATIC LANDS

The Applicant may not begin work on the project area until the State Department of Natural Resources (DNR) grants a Use Authorization.

I. SUBMISSION OF APPLICATION

DNR will review your application and post it on the DNR Leasing and Land Transactions website as public information. **Instructions:**

- Fill out the application by computer or by hand in blue or black ink.
- Send the completed form to the appropriate district office in the table below.
- **Enclose a $25.00 non-refundable application processing fee with the application.** This fee is not required for local, state, and other government agencies.
- DNR will notify applicants in writing if the application is accepted for further review, and may reject the application at any time prior to the signed execution of a use authorization.
- **Your project may require regulatory permits. Please do not apply for regulatory permits until you have discussed your proposal with your designated land manager.**

For additional information, contact the office that serves your county:

Aquatic Lands Offices	Counties Served
Rivers District 601 Bond Road PO Box 280 Castle Rock, WA 98611-0280 (360) 577-2025	All of Eastern Washington, Grays Harbor, and Pacific counties Thurston (fresh water only), Lewis, Wahkiakum, Cowlitz, Clark, and Skamania counties
Orca Straits District 919 N Township Street Sedro Woolley, WA 98284-9384 (360) 856-3500	Island, Skagit, Snohomish, San Juan, and Whatcom counties
Orca Straits District 5310 Eaglemount Rd Chimacum, WA 98325-9720 (360) 732-0934	Jefferson and Clallam counties
Shoreline District 950 Farman Avenue N Enumclaw, WA 98022-9282 (360) 825-1631	King, Pierce, Kitsap, Thurston (marine waters), and Mason counties

FOR OFFICIAL USE ONLY Support staff: Application Fee Received ☑ Waived Date: 7/21/11

Land Manager: ☑ New Application ☐ Renewal Application Land Manager Initials BS

Land Manager: Type: (20, 21, 22, 23, 31, 51) NaturE Use Code

Land Records: New Application Number ; Trust ; County ; AQR Plate No.

II. APPLICANT INFORMATION - person or entity responsible for the project

Date of Application: 7/20/2011

Name of the person or entity that the Use Authorization should be issued to:
Quinault Indian Nation (QIN)

Applicant's Address: PO Box 189	City: Taholah	State: WA	Zip Code: 98587
Telephone: 360-276-8211	Fax: 360-276-4682	E-mail: barmstro@quinault.org	

Department of Revenue Tax Registration Number (Unified Business Identifier) **Required**: 91-0760952

Which of the following applies to Applicant? Check one and attach the written authority - bylaws, power of attorney, etc.

Corporation ☐ State of Registration:	Limited Partnership ☐ State of Registration:	General Partnership ☐ State of Registration:
Sole Proprietorship ☐	Marital Community ☐ Spouse:	Government Agency ☐

Other ☒ (Please Explain) Native American Indian Tribe

Has DNR previously authorized this site or is it currently under an agreement with DNR?
Yes ☐ Agreement Number: No ☒ Don't Know ☐

III. AGENT INFORMATION - Person authorized to represent the applicant about the project, if applicable

Agent's Name and Organization: Not Applicable

Agent's Relationship to Applicant:

Address:	City:	State:	Zip Code:
Telephone:	Fax:	E-Mail:	

Department of Revenue Tax Registration Number (Unified Business Identifier) is **Required**:

Which of the following applies to Agent?
Check one and attach written authority to sign - bylaws, power of attorney, etc.

Corporation ☐ State of Registration:	Limited Partnership ☐ State of Registration:	General Partnership ☐ State of Registration:
Sole Proprietorship ☐	Marital Community ☐	Government Agency ☐

	Spouse:	
Other ☐ (Please Explain)		
IV. LOCATION		
On what body of water is the state property? Quinault River WRIA#21.0398	County Grays Harbor	Government Lot: 000000260
	Section: 2, 9, and 10	Township: 23
	Range: 9	East ☐ or West ☒
Note: DNR requires a legal property survey before they approve a use authorization. You do not need to furnish a survey now. The DNR survey requirements are included on this form.		
Physical description of Project Area (For example, marsh, tideflat adjacent to the Chehalis River, etc.): The Project Area is located in the riverbed and gravel bars of the Quinault River within the ordinary high water mark owned and regulated as aquatic lands by the State of Washington.		
Name of owner(s) of uplands, shorelands, and/or tidelands shoreward and adjacent to the Property: Walter Devaney; Bovela Viking, LLC (Michael Stimac); Vernon Wilson Trust; LLC, Hubble Family, LLC; Darth Roket; John and Sandy Mayton; Jack and Alicia Oneil; John Dellino; Daniel Chandler; Kellie Daniels; John Olson; Kenneth and Janice Pumphrey; Deborah McConnell; David and Carrie Hughes; Sandra Camus; Eugen and Robin Barrow; Falling Land Acquisition, LLC C/O Jeremy Hawkins; Jerry Long; USA, National Park Service (Olympic National Park, ONP); U.S. Forest Service (Olympic National Forest, ONF). See Exhibit A for landowner information and Parcel numbers.		
Address:	City:	State: / Zip Code:
Phone Number:	Fax Number	E-mail:
Note: DNR may require proof of ownership, or authorization to use the adjacent tideland, shoreland, or upland property, except for established Harbor Areas.		
Attach a copy of the deed if you own the adjacent upland property. County parcel numbers for adjacent upland, and/or tideland properties: See Exhibit A for county parcel numbers.		

V. USE OF PROPERTY

Describe the proposed use of the Property in detail:
The Property will be used for salmon habitat restoration, floodplain forest restoration, and access for monitoring and maintenance of the proposed project. The guiding document for restoration of the upper Quinault River and the proposed project is the *Salmon Habitat Restoration Plan – Upper Quinault River* (Quinault Indian Nation 2008). The proposed project area is located from upper Quinault River mile 1.6 to 3.4 (1.8 miles) with an area of approximately 210 acres. The Quinault Indian Nation (QIN) proposes to build 61 engineered wood structures (7 Groups) consisting of 38 engineered logjams, 21 piling array floodplain fences, and reinforcement of 2 natural logjams (Exhibit B, Figure 1) that shall be completed using a phased construction approach beginning in summer of 2011. Large volumes of mobile large wood debris (LWD) are present in the Quinault River (U.S. Bureau of Reclamation 2005). LWD on the gravel bars in the project area shall be incorporated into the local structures when possible and stabilized to supplement the wood materials brought in by the Quinault Indian Nation. Only LWD identified, approved, and marked for use by the QIN salmon resources scientist, WDFW Habitat Biologist, and project geomorphologist for the project engineer overseeing construction shall be used.

Phase 1 construction consists of activities necessary to build 9 structures including 4 engineered logjams (numbers 35, 36, 37, and 49), 5 piling array floodplain fences (numbers 48, 50, 53, 55, and 57); and reinforcement of 1 natural logjam (number 51) (Exhibit B, Figure 2). Access to the project area will be from two locations along the south (left) bank of the river through private property. Access points are located near river miles 2.1 and 2.8 from two roads that lead to the edge of the left riverbank. One river crossing will be required near river mile 1.9 to reach the north side of the low flow river channel and another across a side channel near river mile 2.8 to reach the south side. One road will be constructed on an adjacent property by clearing of brush and red alder then supplemented with weed free gravel or hog fuel for the road surface. The project also has a restoration planting element which includes planting of conifer, black cottonwood, red alder, and willow proposed to begin in spring of 2012 or 2013.

Project Timeline
All activities and timelines for completion of the proposed project are contingent upon suitable river conditions, overcoming logistical constraints, and availability of funding in a given year. Project activities on the state property include 1) construction of engineered logjams, piling array floodplain fencing, and reinforcement of natural logjams for a period of 5 years beginning in 2011; 2) restoration planting of conifer, black cottonwood, red alder, and willow on the structures, gravel bars, and islands for a period of 5 years beginning in the spring of 2012 or 2013; 3) conducting project effectiveness monitoring for a minimum period of 12 years beginning in 2012, and 4) performing maintenance of the structures and restoration plantings as necessary for a period of 12 years beginning in 2012.

The Quinault Indian Nation contracted with GeoEngineers, Inc. to design the project. GeoEngineers, Inc. staff included a geomorphologist, geotechnician, hydrologist, fish biologist, GIS specialist, and professional engineer. GeoEngineers worked with the Quinault Indian Nation's fisheries scientist to conduct a geomorphic site assessment, risk-benefit analysis, develop treatment objectives, a site plan, and complete engineering designs following Quinault Indian Nation project development procedures. The project objectives are as follows:

Overall Project Objectives:

1) Achieve habitat restoration objectives within the project reach by a) protecting exiting high value salmonid and wildlife habitat areas (Straughn and Taiber Sloughs), b) slow rates of channel migration, high flow (unvegetated channel) corridor expansion, and erosion of surrounding terraces, c) promote stability of the low flow river channel and subsequent development of side channels and forested islands, and d) promote the development of mature floodplain forests.
2) Reduce erosional forces of the upper Quinault River along the left bank near the South Shore Road and private properties

Structure Group Objectives:

Group 1:

- Discourage the low flow channel from being in direct contact with the Finley Creek outlet channel and alluvial fan deposits that are presently promoting the development of the point par at river mile 2.1 and erosional processes along the left bank near the South Shore Road.
- Promote the development of a side channel area behind the proposed structure locations.

Group 2:

- Promote an on-going, natural channel avulsion process at river mile 2.8 across a narrow remnant island.
- Discourage the low flow channel from being in direct contact with the Finley Creek outlet channel and alluvial fan deposits that are presently promoting the development of the point bar at river mile 2.1 and erosional processes along the left bank near the South Shore Road.

Group 3:

- Encourage the low flow channel to flow across the inside of the point bar at river mile 2.1 and within an existing high flow corridor from river mile 2.6 to 1.9 to reduce the hydraulic forces causing erosion of the left bank near the South Shore Road.
- Protect the inlet locations to Taiber Slough.

Group 4:

- Promote sediment deposition and development of mature floodplain forest to reestablish a riparian buffer in the vicinity of the left bank erosion area near the South South Shore Road.
- Promote the development of a side channel area behind the proposed structure locations.

Group 5:

- Promote sediment deposition and the development of mature floodplain forest in the vicinity of river mile 1.8.
- Promote the development of a side channel behind the proposed structure locations.

Group 6:

- Provide long-term protection to the left bank near the South Shore Road and floodplain terrace along the present erosion area following deposition of sediment and shift of the low flow channel northward.

Group 7:

- Protect the inlet location to Straughn Slough

Do you plan to sublease the Property? Yes ☐ No ☒ If yes, submit a copy of the sublease.

Do you know the current and past uses of the site? Please describe them here.
The current site is within the ordinary high water mark of the Quinault River. Current uses are for recreation. Prior to erosion the previously existing surface was pasture and riparian forest land in the floodplain of the river.

Do you know of any toxic or hazardous substances on the site or past situations that could have caused contamination? Yes ☐ No ☒ If yes, please explain:

VI. IMPROVEMENTS – additions within, on, or attached to the land, or anything considered a fixture (RCW 79.105.060(6)). Examples include: pilings, dolphins, piers, wharves, buildings, pipelines and cables, and structures for bridges

What improvements currently exist on the site? DNR may require photos.
There are not any existing improvements on the site as the project area is within the active river channel and ordinary high water mark of the river.

If there are improvements currently on the site, describe their condition.
Not Applicable

Will you remove or remodel any of the existing improvements? Yes ☐ No ☐

Do you plan to construct any improvements? If yes, please describe:
Yes. The Quinault Indian Nation proposes to build 61 wood structures (7 Groups) consisting of 38 engineered logjams and 21 piling array floodplain fences; and reinforcement of 2 natural logjams. The project also has a restoration planting element which includes planting of conifer, black cottonwood, red alder, and willow. Phase 1 construction consists of building 9 structures including four engineered logjams, five piling array floodplain fences, and reinforcing one natural logjam.

Is there any fill material on the site? Yes ☐ No ☒ If yes, please describe:

Describe any habitat mitigation any permitting agency requires of you and where on this project it will occur:
The structures proposed for this project provide valuable benefits to fish and wildlife habitat. The structural and hydraulic diversity that the proposed structures provide create habitat for a multitude of salmonid species applicable for all life stages. In the short term existing spawning areas and rearing habitats may shift or scour while new habitats become established and the channel adjusts to the structures. Because they are so valuable to fish and wildlife the structures themselves are considered self-mitigating for these short term impacts. All construction shall occur during the summer low flow period and on dry gravel bars so no inwater excavation or construction is needed, thereby avoiding direct impacts to habitat and water quality during construction. Impacts to existing vegetation shall be minimized and mitigated for by replanting with appropriate vegetation (willow, red alder, black cottonwood, and conifer) as necessary. The project is designed so that that the long term habitat restoration benefits this project shall provide far outweigh any short term impacts.

One wetted main low flow river channel crossing shall be required near river mile 1.9 to install and remove a temporary bridge to reach construction sites on the north side of the river. During temporary bridge installation and removal short term turbidity impacts to water quality may occur but shall not

exceed permitted levels. All other access routes to reach construction sites across wet channels shall be made using temporary bridges installed and removed without contact with the water.

Conservation and mitigation measures shall be identified in the permits by Federal and State agencies for this project and all access, equipment use, water management, spill management, and erosion/sediment control plans shall apply. The Quinault Indian Nation and its contractors will complete the project in compliance with all permits and conservation/mitigation measures.

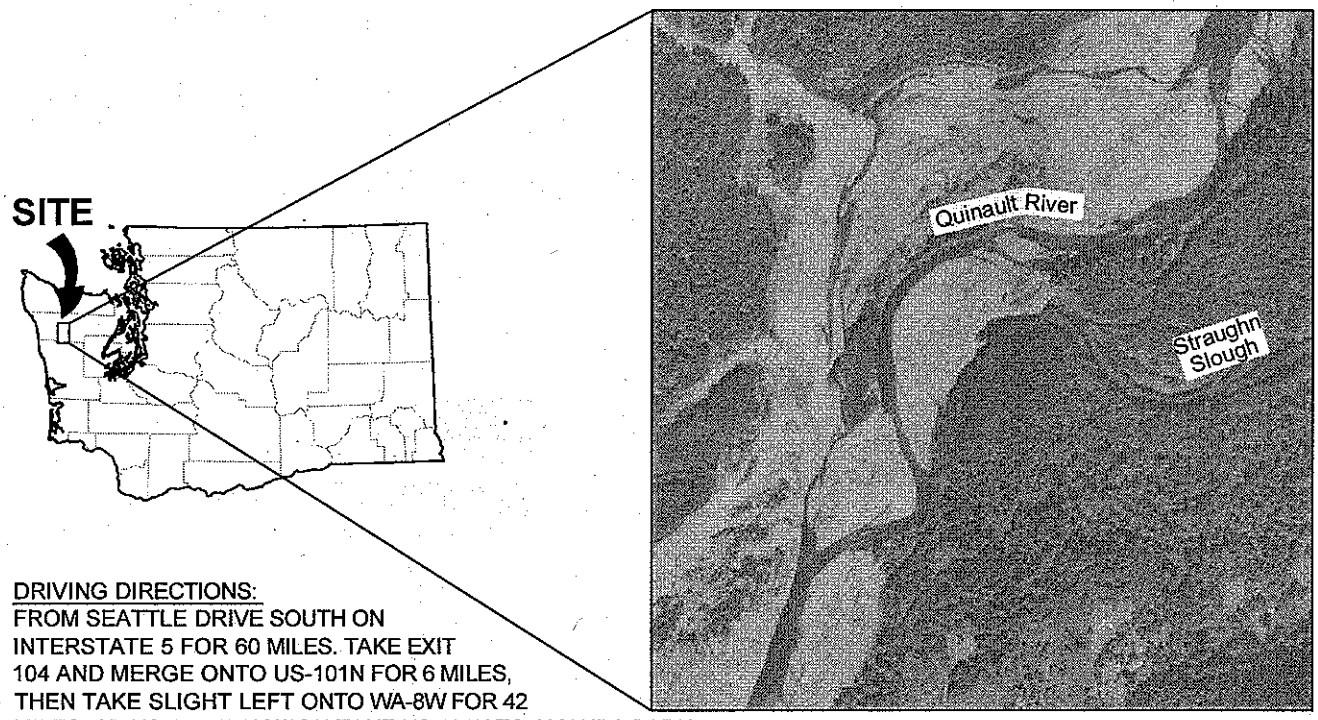
All answers and statements are true and correct to the best of my knowledge.

Applicant name (please print): Fawn Sharp	Title: President
Applicant Signature:	Date: 7/20/2011
Authorized Agent name (please print): Not Applicable	Title:
Authorized Agent signature:	Date:

For the Applicant's convenience, the following pages 5 through 8 contain some information on potential permit and survey requirements.

VICINITY MAP

UPPER QUINAULT RIVER RESTORATION - PROJECT AREA 5
PHASE 1 PERMIT PLANS



PROJECT AREA 5 VICINITY

DRIVING DIRECTIONS:
FROM SEATTLE DRIVE SOUTH ON INTERSTATE 5 FOR 60 MILES. TAKE EXIT 104 AND MERGE ONTO US-101N FOR 6 MILES, THEN TAKE SLIGHT LEFT ONTO WA-8W FOR 42 MILES. AT US 101 JUNCTION TAKE US 101N TO AMANDA PARK FOR 37 MILES. BEFORE ENTERING AMANDA PARK TURN RIGHT ONTO SOUTH SHORE ROAD FOR 5.8 MILES AND PARK ON THE LEFT NEAR A CABLED LOG REVETMENT. PROJECT AREA 5 PHASE 1 CONSTRUCTION WILL OCCUR UPSTREAM OF THIS PARKING AREA ON DRY GRAVEL BARS WITHIN THE ACTIVE CHANNEL AREA.

GEOENGINEERS, INC.
R. LEIF EMBERTSEN, PE
600 DUPONT
BELLINGHAM, WA 98225
P 360-347-1510
F 360-647-5044

QUINAULT INDIAN NATION (QIN)
BILL ARMSTRONG
PO BOX 189
TAHOLAH, WA 98587
P 360-276-8215

Reference: Image Source is ESRI World Imagery, NAIP 2009.

SHEET INDEX

NUMBER	SHEET TITLE
1	COVER SHEET
2	LEGEND
3	GENERAL NOTES
4	RESTORATION PLAN
5	TYPE I ENGINEERED LOG JAM (ELJ) DETAIL
6	TYPE III ENGINEERED LOG JAM (ELJ) DETAIL
7	NATURAL LARGE WOOD DEBRIS (LWD) STABILIZATION DETAIL
8	ENGINEERED LOG JAM NOTES
9	TEMPORARY ACCESS ROAD PLAN
10	TEMPORARY EROSION AND SEDIMENT CONTROL NOTES
11	ACCESS AND EQUIPMENT NOTES
12	TESC DETAILS
13	TEMPORARY BRIDGE DETAILS
14	TEMPORARY BRIDGE DETAILS
15	TEMPORARY ACCESS ROAD DETAILS

PURPOSE: RIVER RESTORATION PROPERTY OWNER: SEE APPLICATION FOR PROPERTY OWNERS:	COVER SHEET LATITUDE: 47°29'47.60N LONGITUDE: 123°49'10.552W DATUM: NAD83 UPPER QUINAULT RIVER PROJECT AREA 5 PHASE 1 PERMIT PLANS	PURPOSE: RIVER RESTORATION CITY OF: QUINAULT COUNTY OF: GRAYS HARBOR STATE OF: WASHINGTON CREATED BY: GEOENGINEERS SHEET: 1 OF 15 DATE JULY 11, 2011

OVERALL PROJECT OBJECTIVES

1. Reduce erosional forces from the Upper Quinault River along the south shore road and private properties
2. Achieve habitat restoration objectives within the project reach
   a. Protect existing high value habitat areas (Straughn and Taber Slough)
   b. Slow rates of channel migration, high flow corridor expansion, and erosion into terrace property
   c. Promote stability of the low flow channel and development of forested islands
   d. Promote the development of mature floodplain forests

STUCTURE GROUP OBJECTIVES

GROUP1
- Discourage the low flow channel from being in direct contact with the Finley Creek outlet channel and alluvial fan deposits that are presently promoting the development of the point bar at river kilometer (RK) 3.5 and erosional processes along South Shore Road.
- Promote the development of a side channel area behind the proposed structure locations.

GROUP 2
- Promote an on-going channel avulsion process RK 4.5 across a forested island.
- Discourage the low flow channel from being in direct contact with the Finley Creek outlet channel and alluvial fan deposits that are presently promoting the development of the point bar at river kilometer (RK) 3.5 and erosional processes along South Shore Road.

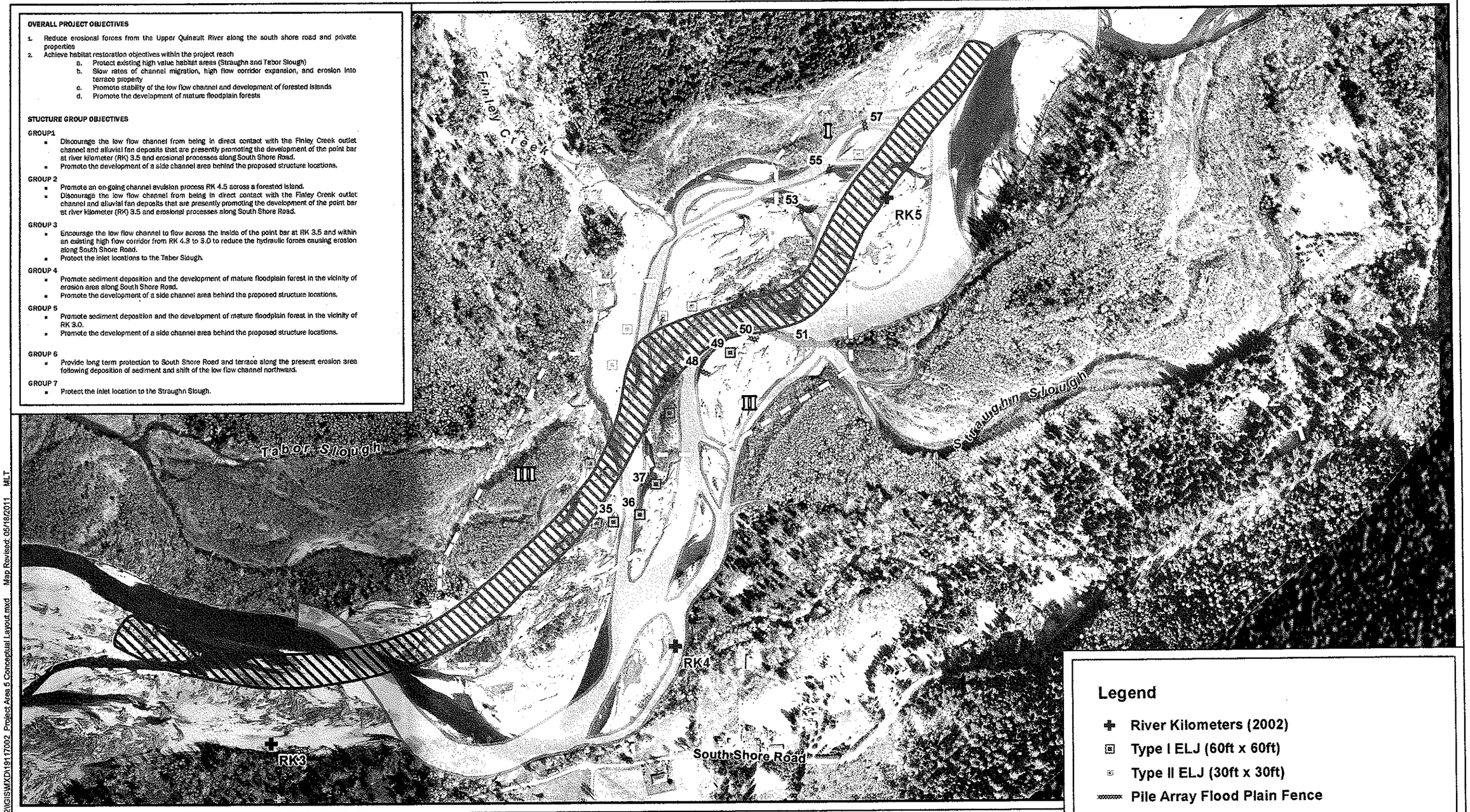
GROUP 3
- Encourage the low flow channel to flow across the inside of the point bar at RK 3.5 and within an existing high flow corridor from RK 4.3 to 3.0 to reduce the hydraulic forces causing erosion along South Shore Road.
- Protect the inlet locations to the Taber Slough.

GROUP 4
- Promote sediment deposition and the development of mature floodplain forest in the vicinity of erosion area along South Shore Road.
- Promote the development of a side channel area behind the proposed structure locations.

GROUP 5
- Promote sediment deposition and the development of mature floodplain forest in the vicinity of RK 3.0.
- Promote the development of a side channel area behind the proposed structure locations.

GROUP 6
- Provide long term protection to South Shore Road and terrace along the present erosion area following deposition of sediment and shift of the low flow channel northward.

GROUP 7
- Protect the inlet location to the Straughn Slough.



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Project Area 5 Conceptual Layout Summer 2011 Construction Upper Quinault River	Quinault Indian Nation Quinault, Washington	GeoEngineers

600 0 600
Feet

Legend
- River Kilometers (2002)
- Type I ELJ (60ft x 60ft)
- Type II ELJ (30ft x 30ft)
- Pile Array Flood Plain Fence
- Reinforced Existing LWD Group
- Idealized Post Project Low Flow Channel
- 2011 Low Flow Channel

Notes:
1. The locations of all features shown are approximate. 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication. 3. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without permission.
Data Sources: Aerial; Quinault Nation, 2009. State Plane Washington North FIPS 4601 (Feet), North American Datum 1983. North arrow oriented to grid north.

Figure 2. Site plan for Project Area 5 construction in summer of 2011.

Survey

OVERALL PROJECT OBJECTIVES

1. Reduce erosional forces from the Upper Quinault River along the south shore road and private properties
2. Achieve habitat restoration objectives within the project reach
   a. Protect existing high value habitat areas (Straughn and Tabor Slough)
   b. Slow rates of channel migration, high flow corridor expansion, and erosion into terrace property
   c. Promote stability of the low flow channel and development of forested islands
   d. Promote the development of mature floodplain forests

STUCTURE GROUP OBJECTIVES

GROUP1
- Discourage the low flow channel from being in direct contact with the Finley Creek outlet channel and alluvial fan deposits that are presently promoting the development of the point bar at river kilometer (RK) 3.5 and erosional processes along South Shore Road.
- Promote the development of a side channel area behind the proposed structure locations.

GROUP 2
- Promote an on-going channel avulsion process RK 4.5 across a forested island.
- Discourage the low flow channel from being in direct contact with the Finley Creek outlet channel and alluvial fan deposits that are presently promoting the development of the point bar at river kilometer (RK) 3.5 and erosional processes along South Shore Road.

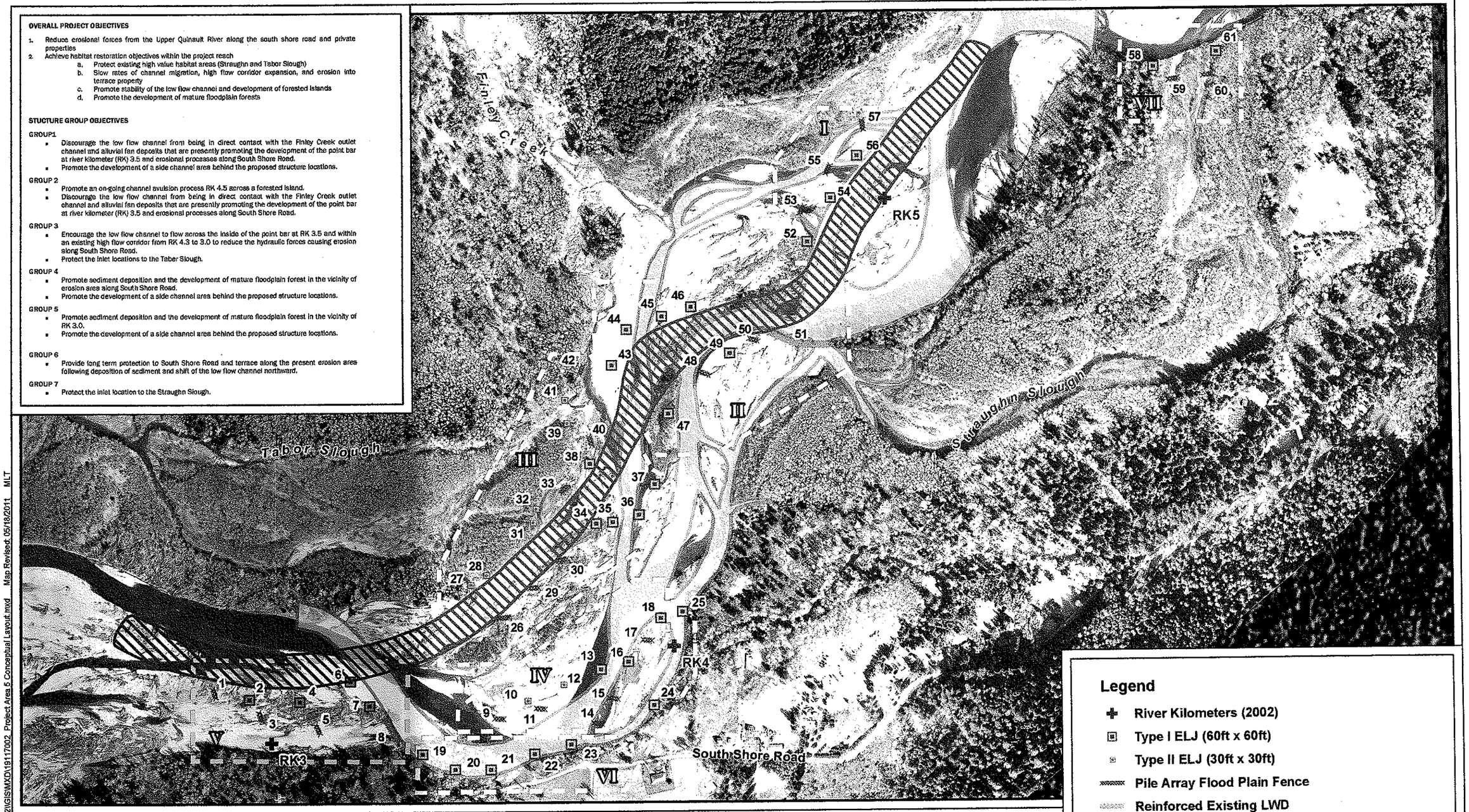
GROUP 3
- Encourage the low flow channel to flow across the inside of the point bar at RK 3.5 and within an existing high flow corridor from RK 4.3 to 3.0 to reduce the hydraulic forces causing erosion along South Shore Road.
- Protect the inlet locations to the Taber Slough.

GROUP 4
- Promote sediment deposition and the development of mature floodplain forest in the vicinity of erosion area along South Shore Road.
- Promote the development of a side channel area behind the proposed structure locations.

GROUP 5
- Promote sediment deposiiton and the development of mature floodplain forest in the vicinity of RK 3.0.
- Promote the development of a side channel area behind the proposed structure locations.

GROUP 6
- Provide long term protection to South Shore Road and terrace along the present erosion area following deposition of sediment and shift of the low flow channel northward.

GROUP 7
- Protect the inlet location to the Straughn Slough.



Legend
- River Kilometers (2002)
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- Type II ELJ (30ft x 30ft)
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- Idealized Post Project Low Flow Channel
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Project Area 5 Conceptual Layout Upper Quinault River	Quinault Indian Nation Quinault, Washington	GeoEngineers

600 0 600
Feet

N W E S

Notes:
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Office: BAM Path: P:\19\19117002\GIS\MXD\19117002_Project Area 5 Conceptual Layout.mxd Map Revised: 05/18/2011 MLT

Figure 1. Conceptual site plan for the Project Area 5 restoration reach.