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

Application for Use of State-owned Aquatic Lands

Applicant Name:	**University of Washington, Applied Physics Laboratoroy**
County:	**King**
Water Body:	**Puget Sound**
Type of Authorization - Use:	**Right of Entry – Aquatic Scientific Buoy**
Authorization Number:	**23-084310**
Term:	**5 years**
Description:	**DNR plans to authorize the University of Washington, Applied Physics Laboratory to undertake a five year pilot project to monitor environmental conditions in Puget Sound, WA. The buoy will be located near Richmond Beach in approximately 90 meters of water and will be attached by three anchors on the seabed. It will house meteorological instruments, data collection electronics, solar panels, a wind generator, communications equipment, a radar reflector, equipment to monitor water quality and a Coast Guard approved navigation light.**

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
DOUG SUTHERLAND, **Commissioner of Public Lands**

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FEB 26 2009
DNR - SPS

APPLICATION FOR AUTHORIZATION TO USE STATE-OWNED AQUATIC LANDS

NO WORK CAN BE STARTED ON THE PROJECT AREA UNTIL A USE AUTHORIZATION HAS BEEN GRANTED BY THE DEPARTMENT OF NATURAL RESOURCES

I. SUBMISSION OF APPLICATION

Enclose a $25.00 non-refundable application processing fee with the application. (**This fee is not required for local, state, and other government agencies**). This application form will be reviewed by the Department of Natural Resources upon receipt at the address given below. Applicants will be notified in writing if the application will be accepted for further review. However, this application may be rejected at any time before signed execution of a use authorization.
APPLICATION MUST BE FILLED OUT IN BLUE OR BLACK PEN

Please send the completed application form to your region land manager at:

Department of Natural Resources
South Puget Sound Region
c/o Cindy Rathbone
950 Farman Ave. N.
Enumclaw, WA 98022

II. APPLICANT INFORMATION

Date of Application: February 20, 2009

Authorization to be Issued To (how name is to appear in the lease document): University of Washington/Applied Physics Laboratory

Applicant's Representative: Eric Boget

Relationship to Applicant: Applied Physics Laboratory Researcher

Address: 1013 NE 40th Street	City: Seattle	WA	Zip Code: 98105
Telephone: 206-685-1971	Fax: 206-543-6785	E-Mail: boget@apl.washington.edu	

FOR OFFICIAL USE ONLY Support staff: Application Fee Received JARPA Received Date: 3/4/09
Land Manager: New Application X Renewal Application Land Manager Initials CKR
Land Manager: Type: (20, 21, 22, 23, 31, 51)
Land Records: New Application Number 23-084310 Trust 15 ; County 17 ; AQR Plate No. TS17-061 Note 8

EN 3-11-20

II. APPLICANT INFORMATION cont'

Department of Revenue Tax *Registration Number (Unified Business Identifier) is **Required**: 178 019 988

Which of the following applies to Applicant (**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 ☐ Spouse:	Government Agency ☒

Other ☐ (Please Explain:)

Has the site use been authorized before or is it currently under lease? **Yes** ☐ Lease Number:
No ☐ **Don't Know** ☒

III. LOCATION

The Body of Water on which the state property is located: Puget Sound (47°-45.676'N 122°-23.833'W)	County in which the state property is located: King	Government Lot:
	Section: 11	Township: 26
	Range: 3	E ☒ or W ☐

Note: A legal property survey including the legal description and other information about the property is **required** to obtain a use authorization. WA DNR survey requirements are attached to this form. The survey plat will be attached to the lease/easement as Exhibit A. **DO NOT HAVE THIS SURVEY CONDUCTED UNTIL YOU HAVE BEEN NOTIFIED IN WRITING THAT THE APPLICATION HAS BEEN ACCEPTED FOR PROCESSING.**

Physical description of Project Area (For example, Marsh, Tideflat adjacent to the Chehalis River, etc.): Puget Sound (0.5 nautical miles waterward of the ordinary high water mark). The mooring will be located in 90 meters of water (MLLW).

Name of Owner(s) of Uplands, Shorelands, and/or Tidelands shoreward and adjacent to the Property: N/A

Address:	City:	State:	Zip Code:
Phone Number:	Fax Number	E-mail:	

Note: Except for property located within established Harbor Areas, proof of ownership, or authorization to use the adjacent tideland, shoreland, or upland property may be required. If the applicant is the owner of the adjacent land, attach a copy of the deed.

County Parcel No(s). for adjacent properties, upland, and/or adjacent tideland properties:

IV. USE OF PROPERTY

Describe, in detail, the proposed use of the Property:

Deploy an oceanographic mooring buoy in Puget Sound near Richmond Beach in approximately 90 meters of water. The primary function of the buoy is environmental monitoring including the collection of water quality and climate data. The mooring will consist of one surface buoy (~2m diameter toroid shape buoy with 2m high tower) attached to three anchors (1m diameter and 1100kg each) located on the seabed. The anchors are stretched out away from the buoy with approximately 120 degrees separation. The cables that attach the buoy to the anchors are each approximately 4 times the water depth. The buoy will have sampling equipment that is raised and lowered from the buoy to measure water quality. The buoy will also house meteorological instruments, data collection electronics, solar panels, wind generator, communications equipment, radar reflector and approved navigation light. The current proposal is for a 5 year deployment of the oceanographic mooring at this site.

Is or will the Property be subleased to another party? **Yes** ☐ **No** ☒
If yes, submit a copy of the sublease agreement.

What are the current and past uses of the site? Navigable waterway.

Do you have any knowledge of contamination of the site by toxic or hazardous substances, or of past uses or practices that might have lead to contamination by such substances? **Yes** ☐ **No** ☒
If so, please explain:

Do you know if any fill material has been placed on the property in question? **Yes** ☐ **No** ☒
If yes, please explain:

V. IMPROVEMENTS

Physical improvements are structures placed on the land that cannot be removed without damage to the land. Examples of such structures include: pilings, dolphins, piers, wharves, piling-supported buildings, structures built on fill or concrete foundations, buried pipelines and cables, and support structures for bridges.

What physical improvements currently exist on the site? (Photos may be required.) None.

If there are physical improvements currently on the site, who owns them? None.

If there are physical improvements currently on the site, describe their condition: None.

Which, if any, of the existing physical improvements will be removed, remodeled, or reconstructed? None.

Describe any physical improvements that the applicant is proposing to construct on the site: None.

Has any fill material been placed on the site? **Yes** ☐ **No** ☒
If Yes, please describe:

VI. LOCAL, STATE, AND FEDERAL REGULATORY PERMITS

Copies of all Government Regulatory Permits, or Permit Waivers Are Required Before Issuance of a DNR Use Authorization. Your project may require all or some of the following.

Please include the following permit applications, permits, or waivers with the application:

JARPA (Joint Aquatic Resource Permit Application) - This one form is used to apply for all of the following individual permits:

1. Section 10 Permit (Required by the US Army Corps of Engineers for any work in or affecting navigable waters, e.g., floats, docks, piers, dredging, pilings, bridges, overhead power lines.)
2. Shoreline Substantial Development, Conditional Use, Variance Permit or Exemption (Issued by Local Government, and is required for work or activity in the 100 year flood plain, or within 200 feet of the Ordinary High Water mark of certain waters; and which included any one of the following: dumping, drilling, dredging, filling, placement or alteration of structures or any activity which substantially interferes with normal public use of the waters.)
3. Hydraulic Project Approval (Required by the Department of Fish and Wildlife if the project includes work that will use, divert, obstruct, or change the natural flow or bed of any fresh or salt water of the state.)
4. Section 404 Permit (Required by the US Army Corps of Engineers if your project will discharge or excavate any dredged or fill material waterward of the Ordinary High Water mark or the Mean Higher High Tide Line in tidal areas.)
5. Section 401 Water Quality Certification (Required by the Department of Ecology if a Section 404 permit is required.)

NPDES (National Pollutant Discharge Elimination System Permit - Required by the Department of Ecology under delegated authority from the Federal Environmental Protection Agency for projects that include the discharge of fluid on or into surface water.

SEPA (State Environmental Policy Act) Checklist and Environmental Assessments - When you submit a permit application to any agency, if the project is not exempt, the lead agency will ask you to fill out an environmental checklist. Based on checklist answers and the reviewers knowledge of the project site, agency personnel will determine the types of impacts the project may have on the environment. The agency assessments may be the following forms: Determination of Nonsignificance, Determination of Significance, scoping documents, draft or final Environmental Impact Statements (EIS) or others prepared for the purpose of compliance.

Describe any habitat mitigation required by any of the permitting agencies identified above and identify where such mitigation is proposed to occur:

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

Applicant Name (please print): University of Washington/Applied Physics Laboratory	Title: Director, Office of Sponsored Programs
Applicant or Authorized Signature: Peggy Hartman	Date: 24 Feb. 2009

STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

REQUIREMENTS FOR RECORDS OF SURVEY FOR LEASES AND EASEMENTS

Records of Survey are required for easements and leases granted by the department for:

- • County roads
- • Highways
- • Easements across high value lands
- • Easements across transition lands
- Utilities
- $ • Upland leases
- Communication sites
- Other grants as determined by the department based upon site specific considerations
- Drainage or irrigation easements
- Railroads
- Aquatic land uses: exemptions are provided for recreational docks and mooring buoys per RCW 79.105.430 and for those permits issued as a Right of Entry

The applicant is responsible for:

- All costs and work associated with creating, submitting, revising and recording the Record of Survey
- Submitting a preliminary Record of Survey for review and approval by the department prior to approval of the agreement.
- Recording the final Record of Survey with the county auditor's office.
- Submitting a digital copy in AutoCAD.DWG or DXF (drawing exchange format) of the final survey.
- Submitting two full size copies and one 8 ½ X 11" copy and of the recorded survey including the auditor's recording information to the department.

A Record of Survey must:

1. **Be produced by a licensed surveyor.**
2. **Meet the requirements of Title 58 RCW and Chapter 332-130 WAC.**
3. Include the name of the applicant, the purpose of the easement or lease and the DNR easement or lease number.
4. Clearly show easement or lease boundaries with distances and directions of all boundary lines.
5. Show the easement or lease area to an accuracy of (±) 0.5% of the total area or (±) 10 square feet, whichever is greater.
6. **(Not required for aquatic lands lease across the bed of Puget Sound or the Pacific Ocean)** Indicate the acreage encompassed by the lease or easement within each quarter-quarter section or government lot.
7. Show distances and directions from two or more controlling corners of a recorded subdivision, recorded survey or government survey (GLO) corners.

8. Be related by meridian and coordinate to the Washington Coordinate System NAD'83(1991) by closed ties to NGS Control m[redacted] or the extension thereof. The designation of the control stations used shall appear on the plat. [redacted]
9. Include a narrative legal description describing the servient estate (grantor's parcel) on the Record of Survey.
10. Show a detailed plan of improvements to be constructed or already existing on the easement or lease area. All improvements must be shown in sufficient detail to determine what they are used for and to ensure they are entirely within the easement area.
11. Show the location of any proposed utility.
12. **(linear lease or easement)** Show the lineal footage along the centerline.
13. **(linear lease or easement)** Show the complete alignment information and width including any necessary curve data.

A Record of Survey must (cont.):

14. **(Easements or leases crossing a section line or state ownership boundary, not required for aquatic lands lease across the bed of Puget Sound or the Pacific Ocean)** Provide ties to the centerline of an easement along the section or subdivision line from the nearest appropriate Public Land Survey System (PLSS) section corner, quarter section or subdivision corner, where the easement enters and leaves the section or state ownership.
15. **(Easements or leases falling entirely within one section and not crossing a section line or state ownership boundary)** Provide ties from both end points of the linear easement to PLSS corners or other subdivision corners shall be provided.
16. **(A lease which encroaches on a previously leased site)** Show the boundary for the senior lease in the vicinity of the proposed lease shall also be shown, together with ties between the two leases sufficient to determine the full extent of the encroachments.

Additional Requirements for Communication Site Leases

17. Show ties to the corners of previously monumented communication sites adjacent to, or in the immediate vicinity of the proposed communication site.
18. Show access to the site.
19. Mark the corners of the communication site, as described and granted, with substantial permanent magnetically locatable monuments. The monuments shall be in place and obviously marked on the ground after the construction of installations and improvements.
20. Show the center of any communication site tower by Washington Plane Coordinates, NAD83 (1991), or latitude and longitude. NAD83 datum must be used to determine global location coordinates and must be in **decimal degrees.** Coordinates must have at least **five** decimal places to the right of the decimal point and include a negative longitude.
21. On all communication sites where towers or beam paths are shown, an elevation is required at the base of the tower.
22. Show the tower height, and the height of the antenna or microwave dish and any beam path used shall have the diameter and tilt thereof shown.
23. The elevation shall be derived from an established benchmark in the vicinity of the site, or an elevation designated by the Department of Natural Resources.

Additional Requirements for Aquatic Land Uses

24. The lease of aquatic lands is often subject to preference rights. Applicants and surveyors should carefully determine the direction, and show details of the proration of coves and irregular shoreline.
25. **(lease sites which contain existing or proposed structures and improvements that are classified as a non water-dependent or a water oriented use as described within RCW 79.105.060 and WAC 332-30-106)** Provide the square footage of each structure and improvement.

26. Where applicable, the survey of aquatic lands must show the location of the following lines for:

    a. Tidal areas –Government meander line, the original and current locations of line of mean high tide, line of mean low tide, and line of extreme low tide. The survey must include the name of tidal bench mark(s) used or describe the alternate method employed for determining a Tidal Datum. **Lease areas which contain tidelands and bedlands** at a minimum must show the location of the line of extreme low tide crossing the lease area. **Lease areas containing bedlands exclusively** may be required to show the relationship to the line of extreme low tide and the -18 foot contour line only.

Additional Requirements for Aquatic Land Uses (cont.):

b. Lakes – Government meander line, line of ordinary high water (original ordinary high water if the lake has experienced artificial raising or lowering of the water level), and line of ordinary low water (include source of data) and line of navigability if established.

c. Rivers - Line of ordinary high water and line of ordinary low water (include source of data) and line of navigability if established.

d. Lots and blocks of platted tide lands or shore lands, inner and outer harbor lines, waterway lines, street boundaries, any local construction limit lines, any dredge or fill areas, and easements of record within the lease site.

e. All lines must be shown in sufficient detail to compute and show the area of each area of State-owned bedlands, tidelands, shore lands, harbor area, or waterways included within the proposed lease site.

Include any other data necessary for the complete understanding of the information shown on the survey. If, in the opinion of the department, such information is lacking, the survey may be rejected.

Record of Survey Revisions:

27. Any differences between the as-built road and the regulation plat must be reflected in a revised Record of Survey and recorded with the county by the applicant.

28. When any portion of the completed improvements are located outside of the granted lease site, the as-built locations must be reflected in a revised Record of Survey and legal description. In this instance, a new application for an amended lease site may be required if the as-built location creates adverse impacts. In the case of linear leases across the bed lands of the sound or the ocean, an as-built Record of Survey and a revised legal description of the linear lease must be provided.

Survey Information updated July 2002.
For additional information contact one of the following region offices:

Southeast Region
713 Bowers Rd
Ellensburg, WA 98926-9341
509-925-8510
TTY: 509-925-8527

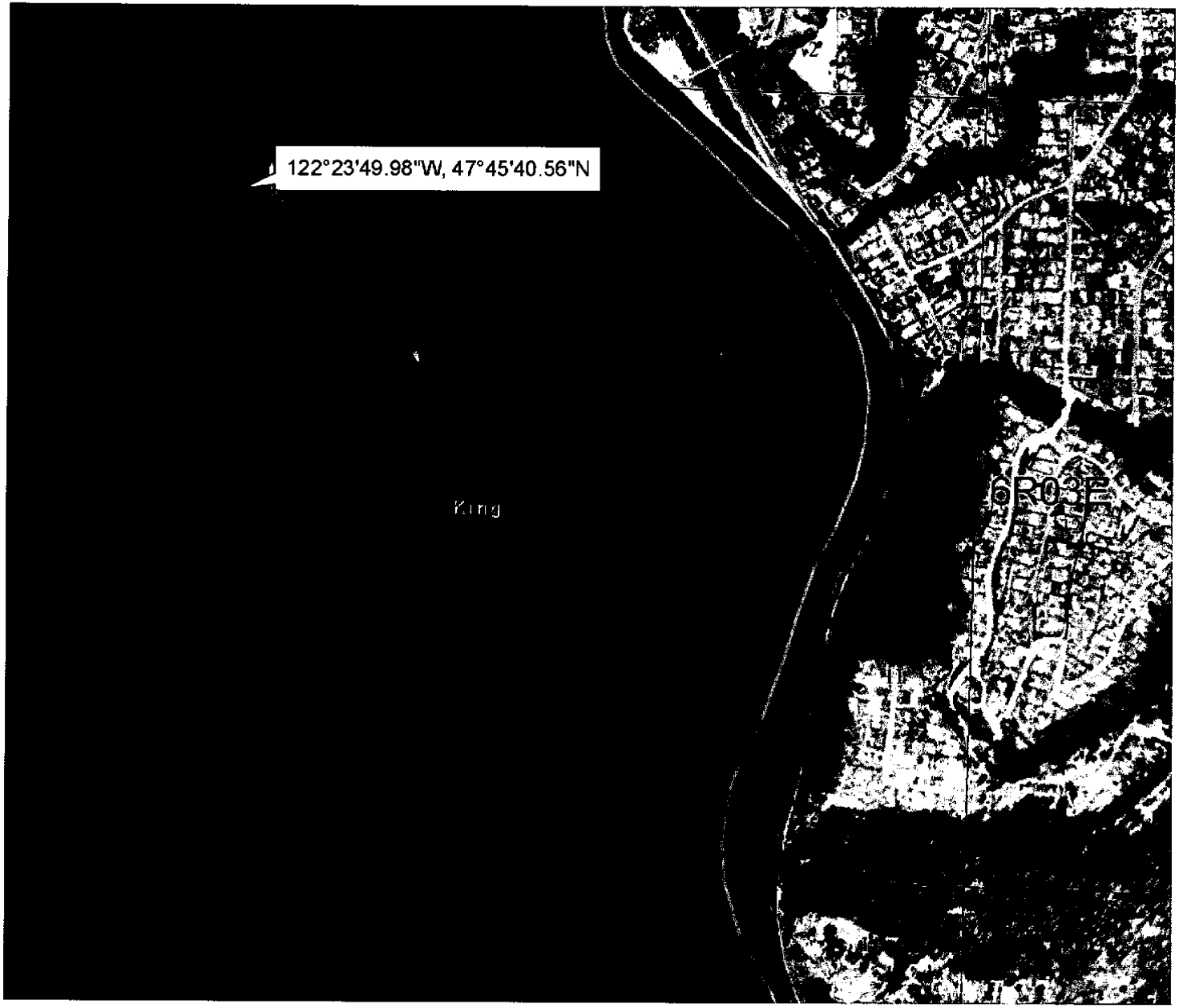
Northeast Region
P.O. Box 190
225 S Silke Rd
Colville, WA 99114-0190
360-684-7474
TTY: 509-684-7474

Olympic Region
411 Tillicum Ln
Forks, WA 98331-9797
360-374-6131
TTY: 360-374-2819

Pacific Cascade Region
P.O. Box 280
601 Bond Rd
Castle Rock, WA 98611-0280
360-577-2025
TTY: 360-577-2025

Northwest Region
919 N Township St
Sedro-Woolley, WA 98284-9333
360-856-3500
TTY: 360-856-1371

South Puget Sound Region
950 Farman Ave N
Enumclaw, WA 98022-9282
360-825-1631
TTY: 360-825-6381


122°23'49.98"W, 47°45'40.56"N
King
R03E

U of W Aquatic Scientific Buoy

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Date: 4/15/2009 Source: King County iMAP - Property Information (http://www.metrokc.gov/GIS/iMAP)

King County