



**ENGLISHMAN RIVER WATER SERVICE JOINT VENTURE  
MEETING OF THE MANAGEMENT BOARD**

*(Immediately following the Arrowsmith Water Service  
Management Board Regular Meeting)*

**TUESDAY, November 1, 2016  
9:30am – 10:30am**

***City of Parksville Forum  
100 Jensen Avenue***

**A G E N D A**

**PAGES**

**CALL TO ORDER**

**DELEGATIONS**

**MINUTES**

- 3-4 Minutes of the Emergency Englishman River Water Service Management Board Meeting held May 10, 2016.

**BUSINESS ARISING FROM THE MINUTES**

**COMMUNICATIONS/CORRESPONDENCE**

- 5-11 **DFO Fisheries Act Authorization**, correspondence dated April 25, 2016 .
- 12-12 **Island Corridor Foundation** – Permission to Occupy Island Corridor Foundation Railway Right of Way correspondence dated May 10, 2016.
- 13-17 **Provincial Approval** – Section 11 (2) Work in and About Englishman River correspondence dated August 12, 2016.

**UNFINISHED BUSINESS**

**REPORTS**

Request for Qualifications, Contract 1 – Intake, Water Treatment Plant, and Top Bridge Reservoir Transmission Main. (M. Squire – verbal)

Request for Qualifications, Contract 2 – Springwood Reservoir Transmission Main. (M. Squire – verbal)

Project Update. (M. Squire – verbal)

18-31

ERWS 2017 – 2021 Financial Plan (M. Squire – verbal/to be distributed).

**ADDENDUM**

**BUSINESS ARISING FROM DELEGATIONS OR COMMUNICATIONS**

**NEW BUSINESS**

**IN CAMERA**

**OTHER**

**NEXT MEETING**

**ADJOURNMENT**

Distribution: J. Stanhope, B. Rogers, M. Lefebvre, S. Powell, M. Squire, B. Weir, R. Alexander

For Information: P. Carlyle, D. Comis, J. Marsh, C. Midgley, W. Idema, G. St. Pierre, V. Figueira, L. Butterworth



**MINUTES OF THE REGULAR MEETING OF THE  
ENGLISHMAN RIVER WATER SERVICE (ERWS) MANAGEMENT BOARD  
HELD ON TUESDAY, MAY 10, 2016 AT 10:00AM  
CITY OF PARKSVILLE FORUM**

<b>Present:</b>	J. Stanhope, Chair B. Rogers R. Alexander M. Lefebvre	Regional District of Nanaimo Regional District of Nanaimo Regional District of Nanaimo City of Parksville
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<b>Also Present:</b>	L. Butterworth D. Comis V. Figueria M. Squire B. Luchtmeijer B. Weir M. Donnelly W. Idema G. St. Pierre R. Graves	City of Parksville City of Parksville City of Parksville City of Parksville Town of Qualicum Beach Town of Qualicum Beach Regional District of Nanaimo Regional District of Nanaimo Regional District of Nanaimo Recording Secretary, RDN
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<b>Regrets:</b>	S. Powell	City of Parksville
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**CALL TO ORDER**  
Meeting called to order at 10:25am.

**DELEGATIONS**

**MINUTES**

MOVED Director Lefebvre, SECONDED Director Rogers, that the minutes from the Englishman River Water Services Management Board held April 18, 2016, be adopted.

CARRIED

**BUSINESS ARISING FROM THE MINUTES**

**COMMUNICATIONS/CORRESPONDENCE**

**DFO Fisheries Act Authorization**, correspondence dated April 24, 2016.

MOVED Director Rogers, SECONDED Director Lefebvre, that the DFO *Fisheries Act* Authorization, correspondence dated April 24, 2016 be received.

CARRIED

**REPORTS**

**ERWS Joint Venture Financial Statements Year Ended December 31, 2015.**

MOVED Director Rogers, SECONDED Director Lefebvre, that the ERWS Joint Venture Draft Financial Statement be received and approved.

CARRIED

**ERWS Joint Venture Agreement Extension Report**

MOVED Director Rogers, SECONDED Director Lefebvre, that the Englishman River Water Service Management Board direct staff to prepare documents to renew the Englishman River Water Service Joint Venture Agreement and forward to the Joint Venture Partners for consideration.

CARRIED

**BUSINESS ARISING FROM DELEGATIONS OR COMMUNICATIONS**

**NEW BUSINESS**

**OTHER**

**QUESTIONS**

The Chair opened the floor to questions and comments, none received.

**IN CAMERA**

**OTHER**

**NEXT MEETING**

**ADJOURNMENT**

MOVED Director Lefebvre, SECONDED Director Rogers, that the meeting be adjourned.

CARRIED

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M. Lefebvre, Chairperson

ERWS - LIC



Fisheries and Oceans  
Canada

Regional Director General  
200 - 401 Burrard Street  
Vancouver, British Columbia  
V6C 3S4

Pêches et Océans  
Canada

Région du Pacifique  
Pièce 200 - 401 rue Burrard  
Vancouver (C.-B.)  
V6C 3S4

Your file      Votre référence

Our file      Notre référence  
15-HPAC-00781

APR 25 2016

Mr. Mike Squire  
Arrowsmith Water Service  
1116 Herring Gull Way  
Parksville, B.C. V9P 1R2

Dear Mr. Squire:

**Subject:**      *Fisheries Act* Authorization

Pursuant to paragraph 35(2)(b) of the *Fisheries Act*, the Minister of Fisheries and Oceans Canada (DFO) authorizes the carrying on of your proposed work, undertaking or activity that results in serious harm to fish arising from operations of your Englishman River water intake project. A paragraph 35(2)(b) *Fisheries Act* authorization is attached.

Failure to comply with any of the terms or conditions of the attached Authorization may lead to prosecution under the *Fisheries Act*.

A copy of this Authorization should be kept on site during operations of your Englishman River water intake project and upon request be provided to relevant federal or provincial officials. Work or operational crews should be familiar with, and able to adhere to, the conditions.

For proposed works, undertakings or activities associated with construction of the project, DFO can confirm that a *Fisheries Act* authorization is not required given that serious harm to fish can be avoided by implementing all of those measures and standards to avoid and mitigate serious harm to fish resulting from construction outlined in Section 5.4.1 of the "Fish Habitat Offsetting Plan for Bulk Water Supply Intake in Englishman River" prepared by LGL Limited environmental research associates and Kerr Wood Leidal Associates Ltd., dated July 2015. In order to comply with the *Fisheries Act*, it is also recommended that you follow our guidance tools which can be found at the following website (<http://www.dfo-mpo.gc.ca/pnw-ppe/measuremesures/index-eng.html>). It remains your responsibility to meet the requirements of other federal, provincial and municipal agencies.

If you or anyone conducting work on your behalf has any questions, please contact Herb Klassen at our Vancouver office at 604-202-0258, or by email at [Herbert.Klassen@dfo-mpo.gc.ca](mailto:Herbert.Klassen@dfo-mpo.gc.ca).

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Reid', written in a cursive style.

Rebecca Reid  
Regional Director General

cc: Brian Naito, Fisheries and Oceans Canada

ATTACHMENT: AUTHORIZATION



**PARAGRAPH 35(2)(b) FISHERIES ACT AUTHORIZATION**

**Authorization issued to**  
Arrowsmith Water Service (*hereafter referred to as the "Proponent"*)

Attention to: Mr Mike Squire  
1116 Herring Gull Way  
Parksville, BC V9P 1R2

**Location of Proposed Project**

The proposed Englishman River water intake (the "Project") is situated on the right bank of Englishman River immediately upstream of the Highway 19 bridge over Englishman River.

Nearest community (city, town, village):	Parksville
Province:	British Columbia
Name of watercourse, waterbody:	Englishman River
Longitude and latitude, UTM Coordinates:	Intake at            49° 18'00 N    124°16'22 W

**Description of Proposed Project**

The proposed project of which the work, undertaking or activity authorized is a part involves:

Operation of a screened river intake structure on the right bank of Englishman River that replaces an existing buried well screen infiltration gallery intake on Englishman River and which supplements the municipal water supply system. The proposed intake and pump capacity would enable a daily water withdrawal up to a maximum rate of 28.8 ML/d (peaking at 0.33 m<sup>3</sup>/sec).

**Description of Authorized work(s), undertaking(s) or activity(ies) likely to result in serious harm to fish**

The work(s), undertaking(s), or activity(ies) associated with the proposed project described above, that are likely to result in serious harm to fish, are:

- Withdrawal of flows up to 0.33 m<sup>3</sup>/sec from the Englishman River through the intake and pumping facilities.

**The serious harm to fish likely to result from the proposed work(s), undertaking(s), or activity(ies), and covered by this authorization includes:**

1. Increased and relocated withdrawal of water from Englishman River is expected to change the velocity and depth downstream of the Project, reducing the steelhead summer parr rearing values in riffle habitats by up to 913 m<sup>2</sup> Weighted Useable Area corresponding to residual flows from maximum instantaneous withdrawals of 0.33 m<sup>3</sup>/s under 10-year drought flow regime in August, as represented by flows of 0.89 m<sup>3</sup>/s measured at the Englishman River Water Survey of Canada gauge, and in glide habitats losses of 1,337 m<sup>2</sup> Weighted Useable Area in August corresponding to mean daily flows of 0.89 m<sup>3</sup>/s at the Englishman River Water Survey of Canada gauge..

2. Increased and relocated withdrawal of water from Englishman River is expected to change the velocity and depth downstream of the Project reducing chinook summer fry rearing values in riffle habitats by up to 1,359 m<sup>2</sup> Weighted Useable Area corresponding to residual flows from maximum instantaneous withdrawals of 0.33 m<sup>3</sup>/s under 10-year drought flow regime in August, as represented by flows of 0.89 m<sup>3</sup>/s measured at the Englishman River Water Survey of Canada gauge, and in glide habitats losses of 1,948 m<sup>2</sup> Weighted Useable Area in August corresponding to mean daily flows of 0.89 m<sup>3</sup>/s at the Englishman River Water Survey of Canada gauge.
3. Increased and relocated withdrawal of water from Englishman River is expected to change the velocity and depth downstream of the Project reducing coho summer fry rearing values in glide habitats by up to 481 m<sup>2</sup> Weighted Useable Area corresponding to residual flows from maximum instantaneous withdrawals of 0.33 m<sup>3</sup>/s under 10-year drought flow regime in August, as represented by flows of 0.89 m<sup>3</sup>/s measured at the Englishman River Water Survey of Canada gauge.
4. Increased and relocated withdrawal of water from Englishman River is expected to change the velocity and depth downstream of the Project reducing steelhead spawning values in glide habitats by up to 420 m<sup>2</sup> Weighted Useable Area corresponding to residual flows from maximum instantaneous withdrawals of 0.33 m<sup>3</sup>/s under 2-year drought flow regime in July, as represented by flows of 1.69 m<sup>3</sup>/s measured at the Englishman River Water Survey of Canada gauge.

#### **Conditions of Authorization**

The above described work, undertaking or activity that is likely to result in serious harm to fish must be carried on in accordance with the following conditions.

1. **Conditions that relate to the period during which the work, undertaking or activity that will result in serious harm to fish can be carried on**

The work, undertaking or activity that results in serious harm to fish is authorized to be carried on during the following period:

- From: Date of Issuance for the life of the project

Fisheries and Oceans Canada (DFO) may, where appropriate, provide written notice that the period to carry on the work, undertaking or activity has been extended.

The periods during which other conditions of this authorization must be complied with are provided in their respective sections below. DFO may, where appropriate, provide written notice that these periods have been extended, in order to correspond to the extension of the period to carry on a work, undertaking, or activity.

2. **Conditions that relate to measures and standards to avoid and mitigate serious harm to fish**
  - 2.1 All measures and standards to avoid and mitigate serious harm to fish outlined in section 5.4.2 of the following document shall be implemented:
    - 2.1.1 "Fish Habitat Offsetting Plan for Bulk Water Supply Intake in Englishman River" prepared by LGL Limited environmental research associates and Kerr Wood Leidal Associates Ltd, dated July 2015.



- 2.2 Contingency measures: Contingency measures to avoid and mitigate serious harm to fish shall be implemented if monitoring required in Section 3 of this Authorization indicates that the measures and standards to avoid and mitigate serious harm to fish are not successful. Contingency measures to be implemented include, but are not limited to, upgraded intake grate maintenance if monitoring indicates fish impingement on the screen and application of more conservative water use restrictions and/or effective water storage schemes if water withdrawal rates approach intake capacities of 0.33 m<sup>3</sup>/s.
- 2.3 Dates by which these measures and standards shall be implemented: installation of a fish exclusion screen for the intake which shall be completed prior to initial flow diversion and commissioning.
3. **Conditions that relate to monitoring and reporting of measures and standards to avoid and mitigate serious harm to fish**
- 3.1 Demonstration of effective implementation and functioning of measures during operations:  
This shall be done, by:
- Once operation of the authorized works, undertakings or activities has commenced, the Proponent shall implement a 5-year Monitoring Plan in keeping with Section 5.8 of "Fish Habitat Offsetting Plan for Bulk Water Supply Intake in Englishman River", by LGL Limited environmental research associates and Kerr Wood Leidal Associates Ltd., dated July 2015, attached as Schedule 1, for effectiveness monitoring and reporting to demonstrate whether measures and standards to avoid and mitigate serious harm to fish were conducted according to the conditions of this Authorization.
  - Providing annual reports including the compliance of operations with the prescribed flow releases from Arrowsmith Dam, operational flows, residual flows after withdrawals, and ramping rates. Reports shall be submitted to DFO in .pdf version by 31 March after each successive year the Project is operating. The reports shall include daily data, incidents of non-conformance to flow releases and flow ramping excursions that have occurred over the year. These reports also shall provide interpretations of biological implications for any incidents involving flow ramping excursions and instream flow releases, and summaries of Section 38 *Fisheries Act* notifications to DFO concerning risks of serious harm.
  - Reporting to DFO on the effectiveness of the Project's mitigation measures in avoiding significant adverse effects on valued environmental components related to fish and fish habitat, in keeping with "Fish Habitat Offsetting Plan for Bulk Water Supply Intake in Englishman River", by LGL Limited environmental research associates and Kerr Wood Leidal Associates Ltd., dated July 2015, attached as Schedule 1.
- 3.1.1 Annual reports for years 1, 2, 3, and 4 shall be provided to DFO by 31 March in 2018, 2019, 2020 and 2021, or in years or dates as otherwise agreed to by DFO. Selection of the fifth year of study shall be in consultation with DFO, with the report provided to DFO by 31 March the following year.
- 3.2 All monitoring reports or results shall be submitted to [referralspecific@dfo-mpo.gc.ca](mailto:referralspecific@dfo-mpo.gc.ca), Fisheries Protection Program, Ecosystems Management Branch, DFO, 200-401 Burrard St., Vancouver, BC, V6C 3S4 and refer to file #15-HPAC-00781.
4. **Conditions that relate to the offsetting of the serious harm to fish likely to result from the authorized work, undertaking or activity**
- 4.1 Letter of credit: A letter of credit of \$167,000 (for offsetting and monitoring) has been submitted to DFO. DFO may draw upon funds set aside by the Proponent through the letter of credit to cover the costs of implementing the offsetting measures required under this authorization including the associated monitoring and reporting measures.
- 4.2 The \$167,000 letter of credit shall be released to the Proponent upon receipt of the required reports of the 5-year Monitoring Program as described in Section 5.8 of "Fish Habitat Offsetting Plan for Bulk Water Supply Intake in Englishman River", by LGL Limited environmental research associates and Kerr Wood

Leidal Associates Ltd., dated July 2015, attached as Schedule 1, and offsetting measures are shown to be functioning as per the criteria in condition 4.4 as confirmed by DFO.

- 4.3 Scale and description of offsetting measures: The offsetting measures comprise of flow releases from Arrowsmith Reservoir as described in Section 5.6.1, as well as instream boulder placement as described in 5.6.2 of "Fish Habitat Offsetting Plan for Bulk Water Supply Intake in Englishman River", by LGL Limited environmental research associates and Kerr Wood Leidal Associates Ltd., dated July 2015, attached as Schedule 1.
- 4.4 Installation of boulder clusters shall be completed prior to completion of intake construction.
- 4.5 Criteria to assess the implementation and effectiveness of the offsetting measures: The fish habitat offsetting measures shall be assessed whether supplemental fish protection flows released and boulder habitats constructed as per Section 5.6 of "Fish Habitat Offsetting Plan for Bulk Water Supply Intake in Englishman River", by LGL Limited environmental research associates and Kerr Wood Leidal Associates Ltd., dated July 2015, attached as Schedule 1 are functioning-as-intended if:
  - analysis of habitat data collected as part of the 5-year Monitoring Programs described in 3.1 demonstrate net gains of steelhead, chinook, and coho habitat values as measured through Weighted Useable Area and wetted habitat area relative to pre-project conditions, as confirmed by DFO.
  - the boulder placements are determined through the 5-year Monitoring Program as described in 3.1 to be physically stable, as confirmed by DFO.
- 4.6 The Proponent shall maintain the offsetting measures as described in 4.3 in a state of functioning-as-intended for the life of the project.
- 4.7 Contingency measures: Should the 5-year Monitoring Program undertaken as required under Condition 3.2 indicate that offsetting measures are not functioning as intended, then:
  - 4.7.1 the Proponent shall design and implement supplementary mitigation and/or offsetting measures as may be required by DFO in the amount equivalent to the magnitude of the reduction. These may involve large woody debris placements as discussed in Section 5.7 of "Fish Habitat Offsetting Plan for Bulk Water Supply Intake in Englishman River", by LGL Limited environmental research associates and Kerr Wood Leidal Associates Ltd., dated July 2015, attached as Schedule 1. If, at any time during the 5-year Monitoring Program, the Proponent becomes aware that the offsetting measures are not functioning as intended, the Proponent shall carry out works and additional monitoring that are necessary, as determined by DFO, to ensure that the offsetting measures are functioning as designed, or
  - 4.7.2 the Proponent shall propose alternative offsetting measures to achieve the overall objective of the offsetting measures as confirmed by DFO.
- 4.8 The Proponent shall not carry on any work, undertaking or activity that will adversely disturb or impact the offsetting measures.
5. **Conditions that relate to monitoring and reporting of implementation of offsetting measures (described above in section 4):**
  - 5.1 Schedule(s) and criteria: The Proponent shall conduct monitoring of the implementation of offsetting measures according to criteria in Section 5.8 of "Fish Habitat Offsetting Plan for Bulk Water Supply Intake in Englishman River", by LGL Limited environmental research associates and Kerr Wood Leidal Associates Ltd., dated July 2015, attached as Schedule 1.
  - 5.2 List of reports to be provided to DFO: The Proponent shall report to DFO on whether the offsetting measures were conducted according to the conditions of this authorization by providing the following:
    - 5.2.1 Annual reports of data collected in years 1 through 4, and a fifth report of data collected in a period when mean daily flow exceedances are observed at >90% measured at the Water

Survey of Canada Englishman River gauge during the Critical Period Streamflow (< 1.0 m<sup>3</sup>/s in July; <1.0 m<sup>3</sup>/s in August; <1.0 m<sup>3</sup>/s in September; or <0.9 m<sup>3</sup>/s in October; i.e. the equivalent of a constant 28.8 ML/d water withdrawal during a 10-year drought) as described in Section 5.8 of "Fish Habitat Offsetting Plan for Bulk Water Supply Intake in Englishman River", by LGL Limited environmental research associates and Kerr Wood Leidal Associates Ltd., dated July 2015, attached as Schedule 1. Annual reports for years 1, 2, 3, and 4 shall be provided to DFO by 31 March in 2018, 2019, 2020 and 2021, or in years or dates as otherwise agreed to by DFO. Selection of the fifth year of study shall be in consultation with DFO, with the report provided to DFO by 31 March the following year.

#### Authorization Limitations and Application Conditions

The Proponent is solely responsible for plans and specifications relating to this authorization and for all design, safety and workmanship aspects of all the works associated with this authorization.

The holder of this authorization is hereby authorized under the authority of Paragraph 35(2)(b) of the *Fisheries Act*, R.S.C., 1985, c.F. 14 to carry on the work(s), undertaking(s) and/or activity(ies) that are likely to result in serious harm to fish as described herein. This authorization does not purport to release the applicant from any obligation to obtain permission from or to comply with the requirements of any other regulatory agencies.

This authorization does not permit the deposit of a deleterious substance in water frequented by fish. Subsection 36(3) of the *Fisheries Act* prohibits the deposit of any deleterious substances into waters frequented by fish unless authorized by regulations made by Governor in Council.

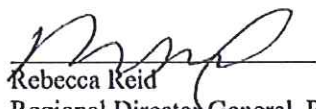
This authorization does not permit the killing, harming, harassment, capture or taking of individuals of any aquatic species listed under the *Species at Risk Act* (SARA) (s. 32 of the SARA), or the damage or destruction of residence of individuals of such species (s. 33 of the SARA) or the destruction of the critical habitat of any such species (s. 58 of the SARA).]

The failure to comply with any condition of this authorization constitutes an offence under Paragraph 40(3)(a) of the *Fisheries Act* and may result in charges being laid under the *Fisheries Act*. This authorization must be held on site and work crews must be made familiar with the conditions attached.

This authorization cannot be transferred or assigned to another party. If the work(s), undertaking(s) or activity(ies) authorized to be conducted pursuant to this authorization are expected to be sold or transferred, or other circumstances arise that are expected to result in a new Proponent taking over the work(s), undertaking(s) or activity(ies), the Proponent named in this authorization shall advise DFO in advance.

Date of Issuance: APR 25 2016

Approved by:

  
Rebecca Reid  
Regional Director General, Pacific Region  
Fisheries and Oceans Canada

#### Schedules:

Schedule 1 – "Fish Habitat Offsetting Plan for Bulk Water Supply Intake in Englishman River", by LGL Limited environmental research associates and Kerr Wood Leidal Associates Ltd., dated July 2015.

CITY OF PARKSVILLE

MAY 10 2016

OPERATIONS

TELEPHONE 250.714.3628

Island Corridor Foundation  
PO 375 Station A  
Nanaimo, BC V9R 5L3

Mr. Mike Squire ASCT  
Director of Operations  
Englishman River Water Service  
1116 Herring Gull Way  
Parksville, BC V9P 1R2

RE: Letter of Permission to Occupy Island Corridor Foundation Railway Right of Way

Dear Mr. Mike Squire ASCT:

We understand that the Englishman River Water Service (ERWS) is proposing to construct a new, larger water intake, a new water treatment plant, and a new water distribution system on and around the Englishman River. We also understand that the proposed new water transmission system will include a pipeline crossing of the Englishman River within the Island Corridor Foundation railway right-of-way (ROW) approximately 100 m downstream of the Highway 19 overpass.

The Island Corridor Foundation provides consent in principal for ERWS to occupy the railway ROW for the proposed pipeline crossing and conduct the investigations required for the design of the crossing. Formal approval to occupy the ROW will be provided upon review and acceptance of detailed design drawings for the river crossing.

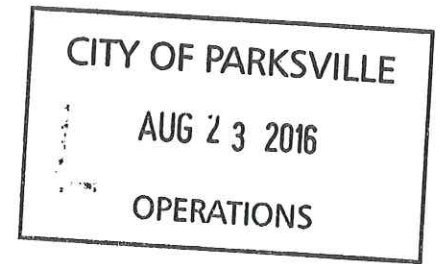
Yours truly,



Graham Bruce  
Chief Executive Office  
Island Corridor Foundation



5600-15-ERWS-41C



August 12, 2016

File: 76910-20/1003422

Mike Squire of Englishman River Water Service  
1116 Herring Gull Way  
Parksville BC V9P 1R2

Email: [msquire@parksville.ca](mailto:msquire@parksville.ca)

Dear Mike Squire:

**Re: Change Approval under Section 11 (2) (a), *Water Sustainability Act*, for Work In and About Englishman River**

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Approval under Section 11 of the *Water Sustainability Act* for changes in and about Englishman River is hereby granted. The approval document is enclosed. Please make careful note of all its conditions.

Several water licences exist downstream of the proposed work on the Englishman River. These have purposes ranging from domestic to water works provider. In consideration of these water rights holders, a condition of this approval will be the notification of each licence holder by the applicant. Please see the attached listing of the water licences and their associated contact information. In the event of an incident during construction, the same licence holders must be contacted immediately while you or your contractors actively work to mitigate any water quality problems.

An environmental monitor must be onsite during all instream work activities.

Please note that this Approval, under Section 11 of the *Water Sustainability Act*, does not include fish habitat concerns and issues under the *Federal Fisheries Act*. A separate authorization process may be required under the *Federal Fisheries Act*.

Any planned cutting of timber must be accompanied by a cutting authority issued through the South Island Natural Resource District.

3111V2-0008 10-010

An appeal to this order may be taken only as directed within Section 105 of the *Water Sustainability Act*. Notice of any appeal must: (1) be in writing; (2) be delivered within 30 days of the date of this letter; (3) include grounds for the appeal; (4) be accompanied by a fee of \$25.00 (cheque or money order payable to Minister of Finance); and (5) be sent by registered mail to the Chair, Environmental Appeal Board, PO Box 9425, Stn Prov Govt, Victoria BC V8W 9V1; or personally delivered to the office of the Board on the 4th Floor, 747 Fort Street, Victoria BC V8W 3E9.

If you have any questions or concerns regarding the document issued, please do not hesitate to contact Aaron Smeeth, Licensed Authorizations Officer - Water at 250 751-7033 or [Aaron.smeeth@gov.bc.ca](mailto:Aaron.smeeth@gov.bc.ca).

Yours truly,

David Robinson  
Assistant Water Manager

Enclosure: Approval Document  
Downstream Water Licence Holder List

cc: Patrick Ledford Lilley, Kerr Wood Leidel Engineering Consultants, [plilley@kwl.ca](mailto:plilley@kwl.ca)

APPROVAL  
CHANGES IN AND ABOUT A STREAM  
Section 11 (2), Clause (a)

This approval grants authority under Section 11 of the *Water Sustainability Act* only, and does not constitute permission or consent under any other Act or authority.

Mike Squire of Englishman River Water Service is hereby authorized to make the following changes in and about Englishman River at a location best described as E&N Railway Right-of-Way Block 1494, Plan VIP6444, Lot 1 at the coordinates 49.3011000, -124.2756000.

**Changes proposed:**

Stream bed investigation using an auger and excavator (investigation research intended for subsequent year's pipeline installation).

**APPROVAL CONDITIONS AND SPECIFICATIONS**

1. The work authorized under this Approval shall be completed on or before September 15, 2016.
2. In-stream work shall be undertaken only during the period of June 15<sup>th</sup> to September 15<sup>th</sup>. Any work in the stream outside this period is to be confirmed with the Regional Ecosystems Biologist, Ministry of Forests, Lands and Natural Resource Operations (FLNR) and Fisheries and Oceans Canada office.
3. All works are to be constructed in accordance with the Project Report "ERWS Water Intake, Treatment Plant and Supply Mains" by Kerr Wood Leidel Biologists (dated May 13, 2016).
4. Prior to initiating work, the applicant must notify the existing water rights holders who hold rights on the Englishman River, downstream of the proposed work. In the event of a spill of hazardous substance or a significant turbidity/sediment increase resulting from your work, the Licence holders must be notified immediately while the applicant attempts to mitigate the circumstances. Depending on the use and feedback from the water licence holders, the applicant may consider providing an alternate source of water for their uses, for the duration of instream work.
5. The applicant must apply for a Fish Collection Permit well ahead of planned work in stream.
6. Any felling of trees will require a cutting authority through the South Island Natural Resource District.
7. The applicant must ensure that a suitably qualified environmental monitor is on site during all instream construction activities. The environmental monitor will direct work to be stopped if necessary in order to prevent harm to fish, fish habitat or water quality.
8. Machinery shall be in good mechanical condition such that there is no leakage of substances, deleterious to fish, into the stream.
9. A spill prevention plan and spill response plan must be available at the work site

14. Every holder of an approval, or person who makes a change in and about a stream in accordance with the regulations, shall exercise reasonable care to avoid damaging land, works, trees, or other property; and shall make full compensation to the owners for damage or loss resulting from construction, maintenance, use, operation, or failure of the works.
15. During the works phase, the change in and about a stream must be designed, constructed, and maintained in such a manner that the change does not pose a significant danger to life, property, or the environment. Subsequent to work completion, the stream channel must be left as it was found, in a stable condition.
16. The applicant must, while making the change in and about the stream:
- (a) maintain water quality;
  - (b) maintain stream channel integrity;
  - (c) maintain surface and sub-surface drainage systems and flows;
  - (d) conserve wildlife habitat, including riparian vegetation;
  - (e) protect fish habitat and fish passage;
  - (f) prevent erosion, mass wasting, siltation; and
  - (g) prevent degradation to water quality at the intake of existing water supplies authorized under the *Water Sustainability Act*.

Digitally signed by David  
Robinson  
DN: cn=David Robinson,  
o=FLNRO, ou=Authorizations,  
email=david.robinson@gov.bc.ca  
, c=CA  
Date: 2016.08.12 16:04:04 -07'00'

David Robinson  
Assistant Water Manager

Issued Date: August 12, 2016      Approval No.: 1003422

Water District: Nanaimo      Precinct: Nanaimo



Licence Type	Licence #	Name	Address	Phone	Email
Domestic	C059703	Richard A Elkie	658 Martindale Road, Parksville BC V9P 1R8	NA	NA
Domestic	C037976	Dale and Peggy Green	825 Levis Road, Parksville BC V9P 1R8	NA	NA
Domestic	C064079	Dale and Peggy Green	825 Levis Road, Parksville BC V9P 1R8	NA	NA
Domestic	C037975	Wiegand G Dyck	PO Box 880, Parksville BC V9P 2G9	NA	seagone@telus.net
Domestic	C052934	Robert Majewski	2420 Nanoose Road, Nanoose Bay BC V9P 9E6	250-607-7089	NA
Domestic	C038418	Karen A Easton	602 MARTINDALE RD, PARKSVILLE BC V9P 1R8	NA	NA
Domestic	C039684	Issachar and Fiona Auerbach	598 MARTINDALE RD, PARKSVILLE BC V9P 1R8	250-248-8224	NA
Domestic	F015340	C Irene Cormie	1355 Greig Road, Parksville BC V9P 1R6	NA	NA
Comm. Enterprise	C024281	0724481 BC Ltd	1 924 Island Highway E, Parksville BC V9P 1R6	250-248-3134	NA
Comm. Enterprise	C042793	0724481 BC Ltd	1 924 Island Highway E, Parksville BC V9P 1R6	250-248-3134	NA
Domestic	C117877	Joan and Andrew Sturrock	850 East Island Highway, Parksville BC V9P 1R6	NA	NA
Waterworks: Water Delivery	C045309	Fyre Holdings Ltd	PO Box 1600 201-156 Morison Ave, Parksville BC V9P 2H5	NA	NA
Waterworks: Local Provider	C023297	City of Parksville	PO Box 1390 100 East Jensen Ave, Parksville BC V9P 2H3	250-248-6144	NA
Waterworks: Local Provider	C022058	City of Parksville	PO Box 1390 100 East Jensen Ave, Parksville BC V9P 2H3	250-248-6144	NA
Waterworks: Local Provider	C026692	City of Parksville	PO Box 1390 100 East Jensen Ave, Parksville BC V9P 2H3	250-248-6144	NA
Stream Storage: Non-Power	C129710	Arrowsmith Water Service	c/o city of Parksville, PO Box 1390 100 East Jensen Ave, Parksville BC V9P 2H3	250-248-6144	NA
Waterworks: Local Provider	C100831	Arrowsmith Water Service	c/o city of Parksville, PO Box 1390 100 East Jensen Ave, Parksville BC V9P 2H3	250-248-6144	NA
Domestic	C100831	Gordon and Brenda Vaughan	235 Allsbrook Road, Parksville BC V9P 2A8	NA	Darrell Decker?
Domestic	C059692	Richars and Lorraine Fuller	664 Martindale Rd., Parksville BC V9P 1R8	NA	NA



englishman river  
WATER SERVICE

DATE: October 27, 2016

REPORT TO: ENGLISHMAN RIVER WATER SERVICE MANAGEMENT BOARD

FROM: ENGLISHMAN RIVER WATER SERVICE MANAGEMENT COMMITTEE

SUBJECT: ENGLISHMAN RIVER WATER SERVICE (ERWS)  
2017 - 2021 FINANCIAL PLAN

PURPOSE: ADOPTION OF THE ERWS 2017 - 2021 FINANCIAL PLAN

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**EXECUTIVE SUMMARY:**

The ERWS 2017 - 2021 Financial Plan sets out the financial requirements needed to advance the objectives of bulk water supply to the Joint Venture Communities. The proposed capital budget is based on a firm membrane filtration treatment capacity of 16 million liters per day.

The ERWS 2017 - 2021 Financial Plan reflects unspent funds from 2016 that are required to be added to the year 2017 budget to account for ongoing consulting and capital works carrying over into year 2017. The ERWS 2017 - 2021 Financial Plan also reallocates funds accordingly to reflect the current detailed design cost estimate prepared by CH2M Hill.

**RECOMMENDATION(S):**

1. THAT the report from the Englishman River Water Service Management Committee, dated October 27, 2016, entitled ERWS 2017 - 2021 Financial Plan be received;
2. AND THAT the Englishman River Water Service Management Board accept the 2017 - 2021 Financial Plan as outlined in Table 1 attached to the October 27, 2016 report;
3. AND THAT the Englishman River Water Service Management Board recommend the Joint Ventures adopt their portion of the 2017 - 2021 Financial Plan as outlined in Table 2 attached to the October 27, 2016 report.

**BACKGROUND:**

Table 1 outlines the detailed total ERWS project cost and Table 2 references each jurisdiction's share to take forward to each respected Council / Board for ratification.

With the formation of the Englishman River Water Service and further advancement of the Capital Plan to the detailed design stage, the 2017 - 2021 Financial Plan was reviewed and updated in an effort to outline potential anticipated funding requirements for operations and capital expenditures for the next five years.

It was determined that unspent funds from 2016 are required to be added to the 2017 - 2021 Financial Plan to account for works carried forward into year 2017. Unspent budget items in year 2016 are required to be transferred to year 2017 in order to finalize all tasks and keep the project on schedule. Being that the ERWS is a joint venture partnership; no formal governance is in place to carry forward funds from the current year into future year budgets as the ERWS is only funded by the partners for actual funds spent. Therefore, an increase in the 2017 budget is required to reflect an estimate of the unspent amounts and to reflect the amounts actually needed for 2017. Additionally, separate account numbers have been assigned to each jurisdiction's transmission main projects in an effort to track and attribute expenses to each project accordingly.

The proposed budget adjustments required to the 2017 - 2021 Financial Plan account for an overall increase of approximately 13 % compared to last year and the following tables summarize the changes:

Table 1 - ERWS

<b>Water Treatment, Intake &amp; Transmission Mains</b>	<b>Preliminary Design Cost Estimate - December 9, 2015 (Not including Professional Services)</b>	<b>2016 - 2020 Final Budget April 18, 2016</b>	<b>2017- 2021 Provisional Budget</b>	<b>Budget Difference</b>
Water Treatment Plant	15,210,000	16,040,900	18,990,000	(2,949,100)
River Intake / Raw Water Supply Main	4,530,000	5,400,000	6,810,000	(1,410,000)
Springwood Transmission Main	6,190,000	6,300,000	5,700,000	600,000
ERWS Joint Transmission Mains	890,000	1,043,700	1,000,000	43,700
<b>Total:</b>	<b>26,820,000</b>	<b>28,784,600</b>	<b>32,500,000</b>	<b>(3,715,400)</b>

Table 2 - CoP Allocation

<b>Water Treatment, Intake &amp; Transmission Mains</b>	<b>Preliminary Design Cost Estimate - December 9, 2015 (Not including Professional Services)</b>	<b>2016 - 2020 Final Budget April 18, 2016</b>	<b>2017- 2021 Provisional Budget</b>	<b>Budget Difference</b>
Water Treatment Plant	11,255,400	11,870,266	14,052,600	(2,182,334)
River Intake / Raw Water Supply Main	3,352,200	3,996,000	5,039,400	(1,043,400)
Springwood Transmission Main	6,190,000	6,300,000	5,700,000	600,000
ERWS Joint Transmission Mains	658,600	772,338	740,000	32,338
<b>Total:</b>	<b>21,456,200</b>	<b>22,938,604</b>	<b>25,532,000</b>	<b>(2,593,396)</b>

Table 2 - RDN Allocation

<b>Water Treatment, Intake &amp; Transmission Mains</b>	<b>Preliminary Design Cost Estimate - December 9, 2015 (Not including Professional Services)</b>	<b>2016 - 2020 Final Budget April 18, 2016</b>	<b>2017- 2021 Provisional Budget</b>	<b>Budget Difference</b>
Water Treatment Plant	3,954,600	4,170,634	4,937,400	(766,766)
River Intake / Raw Water Supply Main	1,177,800	1,404,000	1,770,600	(366,600)
Springwood Transmission Main	0	0	0	0
ERWS Joint Transmission Mains	231,400	271,362	260,000	11,362
<b>Total:</b>	<b>5,363,800</b>	<b>5,845,996</b>	<b>6,968,000</b>	<b>(1,122,004)</b>

A constructability review was undertaken on the tender package from the construction branch of CH2M with the intention to identify high, medium and low priority issues that may result in extra costs. This constructability review was prepared prior to tendering to ensure that the tender package has been thoroughly reviewed with consideration and mitigation of issues that may be considered by a contractor as part of bidding on the tender package. As a result of the review, design and specifications have been revised and a 4 % escalation and 5 % contingency have also been allotted to account for any unknown risks or construction restraints resulting in additional potential increased costs.

The project also went through a Value Engineering (VE) exercise which resulted in a potential provisional cost savings of over \$ 5 million.

The 2017 - 2021 budget includes additions to the project scope of work resulting in potential extra costs. The additional items are summarized below:

Water Treatment Plant:

- The addition of Fire Suppression requirements in order to be in conformance with the City of Parksville Bylaw No. 1387.
- The addition of Secondary Membrane Treatment from backwash of Primary membranes. This will allow the water treatment plant to reduce the waste to the sanitary sewer and increase the filtered water production from 95 % to 99.3 %. Although this has upfront initial additional capital costs, this will reduce the amount of waste and therefore reduce the annual operating costs to the City of Parksville’s sanitary sewer collection system and the French Creek Pollution Control Centre.
- As a result of the secondary membranes, potential additional water treatment requirements may be imposed by Island Health. The Construction Permit to Island Health was submitted on August 25, 2016 and to date we have not heard back from Island Health. In an effort to keep the project on schedule, we are proceeding with the project and have started the tendering process on October 20, 2016.
- Local Cost factor increase for labour costs of concrete supply and install (approximately 30 % more).
- Additional Proof piloting of the selected membrane vendor resulted in additional costs to determine sand separation requirements.

### River Intake / Raw Water Supply Main:

- Further consultation with DFO resulted in the removal of the concrete weir and resulted in an increase in overall size of the river intake.
- Proof piloting determined a requirement for overall sand separation and grit removal. It was determined that locating the majority of the sand separation to occur at the river intake to the raw water as opposed to at the treatment plant would result in less waste going into the sanitary sewer system. This initial capital upgrade improvement would result in better membrane filter performance and less long term operating cost to the sanitary sewer and treatment systems.

### Engineering Services Costs:

- Additional costs for alternate transmission alignment reviews and reports.
- Additional costs to review reduced scale water treatment and project phasing.
- Further geotechnical evaluations were required as a result of potential unfavorable ground conditions, bank assessments and rock excavation.
- Further Archeological investigations and costs associated with involvement with First Nation consultation and permitting requirements.

### Other Costs:

- Development Cost Charges (DCC) payable to the City of Parksville and the Regional District of Nanaimo
- Waste Discharge Permit application - Regional District of Nanaimo Fees
- A budget increase for both capital and operating allowance of \$ 400,000 has been allotted for this.

A 2017 - 2021 Financial Plan has been prepared for consideration by the ERWS Management Board. The proposed budget is shown on Table 1, attached.

### OPTIONS:

1. Accept the ERWS 2017 - 2021 Financial Plan as presented in Table 1 attached.
2. Provide the ERWS Management Committee with further direction.

### ANALYSIS:

#### Option 1

This is consistent with the ERWS Management Committee recommendation to proceed with the project and would allow completion by October 2018.

#### Option 2

The 2017 - 2021 Financial Plan sets out the financial requirements needed for ERWS to carry out projects necessary to advance ERWS objectives.

**FINANCIAL IMPACT:**

Cost sharing for the Englishman River Water Service budget is established based on ownership (i.e. Parksville 74 % and RDN 26 %) as referenced in Schedule "C" of the Englishman River Water Service Joint Venture, dated July 1, 2011.

Years 2017 to 2021 in the Financial Plan show substantial capital to carry out the construction of the new water intake and water treatment facility. Funds for such projects are currently available in both the City of Parksville and the Regional District of Nanaimo surplus reserve accounts and authorized long-term borrowing. The ERWS has received \$6 million in funding from senior government that will help augment these costs. The additional funds to account for the 13 % increase are available through GAS Tax funding.

The ERWS 2017 - 2021 Financial Plan sets out the financial requirements needed for the ERWS staff to carry out the project for the next several years. Without this plan the capital projects and predesign activities would be delayed or halted due to insufficient funds or potentially funded through future grants.

**REFERENCES:**

April 8, 2012 report from the Englishman River Water Service Management Committee to the Englishman River Management Board regarding the ERWS Project Implementation Strategy.

March 12, 2015 report from Englishman River Water Service Management Committee to the Englishman River Management Board providing an update regarding the Department of Fisheries and Oceans Canada position on the proposed new intake on the Englishman River.

November 13, 2014 report from Englishman River Water Service Management Committee to the Englishman River Management Board regarding ERWS Water Intake and Treatment Plant Phasing Options.

November 8, 2014 report from City of Parksville Chief Administrative Officer to Mayor and Council regarding ERWS Water Intake and Treatment Plant Options.

June 23, 2014 report from City of Parksville Chief Administrative Officer to Mayor and Council regarding borrowing bylaw referendum in conjunction with the November 2014 general local government elections.

Englishman River Water Service Agreement - July 1, 2011.

ERWS Revision to the Project Implementation Strategy - July 27, 2015.

Table 1, dated October 12, 2016 showing the recommended ERWS Final 2017 - 2021 Financial Plan and Table 2 showing each Joint Venture's requisition share.

<b>TABLE 1</b> <b>ENGLISHMAN RIVER WATER SERVICE</b> <b>2017 - 2021 FINANCIAL PLAN (\$)</b>												
	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 YTD	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget	2021 Budget
<b>REVENUE</b>												
<b>Joint Venture Requisitions</b>												
Parksville Requisition (74 %)	1,082,538	225,017	443,183	593,655	468,754	1,485,364	11,258,780	13,590,772	7,412,169	694,069	979,073	398,381
RDN Requisition (26%)	380,351	79,060	155,713	208,581	164,697	451,245	2,638,220	3,631,488	1,780,357	2,008,727	343,999	139,972
<b>Total Joint Venture Requisitions</b>	<b>1,462,889</b>	<b>304,077</b>	<b>598,896</b>	<b>802,236</b>	<b>633,452</b>	<b>1,936,609</b>	<b>13,897,000</b>	<b>17,222,260</b>	<b>9,192,525</b>	<b>2,702,796</b>	<b>1,323,072</b>	<b>538,353</b>
<b>Other Revenue</b>												
Grants	0	483,801	669,172	581,257	0	0	1,000,000	3,000,000	2,000,000	0	0	0
Transfer From Reserves	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Other Revenue</b>	<b>0</b>	<b>483,801</b>	<b>669,172</b>	<b>581,257</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>	<b>3,000,000</b>	<b>2,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL REVENUE</b>	<b>1,462,889</b>	<b>787,878</b>	<b>1,268,068</b>	<b>1,383,493</b>	<b>633,452</b>	<b>1,936,609</b>	<b>14,897,000</b>	<b>20,222,260</b>	<b>11,192,525</b>	<b>2,702,796</b>	<b>1,323,072</b>	<b>538,353</b>
<b>EXPENDITURES</b>												
<b>Operating</b>												
<b>Administration (Operating)</b>												
Salaries / Wages	1,950	0	259	0	258	1,156	0	0	0	84,000	84,000	84,000
Training	0	2,060	0	59	0	0	100	102	104	106	108	110
Conferences / Seminars	0	1,006	0	0	0	0	0	0	0	0	0	0
Memberships	0	273	301	0	0	0	0	0	0	0	0	0
Contracts	1,628	748	5,109	1,819	0	0	2,000	2,040	2,081	2,122	2,165	2,208
Consulting	256	0	0	470	0	0	0	0	0	0	0	0
Legal Fees	0	2,596	0	0	3,427	0	3,500	3,570	3,641	3,714	3,789	3,864
Audit Fees	0	4,172	4,100	4,100	4,100	0	4,100	4,182	4,266	4,351	4,438	4,527
Tel / Cable	0	809	924	602	0	0	500	510	520	531	541	552
Meeting Costs	8	478	608	1,276	1,901	838	1,500	1,530	1,561	1,592	1,624	1,656
Licences and Insurance	0	0	0	0	884	833	500	510	520	531	541	552
Advertising	0	0	0	766	11,382	0	200	204	208	212	216	221
Printing	0	0	0	0	1,920	0	0	0	0	0	0	0
Courier	0	0	0	44	29	0	100	102	104	106	108	110
Small Tools, Equipment & Furniture	81	1,631	139	356	0	1,481	500	510	520	531	541	552
Hydro	0	0	0	0	53	0	0	0	0	0	0	0
Minor Capital - Contracts	1,209	0	0	0	0	0	0	0	0	0	0	0
Minor Capital - Parts / Materials	503	0	0	0	0	0	0	0	0	0	0	0
Intake, Raw Watermain and Joint Transmission Mains										150,000	150,000	150,000
Water Treatment Plant										225,000	225,000	225,000
ASR										0	0	0
<b>Total Administration (Operating)</b>	<b>5,634</b>	<b>13,772</b>	<b>11,440</b>	<b>9,492</b>	<b>23,954</b>	<b>4,308</b>	<b>13,000</b>	<b>13,260</b>	<b>13,525</b>	<b>472,796</b>	<b>473,072</b>	<b>473,353</b>
<b>Total Operating</b>	<b>5,634</b>	<b>13,772</b>	<b>11,440</b>	<b>9,492</b>	<b>23,954</b>	<b>4,308</b>	<b>13,000</b>	<b>13,260</b>	<b>13,525</b>	<b>472,796</b>	<b>473,072</b>	<b>473,353</b>

Capital - Program Summary

Description	G/L	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 YTD	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget	2021 Budget
Property Acquisition - Administration	7-6-28-9750-300	13,683	-4,070	11,203	0	0	0	0	0	0	0	0	0
Property Acquisition - Contracts	7-6-28-9750-330	4,983	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition - Consulting	7-6-28-9750-331	6,574	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition - Equipment Res Charge Out	7-6-28-9750-800	136	739	0	0	0	0	0	0	0	0	0	0
Property Acquisition - Parts Materials / Supplies	7-6-28-9750-450	1,200,550	0	0	0	0	0	0	0	0	0	0	0
<b>Total Property Acquisition</b>		<b>1,225,925</b>	<b>-3,331</b>	<b>11,203</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
River Intake / Supply Mains - Administration	7-6-28-9751-300	48,421	34,906	39,635	35,808	15,212	0	42,000	42,000	42,000	0	0	0
River Intake / Supply Mains - Contracts	7-6-28-9751-330	358	256	0	1,031	1,450	0	2,400,000	4,770,000	1,300,000	180,000	0	0
River Intake / Supply Mains - Engineering	7-6-28-9751-331	10,685	17,681	338,863	490,301	236,921	449,254	200,000	280,000	280,000	0	0	0
River Intake / Supply Mains - Legal	7-6-28-9751-332	0	0	0	0	1,592	0	0	0	0	0	0	0
River Intake / Supply Mains - Advertising	7-6-28-9751-410	0	0	0	603	0	0	0	0	0	0	0	0
River Intake / Supply Mains - Meetings	7-6-28-9751-423	0	103	3,822	790	780	0	0	0	0	0	0	0
River Intake / Supply Mains - Parts / Supplies	7-6-28-9751-450	3,023	389	1,008	443	489	0	0	0	0	0	0	0
River Intake / Supply Mains - Equip. Charge Out	7-6-28-9751-800	2,189	727	19	0	1,188	0	0	0	0	0	0	0
River Intake / Supply Mains - Equip. Lease / Rent	7-6-28-9751-340	28	0	915	0	0	0	0	0	0	0	0	0
Joint Transmission Main - Contracts	7-6-28-9754.330						0	500,000	560,000	310,000	50,000		
Joint Transmission Main - Consulting	7-6-28-9754.331						101,814	0	40,000	40,000			
COP Transmission Main - Contracts	7-6-28-9755-330							3,750,000	3,030,000	2,120,000	100,000		
COP Transmission Main - Consulting	7-6-28-9755-331						201,050	0	225,000	225,000			
RDN - Craig Bay Pump Station / Top Bridge Transmission											1,800,000		
<b>Total River Intake / Supply Mains</b>		<b>64,703</b>	<b>54,062</b>	<b>384,263</b>	<b>528,976</b>	<b>257,632</b>	<b>752,118</b>	<b>6,892,000</b>	<b>8,947,000</b>	<b>4,317,000</b>	<b>2,130,000</b>	<b>0</b>	<b>0</b>
Water Treatment - Administration	7-6-28-9752-300	23,513	44,296	41,016	33,595	16,831	27,610	42,000	42,000	42,000	0	0	0
Water Treatment - Travel	7-6-28-9752-307	0	0	6,420			0	0					
Water Treatment - Contracts	7-6-28-9752-330	27,222	20,167	0	1,032	45,327	43,372	7,200,000	10,600,000	6,200,000	100,000	850,000	0
Water Treatment - Engineering	7-6-28-9752-331	78,978	123,760	127,492	490,301	161,300	1,100,123	750,000	620,000	620,000	0	0	0
Water Treatment - Equip. Lease / Rental	7-6-28-9752-340	9,057	22,949	0	0	0	0	0	0	0	0	0	0
Water Treatment - Rent & Lease	7-6-28-9752-345	900	1,614	0	0	0	0	0	0	0	0	0	0
Water Treatment - Insurance / Permits	7-6-28-9752-400	102	102	0	0	0	500	0	0	0	0	0	0
Water Treatment - Advertising	7-6-28-9752-410	0	0	0	603	511	0	0	0	0	0	0	0
Water Treatment - Meeting Costs	7-6-28-9752-423	0	0	0	791	0	0	0	0	0	0	0	0
Water Treatment - Parts and Materials	7-6-28-9752-450	1,759	525	0	443	2,782	1,923	0	0	0	0	0	0
Water Treatment - Courier	7-6-28-9752-452	0	611	0	0	485	1,770	0	0	0	0	0	0
Water Treatment - Equip Res Charge	7-6-28-9752-800	0	306	739	0	485	2,726	0	0	0	0	0	0
Water Treatment - Gas & Oil	7-6-28-9752-460	689	0	0	0	0	0	0	0	0	0	0	0
Water Treatment - Hydro	7-6-28-9752-460					553	2,159						
<b>Total Water Treatment</b>		<b>142,219</b>	<b>214,330</b>	<b>175,666</b>	<b>526,765</b>	<b>228,274</b>	<b>1,180,183</b>	<b>7,992,000</b>	<b>11,262,000</b>	<b>6,862,000</b>	<b>100,000</b>	<b>850,000</b>	<b>0</b>



Capital - Program Summary

Description	G/L	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 YTD	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget	2021 Budget
Aquifer Storage and Recovery - Administration	7-6-28-9753-300	0	47,966	68,824	42,248	10,218	0	0	0	0	0	0	15,000
Aquifer Storage and Recovery - Contracts	7-6-28-9753-330	0	184,135	234,995	135,486	99,833	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Engineering	7-6-28-9753-331	24,407	263,943	229,267	128,733	13,232	0	0	0	0	0	0	50,000
Aquifer Storage and Recovery - Equip Rental	7-6-28-9753-340	0	1,806	1,619	605	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Meeting Costs	7-6-28-9753-423	0	120	134	754	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Advertising	7-6-28-9753-410	0	0	0	603	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Parts / Materials	7-6-28-9753-450	0	9,491	136,424	5,894	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Small Tools	7-6-28-9753-451	0	0	5,832	39	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Courier	7-6-28-9753-452	0	0	0	161	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Hydro	7-6-28-9753-461	0	0	500	1,652	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Equip Res Charge Out	7-6-28-9753-800	0	1,585	7,901	2,086	309	0	0	0	0	0	0	0
<b>Total Aquifer Storage and Recovery</b>		<b>24,407</b>	<b>509,045</b>	<b>685,496</b>	<b>318,261</b>	<b>123,592</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>65,000</b>
<b>Total Capital</b>		<b>1,457,254</b>	<b>774,107</b>	<b>1,256,628</b>	<b>1,374,001</b>	<b>609,498</b>	<b>1,932,301</b>	<b>14,884,000</b>	<b>20,209,000</b>	<b>11,179,000</b>	<b>2,230,000</b>	<b>850,000</b>	<b>65,000</b>
<b>TOTAL EXPENDITURES</b>		<b>1,462,889</b>	<b>787,878</b>	<b>1,268,068</b>	<b>1,383,493</b>	<b>633,452</b>	<b>1,936,609</b>	<b>14,897,000</b>	<b>20,222,260</b>	<b>11,192,525</b>	<b>2,702,796</b>	<b>1,323,072</b>	<b>538,353</b>

**TABLE 2**  
**Parkville Requisition - ERWS**  
**2017 - 2021 FINANCIAL PLAN (\$)**

	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 YTD	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget	2021 Budget
<b>REVENUE</b>												
<b>Joint Venture Requisitions</b>												
Parkville Requisition (74%)	1,082,538	225,017	443,183	593,655	468,754	1,485,364	11,258,780	13,590,772	7,412,169	694,069	979,073	398,381
<b>Other Revenue</b>												
Grants	0	358,013	495,187	430,130	0	0	740,000	2,220,000	1,480,000	0	0	0
Transfer From Reserves	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Other Revenue</b>	<b>0</b>	<b>358,013</b>	<b>495,187</b>	<b>430,130</b>	<b>0</b>	<b>0</b>	<b>740,000</b>	<b>2,220,000</b>	<b>1,480,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL REVENUE</b>	<b>1,082,538</b>	<b>583,030</b>	<b>938,370</b>	<b>1,023,785</b>	<b>468,754</b>	<b>1,485,364</b>	<b>11,998,780</b>	<b>15,810,772</b>	<b>8,892,169</b>	<b>694,069</b>	<b>979,073</b>	<b>398,381</b>
<b>EXPENDITURES</b>												
<b>Operating</b>	<b>74%</b>	<b>74%</b>	<b>74%</b>	<b>74%</b>	<b>74%</b>	<b>74%</b>	<b>74%</b>	<b>74%</b>	<b>74%</b>	<b>74%</b>	<b>74%</b>	<b>74%</b>
<b>Administration (Operating)</b>												
Salaries / Wages 7-2-28-7310-300	1,443	0	192	0	191	855	0	0	0	62,160	62,160	62,160
Training 7-2-28-7310-306	0	1,524	0	44	0	0	74	75	77	79	80	82
Conferences / Seminars 7-2-28-7310-307	0	744	0	0	0	0	0	0	0	0	0	0
Memberships 7-2-28-7310-311	0	202	223	0	0	0	0	0	0	0	0	0
Contracts 7-2-28-7310-330	1,205	554	3,780	1,346	0	0	1,480	1,510	1,540	1,571	1,602	1,634
Consulting 7-2-28-7310-331	189	0	0	348	0	0	0	0	0	0	0	0
Legal Fees 7-2-28-7310-332	0	1,921	0	0	2,536	0	2,590	2,642	2,695	2,749	2,803	2,860
Audit Fees 7-2-28-7310-333	0	3,087	3,034	3,034	3,034	0	3,034	3,095	3,157	3,220	3,284	3,350
Tel / Cable 7-2-28-7310-422	0	599	684	445	0	0	370	377	385	393	400	409
Meeting Costs 7-2-28-7310-423	6	354	450	944	1,407	620	1,110	1,132	1,155	1,178	1,201	1,226
Licences and Insurance 7-2-28-7310-400	0	0	0	0	654	616	370	377	385	393	400	409
Advertising 7-2-28-7310-410	0	0	0	566	8,423	0	148	151	154	157	160	163
Printing 7-2-28-7310-413					1,421							
Courier 7-2-28-7310-452	0	0	0	33	21	0	74	75	77	79	80	82
Small Tools, Equipment & Furniture 7-2-28-7310-450	60	1,207	103	263	0	1,096	370	377	385	393	400	409
Hydro 7-2-28-7310-461					39							
Minor Capital - Contracts 7-2-28-7350-330	895	0	0	0	0	0	0	0	0	0	0	0
Minor Capital - Parts / Materials 7-2-28-7350-450	372	0	0	0	0	0	0	0	0	0	0	0
Intake, Raw Watermain and Joint Transmission Mains										111,000	111,000	111,000
Water Treatment Plant										166,500	166,500	166,500
ASR										0	0	0
<b>Total Administration (Operating)</b>	<b>4,169</b>	<b>10,191</b>	<b>8,465</b>	<b>7,024</b>	<b>17,726</b>	<b>3,188</b>	<b>9,620</b>	<b>9,812</b>	<b>10,009</b>	<b>349,869</b>	<b>350,073</b>	<b>350,281</b>
<b>Total Operating</b>	<b>4,169</b>	<b>10,191</b>	<b>8,465</b>	<b>7,024</b>	<b>17,726</b>	<b>3,188</b>	<b>9,620</b>	<b>9,812</b>	<b>10,009</b>	<b>349,869</b>	<b>350,073</b>	<b>350,281</b>

Capital - Program Summary

Description	G/L	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 YTD	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget	2021 Budget
		74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%
Property Acquisition - Administration	7-6-28-9750-300	10,125	-3,011	8,290	0	0	0	0	0	0	0	0	0
Property Acquisition - Contracts	7-6-28-9750-330	3,688	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition - Consulting	7-6-28-9750-331	4,865	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition - Equipment Res Charge Out	7-6-28-9750-800	101	547	0	0	0	0	0	0	0	0	0	0
Property Acquisition - Parts Materials / Supplies	7-6-28-9750-450	888,407	0	0	0	0	0	0	0	0	0	0	0
<b>Total Property Acquisition</b>		<b>907,185</b>	<b>-2,465</b>	<b>8,290</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
River Intake / Supply Mains - Administration	7-6-28-9751-300	35,832	25,830	29,330	26,498	11,257	0	31,080	31,080	31,080	0	0	0
River Intake / Supply Mains - Contracts	7-6-28-9751-330	265	190	0	763	1,073	0	1,776,000	3,529,800	962,000	133,200	0	0
River Intake / Supply Mains - Engineering	7-6-28-9751-331	7,907	13,084	250,759	362,823	175,322	332,448	148,000	207,200	207,200	0	0	0
River Intake / Supply Mains - Legal	7-6-28-9751-332	0	0	0	0	1,178	0	0	0	0	0	0	0
River Intake / Supply Mains - Advertising	7-6-28-9751-410	0	0	0	446	0	0	0	0	0	0	0	0
River Intake / Supply Mains - Meetings	7-6-28-9751-423	0	76	2,828	585	577	0	0	0	0	0	0	0
River Intake / Supply Mains - Parts / Supplies	7-6-28-9751-450	2,237	288	746	328	362	0	0	0	0	0	0	0
River Intake / Supply Mains - Equip. Charge Out	7-6-28-9751-800	1,619	538	14	0	879	0	0	0	0	0	0	0
River Intake / Supply Mains - Equip. Lease / Rent	7-6-28-9751-340	21	0	677	0	0	0	0	0	0	0	0	0
Joint Transmission Main - Contracts	7-6-28-9754-330	0	0	0	0	0	0	370,000	414,400	229,400	37,000	0	0
Joint Transmission Main - Consulting	7-6-28-9754-331	0	0	0	0	0	75,342	0	29,600	29,600	0	0	0
COP Transmission Main - Contracts	7-6-28-9755-330	0	0	0	0	0	0	3,750,000	3,030,000	2,120,000	100,000	0	0
COP Transmission Main - Consulting	7-6-28-9755-331	0	0	0	0	0	201,050	0	225,000	225,000	0	0	0
RDN - Craig Bay Pump Station / Top Bridge Transmission											0		
<b>Total River Intake / Supply Mains</b>		<b>47,880</b>	<b>40,006</b>	<b>284,354</b>	<b>391,442</b>	<b>190,648</b>	<b>608,840</b>	<b>6,075,080</b>	<b>7,467,080</b>	<b>3,804,280</b>	<b>270,200</b>	<b>0</b>	<b>0</b>
Water Treatment - Administration	7-6-28-9752-300	17,399	32,779	30,352	24,860	12,455	20,431	31,080	31,080	31,080	0	0	0
Water Treatment - Travel	7-6-28-9752-307	0	0	4,751									
Water Treatment - Contracts	7-6-28-9752-330	20,144	14,924	0	764	33,542	32,095	5,328,000	7,844,000	4,588,000	74,000	629,000	0
Water Treatment - Engineering	7-6-28-9752-331	58,444	91,582	94,344	362,823	119,362	814,091	555,000	458,800	458,800	0	0	0
Water Treatment - Equip. Lease / Rental	7-6-28-9752-340	6,702	16,982	0	0	0	0	0	0	0	0	0	0
Water Treatment - Rent & Lease	7-6-28-9752-345	666	1,195	0	0	0	0	0	0	0	0	0	0
Water Treatment - Insurance	7-6-28-9752-400	75	75	0	0	0	370	0	0	0	0	0	0
Water Treatment - Advertising	7-6-28-9752-410	0	0	0	446	378	0	0	0	0	0	0	0
Water Treatment - Meeting Costs	7-6-28-9752-423	0	0	0	585	0	0	0	0	0	0	0	0
Water Treatment - Parts and Materials	7-6-28-9752-450	1,301	388	0	328	2,059	1,423	0	0	0	0	0	0
Water Treatment - Courier	7-6-28-9752-452	0	452	0	0	359	1,310	0	0	0	0	0	0
Water Treatment - Equip Res Charge	7-6-28-9752-800	0	226	547	0	359	2,018	0	0	0	0	0	0
Water Treatment - Gas & Oil	7-6-28-9752-460	510	0	0	0	0	0	0	0	0	0	0	0
Water Treatment - Hydro	7-6-28-9752-460					409	1,598						
<b>Total Water Treatment</b>		<b>105,242</b>	<b>158,604</b>	<b>129,993</b>	<b>389,806</b>	<b>168,923</b>	<b>873,335</b>	<b>5,914,080</b>	<b>8,333,880</b>	<b>5,077,880</b>	<b>74,000</b>	<b>629,000</b>	<b>0</b>

Capital - Program Summary

Description	G/L	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 YTD	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget	2021 Budget
Aquifer Storage and Recovery - Administration	7-6-28-9753-300	0	35,495	50,930	31,263	7,561	0	0	0	0	0	0	11,100
Aquifer Storage and Recovery - Contracts	7-6-28-9753-330	0	136,260	173,896	100,260	73,876	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Engineering	7-6-28-9753-331	18,061	195,318	169,658	95,263	9,792	0	0	0	0	0	0	37,000
Aquifer Storage and Recovery - Equip Rental	7-6-28-9753-340	0	1,336	1,198	447	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Meeting Costs	7-6-28-9753-423	0	89	100	558	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Advertising	7-6-28-9753-410	0	0	0	446	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Parts / Materials	7-6-28-9753-450	0	7,023	100,954	4,361	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Small Tools	7-6-28-9753-451	0	0	4,316	29	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Courier	7-6-28-9753-452	0	0	0	119	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Hydro	7-6-28-9753-461	0	0	370	1,222	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Equip Res Charge Out	7-6-28-9753-800	0	1,173	5,846	1,544	228	0	0	0	0	0	0	0
<b>Total Aquifer Storage and Recovery</b>		<b>18,061</b>	<b>376,694</b>	<b>507,267</b>	<b>235,513</b>	<b>91,458</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>48,100</b>
<b>Total Capital</b>		<b>1,078,368</b>	<b>572,839</b>	<b>929,905</b>	<b>1,016,761</b>	<b>451,028</b>	<b>1,482,176</b>	<b>11,989,160</b>	<b>15,800,960</b>	<b>8,882,160</b>	<b>344,200</b>	<b>629,000</b>	<b>48,100</b>
<b>TOTAL EXPENDITURES</b>		<b>1,082,538</b>	<b>583,030</b>	<b>938,370</b>	<b>1,023,785</b>	<b>468,754</b>	<b>1,485,364</b>	<b>11,998,780</b>	<b>15,810,772</b>	<b>8,892,169</b>	<b>694,069</b>	<b>979,073</b>	<b>398,381</b>

**TABLE 2**  
**Regional District of Nanaimo Requisition - ERWS**  
**2017 - 2021 FINANCIAL PLAN (\$)**

	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 YTD	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget	2021 Budget
<b>REVENUE</b>												
<b>Joint Venture Requisitions</b>												
RDN Requisition (26%)	380,351	79,060	155,713	208,581	164,697	451,245	2,638,220	3,631,488	1,780,357	2,008,727	343,999	139,972
<b>Other Revenue</b>												
Grants	0	125,788	173,985	151,127	0	0	260,000	780,000	520,000	0	0	0
Transfer From Reserves	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Other Revenue</b>	0	125,788	173,985	151,127	0	0	260,000	780,000	520,000	0	0	0
<b>TOTAL REVENUE</b>	<b>380,351</b>	<b>204,848</b>	<b>329,698</b>	<b>359,708</b>	<b>164,697</b>	<b>451,245</b>	<b>2,898,220</b>	<b>4,411,488</b>	<b>2,300,357</b>	<b>2,008,727</b>	<b>343,999</b>	<b>139,972</b>
<b>EXPENDITURES</b>												
<b>Operating</b>	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%
<b>Administration (Operating)</b>												
Salaries / Wages 7-2-28-7310-300	507	0	67	0	67	301	0	0	0	21,840	21,840	21,840
Training 7-2-28-7310-306	0	536	0	15	0	0	26	27	27	28	28	29
Conferences / Seminars 7-2-28-7310-307	0	261	0	0	0	0	0	0	0	0	0	0
Memberships 7-2-28-7310-311	0	71	78	0	0	0	0	0	0	0	0	0
Contracts 7-2-28-7310-330	423	195	1,328	473	0	0	520	530	541	552	563	574
Consulting 7-2-28-7310-331	66	0	0	122	0	0	0	0	0	0	0	0
Legal Fees 7-2-28-7310-332	0	675	0	0	891	0	910	928	947	966	985	1,005
Audit Fees 7-2-28-7310-333	0	1,085	1,066	1,066	1,066	0	1,066	1,087	1,109	1,131	1,154	1,177
Tel / Cable 7-2-28-7310-422	0	210	240	157	0	0	130	133	135	138	141	144
Meeting Costs 7-2-28-7310-423	2	124	158	332	494	218	390	398	406	414	422	431
Licences and Insurance 7-2-28-7310-400	0	0	0	0	230	217	130	133	135	138	141	144
Advertising 7-2-28-7310-410	0	0	0	199	2,959	0	52	53	54	55	56	57
Printing 7-2-28-7310-413					499							
Courier 7-2-28-7310-452	0	0	0	11	8	0	26	27	27	28	28	29
Small Tools, Equipment & Furniture 7-2-28-7310-450	21	424	36	93	0	385	130	133	135	138	141	144
Hydro 7-2-28-7310-461					14							
Minor Capital - Contracts 7-2-28-7350-330	314	0	0	0	0	0	0	0	0	0	0	0
Minor Capital - Parts / Materials 7-2-28-7350-450	131	0	0	0	0	0	0	0	0	0	0	0
Intake, Raw Watermain and Joint Transmission Mains										39,000	39,000	39,000
Water Treatment Plant										58,500	58,500	58,500
ASR										0	0	0
<b>Total Administration (Operating)</b>	<b>1,465</b>	<b>3,581</b>	<b>2,974</b>	<b>2,468</b>	<b>6,228</b>	<b>1,120</b>	<b>3,380</b>	<b>3,448</b>	<b>3,517</b>	<b>122,927</b>	<b>122,999</b>	<b>123,072</b>
<b>Total Operating</b>	<b>1,465</b>	<b>3,581</b>	<b>2,974</b>	<b>2,468</b>	<b>6,228</b>	<b>1,120</b>	<b>3,380</b>	<b>3,448</b>	<b>3,517</b>	<b>122,927</b>	<b>122,999</b>	<b>123,072</b>

Capital - Program Summary

Description	G/L	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 YTD	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget	2021 Budget
Property Acquisition - Administration	7-6-28-9750-300	3,558	-1,058	2,913	0	0	0	0	0	0	0	0	0
Property Acquisition - Contracts	7-6-28-9750-330	1,296	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition - Consulting	7-6-28-9750-331	1,709	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition - Equipment Res Charge Out	7-6-28-9750-800	35	192	0	0	0	0	0	0	0	0	0	0
Property Acquisition - Parts Materials / Supplies	7-6-28-9750-450	312,143	0	0	0	0	0	0	0	0	0	0	0
<b>Total Property Acquisition</b>		<b>318,741</b>	<b>-866</b>	<b>2,913</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
River Intake / Supply Mains - Administration	7-6-28-9751-300	12,590	9,075	10,305	9,310	3,955	0	10,920	10,920	10,920	0	0	0
River Intake / Supply Mains - Contracts	7-6-28-9751-330	93	67	0	268	377	0	624,000	1,240,200	338,000	46,800	0	0
River Intake / Supply Mains - Engineering	7-6-28-9751-331	2,778	4,597	88,104	127,478	61,599	116,806	52,000	72,800	72,800	0	0	0
River Intake / Supply Mains - Legal	7-6-28-9751-332	0	0	0	0	414	0	0	0	0	0	0	0
River Intake / Supply Mains - Advertising	7-6-28-9751-410	0	0	0	157	0	0	0	0	0	0	0	0
River Intake / Supply Mains - Meetings	7-6-28-9751-423	0	27	994	206	203	0	0	0	0	0	0	0
River Intake / Supply Mains - Parts / Supplies	7-6-28-9751-450	786	101	262	115	127	0	0	0	0	0	0	0
River Intake / Supply Mains - Equip. Charge Out	7-6-28-9751-800	569	189	5	0	309	0	0	0	0	0	0	0
River Intake / Supply Mains - Equip. Lease / Rent	7-6-28-9751-340	7	0	238	0	0	0	0	0	0	0	0	0
Joint Transmission Main - Contracts	7-6-28-9754.330	0	0	0	0	0	0	130,000	145,600	80,600	13,000	0	0
Joint Transmission Main - Consulting	7-6-28-9754.331	0	0	0	0	0	26,472	0	10,400	10,400	0	0	0
COP Transmission Main - Contracts	7-6-28-9755-330	0	0	0	0	0	0	0	0	0	0	0	0
COP Transmission Main - Consulting	7-6-28-9755-331	0	0	0	0	0	0	0	0	0	0	0	0
RDN - Craig Bay Pump Station / Top Bridge Transmission											1,800,000		
<b>Total River Intake / Supply Mains</b>		<b>16,823</b>	<b>14,056</b>	<b>99,908</b>	<b>137,534</b>	<b>66,984</b>	<b>143,278</b>	<b>816,920</b>	<b>1,479,920</b>	<b>512,720</b>	<b>1,859,800</b>	<b>0</b>	<b>0</b>
Water Treatment - Administration	7-6-28-9752-300	6,113	11,517	10,664	8,735	4,376	7,179	10,920	10,920	10,920	0	0	0
Water Treatment - Travel	7-6-28-9752-307	0	0	1,669									
Water Treatment - Contracts	7-6-28-9752-330	7,078	5,244	0	268	11,785	11,277	1,872,000	2,756,000	1,612,000	26,000	221,000	0
Water Treatment - Engineering	7-6-28-9752-331	20,534	32,178	33,148	127,478	41,938	286,032	195,000	161,200	161,200	0	0	0
Water Treatment - Equip. Lease / Rental	7-6-28-9752-340	2,355	5,967	0	0	0	0	0	0	0	0	0	0
Water Treatment - Rent & Lease	7-6-28-9752-345	234	420	0	0	0	0	0	0	0	0	0	0
Water Treatment - Insurance	7-6-28-9752-400	26	26	0	0	0	130	0	0	0	0	0	0
Water Treatment - Advertising	7-6-28-9752-410	0	0	0	157	133	0	0	0	0	0	0	0
Water Treatment - Meeting Costs	7-6-28-9752-423	0	0	0	206	0	0	0	0	0	0	0	0
Water Treatment - Parts and Materials	7-6-28-9752-450	457	136	0	115	723	500	0	0	0	0	0	0
Water Treatment - Courier	7-6-28-9752-452	0	159	0	0	126	460	0	0	0	0	0	0
Water Treatment - Equip Res Charge	7-6-28-9752-800	0	79	192	0	126	709	0	0	0	0	0	0
Water Treatment - Gas & Oil	7-6-28-9752-460	179	0	0	0	0	0	0	0	0	0	0	0
Water Treatment - Hydro	7-6-28-9752-460					144	561						
<b>Total Water Treatment</b>		<b>36,977</b>	<b>55,726</b>	<b>45,673</b>	<b>136,959</b>	<b>59,351</b>	<b>306,848</b>	<b>2,077,920</b>	<b>2,928,120</b>	<b>1,784,120</b>	<b>26,000</b>	<b>221,000</b>	<b>0</b>

Capital - Program Summary

Description	G/L	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 YTD	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget	2021 Budget
Aquifer Storage and Recovery - Administration	7-6-28-9753-300	0	12,471	17,894	10,984	2,657	0	0	0	0	0	0	3,900
Aquifer Storage and Recovery - Contracts	7-6-28-9753-330	0	47,875	61,099	35,226	25,957	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Engineering	7-6-28-9753-331	6,346	68,625	59,609	33,471	3,440	0	0	0	0	0	0	13,000
Aquifer Storage and Recovery - Equip Rental	7-6-28-9753-340	0	470	421	157	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Meeting Costs	7-6-28-9753-423	0	31	35	196	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Advertising	7-6-28-9753-410	0	0	0	157	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Parts / Materials	7-6-28-9753-450	0	2,468	35,470	1,532	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Small Tools	7-6-28-9753-451	0	0	1,516	10	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Courier	7-6-28-9753-452	0	0	0	42	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Hydro	7-6-28-9753-461	0	0	130	429	0	0	0	0	0	0	0	0
Aquifer Storage and Recovery - Equip Res Charge Out	7-6-28-9753-800	0	412	2,054	542	80	0	0	0	0	0	0	0
<b>Total Aquifer Storage and Recovery</b>		<b>6,346</b>	<b>132,352</b>	<b>178,229</b>	<b>82,748</b>	<b>32,134</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16,900</b>
<b>Total Capital</b>		<b>378,886</b>	<b>201,268</b>	<b>326,723</b>	<b>357,240</b>	<b>158,469</b>	<b>450,125</b>	<b>2,894,840</b>	<b>4,408,040</b>	<b>2,296,840</b>	<b>1,885,800</b>	<b>221,000</b>	<b>16,900</b>
<b>TOTAL EXPENDITURES</b>		<b>380,351</b>	<b>204,848</b>	<b>329,698</b>	<b>359,708</b>	<b>164,697</b>	<b>451,245</b>	<b>2,898,220</b>	<b>4,411,488</b>	<b>2,300,357</b>	<b>2,008,727</b>	<b>343,999</b>	<b>139,972</b>