

November 27, 2000

RECEIVED

NOV 27 2000

DEPT OF ECOLOGY

Mr. Erik Stockdale
Shorelines & Environmental Assistance Program
Department of Ecology
3190 - 160th Ave. SE
Bellevue, WA 98008-5452

RE: PROPOSAL FOR CONSULTING SERVICES, NATIONAL RESOURCE MITIGATION PLAN (NRMP), SEATAC THIRD RUNWAY PROJECT

Dear Mr. Stockdale;


Shannon & Wilson, Inc. is pleased to submit this proposal for consulting services for review of the NRMP for the SeaTac third runway project. Shannon & Wilson has an unparalleled understanding of the environmental conditions and regulatory climate in both the vicinity of the third runway and in Auburn. Our project experience includes wetland delineations, wetland inventories, wetland functional analysis, mitigation design, implementation and monitoring, riparian studies, fisheries studies, and Endangered Species compliance. This experience gives us a unique understanding of the physical and biological aspects of mitigation required for the third runway.

Throughout my 25 years of professional experience I have managed numerous complex projects that required an understanding of wetland ecosystems. I believe I understand the requirements of a successful mitigation plan. My experience with the Corp of Engineers has given me an understanding of the regulatory environment surrounding wetland mitigation issues. I assure you that I will provide the quality, thoroughness, and responsiveness to this project that Washington State Department of Ecology and other clients have come to expect from Shannon & Wilson.

Katie and I are excited about assisting you with the SeaTac third runway project, and I pledge my full personal and corporate commitment. If you have any questions about our proposal please call me at (206) 695-6878.

Sincerely,

SHANNON & WILSON, INC.


Samuel R. Casne
Natural Resources Manager

KLW:SRC/src

Enclosure: Proposal for Consulting Services, Natural Resource Mitigation Plan, for SeaTac Third Runway Project, SeaTac, Washington

21-1-11190-001-P1-L1.doc/wp/eet

400 NORTH 34TH STREET · SUITE 100
P.O. BOX 300303
SEATTLE, WASHINGTON 98103
206-632-8020 FAX 206-633-6777
TDD: 1-800-833-6388

Ex. 198

21-2-11190-001

AR 018477

SEATAC THIRD RUNWAY PROJECT

REVIEW OF NATURAL RESOURCES MITIGATION PLAN

QUALIFICATIONS FOR THIS PROJECT

Shannon & Wilson is uniquely qualified for this project. We have wetland scientists, fisheries scientists, wildlife biologists, hydrologists, and engineers to support the Department of Ecology's (DOE's) review of the Natural Resource Mitigation Plan (NRMP) for the third runway at SeaTac Airport. We have the required interdisciplinary staff in-house, which facilitates project review and response to DOE. Sam Casne, our Program Manager for this project and Manager of the Natural Resources Section, has years of experience in the Auburn Valley. Through his 10 years with the Seattle District Army Corps of Engineers (Corps) he has delineated numerous wetlands throughout this area. He has reviewed mitigation plans and knows the keys to successful mitigation. He also understands the Corps' permit process and Clean Water Act requirements. Katie Walter, the Senior Biologist we have assigned to this project, has designed and constructed mitigation plans throughout the Pacific Northwest. She has completed Ecology's training in Methods for Assessing Wetlands Functions. She knows and understands the survival requirements of native vegetation and native plant communities. She is well respected by the resource agencies and the permitting agencies. She will be supported by a fisheries biologist, a hydrologist, and engineers who can assist her in evaluating the NRMP. Biographical sketches of the key personnel we will assign to this project are included in this submittal.

Shannon & Wilson Inc. is excited about the opportunity to evaluate and refine the natural resource mitigation plan for the SeaTac Third runway project for compliance with Section 401 of the Clean Water Act, RCW 90.48. Because of the many basins and the tremendous number of changes in the development project the mitigation plan has also become very complex. The biologists at Shannon & Wilson will review the entire project with a new set of eyes and pull it together ensuring that all the issues get addressed. Due to the complexity of this mitigation project both cumulative and indirect impacts may result from the proposed construction without careful review. We have extensive

experience developing and implementing complex mitigation plans and can ensure a thorough project review, which addresses all the significant issues. Our biologists also have a considerable amount of experience conducting third party reviews of wetland delineation and mitigation projects. This plan review experience provides us with the background to efficiently evaluate the proposed mitigation plan. We have solid working relationships with the regulatory branch of the Corps of Engineers, and have had many delineation and mitigation projects approved by them. Prior to the Corps public notice it is very important that all the mitigation ratios are worked out so additional notices and delays are not required. Shannon & Wilson has significant experience with construction of mitigation plans, which allows us to review plans and request revisions that make them more constructable. We are committed to working with all of the stakeholders involved in this project and facilitating development of a constructable project that protects the remaining resources and mitigates for the proposed impacts. We will develop Section 401 conditions to ensure that these goals are achieved.

In addition to completing several third party reviews for the city of Kent, we are presently conducting fisheries and habitat studies throughout the Kent and Auburn Valley, including a fisheries and habitat study of Mullen Slough in Kent and Auburn. We are also conducting a wetland inventory for the City of Kent and have completed two mitigation projects in Auburn and Fife. In addition, we are presently completing a Biological Assessment for a road improvement project in the Miller Creek drainage near the airport. We will apply the knowledge and expertise gained from these and other projects to this project. Descriptions of just a few projects to demonstrate our experience in comparable projects are listed below.

EXPERIENCE IN COMPARABLE PROJECTS

The following projects are examples of similar projects the Shannon & Wilson Natural Resources Group has completed.

AR 018478

PROJECT TITLE	RELEVANT EXPERIENCE
<p>Wetland Delineation and Mitigation for Fife Railroad Siding Extension</p> <p>Union Pacific Railroad Fife, Washington</p>	<p>Shannon & Wilson delineated approximately five acres of wetland for this Union Pacific Railroad siding project. Our delineation efforts were complicated by disturbances from agricultural land adjacent to the tracks, a creek, and historic floodplains. Delineation review and approval were obtained from the City of Fife and the U.S. Army Corps of Engineers (Corps). We analyzed proposed impacts to wetlands and recommended development to minimize impacts. Several locations were assessed for mitigation, and a site within the same drainage subbasin was selected. An in-depth hydrologic analysis of the proposed mitigation site was performed to confirm that sufficient hydrology was available to create an additional wetland area. We developed a mitigation plan to provide no net loss of wetland functions and values. The siding extension was a highly controversial project, and our biologists played a critical role by successfully negotiating with Fife residents through public hearings to gain their support for this project. We obtained project approval.</p>
<p>Wetland Delineation and Mitigation for Railroad Siding Extension</p> <p>Union Pacific Railroad Auburn, Washington</p>	<p>Shannon & Wilson performed a wetland delineation for a siding extension at the Auburn Yard, impacting 1.78 acres of wetland and crossing a tributary to Mill Creek. We developed an alternatives analysis, which included analysis of alternative sites and an economic value assessment. After selecting a location, we designed a wetland mitigation and stream enhancement plan to restore four acres of wetland within the railroad right-of-way. Our mitigation design included the removal of historic fills, revegetation with native wetland shrub vegetation, and placement of educational signs along public trails. We conducted a hydrologic analysis to confirm sufficient hydrology to create the additional wetland area without adversely impacting the existing wetlands or stream. Monitoring was completed, and the mitigation was successful.</p>
<p>Environmental Biologist Studies</p> <p>Pierce County, Washington</p>	<p>Shannon & Wilson provided a temporary Environmental Biologist for the Pierce County Planning Department. Staff biologists administered the Pierce County Wetland Management Regulations, Section 17.12 of the County Codes pertaining to regulated wetland activities. We were responsible for site inspections, to confirm the presence of wetlands; categorize wetlands; determine if the activity occurred within the wetland or buffer boundary; delineate wetlands; review, approve, or deny compensatory wetland mitigation reports; determine reasonable use exemptions and any other process as directed by Pierce County Planning Department. Shannon & Wilson was also responsible for examining the total site to be sure that no other wetlands were affected, and for updating County files for the wetland inventory, mitigation projects, and monitoring reports. Approximately 40 projects were reviewed, including 11 general applications and over 30 single-family applications during our contract with the County. Pierce County was so pleased with our work that we are now one of five authorized companies selected to review wetland determinations for private individuals and supply a confirming letter to the County, which will automatically approve a permit application.</p>
<p>Fish and Stream Habitat Assessment, May Creek Landslide Repair</p> <p>Seattle Public Utility District May Creek, Washington</p>	<p>The May Creek landslide repair project was commissioned by Seattle Public Utilities to stop a landslide that was threatening to undermine one of its main water lines. Design of fish and stream habitat enhancements was required as part of the mitigation for stream disturbances caused by landslide repair procedures. Prior to designing enhancements, Shannon & Wilson ecologists conducted historical research and evaluated environmental impacts to fisheries, fish habitat, water quality, and the general natural resources at the project site. We also completed a Level II survey of the site for fisheries, stream, and riparian habitat to gather baseline data for designing the proposed fish and stream habitat enhancements. Habitat improvements included increased areas of spawning gravels, deep pools, large woody debris, and cover habitats. Plans also consisted of developing erosion control procedures to prevent soil runoff from entering the creek during the construction process. The work was performed on time and within budget, which helped keep the project on track to meet its scheduled completion date.</p>

STAFF QUALIFICATIONS

SAM CASNE

Sam Casne, is a fisheries scientist with 25 years of experience. He manages the Natural Resources Group at Shannon & Wilson and is responsible for biological assessments, habitat restoration, wetland mitigation, delineation, and permitting. He was previously with King County Surface Water Management where he managed permitting, critical areas studies, and environmental documentation of capital improvements projects, including road projects. He also has 10 years of experience with the Regulatory Branch at the Seattle District Corps. His management experience has required facilitation with local, state, federal, and tribal jurisdiction, and elected officials.

KATIE WALTER, P.W.S.

Katie Walter has 11 years of experience conducting wetland delineations, developing mitigation plans, conducting natural resource inventories, and permitting large complex multi-jurisdictional projects. She has provided support to municipal and government clients. This work involved reviewing permit applications, determining if proposed activities occurred within wetlands or their buffers, performing and reviewing wetland delineations, and approving or denying permits. Her technical expertise in mitigation design and applied ecological concepts has helped clients plan for expected permit requirements, implement permissible project designs, and meet project schedules.

RICHARD BROCKSMITH

Richard Brocksmith is a fisheries biologist with 10 years of experience in fisheries and wildlife research. He has been involved in fisheries research focused on understanding the limiting factors in the productivity of Pacific Northwest aquatic resources, with a specific focus on anadromous salmonids. More recent work with the U.S. Fish and Wildlife Service has involved fish and watershed habitat restoration on the Sacramento River in California to increase production of endangered salmonids. Richard has prepared biological assessments to determine construction impacts on aquatic and terrestrial species protected by the Endangered Species Act and has designed mitigation efforts to ensure federal compliance.

SCOTT BENDER

Scott Bender manages and performs hydrogeologic and hydrologic applications for many of Shannon & Wilson's largest and most complex projects. As manager of the firm's Hydrogeologic Services Group, he manages groundwater modeling and regional hydrogeologic investigation projects. He often designs and analyzes the performance of pumping tests and groundwater supply data in support of large remedial efforts. Scott's project engineering and management duties include preparing work plans, designing and installing water wells, managing field efforts, and designing and implementing sampling plans for groundwater, surface water, and soil sampling programs. Scott has provided hydrogeologic services in support of military efforts to identify waste plumes and investigate aquifer properties preliminary to aquifer remediation. Scott has also managed Shannon & Wilson's construction dewatering design efforts for multibillion-dollar world class construction projects.

BECKI KNIVETON

Becki Kniveton is a wetland biologist with over two years of experience performing wetland delineations, and reconnaissances, conducting water quality monitoring projects, and providing wetland mitigation cost estimates for commercial clients and private land owners. Becki has performed wetland delineations using the *Washington State Wetlands Identification and Delineation Manual* (1997), the *Corps of Engineers Wetland Delineation Manual* (1987), and the *Federal Manual for Identifying and Delineating Jurisdictional Wetlands* (1989) methodologies. In addition, Becki has conducted reviews of wetland delineation projects for compliance with current codes for the City of Kent and has assisted in sensitive areas inventory projects for local municipalities, including Kent and Kirkland. For these projects, she has reviewed aerial photographs and wetland delineations performed by others, and has field checked wetland locations and vegetation communities.

PROJECT WORK PLAN

- Review relevant project documents submitted to date.
 - Senior Biologist: 10 hours
 - Staff Biologist: 15 hours
- Review and become familiar with site conditions in the Des Moines, Walker, and

Miller creek basins, and the Auburn mitigation site.

- Senior Biologist: 12 hours
- Staff Biologist: 12 hours
- Field verify new wetlands at the Auburn mitigation site (with Corps of Engineers staff).
 - Senior Biologist: 8 hours
 - Staff Biologist: 8 hours
- Conduct site visits with Corps and Port consultants, as needed.
 - Senior Biologist: 8 hours
- Coordinate review with Corps of Engineers when necessary, or as appropriate.
 - Senior Biologist: 10 hours
- Attend regular meetings with the Port of Seattle, Port consultants, and Ecology.
 - Natural Resources Manager: 8 hours
 - Senior Biologist: 44 hours (Assume one 4-hour meeting per week for eleven weeks for Sr. Bio.)
- Attend internal Ecology and King County meetings that are associated with the project.
 - Senior Biologist: 16 hours
- Provide written documentation of findings, deficiencies, approvals, etc. when necessary.
 - Senior Biologist: 4 hours
- Review "master list" of issues and provide additions/deletions in coordination/consultation with the Ecology Regional Office Director and the Ecology 401 team lead.
 - Senior Biologist: 6 hours
- Review next submittal package of natural resource mitigation plan, and relevant elements of stormwater plan.
 - Senior Biologist: 2 hours
- Evaluate consistency of NRMP with stormwater plan.
 - Natural Resources Manager: 1 hour
 - Senior Biologist: 1 hour
- In particular, evaluate proposal to discharge water at base of embankment/wall to provide baseflow support to remaining wetlands on Miller and Walker creeks. Evaluate hydrologic impacts from borrow sites 3 and 4. Consult with Ecology's Water Quality hydrogeologist, Dave Garland, if necessary.
 - Senior Biologist: 2 hours

- Evaluate Tyee Golf Course mitigation proposal and potential conflicts with RDF and South Access Road.
 - Senior Biologist: 4 hours
- Evaluate indirect impacts of overall project (in coordination with Corps).
 - Senior Biologist: 6 hours
- Review contingency plan and address need for more detail if required.
 - Natural Resources Manager: 2 hours
 - Senior Biologist: 2 hours
- Review and refine the final performance standards and monitoring plan, as necessary.
 - Natural Resources Manager: 2 hours
 - Senior Biologist: 2 hours
- Draft 401 conditions in coordination with the Ecology 401 team lead.
 - Natural Resources Manager: 10 hours
 - Senior Biologist: 10 hours
- Coordinate with Ecology's 401 Team Lead on Public Disclosure requests.
 - Senior Biologist: 3 hours

COSTS

STAFF	HOURS	RATE	SUBTOTAL
Natural Resources Manager	23	\$115	\$2,645
Senior Biologist	152	82	12,464
Staff Biologist	59	49	2,891
TOTAL			\$18,000

REFERENCES

- Kathleen Larrabee (253) 798-3628
Supervisor, Resource Management Department
Pierce County Planning
- Elizabeth Sjostrom (360) 336-6288
Economic Development Planner
City of Mount Vernon
- Trent Hudak (206) 625-6150
Construction Engineer
Burlington Northern Santa Fe Railway
- Robyn Bartelt (253) 856-5549
Conservation Specialist
Kent Public Works

DOE 12/5/00 014

SEATAC THIRD RUNWAY PROJECT

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Burlington Northern Santa Fe Railway
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Conservation Specialist
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The following projects are examples of similar projects the Shannon & Wilson Natural Resources Group has completed.

PROJECT TITLE	RELEVANT EXPERIENCE
<p>Wetland Delineation and Mitigation for Fife Railroad Siding Extension</p> <p>Union Pacific Railroad Fife, Washington</p>	<p>Shannon & Wilson delineated approximately five acres of wetland for this Union Pacific Railroad siding project. Our delineation efforts were complicated by disturbances from agricultural land adjacent to the tracks, a creek, and historic floodplains. Delineation review and approval were obtained from the City of Fife and the U.S. Army Corps of Engineers (Corps). We analyzed proposed impacts to wetlands and recommended development to minimize impacts. Several locations were assessed for mitigation, and a site within the same drainage subbasin was selected. An in-depth hydrologic analysis of the proposed mitigation site was performed to confirm that sufficient hydrology was available to create an additional wetland area. We developed a mitigation plan to provide no net loss of wetland functions and values. The siding extension was a highly controversial project, and our biologists played a critical role by successfully negotiating with Fife residents through public hearings to gain their support for this project. We obtained project approval.</p>
<p>Wetland Delineation and Mitigation for Railroad Siding Extension</p> <p>Union Pacific Railroad Auburn, Washington</p>	<p>Shannon & Wilson performed a wetland delineation for a siding extension at the Auburn Yard, impacting 1.78 acres of wetland and crossing a tributary to Mill Creek. We developed an alternatives analysis, which included analysis of alternative sites and an economic value assessment. After selecting a location, we designed a wetland mitigation and stream enhancement plan to restore four acres of wetland within the railroad right-of-way. Our mitigation design included the removal of historic fills, revegetation with native wetland shrub vegetation, and placement of educational signs along public trails. We conducted a hydrologic analysis to confirm sufficient hydrology to create the additional wetland area without adversely impacting the existing wetlands or stream. Monitoring was completed, and the mitigation was successful.</p>
<p>Environmental Biologist Studies</p> <p>Pierce County, Washington</p>	<p>Shannon & Wilson provided a temporary Environmental Biologist for the Pierce County Planning Department. Staff biologists administered the Pierce County Wetland Management Regulations, Section 17.12 of the County Codes pertaining to regulated wetland activities. We were responsible for site inspections, to confirm the presence of wetlands; categorize wetlands; determine if the activity occurred within the wetland or buffer boundary; delineate wetlands; review, approve, or deny compensatory wetland mitigation reports; determine reasonable use exemptions and any other process as directed by Pierce County Planning Department. Shannon & Wilson was also responsible for examining the total site to be sure that no other wetlands were affected, and for updating County files for the wetland inventory, mitigation projects, and monitoring reports. Approximately 40 projects were reviewed, including 11 general applications and over 30 single-family applications during our contract with the County. Pierce County was so pleased with our work that we are now one of five authorized companies selected to review wetland determinations for private individuals and supply a confirming letter to the County, which will automatically approve a permit application.</p>
<p>Fish and Stream Habitat Assessment, May Creek Landslide Repair</p> <p>Seattle Public Utility District May Creek, Washington</p>	<p>The May Creek landslide repair project was commissioned by Seattle Public Utilities to stop a landslide that was threatening to undermine one of its main water lines. Design of fish and stream habitat enhancements was required as part of the mitigation for stream disturbances caused by landslide repair procedures. Prior to designing enhancements, Shannon & Wilson ecologists conducted historical research and evaluated environmental impacts to fisheries, fish habitat, water quality, and the general natural resources at the project site. We also completed a Level II survey of the site for fisheries, stream, and riparian habitat to gather baseline data for designing the proposed fish and stream habitat enhancements. Habitat improvements included increased areas of spawning gravels, deep pools, large woody debris, and cover habitats. Plans also consisted of developing erosion control procedures to prevent soil runoff from entering the creek during the construction process. The work was performed on time and within budget, which helped keep the project on track to meet its scheduled completion date.</p>

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STAFF QUALIFICATIONS

SAM CASNE

Sam Casne, is a fisheries scientist with 25 years of experience. He manages the Natural Resources Group at Shannon & Wilson and is responsible for biological assessments, habitat restoration, wetland mitigation, delineation, and permitting. He was previously with King County Surface Water Management where he managed permitting, critical areas studies, and environmental documentation of capital improvements projects, including road projects. He also has 10 years of experience with the Regulatory Branch at the Seattle District Corps. His management experience has required facilitation with local, state, federal, and tribal jurisdiction, and elected officials.

KATIE WALTER, P.W.S.

Katie Walter has 11 years of experience conducting wetland delineations, developing mitigation plans, conducting natural resource inventories, and permitting large complex multi-jurisdictional projects. She has provided support to municipal and government clients. This work involved reviewing permit applications, determining if proposed activities occurred within wetlands or their buffers, performing and reviewing wetland delineations, and approving or denying permits. Her technical expertise in mitigation design and applied ecological concepts has helped clients plan for expected permit requirements, implement permissible project designs, and meet project schedules.

RICHARD BROCKSMITH

Richard Brocksmith is a fisheries biologist with 10 years of experience in fisheries and wildlife research. He has been involved in fisheries research focused on understanding the limiting factors in the productivity of Pacific Northwest aquatic resources, with a specific focus on anadromous salmonids. More recent work with the U.S. Fish and Wildlife Service has involved fish and watershed habitat restoration on the Sacramento River in California to increase production of endangered salmonids. Richard has prepared biological assessments to determine construction impacts on aquatic and terrestrial species protected by the Endangered Species Act and has designed mitigation efforts to ensure federal compliance.

SCOTT BENDER

Scott Bender manages and performs hydrogeologic and hydrologic applications for many of Shannon & Wilson's largest and most complex projects. As manager of the firm's Hydrogeologic Services Group, he manages groundwater modeling and regional hydrogeologic investigation projects. He often designs and analyzes the performance of pumping tests and groundwater supply data in support of large remedial efforts. Scott's project engineering and management duties include preparing work plans, designing and installing water wells, managing field efforts, and designing and implementing sampling plans for groundwater, surface water, and soil sampling programs. Scott has provided hydrogeologic services in support of military efforts to identify waste plumes and investigate aquifer properties preliminary to aquifer remediation. Scott has also managed Shannon & Wilson's construction dewatering design efforts for multibillion-dollar world class construction projects.

BECKI KNIVETON

Becki Kniveton is a wetland biologist with over two years of experience performing wetland delineations, and reconnaissances, conducting water quality monitoring projects, and providing wetland mitigation cost estimates for commercial clients and private land owners. Becki has performed wetland delineations using the *Washington State Wetlands Identification and Delineation Manual* (1997), the *Corps of Engineers Wetland Delineation Manual* (1987), and the *Federal Manual for Identifying and Delineating Jurisdictional Wetlands* (1989) methodologies. In addition, Becki has conducted reviews of wetland delineation projects for compliance with current codes for the City of Kent and has assisted in sensitive areas inventory projects for local municipalities, including Kent and Kirkland. For these projects, she has reviewed aerial photographs and wetland delineations performed by others, and has field checked wetland locations and vegetation communities.

PROJECT WORK PLAN

- Review relevant project documents submitted to date.
 - Senior Biologist: 10 hours
 - Staff Biologist: 15 hours
- Review and become familiar with site conditions in the Des Moines, Walker, and

Miller creek basins, and the Auburn mitigation site.

- Senior Biologist: 12 hours
- Staff Biologist: 12 hours
- Field verify new wetlands at the Auburn mitigation site (with Corps of Engineers staff).
 - Senior Biologist: 8 hours
 - Staff Biologist: 8 hours
- Conduct site visits with Corps and Port consultants, as needed.
 - Senior Biologist: 8 hours
- Coordinate review with Corps of Engineers when necessary, or as appropriate.
 - Senior Biologist: 10 hours
- Attend regular meetings with the Port of Seattle, Port consultants, and Ecology.
 - Natural Resources Manager: 8 hours
 - Senior Biologist: 44 hours
(Assume one 4-hour meeting per week for eleven weeks for Sr. Bio.)
- Attend internal Ecology and King County meetings that are associated with the project.
 - Senior Biologist: 16 hours
- Provide written documentation of findings, deficiencies, approvals, etc. when necessary.
 - Senior Biologist: 4 hours
- Review "master list" of issues and provide additions/deletions in coordination/consultation with the Ecology Regional Office Director and the Ecology 401 team lead.
 - Senior Biologist: 6 hours
- Review next submittal package of natural resource mitigation plan, and relevant elements of stormwater plan.
 - Senior Biologist: 2 hours
- Evaluate consistency of NRMP with stormwater plan.
 - Natural Resources Manager: 1 hour
 - Senior Biologist: 1 hour
- In particular, evaluate proposal to discharge water at base of embankment/wall to provide baseflow support to remaining wetlands on Miller and Walker creeks. Evaluate hydrologic impacts from borrow sites 3 and 4. Consult with Ecology's Water Quality hydrogeologist, Dave Garland, if necessary.
 - Senior Biologist: 2 hours

- Evaluate Tye Golf Course mitigation proposal and potential conflicts with RDF and South Access Road.
 - Senior Biologist: 4 hours
- Evaluate indirect impacts of overall project (in coordination with Corps).
 - Senior Biologist: 6 hours
- Review contingency plan and address need for more detail if required.
 - Natural Resources Manager: 2 hours
 - Senior Biologist: 2 hours
- Review and refine the final performance standards and monitoring plan, as necessary.
 - Natural Resources Manager: 2 hours
 - Senior Biologist: 2 hours
- Draft 401 conditions in coordination with the Ecology 401 team lead.
 - Natural Resources Manager: 10 hours
 - Senior Biologist: 10 hours
- Coordinate with Ecology's 401 Team Lead on Public Disclosure requests.
 - Senior Biologist: 3 hours

COSTS

STAFF	HOURS	RATE	SUBTOTAL
Natural Resources Manager	23	\$115	\$2,645
Senior Biologist	152	82	12,464
Staff Biologist	59	49	2,891
TOTAL			\$18,000

REFERENCES

- Kathleen Larrabee (253) 798-3628
Supervisor, Resource Management Department
Pierce County Planning
- Elizabeth Sjostrom (360) 336-6288
Economic Development Planner
City of Mount Vernon
- Trent Hudak (206) 625-6150
Construction Engineer
Burlington Northern Santa Fe Railway
- Robyn Bartelt (253) 856-5549
Conservation Specialist
Kent Public Works