# ANNUAL REPORT

### FISCAL YEAR 2017-2018



Joe Ney Reservoir



Service Center





Pony Creek Treatment Plant

2305 OCEAN BOULEVARD P. O. BOX 539 COOS BAY, OREGON 97420

OFFICE: (541)267-3128 FAX: (541)269-5370 www.cbnbh2o.com



Left to right standing: Mr. J. Gregory Solarz, Secretary
Ms. Melissa Cribbins, Chair
Charles J. Sharps, Ph.D., Member
Mr. Robert Dillard, Vice-Chair

### Coos Bay-North Bend Water BOARD OF DIRECTORS' MESSAGE

"Providing a Reliable,
Quality Service Meeting the
Present and Future Needs of
Our Communities"

Thank you for reviewing the 2017-2018 Coos Bay-North Bend Water Board's Annual Report. You will find information related to your utility's projects, finances, and water quality as well as an overview of the operations of the Coos Bay-North Bend Water Board and the services it provides. Additional information about your utility can be found on our website: www.cbnbh2o.com

America's infrastructure of roads, sewers, bridges, and water systems are at capacity and/or are wearing out. With our dedicated staff and General Manager's guidance and leadership, the Board has been able to anticipate potential shortfalls in our water system and has planned and scheduled Water Board operations, weeks, months and years ahead of time.

As members of your Water Board, we encourage your comments and suggestions. Please contact staff at the Water Board or ask to be connected to one of us at (541)267-3128. We respect your opinions and advice in operating your utility. For a closer look at your facilities, consider attending a board meeting or arranging for a tour.

#### **BOARD OF DIRECTORS**

arz, Secretary

### **Water Utility Infrastructure Inventory**

#### **Water Treatment Plants**

Pony Creek Filtration Plant—12 MGD\*
(North Spit Treatment Plant—1 MGD\*
Non-functional-emergency use only)
Surface Water Storage

### Surface Water Storage

- Upper Pony Creek Dam and Reservoir 6,230 AC-FT
- Merritt Lake Dam and Reservoir 385 AC-FT
- Joe Ney Dike, Reservoir and Pump Station 275 AC-FT

#### **Dunes Aquifer System**

18 Wells

12 Miles of Pipe

25 Test Wells (Piezometers)

1 Booster Pump Station

3 Monitoring Wells

#### **Distribution System**

13,002 Water Services 258 Miles of Pipe 1,195 Hydrants 5,494 Control and Hydrant Valves



Million Gallons per Day AC-FT= Acre Feet (325,830 gallons)

Pump Station Name	Associated Storage Facility	
6th and I Street	10th & I Street Reservoir	
10th and E Street	14th & F Street Reservoir	
10th and Ingersol	Ingersol Reservoir	
13th Court	Isthmus Heights Reservoir	
14th and Nutwood Avenue	High Level Reservoir	
Brights Mill	Brights Mill Reservoir	
California Street	Libby Reservoir	
Crestview	High Level Reservoir	
Everest Avenue 1	Everest Reservoir	
Everest Avenue 2	Everest Reservoir	
Flanagan Street	Bay Park Reservoir	
Glasgow	Glasgow Reservoir	
Glasgow Heights	Glasgow Reservoir	
Hauser	Hauser Reservoir	
High Level	High Level Reservoir	
Joe Ney	Joe Ney Reservoir	
Market Street	Clearwell	
Millington	Millington Reservoir	
Minnesota Street	Clearwell	
Newmark and Ash	Radar Reservoir	
Newmark and Tremont	Union Avenue Reservoir	
Oregon Street	Libby Reservoir	
Pennsylvania Avenue	Libby Reservoir	
Pigeon Point	Charleston Reservoir	
Seven Devils	Charleston Reservoir	
Shinglehouse Slough Road	Brights Mill Reservoir	
Shorewood	Shorewood Reservoir	
Sierra Avenue	Everest Reservoir	
Telegraph Hill	High Level Reservoir	
Terramar	Terramar Reservoir	
Union Avenue High Level	High Level Reservoir	
Wisconsin Avenue	Charleston Reservoir	
Woodlawn High Level	High Level Reservoir	

### **Projects and Equipment Included in Fiscal Year 2017-18 Budget**

No.	Project Listing	Estimated Cost
1 2	Install 10" PVC on Juniper/Hemlock from 14 <sup>th</sup> to 10 <sup>th</sup> , Retire 1,790' 6" CI	\$250,000 362,500
3	Install 6" PVC on 3 <sup>rd</sup> Avenue from "D" to "E" 340', Retire 2" AC	48,600
4	Install 2" on "E" Street from 2 <sup>nd</sup> Avenue west 190', Retire 2" AC	16,400
5	McCullough Bridge 16" steel pipe painting	232,300
6	Steel Tank Coating Maintenance Program	182,000
7	Brights Mill Drain Line	13,800
8	Wisconsin Pump Station Final Design	61,100
9	Well Meter Replacements	6,500
10	High Service Pump VFD Replacement	5,500
11	Power Study	25,500
12	Telemetry Units at Glasgow Pump Station and Reservoir	23,200
13	Tunnel Repair/Joe Ney Dike Repair	222,500
14	Computer Software - Accounting	8,300
15	Building Improvements – Customer Service  Total Project Costs	31,300 <b>\$1,489,500</b>
No.	Equipment Listing	Estimated Cost
1	#20 Elughing Van	\$ 24,000
2	#20 Flushing Van #19 4WD Pickup	\$ 24,000 23,000
3	#9 Utility Pickup with Box	37,000
4	New Vibrating Roller	35,000
5	Accessories and Parkerization	1,500
6	Vehicle Accessories	5,200
	Total Equipment Costs	<u>\$ 120,500</u>
	Total Estimated Capital Expenditures	<u>\$1,610,000</u>

CI - Cast Iron

AC – Asbestos Cement PVC – Poly Vinyl Chloride

## Frequently Asked Questions and Utility Statistics Fiscal Year 2017-2018

### Q: How many customers does the Water Board serve?

A: As of June 30, 2018, our customer total is 13,068, which includes 10,111 customers inside the city limits of Coos Bay and North Bend and 2,957 customers outside the city limits. The total population served by the Water Board is approximately 34,500 within a service area of approximately 100 square miles.

### Q: How much per month does the average residential customer spend for water?

A: The rates are different for customers inside the city limits than customers outside the city limits.

The average monthly residential bill inside the city limits is \$28.63 and outside the city limits is \$39.81. The average residential customer uses 4,144 gallons of water monthly.



## Q: What does it take to get the water from the treatment plant to the customer's tap?

A: More infrastructure than most people might imagine! When the water leaves the treatment plant, it goes into the distribution system which consists of 258 miles of various sizes of pipeline, approximately 5,494 control and hydrant valves within those pipelines, and approximately 1,195 fire hydrants. It takes 34 pump stations within the distribution system to get the water to customers at adequate pressure, plus 19 storage reservoirs located throughout the system.

### Q: Where does the water come from that's treated by Pony Creek Water Treatment Plant?

A: There are two surface water reservoirs upstream of the treatment plant, Upper Pony Creek and Merritt Reservoirs. The larger, Upper Pony Creek Reservoir, can hold 2 billion gallons of water; and Merritt Reservoir can hold 125 million gallons. There is a third surface water storage area at Joe Ney Slough which can store 90 million gallons.



Water is pumped from Joe Ney through a pipeline into the Upper Pony Creek Reservoir when the need for more water arises.

### Q: How much water is produced in a year for customers?

A: The total amount of water produced for customers this fiscal year was 1,312 million gallons of treated water and 164.5 million gallons of

untreated water. The average daily demand for treated water was 3.60 million gallons and 0.451 million gallons for untreated water. The demand peaked at 6.695 million gallons per day for treated water in fiscal year 2017-18.



### Q:Does all the water produced reach our customers?

A: Approximately 92.5% of the water produced at Pony Creek Water Treatment Plant reaches its ideal destination. Non-revenue water is the rest of the water that has been produced and is "lost" before it reaches the customer. Losses can be real losses such as leaks, water used for fire-fighting purposes, or apparent losses such as theft or metering



inaccuracies. A team of Water Board staff meets on a regular basis to discuss potential improvements that can be made. The Water Board is in compliance with the latest Oregon rules and regulations, keeping non-revenue water loss below 10%.

#### Q: How many water treatment plants are there?

A: There are two. The main treatment plant is Pony Creek Water Treatment Plant. It is located on Ocean Boulevard in Coos Bay and has a production capacity of 12 million gallons per day (MGD). The North Spit Water Treatment Plant is located on TransPacific Lane in North Bend and has a capacity of 1 MGD. If an emergency arises, the North Spit Plant can treat water from the dunes well system to supplement the needs of Water Board customers.

#### Q: How can I pay my water bill?

A: You can mail your water bill to P.O. Box 539, Coos Bay, OR 97420; at the Water Board Service Center; or by visiting us **online** at www.cbnbh2o.com

### COOS BAY-NORTH BEND WATER BOARD

Statement of Net Position June 30, 2018

ASSETS	Julie 30, 2018	
Current assets:		
Cash and cash equivalent		\$ 4,641,182
	able-net of allowance of \$64,776	418,878
Accounts receivable—oth	ner	57,183
City sewer receivable		347,628
Prepaid expenses		176,033
Inventory		511,061
Total current assets		6,151,965
Noncurrent assets:		
Capital assets		65,139,896
Total assets		71,291,861
DEFERRED OUTFLOWS OF	RESOURCES	
Deferred gain on debt refunding		89,558
Deferred amounts related to OPE	В	23,603
Deferred amounts related to pensi	ons	146,407
Total deferred outflor	ws of resources	259,568
LIABILITIES		
Current liabilities:		
Accounts payable		316,264
Payroll payable		97,552
City receivable payable		975,317
Accrued interest		170,113
Current portion of long-te	erm debt	1,266,415
Compensated absences		103,102
Total current liabilities		2,928,763
Long-term liabilities		
Customer deposits		132,105
Bonds and notes payable		12,934,111
Net pension liability		1,205,253
Net OPEB liability		187,615
Total long-term liabilities		14,459,084
Total liabilities		17,387,847
DEFERRED INFLOWS OF RES	OURCES	
Deferred inflows OPEB		8,542
Deferred amounts relating to pens	sions	162,571
Total deferred inflows o	fresources	171,113
NET POSITION		
Net invested in capital assets		50,939,370
Unrestricted		3,053,099
Total net position		\$ 53,992,469
1 otal net position		$\psi = 33,334,707$

COOS BAY-NORTH BEND WATER BOARD
Statement of Revenues, Expenses and Changes in Net Position
Year ended June 30, 2018

Operating Revenues:	_	
Water Sales	\$	7,264,323
Rent from water property		198,775
Billing and collecting revenue		130,766
Total operating revenues		7,593,864
Operating expenses:		
Source of supply		131,547
Power and pumping		427,167
Purification		978,307
Transmission		625
Distribution		930,792
Customer accounting		991,328
Administration and general		1,020,534
Depreciation		1,711,596
Amortization		26,369
Total operating expenses		6,218,265
Operating income (loss)		1,375,599
Non-operating revenues (expenses):		
Interest income		57,861
Miscellaneous non-operating revenue		50,254
Interest expense		(403,577)
Total non-operating revenues (expenses)		(295,462)
Income (loss) before capital contributions		1,080,137
Capital contributions:		
System development charges		306,255
Contributions in aid of construction		19,246
Conditions in the of constituction		17,210
Total capital contributions		325,501
Change in net position		1,405,638
Total net position-beginning, restated		52,586,831
Total net position-ending	\$	53,992,469

#### **2018 WATER QUALITY STATISTICS**

One of the most important focuses of the Water Board is to provide high quality drinking water to our customers. Thousands of tests are performed annually as part of our quality control program and to insure compliance with state and federal regulations. The following results are reflective of 2018 reporting requirements.

Abbreviations and units used in trace concentration measurements issued by the Oregon Health Authority:

Waiver = non-vulnerability to contaminant

ug/L = micrograms per liter P/A = presence/absence

ug/L = micrograms per liter		P/A = presence/absence		
PARAMETER	UNIT	MCL	RESULTS	
Turbidity	NTU	0.3	0.05	
MICROBIOLOGICAL				
Coliform	P/A	5% positive	482 - Absent	
			1 - Present	
INORGANICS	1 "			
Antimony	mg/L	0.006	ND @ 0.0002	
Arsenic	mg/L	0.01	ND @ 0.001	
Asbestos	MFL	7.0	ND	
Barium	mg/L	2.0	ND @ 0.05	
Beryllium	mg/L	0.004	ND @ 0.0001	
Cadmium	mg/L	0.005	ND @ 0.0001	
Chromium	mg/L	0.1	ND @ 0.005	
Cyanide	mg/L	0.2	ND @ 0.003	
Fluoride	mg/L	2 – 4	0.64	
Lead	mg/L	0.015-AL	• 0.0026	
Mercury	mg/L	0.002	ND @ 0.0002	
Nickel	mg/L	0.1	ND @ 0.0005	
Total Nitrate (as N)	mg/L	10.0	0.45	
Nitrate + Nitrite (as N)	mg/L	10.0	0.37	
Nitrite (as N)	mg/L	1.0	ND @ 0.05	
Selenium	mg/L	0.05	0.0005820	
Sodium (advisory)	mg/L	20	7.69	
Thallium	mg/L	0.002	ND @ .0005	
SYNTHETIC ORGANIC CHE		0.002	112 @ .0000	
2,4-D	mg/L	0.07	ND @ 0.001	
2,4,5-TP (Silvex)	mg/L	0.05	ND @ 0.005	
Adipates	mg/L	0.4	ND @ 0.004	
Alachlor	mg/L	0.002	ND @ 0.0002	
Atrazine	mg/L	0.003	ND @ 0.0003	
Benzoapyrene	mg/L	0.0002	ND @ 0.00004	
BHC-gamma (Lindane)	mg/L	0.0002	ND @ 0.00004	
Carbofuran	mg/L	0.0002	ND @ 0.0002	
Chlordane	mg/L	0.002	ND @ 0.00025	
Dalapon	mg/L	0.002	ND @ 0.00023	
Dibromochloropropane	mg/L	0.0002	ND @ 0.003	
Distolliodilolopiopalie	ilig/L	0.0002	0.0000188	
Dinoseb	mg/L	0.007	ND @ 0.0005	
Dioxin	mg/L	0.00000003	Waiver	
Diquat	mg/L	0.000	ND @ 0.002	
Endothall	mg/L	0.02	ND @ 0.002	
Endrin	mg/L	0.002	ND @ 0.00002	
Ethylene Dibromide	mg/L	0.002	ND @ 0.00002	
Glyphosate		0.00005	ND @ 0.0001	
Heptachlor Epoxide	mg/L	0.0002	ND @ 0.00002	
Heptachlor	mg/L	0.0002	ND @ 0.00002 ND @ 0.00002	
Периаспот	mg/L	0.0002	ND @ 0.00002 ND @ 0.0001	
Hexachlorobenzene	mg/L		ND @ 0.0001	
Hexachlorocyclopentadiene	mg/L	0.05	ND @ 0.0005	

PARAMETERS		MCL	RESULTS
SYNTHETIC ORGANIC CHE		cont'd.	
Methoxychlor	mg/L	0.04	ND @ 0.0001
Pentachlorophenol	mg/L	0.001	ND @ 0.0001
Phthalates	mg/L	0.006	ND @ 0.0006
Picloram	mg/L	0.5	ND @ 0.005
Polychlorinated Biphenyls	mg/L	0.0005	ND @ 0.0001
Simazine	mg/L	0.004	ND @ 0.0004
Toxaphene	mg/L	0.003	ND @ 0.0003
Vydate (Oxamyl)	mg/L	0.2	ND @ 0.004
VOLATILE ORGANIC CHEMI	CALS*		
Trihalomethanes**	mg/L	0.08	0.025
Halo Acetic Acids ***	mg/L	0.06	0.013
1,1,1,2-Tetrachloroethane *	mg/L		ND @ 0.0005
1,1,1-Trichloroethane	mg/L	0.2	ND @ 0.0005
1,1,2,2-Tetrachloroethane *	mg/L		ND @ 0.0005
1,1,2-Trichloroethane	mg/L	0.005	ND @ 0.0005
1,1-Dichloroethane *	mg/L		ND @ 0.0005
1,1-Dichloroethylene	mg/L	0.007	ND @ 0.0005
1,1-Dichloropropene *	mg/L		ND @ 0.0005
1,2,3-Trichloropropane*	mg/L		ND @ 0.0005
1,2,4-Trichlorobenzene	mg/L	0.07	ND @ 0.0005
1,2-Dichloroethane	mg/L	0.005	ND @ 0.0005
1,2-Dichloropropane	mg/L	0.005	ND @ 0.0005
1,3-Dichloropropane *	mg/L		ND @ 0.0005
1,3-Dichloropropene *	mg/L		ND @ 0.0005
2,2-Dichloropropane *	mg/L		ND @ 0.0005
Benzene	mg/L	0.005	ND @ 0.0005
Bromobenzene*	mg/L		ND @ 0.0005
Bromodichloro-methane	mg/L		0.00378
Bromoform	mg/L		ND @ 0.0005
Bromomethane *	mg/L	0.005	ND @ 0.0005
Carbon Tetrachloride	mg/L	0.005	ND @ 0.0005
Chloroethane *	mg/L		ND @ 0.0005
Chloroform	mg/L		0.00380
Chloromethane *	mg/L	0.07	ND @ 0.0005
cis-1,2 Dichloroethylene	mg/L	0.07	ND @ 0.0005
Dibromochloro-methane	mg/L		0.00216
Dibromomethane	mg/L	0.005	ND @ 0.0005
Dichloromethane	mg/L	0.005 0.7	ND @ 0.0005
Ethylbenzene	mg/L	0.7	ND @ 0.0005
m-Dichlorobenzene*	mg/L		ND @ 0.00280 ND @ 0.0005
Methyl tert-butyl ether* Monochlorobenzene	mg/L	0.1	ND @ 0.0005
o-Chlorotoluene *	mg/L mg/L	0.1	ND @ 0.0005
o-Dichlorobenzene		0.6	ND @ 0.0005
	mg/L	0.6	ND @ 0.0005
p-Chlorotoluene * p-Dichlorobenzene	mg/L	0.075	ND @ 0.0005
•	mg/L		
Styrene Tetrachloroethylene	mg/L mg/L	0.1 0.005	ND @ 0.0005 ND @ 0.0005
Toluene	mg/L	1.0	ND @ 0.0005
trans-1,2-Dichloroethylene	mg/L	0.1	ND @ 0.0005
Trichloroethylene	mg/L	0.005	ND @ 0.0005
Vinyl Chloride	mg/L	0.005	ND @ 0.0005
Xylenes (total)	mg/L	10.0	ND @ 0.0005
RADIONUCLIDES-NATURAL		1 10.0	. 12 @ 0.0000
Gross Alpha	pCi/L	15	ND
Combined Radium 226/228	pCi/L	5	2.5
Combined Tradium  Combined Uranium	ug/L	30	ND @ 1.0
SECONDARY CONTAMINAN			1 5
Color	CU	15	2
pH		6.5-8.5	8.5
Hardness	mg/L	250.0	13
Copper	mg/L	1.3-AL	• 0.0388
* *	_	0.3	0.03
Iron	mg/L	0.3	
Manganese	mg/L	0.03	0.017

UNIT MCI

Blanks under MCL represent unregulated volatile organic chemicals

<sup>\*</sup> Trihalomethanes include: Bromodichloromethane, Bromoform, Chloroform, Dibromochloromethane

<sup>\*\*\*</sup> Halo Acetic Acids include: Dibromoacetic acid, Dichloroacetic acid, Monobromoacetic acid, Monochloroacetic acid, Trichloroacetic acid



### VISIT OUR WEBSITE AT www.cbnbh2o.com OR CONTACT US BY E-MAIL

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