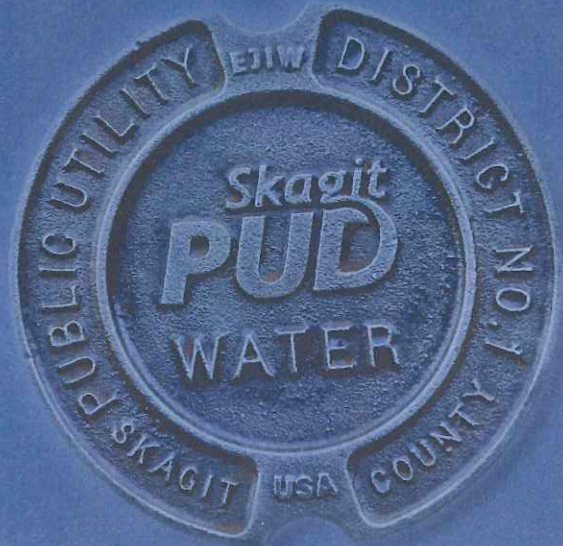


Public Utility District No. 1 of Skagit County

2013 Water System Plan



Skagit
PUD
PUBLIC UTILITY DISTRICT



APPROVED

DEPT OF HEALTH NW DRINKING WATER

Jennifer Brooks 9/30/14
PLANNER DATE

Nancy Jensen
ENGINEER DATE

2014
AUGUST

FINAL

15-12000
RECEIVED

SEP 19 2014

DEPARTMENT OF HEALTH
NW DRINKING WATER

1415 FREEWAY DRIVE • P.O. BOX 1436 • MOUNT VERNON, WA 98273
(360) 424.7104 • SKAGITPUD.ORG



STATE OF WASHINGTON
DEPARTMENT OF HEALTH

NORTHWEST DRINKING WATER REGIONAL OPERATIONS
20425 72nd Avenue South, Suite 310, Kent Washington 98032-2388

September 30, 2014

GEORGE SIDHU, PE, ENGINEERING MANAGER
SKAGIT COUNTY PUD 1 JUDY RESERVOIR
PO BOX 1436
MT VERNON, WA 98273-1436

RE: Skagit County PUD 1- **Judy Reservoir, ID # 79500**
Skagit County
Water System Plans - APPROVAL
Submittal # 13-1206 A - I
And the eight Satellite systems:
Fidalgo Island, ID # 00932, B **Alger, ID # 01400, C**
Cedargrove, ID # 11917, D **Marblemount, ID # AA642, E**
Mountain View, ID # 03774, F **Potlatch Beach, ID # 69034, G**
Rockport, # 73600, H **Skagit View Village, ID # 96879, I**

Dear Mr. George Sidhu and the PUD Planning Team Members: Chris Shaff, Lora Elsom, and Bill Trueman:

The Skagit County PUD 1's water system plans (WSPs), received in this office on December 10, 2013, with revisions submitted on September 19, 2014, has been reviewed, and in accordance with the provisions of WAC 246-290-100, are hereby **APPROVED**.

Approval of these plans are valid as it relates to current standards outlined in Chapter 246-290 WAC, revised April 2012, Chapter 246-293 WAC, revised September 1997, Chapter 70.116 RCW, the Skagit County Coordinated Water System Plan (CWSP), and is subject to the qualifications herein. An approved update of these WSPs is required on or before **September 30, 2020** unless ODW requests an update or plan amendment pursuant to WAC 246-290-100(9).

The Satellite Management Agency Plan (SMA) has also been reviewed and in accordance with the provisions of WAC 246-295 is hereby **APPROVED**. Skagit County PUD is re-approved for SMA ownership and for operation and management services in Skagit County.

APPROVED NUMBER OF CONNECTIONS

Updated capacity information for the Judy Reservoir system and the Marblemount system was provided, and the plan demonstrates their physical ability to provide water service within the planning period. For the other seven systems, the system capacity analysis in the previous plan is still considered to be current and was not updated.



Based upon information by George Sidhu, PE, here is a summary of the Skagit PUD’s water systems included in this plan approval:

Water System Name	Approved Capacity	Limiting Factor	Comments
Judy Reservoir	Unspecified	N/A	
Alger	219	Installed pump capacity	OK for build-out within LUD boundary
Cedargrove	466	Water right	OK for build-out within LUD boundary
Fidalgo Island	Unspecified	N/A	
Marblemount	106*	Storage	
Mountain View Subdivision	14	distribution system hydraulic capacity	source & treatment adequate for 16 homes
Potlatch Beach	182	Storage	OK for build-out within LUD boundary
Rockport	100 res. 6 non-res. Connections	Water right	
Skagit View Village	128	Water right	OK for build-out within LUD boundary

*Change in DOH Approval Number

CONSTRUCTION WAIVERS

Standard Construction Specifications for distribution main extensions have been approved. With this approval and consistent with WAC 246-290-125(2) the systems may elect to proceed with the installation of distribution main extensions provided that the systems maintains on file completed construction completion reports (a copy of which is attached) in accordance with WAC 246-290-125 (2) and WAC 246-290-120 (5) and make it available for review upon request by the department.

LOCAL GOVERNMENT CONSISTENCY

This document meets local government consistency requirements for WSP approval pursuant to RCW 90.03.386 and RCW 43.20.

SERVICE AREA AND DUTY TO SERVE

Pursuant to RCW 90.03.386(2), the service area identified in this WSP service area map may now represent an expansion in “place of use” for this system’s water rights. Changes in service area should be made through a WSP amendment.

The Skagit PUD 1 has a duty to provide new water service within its retail service area. This WSP includes service policies to describe how your system plans to provide new service within your retail service area.

WATER RESOURCES

The department's approval of your water system design does not confer or guarantee any right to a specific quantity of water. The approved number of service connections is based on your representation of available water quantity. If the Washington Department of Ecology, a local planning agency, or other authority responsible for determining water rights and water system adequacy determines that you have use of less water than you represented, the number of approved connections may be reduced commensurate with the actual amount of water and your legal right to use it.

Ecology did provide a comment letter on February 5, 2014.

PLANNING ACCOMPLISHMENT

We recognize the significant effort and resource commitment involved in the preparation of this WSP. Thank you for your cooperation and we look forward to working with you in the future.

Sincerely,



Jennifer Kropack
Regional Planner
(253) 395-6769



Nancy Feagin, P.E.
Regional Engineer
(253) 395-6765

Enclosure: Construction Completion Report

Cc: Bob Powell, General Manager, Skagit PUD
Gary Christensen, Director, Skagit County Planning & Development Services
Corrina Marote, Environmental Health Specialist, Skagit County Environmental Health
Krista Chavez, DOH

CONSTRUCTION COMPLETION REPORT FOR DISTRIBUTION MAIN PROJECTS

In accordance with WAC 246-290-120(5), a *Construction Completion Report* is required for all construction projects. Under the submittal exception process for distribution main projects, designed by a professional engineer but not submitted to DOH for approval, the report does not need to be submitted. **However, the purveyor must keep the Construction Completion Report on file and make it available for review upon request by DOH in accordance with WAC 246-290-125 (2)(b).** Furthermore:

- (1) The report form **must** bear the seal, date and signature of a professional engineer (PE) licensed in the state of Washington; and
- (2) Per WAC 246-290-120(5)(c), the amount of change in the physical capacity of a system must be documented, if the project results in a change in physical capacity.

SKAGIT COUNTY PUD 1 JUDY RES

DOH System ID No.: **79500**

Name of Water System

DALE WARDELL

Date Water System Plan that includes

Name of Purveyor (Owner or System Contact)

Standard Construction Specifications

PO BOX 1436

Date Standard Specifications

Mailing Address

Approved by DOH: **9/30/2014**

MT VERNON, WA 98273-1436

City State Zip

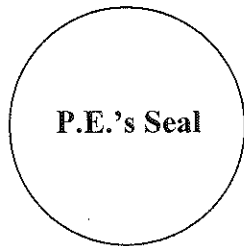
PROJECT NAME AND DESCRIPTIVE TITLE:

(Include the name of any development project and number of services.) Date Project or Portions Thereof Completed

PROFESSIONAL ENGINEER'S ACKNOWLEDGMENT

The undersigned professional engineer (PE), or his/her authorized agent, has inspected the above-described project that, as to layout, size and type of pipe, valves and materials, and other designed physical facilities, has been constructed and is substantially completed in accordance with construction documents reviewed by the purveyor's engineer. In the opinion of the undersigned engineer, the installation, physical testing procedures, water quality tests, and disinfection practices were carried out in accordance with state regulations and principles of standard engineering practice.

I have reviewed the disinfection procedures, pressure test results, and results of the bacteriological test(s) for this project and certify that they comply with the requirements of the construction standards/specifications approved by DOH.



Date Signed

Name of Engineering Firm

Name of PE Acknowledging Construction

Mailing Address

City State Zip

Engineer's Signature

State/Federal Funding Type (if any)

Please keep a completed, signed, and stamped copy on file.

NWRO Drinking Water
 Department of Health
 20425 72nd Ave. S, Ste 310
 Kent, WA 98032-2358
 (253) 395-6750

SWRO Drinking Water
 Department of Health
 PO Box 47823
 Olympia, WA 98504-7823
 (360) 236-3030

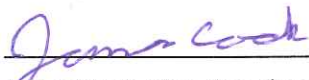
ERO Drinking Water
 Department of Health
 16201 E Indiana Ave, Suite 1500
 Spokane Valley, WA 99216
 (509) 329-2100

For persons with disabilities, this document is available on request in other formats. To submit a request, please call 1-800-525-0127 (TTY 1-800-833-6388).

**Approval of the
Water System Plan
for Public Utility District No. 1 of Skagit County
by
Board of Commissioners
Public Utility District No. 1 of Skagit County**



Al Littlefield, President



James Cook, Vice President



Robbie Robertson, Secretary

Signed this 9th day of September 2014

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CERTIFICATE OF ENGINEER

PUBLIC UTILITY DISTRICT NO. 1 OF SKAGIT COUNTY

2013 WATER SYSTEM PLAN

The technical material and data contained in the plan were prepared under the supervision and direction of the undersigned, whose seal as a professional engineer licensed to practice as such, is affixed below.



George Sidhu, P.E.
Engineering Manager

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APPENDICES

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	Cedargrove
	Marblemount
	Mountain View
	Potlatch Beach
	Rockport
	Skagit View Village

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ACRONYMS AND ABBREVIATIONS

AC	asbestos-cement
ADD	Average Day Demand
afy	acre-feet per year
AHJ	Authorities Having Jurisdiction
AMR	Automated Meter Reading
AMSL	above mean sea level
APWA	American Public Works Association
As	arsenic
ASR	Annual Summary Report
AWWA	American Water Works Association
BAT	backflow assembly tester
CaRD	Conservation and Reserve Development
ccf	100 cubic feet
CCCP	Cross-Connection Control Program
CCL	Contaminant Candidate List
CCP	concrete cylinder pipe
CCR	Consumer Confidence Report
CCS	Cross-Connection Specialist
CEU	continuing education unit
CFE	combined filter effluent
CFO	Chief Financial Officer
CFR	Code of Federal Regulations
cfs	cubic feet per second
cfu	colony forming unit
CI	cast iron
CIP	Capital Improvement Plan
ClO ₂	chlorine dioxide
CO	Construction Order
Commission	Skagit County Public Utility District Board of Commissioners
CMMS	Computerized Maintenance Management System
CT	contact time
CU	color unit
CWSP	Skagit County Coordinated Water System Plan
DBP	disinfection byproduct
D/DBPR	Disinfectants/Disinfection By-Product Rule
DI	ductile iron
District	Public Utility District No. 1 of Skagit County
DNS	Determination of Non-Significance

DOH	Washington State Department of Health
DOSH/WISHA	Department of Occupational Safety and Health/Washington Industrial Safety and Health Administration
DSL	distribution system leakage
DWSRF	Drinking Water State Revolving Fund
Ecology	Washington State Department of Ecology
EOL	end of life
EPA	U.S. Environmental Protection Agency
ERP	Emergency Response Plan
ERU	equivalent residential unit
FBRR	Filter Backwash Recycling Rule
FEMA	Federal Emergency Management Agency
FSWM	follow-up source water monitoring
GED	General Educational Development
GIS	Geographic Information System
G.O.	General Obligation
gpd	gallons per day
gpm	gallons per minute
GPS	Global Positioning System
GWUDI	groundwater under direct influence
HAA5	haloacetic acid
HDPE	high density polyethylene
HGL	Hydraulic Grade Line
Hp	horsepower
HPC	heterotrophic plate count
HVAC	heating, ventilation, and air conditioning
IAPMO	International Association of Plumbing and Mechanical Officials
ICBO	International Conference of Building Officials
ICS	Incident Command System
IDSE	Initial Distribution System Evaluation
IESWTR	Interim Enhanced Surface Water Treatment Rule
IFE	individual filter effluent
IGEA	Investment Grade Efficiency Audit
IOC	inorganic chemical
IR	inactivation ratio
ISWM	initial source water monitoring
IWA	International Water Association
JOA	Joint Operating Agreement
Judy System	Judy Reservoir System
L&I	Washington State Department of Labor & Industries
Lab Rule	Drinking Water Laboratory Certification and Data Reporting Rule

LAMIRD	limited areas of more intensive rural development
LCR	Lead and Copper Rule
LFC	local facilities charge
LID	Local Improvement District
LRAA	locational running annual average
LT2ESWTR	Long Term 2 Enhanced Surface Water Treatment Rule
LUD	Local Utility District
MCL	maximum contaminant level
MCLG	maximum contaminant level goal
MDD	Maximum Day Demand
MDL	Minimum Detection Limit
MFL	million fibers per liter
MG	million gallon
MGD	million gallons per day
mg/L	milligrams per liter
MMM	Multimedia Mitigation
MOA	Memorandum of Agreement Regarding Utilization of Skagit River Basin Water Resources for Instream and Out of Stream Purposes
MRDL	maximum residual disinfectant level
MRDLG	maximum residual disinfectant level goal
mrem/year	millirem per year
MSDS	Material Safety Data Sheet
NaOH	caustic soda
NH ₃	ammonia
NIMS	National Incident Management System
NO ₂	nitrite
NO ₃	nitrate
NOM	naturally occurring materials
NRF	National Response Framework
NTU	Nephelometric Turbidity Unit
O&M	operations and maintenance
OFM	Washington State Office of Financial Management
OSRSI	Open Space of Regional/Statewide Importance
pCi/L	picoCuries per liter
PHD	Peak Hour Demand
PIO	Public Information Officer
PNR	Public Notification Rule
PNWS	Pacific Northwest Section, American Water Works Association
ppb	parts per billion
ppm	parts per million
PRV	pressure-reducing valve

PSE	Puget Sound Energy
psi	pounds per square inch
PSV	pressure sustaining valve
PVC	polyvinyl chloride
PWS	public water system
PWSID	Public Water System Identification
PWTF	Public Works Trust Fund
Qa	annual quantity
Qi	instantaneous quantity
RAA	running annual average
RCW	Revised Code of Washington
RTCR	Revised Total Coliform Rule
SCADA	supervisory control and data acquisition
SCFM	standard cubic feet per minute
SDF	System Development Fee
SDWA	Safe Drinking Water Act
SEPA	State Environmental Policy Act
SMA	Satellite Management Agency
SOC	synthetic organic chemical
sq ft	square foot
SR	State Route
SRD	Skagit River Diversion
SRL	State Reporting Level
SWTR	Surface Water Treatment Rule
TCR	Total Coliform Rule
TOC	total organic carbon
TTHM	total trihalomethane
UCMR2	Unregulated Contaminant Monitoring Rule 2
UCMR3	Unregulated Contaminant Monitoring Rule 3
UGA	Urban Growth Area
ULID	Utility Local Improvement District
VFD	variable frequency drive
VOC	volatile organic chemical
WAC	Washington Administrative Code
WETRC	Washington Environmental Training Center
WISHA	Washington Industrial Safety and Health Act of 1973
WLCAP	Water Loss Control Action Plan
WMP	Watershed Management Plan
WQMR	Water Quality Monitoring Report
WSDM	Water System Design Manual

WSP	Water System Plan
WTP	water treatment plant
WTPO	Water Treatment Plant Operator
WUE	Water Use Efficiency
WUER	Water Use Efficiency Rule

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