

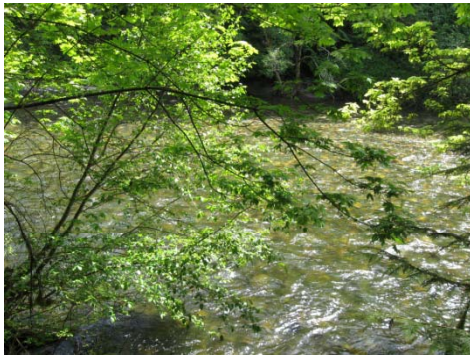


## ***Englishman River Program Status Update***

November 9, 2011  
Management Board Meeting

# Program Status

- AWS / ERWS governance Models complete – executed on July 1, 2011
- Financial Budgets (Current Year & Five Year Plan)
- ASR Grant Application (UBCM Innovative Fund – GAS Tax Rebate) 1.3 Million
- Water Quality Analysis – Year Program, started in September



## Daily:

- Temperature
- NTU
- True Colour
- PH
- Conductivity
- UVT
- DOC / TOC



## Monthly:

- Full Spectrum Analysis

## Quarterly:

- THM & HAA (disinfection by-products)

# Water Treatment Property

WTP Property Work – Community  
Work Program with Corrections  
BC

Interim use for Training:  
Backhoe Certification & Trench  
Shoring



# Engineering – Next Phases

Water Treatment Plant – Pilot Testing, to commence this fall

Capture extreme winter events in an effort to determine the best treatment option for The Englishman River.

Establish:

- Future Operating Costs
- Optimal Treatment Process



# ASR - Investigation

## Works Program:

- Geology / Hydrogeology Field Work
- GPS Elevations
- Bedrock Geology Review
- Geologic Cross Sections
- Site Selection
- Exploration Drill Site Selection / Observation Wells
- Environmental Considerations
- Well Drilling / Pump Testing
- Prepare ASR Feasibility Report

### Legend

#### Owners

- CROWN FEDERAL
- CROWN PROVINCIAL
- NANAIMO (REGIONAL DIST)
- PARKSVILLE (CITY)
- BLANK
- ASRFavourable
- ASRPreferred

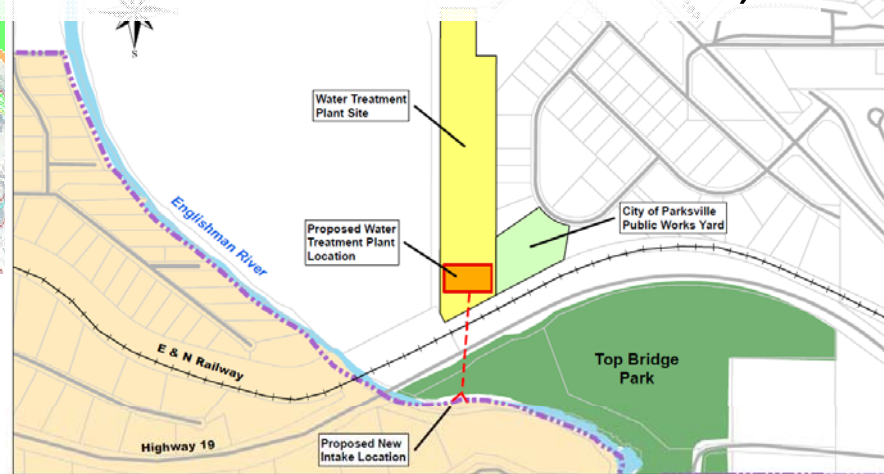
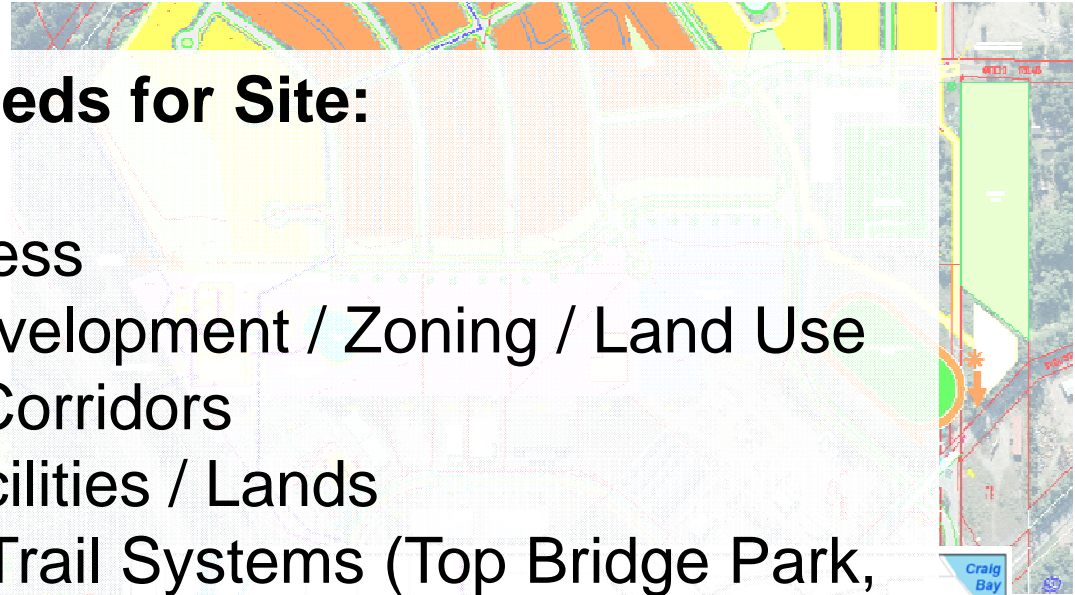
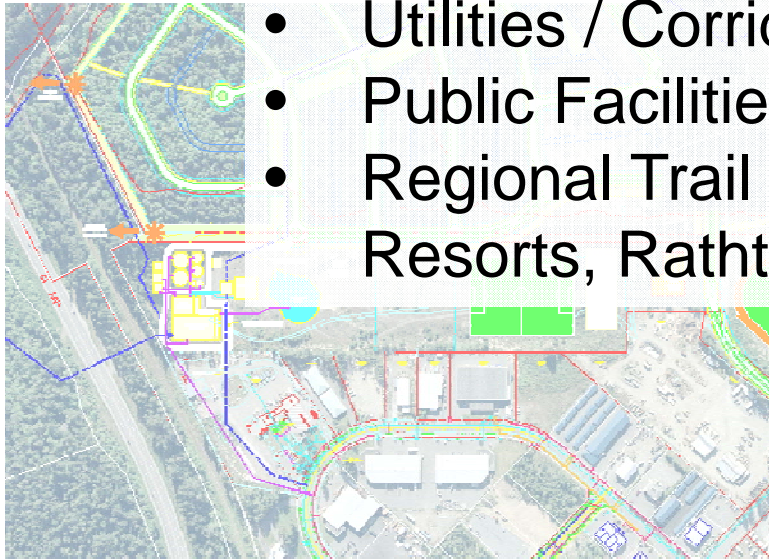
1 0.5 0 1  
Kilometers



# Servicing Concept Plans

## Servicing Needs for Site:

- Road Access
- Future Development / Zoning / Land Use
- Utilities / Corridors
- Public Facilities / Lands
- Regional Trail Systems (Top Bridge Park, Resorts, Rathrevor, Future Connections)



Proposed Water Treatment Plant



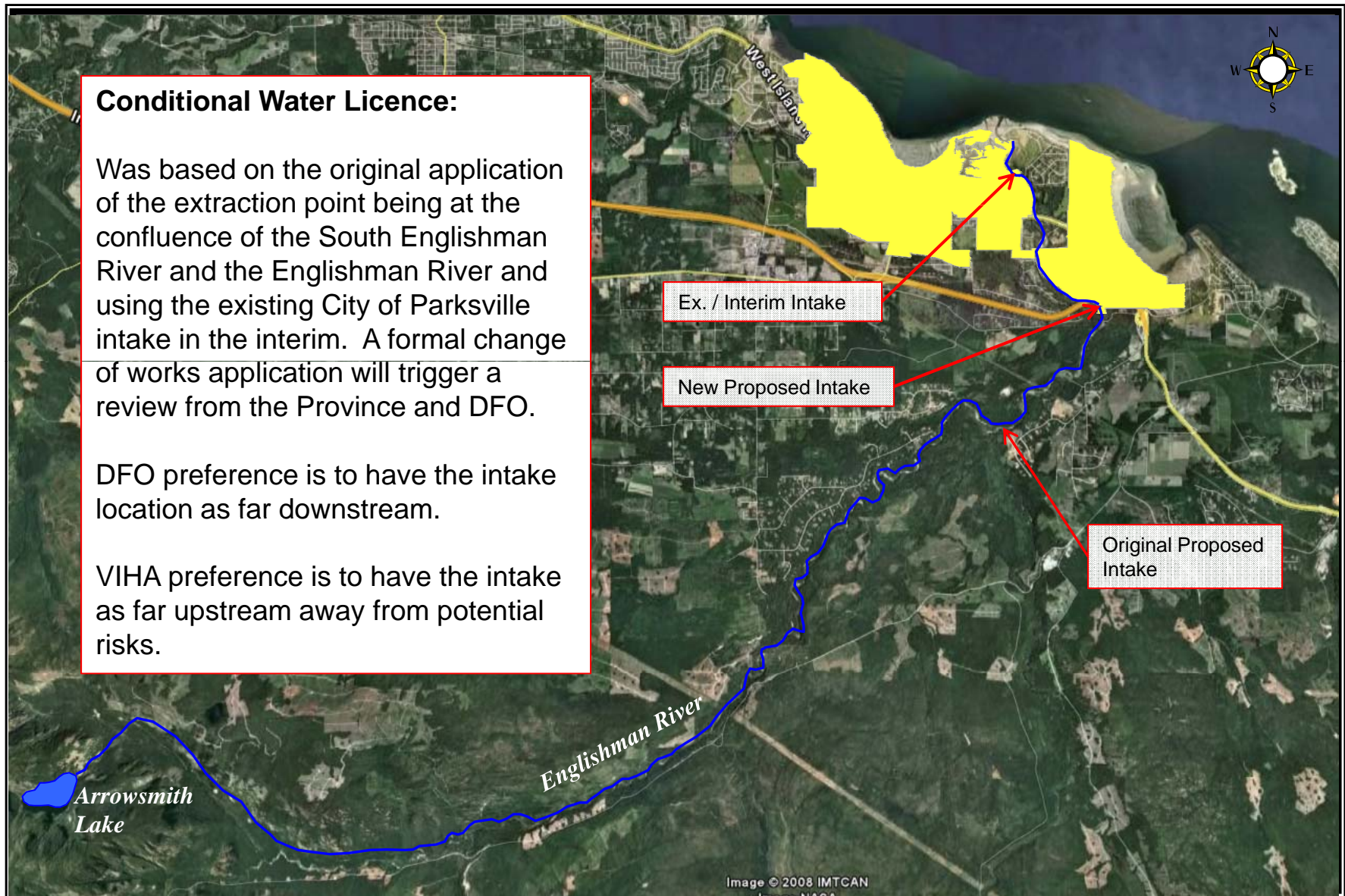
# Change of Works Application

## Conditional Water Licence:

Was based on the original application of the extraction point being at the confluence of the South Englishman River and the Englishman River and using the existing City of Parksville intake in the interim. A formal change of works application will trigger a review from the Province and DFO.

DFO preference is to have the intake location as far downstream.

VIHA preference is to have the intake as far upstream away from potential risks.



# Communications Plan Update – Web Page

- Workshop with Parksville Council – May 25<sup>th</sup>
- Draft Public Information Report – completed
- Met with DFO on May 26<sup>th</sup>
- Met with VIHA on May 31<sup>st</sup>
- Met June 15<sup>th</sup> Meeting with Paul Marquis, Section Head MoE (water license) & Prov. Fish Sec.
- Presentation at Town of Qualicum Beach – Water Supply Public Information Mtg. June 20<sup>th</sup>
- FAQ – are all posted on the AWS Web Site
- Entire Study – posted on AWS Web Site
- AWS Minutes – posted on AWS Web Site
- Will have ongoing presentations to other interest groups
- Stakeholder Meeting – Nature's Trust, MVIHES, BC Conservation Foundation
- Web Site – Major update
- Media / Newspaper Article
- First Open House – next year

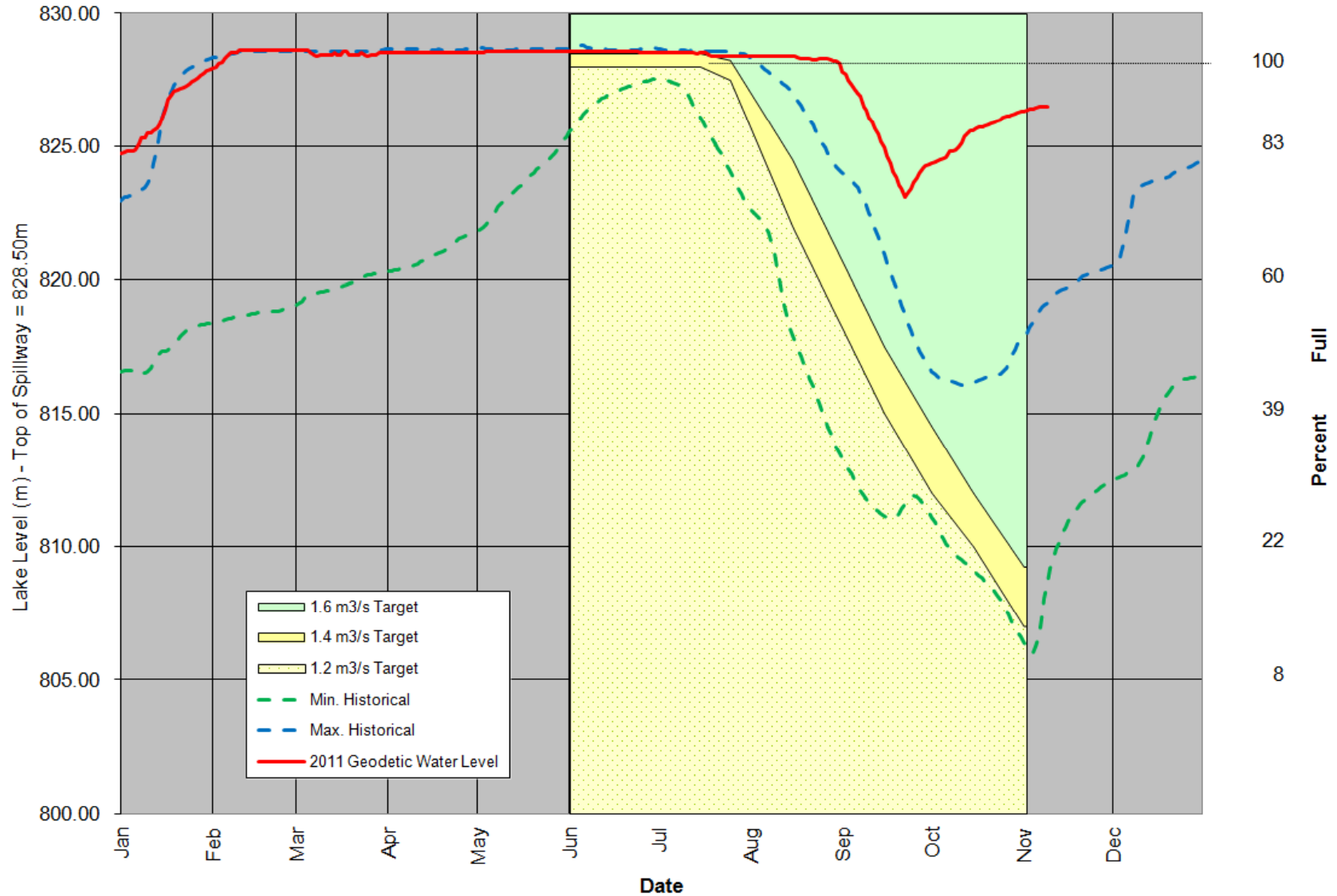
[www.arrowsmithwaterservice.ca](http://www.arrowsmithwaterservice.ca)



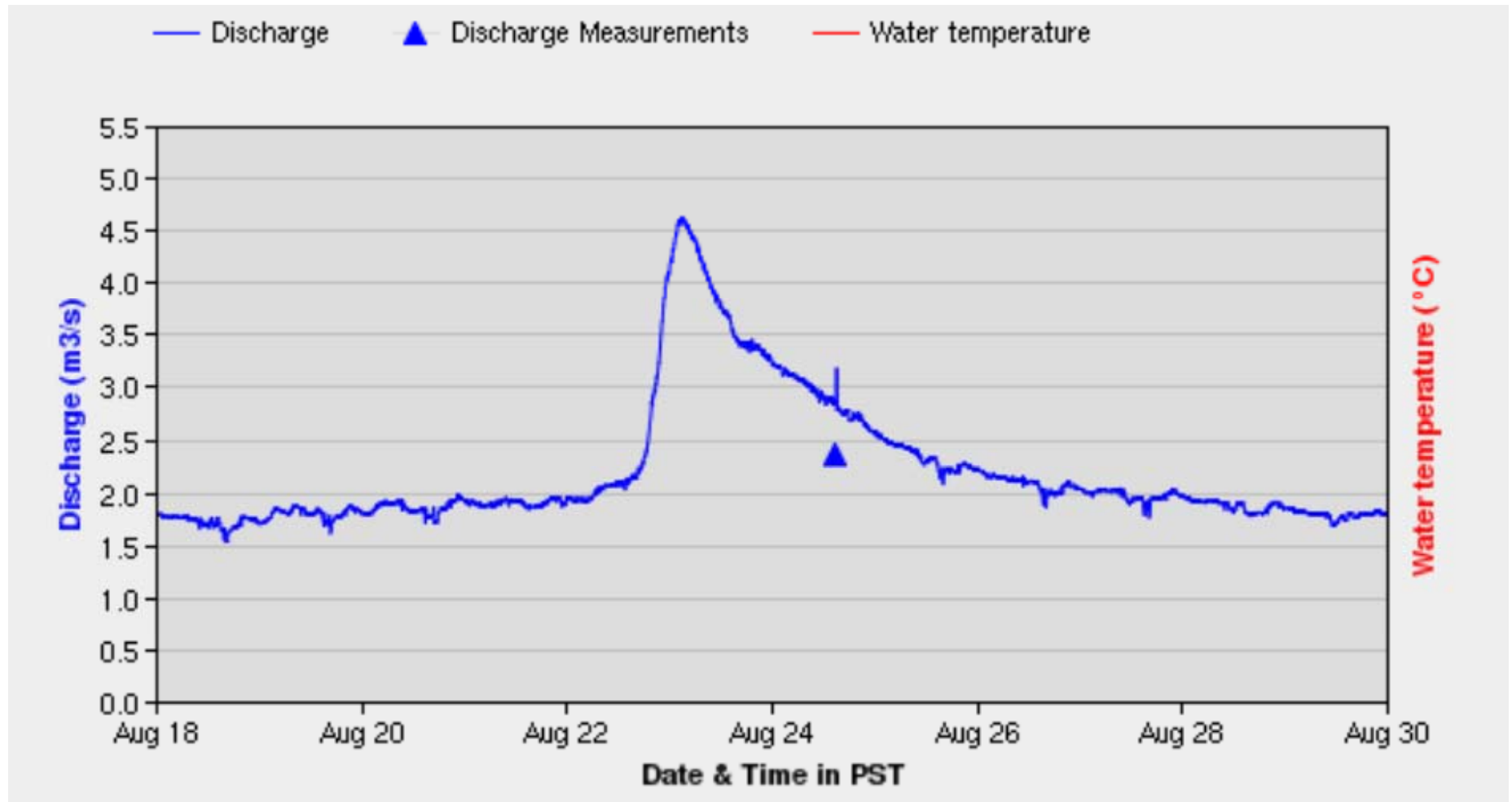
# Arrowsmith Dam – Operations Update

# AWS – Operations Update

2011 Arrowsmith Dam Lake Levels  
- Provisional Operating Rule Curve



# AWS – Operations Update





englishman river  
WATER SERVICE



REGIONAL  
DISTRICT  
OF NANAIMO

## ***Englishman River Program Status Update***

***THANK YOU....***

November 9, 2011  
Management Board Meeting