

# STATE OF WASHINGTON REPORT OF EXAMINATION FOR NEW SECONDARY USE WATER RIGHT

PRIORITY DATE	WATER RIGHT APPLICATION NUMBER
September 16, 1996	S4-32477
NAME AND MAILING ADDRESS	SITE ADDRESS (IF DIFFERENT)
Daryl Miller and Elaine Parks	
PO Box 3039	12350 S. Lakeshore Rd
Chelan, WA 98816	Chelan, WA 98816

Total Rate and Quantity Authorized for Diversion		
DIVERSION RATE (cfs)	ANNUAL QUANTITY (ac-ft/yr)	
0.04	1.00	

cfs = Cubic Feet per Second; ac-ft/yr = Acre-feet per Year

Purpose(s)			
PURPOSE	DIVERSION RATE (cfs)	ANNUAL QUANTITY (ac-ft/yr)	PERIOD OF USE
Multiple Domestic Supply	0.04	1.00	Year round

IRRIGATED ACRES	PUBLIC WATER SYSTEM INFORMATION	
NA	WATER SYSTEM NAME and ID CONN	
	NA	2

Source Location	1		
COUNTY	WATERBODY	TRIBUTARY TO	WATER RESOURCE INVENTORY AREA
Chelan	Lake Chelan	Chelan River	47 - Chelan

SOURCE NAME	PARCEL	TOWNSHIP	RANGE	SECTION	QQ Q	LATITUDE	LONGITUDE
Pump 1	282121618100	28 N.	21 E.W.M.	21	NE NW	47.9220	-120.2091

QQ Q = Quarter Quarter Datum: NAD83/WGS84

Place of Use	
ARCEL(S)	
82121618100, 282121618270	

# LEGAL DESCRIPTION OF THE AUTHORIZED PLACE OF USE

Lot 20, Block 1 and Lot 20, Block 2, Hollywood Beach Addition to Chelan County, except west 15 feet of Lot 20, Block 2, which has been conveyed to Chelan County in 1940 for road purposes, as shown in Volume 278, Page 359, Records of Chelan County, Washington, Ref. Deed A.F. No 718258.

#### **Proposed Works**

Currently there is only one cabin constructed on the property, the second is to be built in the future. Existing pump is  $\frac{3}{4}$  hp, which is designed to convey approximately 10 gpm. This pump will need to be upgraded to provide full instantaneous rate.

Development Schedule		
BEGIN PROJECT BY THIS DATE	COMPLETE PROJECT BY THIS DATE	PUT WATER TO FULL USE BY THIS DATE
Complete	12/31/2032	12/31/2033

<u>Attention</u>: These dates represent deadlines that must be met or risk cancellation of this authorization. Submittal of formal documentation for each stage is required. Extensions may be requested.

Measurement of Water Use	
HOW OFTEN MUST WATER USE BE MEASURED AND RECORDED?	Bi-weekly
HOW OFTEN MUST WATER USE DATA BE REPORTED TO ECOLOGY?	Annually by January 31
WHAT QUANTITY SHOULD BE REPORTED?	Total annual quantity in acre-feet or gallons
WHAT RATE SHOULD BE REPORTED?	Annual peak rate of diversion in cfs

# **Provisions**

## **Fish Screening Criteria**

The intake(s) shall be screened in accordance with Department of Fish and Wildlife screening criteria (pursuant to RCW 77.57.010, RCW 77.57.070, and RCW 77.57.040). Contact the Department of Fish and Wildlife if you have questions about screening criteria.

Department of Fish and Wildlife Phone: (360) 902-2534

Attn: Habitat Program Website: <a href="http://wdfw.wa.gov/about/contact/">http://wdfw.wa.gov/about/contact/</a>

600 Capitol Way N

Olympia, WA 98501-1091

#### **Hydraulic Project Approval**

The applicant must obtain Hydraulic Project Approval from the Washington Department of Fish and Wildlife for all construction activities occurring within the high-water mark of Lake Chelan and its tributaries. Please contact:

Department of Fish and Wildlife 3860 Chelan Hwy N.

Wenatchee, WA 98801-9625

# Measurements, Monitoring, Metering, and Reporting

An approved measuring device must be installed and maintained for each of the sources identified by this water right in accordance with the rule "Requirements for Measuring and Reporting Water Use," chapter 173-173 WAC, which describes the requirements for data accuracy, device installation and operation, and information reporting. It also allows a water user to petition the Department of Ecology (Ecology) for modifications to some of the requirements.

Recorded water use data shall be submitted electronically by January 31 each year. To set up an Internet reporting account, contact the Central Regional Office. If you do not have Internet access, you can still submit hard copies by contacting the Central Regional Office for forms to submit your water use data.

# **Schedule and Inspections**

Department of Ecology personnel, upon presentation of proper credentials, shall have access at reasonable times, to the project location, and to inspect at reasonable times, records of water use, wells, diversions, measuring devices and associated distribution systems for compliance with water law.

## **Water Use Efficiency**

The water right holder is required to maintain efficient water delivery systems and use of up-to-date water conservation practices consistent with RCW 90.03.005.

# **Proof of Appropriation**

Consistent with the development schedule given in this report (unless extended by Ecology), the water right holder must file a Notice of Proof of Appropriation (PA) of Water with Ecology. The PA documents the project is complete and all the water needed has been put to full beneficial use (perfected). In order to verify the extent of water use under this permit, an inspection of water use is typically required, known as a "proof exam". After filing the PA, the water right holder's next step is to hire a Certified Water Rights Examiner (CWRE) to conduct this proof exam. A list of CWREs is provided to the water right holder upon filing the PA with Ecology. The final water right document, a water right certificate, then may issue based upon the findings of the CWRE. Statutory county and state filing fees may apply prior to certificate issuance. If water is currently being used in a manner consistent with the proposed use (including an installed meter), and an aerial photograph and metering data verifying this use can be provided to Ecology at the time a Permit is issued, then Ecology may elect to accept filing of a proof of appropriation and issue a Surface Water Certificate without the requirement of hiring a CWRE.

#### **Relinquishment of Existing Rights**

This application is intended to replace water use under surface water claim S4-040588CL. Therefore, the applicant will submit a *Voluntary Relinquishment* form for S4-040588CL within 30 days after permit issuance.

# Findings of Fact and Order

Upon reviewing the investigator's report, I find all facts, relevant and material to the subject application, have been thoroughly investigated.

Therefore, I ORDER **APPROVAL** of Application No. S4-32477, subject to existing rights and the provisions specified above.

# Your Right To Appeal

You have a right to appeal this Order to the Pollution Control Hearings Board (PCHB) within 30 days of the date of receipt of this Order. The appeal process is governed by chapter 43.21B RCW and chapter 371-08 WAC. "Date of receipt" is defined in RCW 43.21B.001(2).

To appeal, you must do the following within 30 days of the date of receipt of the Order:

- File your appeal and a copy of this Order with the PCHB (see addresses below). Filing means actual receipt by the PCHB during regular business hours.
- Serve a copy of your appeal and this Order to Ecology in paper form by mail or in person (see addresses below). E-mail is not accepted.

You must also comply with other applicable requirements in chapter 43.21B RCW and chapter 371-08 WAC.

Street Addresses Mailing Addresses			
Department of Ecology	Department of Ecology		
Attn: Appeals Processing Desk	Attn: Appeals Processing Desk		
300 Desmond Drive SE	PO Box 47608		
Lacey, WA 98503	Olympia, WA 98504-7608		
Pollution Control Hearings Board	Pollution Control Hearings Board		
1111 Israel RD SW, Ste 301	PO Box 40903		
Tumwater, WA 98501	Olympia, WA 98504-0903		

For additional information, visit the Environmental Hearings Office Website: <a href="http://www.eho.wa.gov">http://www.eho.wa.gov</a>.

To find laws and agency rules, visit the Washington State Legislature Website: <a href="http://www1.leq.wa.gov/CodeReviser">http://www1.leq.wa.gov/CodeReviser</a>.

# **Authorizing Signature**

Signed at Union Gap, Washington, this 6 day of June, 2022.

Mark Schuppe, Interim Section Manager

Water Resources Program Central Regional Office

MS:CG:ns/220610

# INVESTIGATOR'S REPORT

Water Right Application No.: S4-32477 (Mr. Daryl Miller & Ms. Elaine Parks)

Investigator: Adam Neff, LHG (RH2 Engineering, Inc.)

# **BACKGROUND**

This report serves as the written findings of fact concerning Water Right Application Number S4-32477.

Per the First Amendment to Agreement Concerning Water Right Certificate No. 319, executed September 22, 2017, by the Washington State Department of Ecology and Public Utility District No. 1 of Chelan County, Washington, this water right will be a secondary permit for use of water within the Lake Chelan Watershed that is currently authorized to be stored in the Lake Chelan Reservoir under Certificate 500 (640,000 acre-feet). RCW 90.03.370(1)(a) states:

"...the party or parties proposing to apply to a beneficial use the water stored in any such reservoir shall also file an application for a permit, to be known as the secondary permit, which shall be in compliance with the provisions of RCW 90.03.250 through RCW 90.03.320."

The subject water right application was received on September 16, 1996, for the appropriation of surface water from Lake Chelan at a diversion rate of 0.04 cfs (18 GPM) and 6 acre-feet per year (ac-ft/y) for the purposes of year round domestic supply and associated outdoor irrigation for two cabins. There is currently one of the proposed two cabins constructed.

The first Assignment of Application form was received and accepted by Ecology on January 18, 2018, assigning interest from Fred Van Sickle to Daryl Miller. The second Assignment of Application form was received and accepted by Ecology on January 2, 2020, assigning 50% interest from Daryl Miller to Elaine Parks (daughter).

**Table 1. Summary of Requested Water Right** 

Applicant Name	Daryl Miller & Elaine Parks (Originally Fred Van Sickle)
Priority Date	September 16, 1996
County	Chelan
WRIA	47
Water Source	Lake Chelan
Tributary to	Chelan River
Place of Use	Parcels: 282121618100, 282121618270
	Legal: Lot 20, Block 1 and Lot 20, Block 2, Hollywood Beach Addition to Chelan
	County, except west 15 feet of Lot 20, Block 2, which has been conveyed to
	Chelan Count in 1940 for road purposes, as shown in Volume 278, Page 359,
	Records of Chelan County, Washington, Ref. Deed A.F. No 7182580.

Purpose	Instantaneous Rate (cfs)	Annual Quantity (ac-ft/yr)	Begin Season	End Season
Domestic for 2 Cabins	0.04	6.0	01/01	12/31

Source Name	Parcel	Township	Range	Section	QQ Q	Latitude	Longitude
Pump 1	282121618100	28 N.	21 E W.M.	21	NE NW	47.9220	-120.2091

WRIA = Water Resource Inventory Area; cfs = Cubic Feet per Second; ac-ft/yr = Acre-feet per Year; QQ Q = Quarter Quarter

Datum: NAD83/WGS84

#### **INVESTIGATION**

# Proposed Use and Basis of Water Demand

#### Site Description

On December 10, 2021, Adam Neff from RH2 Engineering, Inc. met with Mr. Daryl Miller to perform the site visit for this proposal.

The site consists of a small main cabin, approximately 530 sq. ft. that was constructed in 1928 (per Mr. Miller). There is another small storage structure located behind the cabin built in 1992. The intent of the application is that another cabin may be constructed, or the storage structure will be expanded into another cabin. There did not appear to be any irrigated areas around the structures. Mr. Miller indicated that the cabin was currently only occupied in the summer.

# Lake Chelan Watershed Hydrology

The Lake Chelan Watershed covers 924 square miles (USGS, 2018) and is located in northcentral Washington State in Water Resource Inventory Area (WRIA) 47. The Lake's watershed spans from the crest of the Cascade Mountains in the west to the Public Utility District No. 1 of Chelan County (Chelan PUD) dam where water from Lake Chelan flows into the Chelan River, and eventually to the Columbia River, in the east.

Lake Chelan is 50.4 miles long (MWG and others, 1995), up to 1,486 feet deep, and has a surface area of approximately 33,344 acres (MWG and others, 1995). Lake Chelan Dam has created usable storage of 677,400 acre-feet when the water surface is at its normal maximum water surface elevation of 1,100 feet (RH2, 2009).

Average precipitation across the watershed ranges from approximately 150 inches near the crest of the Cascade Mountains to a low of 11 inches in the City of Chelan. The average annual precipitation is approximately 45 inches (RH2, 2009).

Of the total inflow to the Lake, the Stehekin River accounts for 65 percent, Railroad Creek accounts for 10 percent, approximately 50 other smaller tributaries contribute another 21 percent, and direct precipitation accounts for 4 percent of the total inflow (MWG and others, 1995).

Average outflow from Lake Chelan is estimated to be approximately 1.49 million acre-feet, equivalent to a basin-wide average runoff of 30.4 inches and a constant flow of approximately 2,058 cubic feet per second (USGS, 2018).

### Lake Chelan Reserve

Processing of new water right applications is made possible through accessing the Lake Chelan Reserve (Reserve) created through a 1992 agreement between Chelan PUD and the Washington State Department of Ecology (Ecology) settling a court dispute. The 1992 Agreement, and subsequent 2017 First Amendment, clarified the extent of the Reserve that allows surface water diversions and ground water withdrawals within the Lake Chelan Water Basin, upstream of Lake Chelan Dam, to impact Chelan PUD power generation at the dam. The Reserve has the following attributes:

- An estimated 12,000 acre-feet per year (ac-ft/yr) of water being utilized at the time Ecology issued Chelan PUD's power generation right (Surface Water Right Certificate No. 319).
- An additional 33,000 ac-ft/yr of water unappropriated as of July 22, 1925, was eligible to be developed, for a total estimated amount of 45,000 ac-ft/yr.
- An additional 20,000 ac-ft/yr of water (65,000 ac-ft/yr total) was made available for development after 1992 by Chelan PUD.

- Fully non-consumptive uses, with beneficial use and return flow occurring above the Lake Chelan Dam, are not debited against the Reserve.
- The Reserve is debited based on each individual water right annual volume limits, with no credit given for the split between consumptive and non-consumptive uses within a water right.

Chelan County, Ecology, and Chelan PUD evaluated water availability under the Reserve prior to initiation of this coordinated cost reimbursement process and agreed to allocate new water rights, so long as water was legally available under the Reserve.

# **Water System Description**

The existing water system consists of a single phase ¾ hp well pump installed several hundred feet into Lake Chelan, connected to a pressure tank for the single cabin. Construction of the second cabin will involve upgrading the pumping system to meet the additional demand.

# History of Water Use

Historic water use, as requested under this appropriation, has been partially beneficially used under a surface water claim filed on September 19, 1973, under Water Resources' file number S4-040588CL. This appropriation seeks to replace uses asserted under the appurtenant claim.

# **Proposed Water Use**

Under this application, the applicant is planning to beneficially use water for domestic supply to two (2) cabins/homes.

For single domestic and multiple domestic, including minor outdoor landscape irrigation, the standard allocation is 0.5 ac-ft/yr per dwelling. While no outdoor irrigation was apparent during the site visit, it was during the winter and difficult to observe. The standard allocation is suitable based on the observed conditions and stated uses by the applicant.

## **Proposed Place of Use**

The proposed place of use consists of 2 tax parcels. **Table 2** identifies all parcels within the proposed place of use.

Table 2
Parcels within the Proposed Place of Use

Parcel Number	Acres		
282121618270	0.28		
282121618100	0.12		

# Other Rights Associated with Project or Place of Use

The Department of Ecology's Water Resources Explorer

(https://fortress.wa.gov/ecy/waterresources/map/WaterResourcesExplorer.aspx accessed on December 10, 2021), was used to identify water rights that are appurtenant to the proposed place of use.

One water right document is appurtenant to the proposed place of use.

The overlapping water right is Surface Water Right Claim S4-040588CL, which was filed on September 19, 1973, by Fred Van Sickle. The Short Form Claim asserts domestic use for the same legally described parcel as this application. Based on the shared place of use and discussion with the applicant, it is understood that this water right application seeks to authorize uses asserted under the Short Form Claim since the current applicants are unsure if use under the surface water claim represents a valid, pre-code, water right.

The overlapping water right claim is listed in **Table 3**, along with the purpose of use.

Table 3.
Water Rights Appurtenant to the Proposed Place of Use

Water Right Name	Water Right Number	Source	Purpose of Use	
Fred Van Sickle	S4-040588CL	Lake Chelan	Domestic	

Once the permit is issued, the applicant will voluntarily relinquish the claim to clarify the water right record.

# **Hydrologic Evaluation**

Lake Chelan is a dam-controlled reservoir that has a surface area of approximately 33,344 acres. The applicant will have a firm source of supply as long as the intake is adequately constructed to account for planned and unplanned reservoir water level fluctuations.

# Materials Submitted in Support of Application

The applicant submitted a survey with the legal description.

#### **ANALYSIS**

Under Washington State law (RCW 90.03.250 through RCW 90.03.320), as identified under RCW 90.03.370(1)(a), each of the following four criteria must be met for an application for a new secondary use permit to be approved:

- Water must be available for appropriation.
- Water diversion and use must not cause impairment of existing water rights.
- The proposed water use must be beneficial.
- Water use must not be detrimental to the public interest (public welfare).

#### Water Availability

For any new secondary use permit, water must be both physically and legally available.

# **Physical Availability**

For water to be physically available for appropriation, water must be present in quantities and quality and on a sufficiently frequent basis to provide a reasonably reliable source for the requested beneficial use or uses.

The applicant proposes to divert water from Lake Chelan.

Lake Chelan is a dam-controlled reservoir. Therefore, water is physically available for appropriation from this source as long as the point of diversion is adequately constructed to account for planned and unplanned reservoir water level fluctuations.

## **Legal Availability**

To meet the legal availability test, the proposed appropriation may not divert and use water that is already "spoken for," such as water from sources that are protected by administrative rule or court order, or that has otherwise been claimed, allocated, or adjudicated.

Legal availability within the Lake Chelan Water Basin is based on the Reserve.

Ecology maintains a database of Lake Chelan water rights that are debited against the Reserve. Based on the most recent accounting (October 5, 2021), 59,621.633 ac-ft/yr had been allocated and 5,378.367 ac-ft/yr remains in the Reserve for appropriation. **Table 4** breaks down the estimated annual volume requested under the current batch of 10 applications being processed through Phase 2 of the Lake Chelan Coordinated Cost Reimbursement program.

Table 4
Reserve Accounting Summary

Category	Volume (ac-ft/yr)	Reserve Remaining Volume after Issuance (ac-ft/yr)
Lake Chelan Reserve Total	65,000.000	65,000.000
Total Allocated Quantity (10/5/2021)	59,621.633	5,378.367
Lake Chelan Coordinated Cost Reimbursement – Phase 2 Applications, Approximate Volume	1,085.900	4,292.467

Based on the calculations in **Table 4**, there is sufficient water legally available under the Reserve to allow for approval of this water right application.

# **Impairment**

In analyzing impairment, Ecology must make a determination as to whether existing water rights, including adopted instream flows, may be impaired by the diversion and proposed use.

Direct diversion from Lake Chelan will not impair any existing water rights since the level of the lake is controlled by natural inflow and by operation of the Lake Chelan Project by Chelan PUD.

#### Beneficial Use

In the Supreme Court case *Ecology v. Grimes* (1993), the Court held that "for purposed of appropriated water rights, 'beneficial use' has two elements: 1) the purposes or types of activities for which the water may be used and 2) the amount of water that may be used as limited by the principle of 'reasonable use.'"

Multiple domestic is considered a beneficial use of water under RCW 90.54.020(1).

The rate and volume of water allocated under this water right is consistent with reasonable use of water for the purposes requested, in this watershed.

#### Public Interest

The diversion and associated use must not be detrimental to the public interest. At a minimum, the following are considered when making this assessment.

## Notification to the Washington Department of Fish and Wildlife

Per RCW 90.03.280 and 77.57.020, Ecology must give notice to the Washington Department of Fish and Wildlife (WDFW) of applications to divert, withdraw, use, or store water.

On November 10, 2021, Andrew B. Dunn of RH2 Engineering, Inc. notified Mr. Steven Boessow (Water Rights Biologist) of WDFW via email of the pending surface water right application. On January 10, 2022, Mr. Boessow provided a letter stating that, "...WDFW does not oppose the issuance of this application. This application appears consistent with the Lake Chelan Reserve."

## State Environmental Policy Act (SEPA)

Under chapter 197-11 WAC, a water right application is subject to a SEPA threshold determination (i.e., an evaluation of whether there will be significant adverse environmental impacts) if any of the following conditions are met:

- It is a surface water right application for more than 1 cubic feet per second (cfs), unless that project is for agricultural irrigation, in which case the threshold is increased to 50 cfs, so long as that irrigation project will not receive public subsidies;
- It is a groundwater right application for more than 2,250 gallons per minute (gpm);
- It is an application that, in combination with other water right applications for the same project, collectively exceed the amounts above;
- It is a part of a larger proposal that is subject to SEPA for other reasons (e.g., the need to obtain other permits that are not exempt from SEPA);
- It is part of a series of exempt actions that, together, trigger the need to do a threshold determination, as defined under WAC 197-11-305.

Considering that none of the above conditions are met, the application under review is categorically exempt from a SEPA threshold determination.

#### **Public Notice**

RCW 90.03.265(3) requires that the Department of Ecology provide notice, both on its web site and in a newspaper of general circulation in the area where affected properties are located, if it elects to initiate a coordinated cost reimbursement process. Notice was provided on a Department of Ecology web site (<a href="https://ecology.wa.gov/Water-Shorelines/Water-supply/Water-rights/Public-notices-comments">https://ecology.wa.gov/Water-Shorelines/Water-supply/Water-rights/Public-notices-comments</a>) from October 24, 2019, through December 5, 2019. Notice of the coordinated cost reimbursement process was published by the Department of Ecology in the *Wenatchee World* on October 23 and 30, 2019.

RCW 90.03.280 requires that notice of a water right application be published once a week, for two consecutive weeks, in a newspaper of general circulation in the county or counties where the water is to be stored, diverted, and used. Notice of this application was published in the *Wenatchee World* on March 19, 2022, and March 26, 2022.

# **Consideration of Protests**

No protests to this water right application were received.

#### Watershed Planning

The <u>Lake Chelan Watershed Plan</u> (RH2, 2012) and subsequent <u>Detailed Implementation Plan</u> (RH2, 2014) support processing of pending water right applications under a coordinated cost reimbursement program. Processing of this application is consistent with the intent of those plans.

# **Other Public Interest Concerns**

None.

# Conclusions

#### I find that:

- Water is physically and legally available.
- The appropriation will not impair existing rights.
- The proposed Domestic is a beneficial use.
- Approval of this application will not be detrimental to the public interest.

# RECOMMENDATIONS

Based on the above investigation and conclusions, I recommend this request for a secondary use permit be **APPROVED** in the amounts and within the limitations listed below and subject to the provisions listed above.

# Recommended Quantities, Purpose of Use, and Project Location

The rate and quantity of water recommended are maximum limits. The permit holder may only divert water at a rate and quantity within the specified limits that are reasonable and beneficial:

**Table 5. Recommended Limits and Location** 

Maximum Instantaneous Rate (cfs)	0.04
Maximum Annual Quantity (ac-ft/yr)	1.00
Purpose(s) of Use	Multiple Domestic
Point of diversion	NE¼NW¼, Section 21, Township 28 N., Range 21
	E.W.M.
Place of Use	See legal description on page 1 and map on
	Attachment A

Adam Neff

RH2 Engineering, Inc.

5/6/2022 Date

Candis L. Graff

Department of Ecology

6/2022

Date

To request ADA accommodation including materials in a format for the visually impaired, call Ecology Water Resources Program at 360-407-6872.

Persons with impaired hearing may call Washington Relay Service at 711. Persons with speech disability may call TTY at 877-833-6341.

#### References

Aspect Consulting, LLC, July 25, 2013, Lake Chelan Water Right Permitting Options, prepared for Chelan County Department of Natural Resources.

Montgomery Water Group, Inc., Adolfson Associates, Inc., Hong West & Associates, Inc., R2 Resource Consultants, Inc., Marshall and Associates, Inc., and Washington Department of Ecology, June 8, 1995, Draft Initial Watershed Assessment Water Resources Inventory Area 47 Chelan Watershed. Open File Technical report 95-13.

Orr, L.A., Bauer H.H., and Wayenberg, J.A., 2002, Estimates of Ground-water Recharge from Precipitation to Glacial-Deposit and Bedrock Aquifers on Lopez, San Juan, Orcas, and Shaw Islands, San Juan County, Washington, United States Department of the Interior, Geological Survey, Water-Resources Investigations Report 02-4114.

RH2 Engineering, Inc., October 2014, Final Review Draft WRIA 47 Lake Chelan Detailed Implementation Plan.

RH2 Engineering, Inc., April 30, 2014, Lake Chelan Watershed Reserve Accounting Analysis, prepared for Chelan County Department of Natural Resources.

RH2 Engineering, Inc., June 2012, FINAL Lake Chelan Watershed Plan (WRIA 47), prepared for WRIA 47 – Lake Chelan Watershed Planning Unit.

RH2 Engineering, Inc., December 2009, Phase II Water Quality Assessment, WRIA 47 (Lake Chelan), Prepared for Chelan County Natural Resources Department, Wenatchee, Washington.

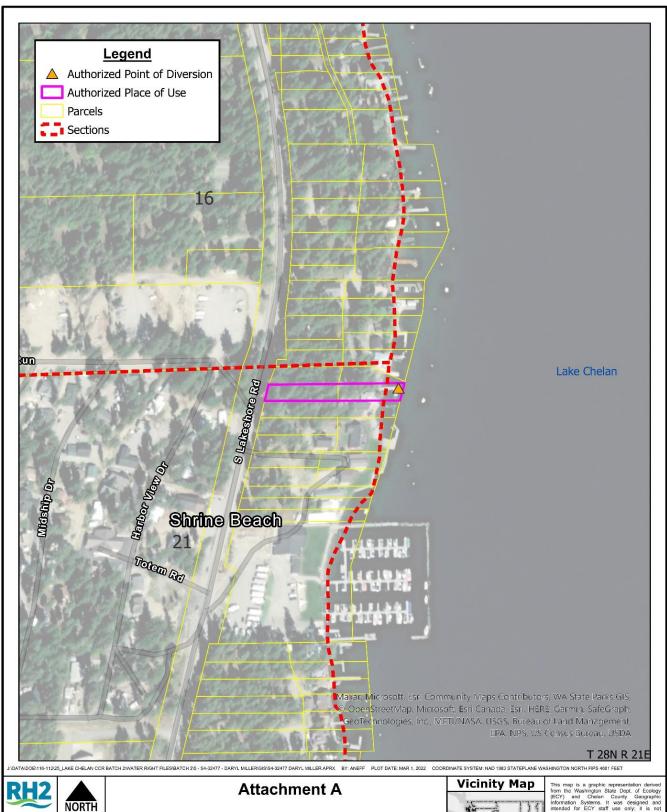
Sorlie, G. and Milhous, R.T., June 1975, The Water Resources of the Chelan Basin, Water Resources Analysis and Information Section, Washington State Department of Ecology, Open-File Technical Report 75-03.

U.S. Geological Survey, 2020, National Water Information System date available on the World Wide Web. USGS Water-Year Summary 2018. 12452500 Chelan River at Chelan, WA. Accessed at: <a href="https://waterdata.usgs.gov/nwis/wys\_rpt?dv">https://waterdata.usgs.gov/nwis/wys\_rpt?dv</a> ts ids=149827&wys\_water\_yr=2018&site\_no=12452500 &agency\_cd=USGS&adr\_water\_years=2006%2C2007%2C2008%2C2009%2C2010%2C2011%2C2012%2C 2013%2C2014%2C2015%2C2016%2C2017%2C2018&referred\_module=

Washington State Department of Ecology, September 2017, Focus on: Lake Chelan Reserve, Publication No. 17-11-009.

Washington State Department of Ecology and Public Utility District No. 1 of Chelan County, September 22, 2017, First Amendment to Agreement Concerning Water Right Certificate No. 319.

Washington State Department of Ecology and Public Utility District No. 1 of Chelan County, April 29, 1992, Agreement Concerning Water Right Certificate No. 319.





S4-32477 Mr. Daryl Miller & Ms. Elaine Parks

