

WATER RESOURCES WATERSHED PLAN IMPLEMENTATION AND FLOW ACHIEVEMENT

Organization: Yakima - Tieton Irrigation District

WRPIFA-1517-YaTiID-00029

General Information

Project Title	Upper French Canyon Reservoir Feasibility Study
Project Short Description	Upper French Canyon Reservoir is a proposed off-stream water storage reservoir located approximately 2.5 miles west of the unincorporated community of Tieton, Washington on the North Fork Cowiche Creek. Physically located in the Naches watershed, this 30,000 acre-foot reservoir would increase available water supplies in the Lower Yakima River Watershed and provide economic and environmental benefits consistent with the goals and objectives of the Yakima Basin Integrated Plan.
Project Long Description	<p>In 1984, The Yakima-Tieton Irrigation District (YTID) constructed the French Canyon Dam and Regulating Reservoir. The existing dam and reservoir are located approximately 2.0 miles west of Tieton, Washington on the North Fork Cowiche Creek. The dam forms a small regulating reservoir with a total operational storage capacity of approximately 500 acre-feet. The existing reservoir is primarily filled using YTID's Main Canal, a 12-mile long gravity aqueduct that diverts water from the Tieton River near the unincorporated community of Rimrock Retreat. The existing reservoir also receives inflow from the North Fork Cowiche Creek during the spring and early summer. The reservoir serves as a small storage buffer at the upper end of YTID's service area. Water from the reservoir is distributed throughout YTID's 28,000 acre service area via approximately 200 miles of buried pressure pipelines. The water is primarily used to irrigate high-value apples, cherries, and pears.</p> <p>Construction of a new Upper French Canyon Reservoir would expand the available water storage volume within YTID and the Naches and Yakima River Basins. The new reservoir would be operated in conjunction with the existing reservoir as a pump-storage project. Water would be pumped from the existing lower reservoir to the proposed higher reservoir. When the water is needed for agriculture or environmental purposes, the water would be released back to the lower reservoir and then delivered to end users through YTID's distribution system. The additional storage volume created by the proposed reservoir would provide opportunities to increase beneficial uses of the basin's limited resources.</p> <p>The additional water storage could significantly benefit the environment. Cowiche Creek is a tributary to the Naches and Yakima Rivers. The creek passes through central portions of YTID's service area, and YTID's distribution system serves agricultural areas directly adjacent to the creek. For more than a decade, the creek has been a focal point for federal, state, and local efforts to restore anadromous salmon populations. Since 2004, YTID has been cooperating with the North Yakima Conservation District (NYCD) and their efforts to restore Cowiche Creek. Under an existing water exchange agreement, Cowiche Creek water users have agreed to discontinue direct withdrawals from the creek. Instead, they receive equivalent supplies of Tieton River water via YTID's distribution system. The water that remains in the creek provides higher fish passage and fish attraction flows that were not previously available in the summer and fall. In 2014, YTID completed two turnouts from their distribution system that serve approximately 400 acres within the Cowiche Creek Water Users Association. The initial efforts to restore Cowiche Creek have been very</p>

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successful and have gained widespread acclaim from both agricultural and environmental interests. Construction of the new reservoir would directly support future phases of the Cowiche Creek Water Exchange Project. The new reservoir could eventually serve 1,250 acres of land near the creek and provide additional in-stream flow for fisheries restoration.

YTID is also exploring and cooperating with proposals for a similar water exchange agreement in the Ahtanum Creek Watershed. Water stored in the new reservoir could be made available for agricultural and environmental interests near Ahtanum Creek. Water supplies to Ahtanum Creek, the Wapato Irrigation Project, the Ahtanum Irrigation District and other users could be considered after on-going legal issues associated with the water rights adjudication within this sub-basin have been resolved. Water stored in this proposed reservoir could also be utilized in groundwater storage and recovery projects within these crucial tributary basins.

This grant application requests funding to study the feasibility of the new Upper French Canyon Reservoir.

Total Cost	\$146,278.00*	Total Eligible Cost \$117,024.00*
Effective Date	7/1/2015	Expiration Date 9/1/2016
Ecology Program	Water Resources	
Project Category*	Infrastructure and Water Management Construction (Efficiency Improvements) ✓ Surface and Sub Surface Storage Feasibility Study and Construction Water Acquisition or Water Bank/Exchange Development Water Measuring Devices Other	
Will Environmental Monitoring Data be collected?	No	
Overall Goal	The overall goal of this feasibility study is to explore every aspect of the proposed project, at an introductory level, and determine conclusively whether the project merits further consideration.	

Recipient Contacts

Project Manager

Rick Dieker
 Rick Dieker
 Manager
 470 Camp 4 Road
 Yakima, Washington 98908
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 (509) 678-5730
 rickdieker@yvn.com

Authorized Signatory

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 Rick Dieker
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 (509) 678-4101
 (509) 678-5730
 rickdieker@yvn.com

Billing Contact

Rick Dieker
 Rick Dieker
 Manager
 470 Camp 4 Road
 Yakima, Washington 98908
 (509) 678-4101
 (509) 678-5730
 rickdieker@yvn.com

Other recipient signatures on printed agreement

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Enter a name and title
 When done, click the **SAVE** button
 After SAVE, a new row will appear

To Delete a Row

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 Name and Title textboxes
 When done, click the **SAVE** button
 After SAVE, the row will be deleted

Recipient Contacts

Name

Title

WATER RESOURCES WATERSHED PLAN IMPLEMENTATION AND FLOW ACHIEVEMENT

Organization: Yakima - Tieton Irrigation District

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Location Information

Statewide * Yes No

Ecology Region * Central 100%
Click here to view map:

County * YAKIMA 100%
Click here to view map:

Congressional District * District 04 100%
Click here to view map:

Legislative District * District 14 100%
Click here to view map:

WRIA * 38 - Naches 100%
Click here to view map:

Ecology Region Statewide 100%

County Statewide 100%

Congressional District Statewide 100%

Legislative District Statewide 100%

WRIA Statewide 100%

Latitude (expressed in decimals)

Longitude (expressed in decimals)

Facility Site ID

Facility Site Link

WATER RESOURCES WATERSHED PLAN IMPLEMENTATION AND FLOW ACHIEVEMENT

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Scope of Work - Task 1 Project Admin: 1

Task Number	1		
Task Title	Project Administration/Management	Task Cost	\$7,506.00
Task Description	<p>A. The RECIPIENT will administer the project. Responsibilities will include, but not be limited to: maintenance of project records; submittal of requests for reimbursement and corresponding backup documentation, progress reports and recipient closeout report (including photos); compliance with applicable procurement, contracting, and interlocal agreement requirements; application for, receipt of, and compliance with all required permits, licenses, easements, or property rights necessary for the project; and submittal of required performance items.</p> <p>B. The RECIPIENT must manage the project. Efforts will include: conducting, coordinating, and scheduling project activities and assuring quality control. Every effort will be made to maintain effective communication with the RECIPIENT's designees; the DEPARTMENT; all affected local, state, or federal jurisdictions; and any interested individuals or groups. The RECIPIENT must carry out this project in accordance with any completion dates outlined in this agreement.</p>		
Task Goal Statement	Properly managed project that meets agreement and Ecology administrative requirements.		
Task Expected Outcomes	<p>* Timely and complete submittal of requests for reimbursement, quarterly progress reports and recipient closeout report.</p> <p>* Properly maintained project documentation</p>		
Recipient Task Coordinator	Rick Dieker		

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 Repeat these steps for each deliverable

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Deliverable #	Description	Due Date	Received?	EIM Study ID	EIM System Link	Latitude	Longitude	Location Address
(ECY Use)								

Scope of Work - Task 1 Project Admin: 1

Only)

- 1.1 Progress Reports
- 1.2 Recipient Closeout Report

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Organization: Yakima - Tieton Irrigation District

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Scope of Work - Additional Tasks: 2 - Collect and Review Existing Information

Task Number 2

Task Title Collect and Review Existing Information Task Cost \$6,565.00*

Task Description Task 2 provides collection and review of existing, relevant information related to the project. A wealth of relevant information is available from the design and construction of an existing nearby YTID regulating reservoir during the 1980's. The existing reservoir is located immediately downstream of the proposed reservoir. The grant recipient will collect and review topographic maps, geologic maps and geotechnical information from the existing dam, hydrology and spillway calculations from the existing dam, land ownership and land-use maps, as-built drawings of the dam, available archaeological and environmental studies, Tieton River flow data, and Rimrock Lake water storage and spill data.

Task Goal Statement The goal of this task is to collect and review the maps, data, and information that will be required to perform the feasibility study, and to identify elements of the project that would affect the design and performance of the reservoir.

Task Expected Outcomes The expected outcome of this task is the grant recipient will become familiar with existing conditions at the site and familiar with data that is required to evaluate dam and reservoir size, configuration, potential archaeological and environmental considerations, and reservoir operating criteria.

Recipient Task Coordinator
09/01/16

Deliverables

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Deliverable #	Description	Due Date	Received? (ECY Use Only)	EIM Study ID	EIM System Link	Latitude	Longitude	Location Address
2.1	Deliverables will							

Scope of Work - Additional Tasks: 2 - Collect and Review Existing Information

not be produced for this task. However, much of the existing information will be presented and discussed in the Task 8 Feasibility Report.

Scope of Work - Additional Tasks: 3 - Reservoir Capacity Analysis

Task Number 3

Task Title Reservoir Capacity Analysis Task Cost \$18,131.00*

Task Description Task 3 will estimate the optimal size and capacity of the new reservoir utilizing topographic maps of the reservoir site, available Tieton River flow data, and YTID water delivery data. This is a multi-step process. First, a set of operational “rules” must be developed to describe the operation of the new reservoir. For example, can the new reservoir be filled year-round, or only during the YTID irrigation season? Is the stored water used early in the season for frost-protection needs or late in the season for fish attraction flows? These operational rules will have a significant impact on the size and feasibility of the reservoir. Secondly, the Tieton River flow data will be analyzed to determine the quantity of river water that would be available for storage in a new reservoir. This study will focus on the quantity and timing of spring releases from Rimrock Lake. Spring releases that are not needed for main stem needs could be captured and stored for later use in the proposed reservoir. Exceedance plots will be developed to show approximately how much Tieton River Water could be captured and stored annually as a function of time (in years). Thirdly, the available capacity of YTID’s existing Tieton Canal must be evaluated. The Tieton Canal would be used to convey water from the Tieton River to the new reservoir. Regardless of the quantity and timing of flow in the river, the rate at which a new reservoir could be filled is constrained by the available capacity of the canal. Since the District is currently planning to renovate the canal, two or three canal capacity alternatives will be evaluated to determine compatible storage volumes associated with each canal configuration. Finally, topographic and geologic characteristics of the site will be evaluated to determine the storage capacity constraints of the site.

Task Goal Statement The goal of this task is to size the new reservoir and ensure that there is sufficient water available to fill the reservoir on an average annual basis and sufficient available capacity in YTID’s Tieton Canal to deliver that water to the new reservoir. A reservoir that is either too large or too small or not properly calibrated to the capacity of the delivery facilities would not be cost effective.

Task Expected Outcomes The outcome of this task is an understanding and confidence that the new reservoir size is appropriate given the available water supply, conveyance capacity constraints, operating conditions, and site conditions.

Recipient Task Coordinator
09/01/16

Scope of Work - Additional Tasks: 3 - Reservoir Capacity Analysis

Deliverables

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Deliverable #	Description	Due Date	Received? (ECY Use Only)	EIM Study ID	EIM System Link	Latitude	Longitude	Location Address
3.1	This task will produce an Excel spreadsheet model and technical memorandum that documents the reservoir sizing process, the Tieton Canal capacity evaluation, and the recommended reservoir capacity. The technical memorandum will be attached as an Appendix to the Task 8 Feasibility Study.							

Scope of Work - Additional Tasks: 4 - Dam and Spillway Concepts

presented and
discussed in the
Task 8 Feasibility
Report.

products will not be prepared as part of this task. However, pumps station, pipeline, and hydro-turbine concepts developed in this task will be presented and described in the Task 8 Feasibility Report.

Scope of Work - Additional Tasks: 6 - Cultural and Environmental Impacts Evaluation

Task Number	6		
Task Title	Cultural and Environmental Impacts Evaluation	Task Cost	\$5,874.00*
Task Description	<p>Task 6 provides a brief, initial site investigation by qualified resource specialists to observe and determine potential project impacts. A one-day site visit will be conducted by a qualified archaeologist. Prior to the site visit, the archaeologist will check the state historical database for known cultural resource sites in the area. The archaeologist will then observe site conditions, prepare notes on observed findings, develop opinions on the potential for future findings, and recommend additional investigations for subsequent phases of the project. This scope of work does not include any subsurface investigations, or the recovery, cataloging, and reporting of artifacts to the State.</p> <p>Task 6 also includes a one-day site visit by a qualified environmental scientist. Prior to the site visit, the environmental scientist will review the state database of ESA listed species and their habitat. The environmental scientist will then observe the site, prepare notes on findings, and prepare recommendations for future biological investigations and potential mitigation requirements should the project move forward. The site visit will focus on potential impacts to wetlands, riparian habitat, endangered species, and water quality.</p>		
Task Goal Statement	The goal of this task is to become familiar with the potential cultural and environmental impacts of the project and the size and scale of potential avoidance or mitigation requirements.		
Task Expected Outcomes	The outcome of this task is a basic understanding and summary of potential cultural and environmental impacts. This task also begins to chart a course for future investigations and NEPA/SEPA compliance requirements should the project advance to subsequent design stages.		

Recipient Task Coordinator
09/01/16

Deliverables

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Scope of Work - Additional Tasks: 6 - Cultural and Environmental Impacts Evaluation

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Deliverable #	Description	Due Date	Received? (ECY Use Only)	EIM Study ID	EIM System Link	Latitude	Longitude	Location Address
6.1	Deliverables will not be produced for this task. However, the Task 8 Feasibility Study will summarize the results of this work and any recommendations for future investigations.							

Scope of Work - Additional Tasks: 7 - Project Cost Estimates

Task Number 7

Task Title Project Cost Estimates Task Cost \$7,786.00*

Task Description Task 7 will provide a Class 4 construction cost estimate of the proposed dam, reservoir, pump and hydropower station, and conveyance facilities. The cost estimates will be based on current construction methods and costs from materials suppliers. An estimate of annual operations and maintenance costs will also be provided and an estimate of total present worth will be developed. This information will be used to calculate the cost per acre-foot "yield" of the project.

Task Goal Statement The goal of this task is to estimate the initial capital cost, annual operations and maintenance cost, and the effective "unit" cost per acre-foot of yield. Cost evaluations will include potential revenues from hydropower generation, if proven feasible in prior tasks. The unit cost per acre-foot of yield can be compared with other similar projects in the Yakima Basin to determine the relative cost effectiveness of the project .

Task Expected Outcomes The outcome of this task will be a basic understanding and written estimate of total project costs.

Recipient Task Coordinator
09/01/16

Deliverables

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After SAVE a new row will appear
Repeat these steps for each deliverable

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Deliverable #	Description	Due Date	Received? (ECY Use Only)	EIM Study ID	EIM System Link	Latitude	Longitude	Location Address
7.1	A Class 4 construction cost estimate will be prepared for the							

Scope of Work - Additional Tasks: 7 - Project Cost Estimates

project. The cost estimate will be presented and discussed in the Task 8 Feasibility Report.

Scope of Work - Additional Tasks: 8 - Feasibility Study Report

Task Number 8

Task Title Feasibility Study Report Task Cost \$27,607.00*

Task Description The work performed under Tasks 2 through 7 will be consolidated into a comprehensive Draft Feasibility Report that will document the proposed project. The report will consist of text, figures, and tables to clearly describe the proposed work and its estimated cost and potential impacts. Ecology will be given an opportunity to review and comment on the report. Review comments will be addressed by the grant recipient and a Final Feasibility Report will be prepared.

Task Goal Statement The goal of this task is summarize the cost and feasibility of the project.

Task Expected Outcomes The outcome of this task will be a basic understanding of benefits, constraints, and cost of the project.

Recipient Task Coordinator
09/01/16

Deliverables

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When done, click the SAVE button
After SAVE a new row will appear
Repeat these steps for each deliverable

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When done, click the SAVE button

Deliverable #	Description	Due Date	Received? (ECY Use Only)	EIM Study ID	EIM System Link	Latitude	Longitude	Location Address
8.1	Draft and Final Feasibility Reports will be produced electronically and in hard copy format. Ten (10)							

Scope of Work - Additional Tasks: 8 - Feasibility Study Report

copies of the draft report and twenty (20) copies of the final report will be provided to Ecology.

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Scope of Work Summary

Task Title	Task Cost
Project Administration/Management	\$7,506.00
Collect and Review Existing Information	\$6,565.00
Reservoir Capacity Analysis	\$18,131.00
Dam and Spillway Concepts	\$19,341.00
Pump Station, Pipeline, and Hydropower Concepts	\$24,214.00
Cultural and Environmental Impacts Evaluation	\$5,874.00
Project Cost Estimates	\$7,786.00
Feasibility Study Report	\$27,607.00
	\$117,024.00
 Total Eligible Costs (from the General Information Form)	
	\$117,024.00

WATER RESOURCES WATERSHED PLAN IMPLEMENTATION AND FLOW ACHIEVEMENT

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Budget Proposal

Estimate your proposal's total budget needs by task and by element for FY 16, FY17 and beyond.

FY 16 - July 1, 2015 to June 30, 2016

FY 17 - July 1, 2016 to June 30, 2017

Total Eligible Costs (from General Information form)
\$117,024.00

By Task

Task Title	Task Cost	*FY 16	*FY 17	Additional Fiscal Years	Total
Project Administration/Management	\$7,506.00	\$3,753.00	\$3,753.00	\$0	\$7,506.00
Collect and Review Existing Information	\$6,565.00	\$6,565.00	\$0	\$0	\$6,565.00
Reservoir Capacity Analysis	\$18,131.00	\$18,131.00	\$0	\$0	\$18,131.00
Dam and Spillway Concepts	\$19,341.00	\$19,341.00	\$0	\$0	\$19,341.00
Pump Station, Pipeline, and Hydropower Concepts	\$24,214.00	\$24,214.00	\$0	\$0	\$24,214.00
Cultural and Environmental Impacts Evaluation	\$5,874.00	\$5,874.00	\$0	\$0	\$5,874.00
Project Cost Estimates	\$7,786.00	\$7,786.00	\$0	\$0	\$7,786.00
Feasibility Study Report	\$27,607.00	\$0	\$27,607.00	\$0	\$27,607.00
Total	\$117,024.00	\$85,664.00	\$31,360.00	\$0	\$117,024.00

By Element

Element	*FY 16	FY 17	Additional Fiscal Years	Total
Salaries - 1	\$654.00	\$916.00	\$0	\$1,570.00
Benefits - 1	\$191.00	\$267.00	\$0	\$458.00
Salaries and Benefits Combined - 1			\$0	\$0
Contracts	\$84,419.00	\$29,777.00	\$0	\$114,196.00
Travel	\$0	\$0	\$0	\$0
Equipment - 2	\$400.00	\$400.00	\$0	\$800.00
Goods/services - 3	\$0	\$0	\$0	\$0
Overhead - 4	\$0	\$0	\$0	\$0

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Budget Proposal

Total	\$85,664.00	\$31,360.00	\$0	\$117,024.00
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If you receive a grant, you are responsible for procuring professional, personal, or other services using sound business judgment and good administrative procedures consistent with applicable state, and local laws, orders, regulations, and permits. This includes issuance of invitation of bids, requests for proposals, selection of contractors, award of sub-agreements, and other related procurement matters.

- 1 Fill in either the "Salaries" field and the "Benefits" field or fill in the "Salaries and Benefits Combined" field
- 2 Upload an itemized list of all equipment and explain why the equipment is needed. Equipment is defined as tangible property other than land, buildings, improvements other than buildings, or infrastructure, which is used in operations and with a useful life of more than one year. Examples are furnishings, equipment, and software.
- 3 Upload an itemized list of all Goods and Services
- 4 Overhead cannot exceed 25% of salaries/benefits

Upload Documents

Click the Browse button

Select your file

Click Save, your file will appear in the List of uploaded documents

Repeat for each file

To Delete a file, select the Delete checkbox next to the file and click SAVE

Additional Comments

SURFACE AND SUB SURFACE STORAGE FEASIBILITY STUDY

Instructions:

Please fill in the appropriate fields.
Required fields are marked with an *.
When done, click the **SAVE** button.

Project Location

* Stream reach mile or location

Funding Source Information

* Estimated or potential funding as part of total project amount expected to be provided by sources other than this program

Amount
Percentage of project budget %

* Identify sources and type of funding other than through this program grant. Include expected dates of participation. Upload letters of commitment, offer letters, application approvals etc.

Source and type of Funding

Amount	Percentage	Status	Dates of participation
<input type="text" value="\$29,254.00"/>	<input type="text" value="20"/> %	<input type="text" value="\$ from YTID"/>	<input type="text" value="7/1/15 - 9/1/16"/>
<input type="text"/>	<input type="text"/> %	<input type="text"/>	<input type="text"/>

Upload Documents

Click the Browse button
Select your file
Click Save, your file will appear in the List of uploaded documents
Repeat for each file
To Delete a file, select the Delete checkbox next to the file and click SAVE

Readiness to Proceed

* Briefly describe the status of existing and relevant feasibility reports, engineering designs, or associated permits. At the time of award you will need to provide documentation of all relevant information.

This is a brand new project. No previous studies have been conducted for this dam and reservoir. However, the existing French Canyon Reservoir, located immediately downstream, was designed and constructed by CH2M HILL in 1984. As part of the original reservoir design, we conducted extensive geotechnical investigations in the area, we performed a hydrologic analysis to determine the PMF and spillway capacity, and we conducted environmental and cultural resources investigations. All of the 1984 work is available and relevant to this project.

* Does the project proponent own the land where the project would occur if funded? If not, will the proponent be able to get permission to enter the project site?

The property where the reservoir is located is privately owned. We will work with the owner to obtain access agreements, but we do not anticipate that access will be required for this study.

191 of 3000

Design/Engineering Status (if relevant):

- | | | | |
|--|---------|---------------|---------------|
| <input type="checkbox"/> Pre-planning (pre-permitting) | Status: | Not Started ▼ | Not Started ▼ |
| <input type="checkbox"/> Pre-design (design reports) (10%) | Status: | Not Started ▼ | Not Started ▼ |
| <input type="checkbox"/> Schematic design (30%) | Status: | Not Started ▼ | Not Started ▼ |
| <input type="checkbox"/> Design development (75%) | Status: | Not Started ▼ | Not Started ▼ |
| <input type="checkbox"/> Construction documents (95%) | Status: | Not Started ▼ | Not Started ▼ |
| <input type="checkbox"/> Bid documents (ready for bid) | Status: | Not Started ▼ | Not Started ▼ |

Comments relevant to Design/Engineering Status:

0 of 3000

Permit Status (if relevant):

- | | | | |
|---|---------|---------------|---------------|
| <input type="checkbox"/> SEPA | Status: | Not Started ▼ | Not Started ▼ |
| <input type="checkbox"/> '401 | Status: | Not Started ▼ | Not Started ▼ |
| <input type="checkbox"/> Dept of Fish and Wildlife consultation | Status: | Not Started ▼ | Not Started ▼ |
| <input type="checkbox"/> Storage and/or Secondary Use Permit | Status: | Not Started ▼ | Not Started ▼ |
| <input type="checkbox"/> Other: <input type="text"/> | Status: | ▼ | ▼ |
| <input type="checkbox"/> Other: <input type="text"/> | Status: | ▼ | ▼ |
| <input type="checkbox"/> Other: <input type="text"/> | Status: | ▼ | ▼ |