

220 NW 2ND AVENUE PORTLAND, OR 97209

503.226.4211

February 14, 2020

Mr. Randall Bailey Oregon Department of Environmental Quality Northwest Region 700 NE Multnomah St., Suite 600 Portland, Oregon 97232

## Re: January 2020 Discharge Monitoring Report NW Natural Source Control Groundwater Treatment Facility 7900 NW St. Helens Road, Portland NPDES Permit Number 103061 (permit renewal pending with DEQ)

Dear Mr. Bailey:

Attached please find the electronic Discharge Monitoring Report, as well as a detailed summary of January 2020 effluent data, from the NW Natural Source Control Groundwater Treatment Facility for the period January 1—January 31, 2020.

All samples were taken by Sevenson Environmental Services (SES) at the designated monitoring point. Any internal process samples taken by SES for process operation, but not taken at the designated monitoring point, are not reported.

All NPDES parameter limits were met for the month of January. As reported in Sevenson's December 2019 report, APEX Laboratory's subcontractor for certified low-level mercury testing, ACZ, has been experiencing problems with its mercury analytical device.

As a result of the continuing issue with ACZ, Sevenson sent the first three January samples to APEX Laboratory for the low-level mercury analysis. As we noted previously, APEX has applied for DEQ certification to perform low-level mercury analyses and has been audited by DEQ, but has not yet received the certification. The APEX analyses of the samples are included in this report. The results of APEX's December analyses shown are similar to those found in the past that were performed by ACZ. We were notified by ACZ in January that their analytical device was functioning. The fourth January mercury sample was sent to ACZ for analysis. Note that all four January samples (3 from APEX and 1 from ACZ) show similar mercury concentrations and are also similar to past mercury concentrations.

We are submitting this January DMR through the electronic NetDMR system. As required, all of the detailed laboratory reports and other data that are summarized in the September NetDMR will be retained on site in electronic and hard copy by SES, the Facility operator.

I certify under penalty of law that this document and all documents were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

If you have any questions about this package, please contact Terry Driscoll at Aponowich, Driscoll & Associates, Inc., at (404) 641-8107, tpdriscoll@mindspring.com.

Very truly yours,

Kutty M. Wel

Kathryn Williams Vice President of Public Affairs NW Natural

## **DMR Copy of Record**

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Report det de de de la construir de la	Permitted Feature: 001 External Outfall				Disc	Discharge:			<b>001-A</b> Groundwa	ter 001A											
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Number line     Substrain	Monitoring Period:	From 01/01/2	0 to 01/3 <sup>.</sup>	1/20	DMR	Due Date:			02/15/20				Status:		NetDMR	Validated					
Prioritation of the state of the st	Considerations for Form	Completion																			
	Principal Executive Offic	er																			
	First Name:	Kathryp			Title					dont Publi	io Affaire	ĺ	Tolophono:		503 226	1011					
	First Name:	Kathryn			The:				vice Presid	Jent-Publi	ic Allairs		relephone:		505-226-4	4211					
	Last Name:	Williams																			
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Ode Name Odd Odd<	Parameter	Monitoring Location	n Season #	# Param. NODI		Q	uantity	y or Loadir	ng			Qua	lity or Concen	tration		#	of Ex. F	requency of Analysis	Sample		
And the second	Code Name					Qualifier 1 Va	lue 1 (	Qualifier 2	Value 2 Unit	s Qualifier	1 Value 1	Qualifier 2	Value 2	Qualifier	3 Value 3	Units					
<table-container>      Description     1 - Effunct Gram     0     -     Prima Prima     Prima Prima     -     Prima Prima     Prima Prima Prima     Prima Pri</table-container>					Sample					=	7.5			=	7.7	12 - SU	WH	DS - When Discharging	GR - GR		
Michael     Michael <t< td=""><td>00400 pH</td><td>1 - Effluent Gross</td><td>0</td><td></td><td>Permit Req.</td><td></td><td></td><td></td><td></td><td>&gt;=</td><td>6.5 DAILY MN</td><td>1</td><td></td><td>&lt;=</td><td>8.5 DAILY MX</td><td>12 - SU</td><td>WH/</td><td>'DS - When Discharging</td><td>GR - GR</td></t<>	00400 pH	1 - Effluent Gross	0		Permit Req.					>=	6.5 DAILY MN	1		<=	8.5 DAILY MX	12 - SU	WH/	'DS - When Discharging	GR - GR		
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CDU2D Cyands, total [as CH]     1-Effluent Gress     0		1 - Effluent Gross	0		Sample							=	160.0	=	170.0	28 - ug/L	WH/	DS - When Discharging	CP - CO		
Notice NODE	00720 Cyanide, total [as CN]				Permit Req.							<=	510.0 MO AVG	; <=	1000.0 DAILY MX	VH/DS		DS - When Discharging	CP - CO		
Constraine     Constra					Sample							-	150.0	_	170.0	29 ug/l			24 001		
Outcombine     Individual contraine     Inditent contraine     Individual contraine<	00980 Iron, total recoverable	1 - Effluent Gross	0		Permit Reg					-		-	820.0 MO AVG	-	1600.0 DAILY MX	28 - ug/L		/DS - When Discharging	24-00		
Sample <td></td> <td></td> <td>Value NODI</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>020.0 MO AVC</td> <td>,</td> <td>TOUD DAILT WA</td> <td>. 20 - ug/L</td> <td>VVID</td> <td>Do - When Discharging</td> <td>1 24 - 001</td>					Value NODI								020.0 MO AVC	,	TOUD DAILT WA	. 20 - ug/L	VVID	Do - When Discharging	1 24 - 001		
1111   Leffluent Gross   0   -   Permit Req.   -   0   -   -   5.0 MO AVG   -   7.6 DAILY MX   28 - ugL   WH/DS - When Discharging   24 - CO     01119   Copper, Ital recoverable   -   -   Sample   -		1 - Effluent Gross	0		Sample							=	0.0	<	0.1	28 - ua/L	WH	/DS - When Discharging	24 - CON		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	01114 Lead, total recoverable				Permit Req.							<=	5.0 MO AVG	<=	7.6 DAILY MX	28 - ug/L	WH	/DS - When Discharging	24 - CON		
Name     Name <th< td=""><td></td><td></td><td>Value NODI</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>					Value NODI																
1 - Effluent Grosse   0   -   Permit Req.   (a)					Sample							=	0.14	=	0.54	28 - ug/L	WH/	/DS - When Discharging	24 - COM		
i and	01119 Copper, total recoverable	1 - Effluent Gross	0		Permit Req.							<=	15.0 MO AVG	<=	30.0 DAILY MX	28 - ug/L	WH/	DS - When Discharging	24 - CON		
Applicit   Applicit   Sample   Complexit   Complexit   Sample   Com					Value NODI																
3427 Barzo[a]pyrene   1- Effluent Gross   0   -   Permit Req.   Image: Comparison of the compari			0		Sample							=	0.0	<	0.021	28 - ug/L	WH/	DS - When Discharging	24 - CON		
Value NODI     Value N	34247 Benzo[a]pyrene	1 - Effluent Gross			Permit Req.							<=	1.0 MO AVG	<=	1.0 DAILY MX	28 - ug/L	WH/	DS - When Discharging	24 - CON		
And product of the sector o					Value NODI										0.004	00 "			04.001		
34403 inderiot 1,2,3 cdipyrere   1 - Effluent Gross   0	24402 Indepoid 0.2 editorrane	1 Effluent Oraco	0		Sample							=		<	0.021	28 - ug/L	VVH/	DS - When Discharging	24 - CON		
3456   Banzo [a]anthracene   1 - Effluent Gross   0   Sample   0   0   0.021   28 - ug/L   WH/DS - When Discharging   24 - CO     3456   Banzo [a]anthracene   1 - Effluent Gross   0   0   0   0.011   28 - ug/L   WH/DS - When Discharging   24 - CO     3456   Dibenz [a,h]anthracene   1 - Effluent Gross   0 <td>34403 Indeno[1,2,3-cd]pyrene</td> <td>1 - Effluent Gross</td> <td></td> <td>Value NODI</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>&lt;-</td> <td>T.U MO AVG</td> <td>&lt;-</td> <td>TO DAILY MA</td> <td>20 - ug/L</td> <td colspan="2">- vvH/DS - vvnen Disch</td> <td>24-001</td>	34403 Indeno[1,2,3-cd]pyrene	1 - Effluent Gross			Value NODI							<-	T.U MO AVG	<-	TO DAILY MA	20 - ug/L	- vvH/DS - vvnen Disch		24-001		
3452   Benzo[a]anthracene   1 - Effluent Gross   0					Sample							=	0.0	<	0.021	28 - ua/l	WH	/DS - When Discharging	24 - COM		
Value NODI   Value NODI <td>34526 Benzo[a]anthracene</td> <td>1 - Effluent Gross</td> <td>0</td> <td></td> <td>Permit Reg.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>&lt;=</td> <td>1.0 MO AVG</td> <td>&lt;=</td> <td>1.0 DAILY MX</td> <td>28 - ug/l</td> <td>WH/</td> <td>/DS - When Discharging</td> <td>24 - COM</td>	34526 Benzo[a]anthracene	1 - Effluent Gross	0		Permit Reg.							<=	1.0 MO AVG	<=	1.0 DAILY MX	28 - ug/l	WH/	/DS - When Discharging	24 - COM		
A best prime   A best prim   A best prim   A	e leze benzelajantindeene				Value NODI											3		gg			
34556 Dibenz[a,h]anthracene   1 - Effluent Gross   0    Permit Req.   Image: Comparison of the comparison of t					Sample							=	0.0	<	0.021	28 - ug/L	WH/	/DS - When Discharging	24 - CON		
Value NODI   Value NODI   Image: Non-Image: Non-Image	34556 Dibenz[a,h]anthracene	1 - Effluent Gross	0		Permit Req.							<=	1.0 MO AVG	<=	1.0 DAILY MX	28 - ug/L	WH	/DS - When Discharging	24 - CON		
71901 Mercury, total recoverable 1 - Effluent Gross   0.001   -   0.001   -   0.0016   28 - ug/L   WH/DS - When Discharging   24 - CO     Value NODI   -   0.01   -   0.01 MO AVG   -   0.02 DAILY MX   28 - ug/L   WH/DS - When Discharging   24 - CO					Value NODI													, , , , , , , , , , , , , , , , , , ,			
71901 Mercury, total recoverable 1 - Effluent Gross 0 Permit Req. Value NODI C Value NOD					Sample							=	0.001	=	0.0016	28 - ug/L	WH	DS - When Discharging	24 - CON		
Value NODI	71901 Mercury, total recoverable	1 - Effluent Gross	0		Permit Req.	nit Req.						<=	0.01 MO AVG	<=	0.02 DAILY MX	28 - ug/L	WH/	DS - When Discharging	24 - CON		
					Value NODI																

## Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

No errors.

Comments

Attachments

	Name	Туре	Size
January2020DMR-Final.xls		xls	54784.0
2020-02-14January2020DMRCoverLetter.pdf		pdf	97650.0
Report Last Saved By			
NORTHWEST NATURAL			
User:	JENAMOTT		

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MPOS MPOS

MP24 MP24

NWN-PCI0777817

Edit Check Errors

Name:	Jennifer Mott
E-Mail:	jmott@anchorqea.com
Date/Time:	2020-02-14 07:47 (Time Zone: -08:00)
Report Last Signed By	
User:	JENAMOTT
Name:	Jennifer Mott
E-Mail:	jmott@anchorqea.com
Date/Time:	2020-02-14 07:47 (Time Zone: -08:00)



NW Natural Sour	rce Control Tre Sampling Re	eatment Pla port Data	int																					
Permit Number		103061																						
Report Due Date		02/15/20																						
Sampling Period		01/01/20 th	ru 01/31/20											_										
	Total Flow	рН	Average Daily Temp	Maximum Daily Temp	Max Temp 7 day Moving	To Cya	Total Cvanide		Benzo(a) anthracene		Benzo(a) pyrene		Dibenzo(a,h) anthracene		Indeno(1,2,3-cd) pyrene		Copper		Iron		Lead		Mercury	
					Average		ō		01				0		01		0		0		01		01	
Date	Gals/Day	S.U.	deg F	deg F	deg F	ug/L	ug/L	ug/L	ug/L	ug/L	QL, ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
1-Jan-2020	316106		57.9	59.0	58.0																			
3-Jan-2020	324802		58.0	59.0	58.3																			
4-Jan-2020	310204		57.2	58.0	58.1																			
5-Jan-2020	326346	7.5	57.0	57.0	58.1																			
6-Jan-2020	263080		56.9	57.0	58.0	140	25	<0.019	0.038	<0.019	0.038	<0.019	0.038	<0.019	0.038	<0.50	1.0	150	50	<0.10	0.20	0.0010	0.0005 *	
7-Jan-2020	270612		57.0	57.0	57.9																			
8-Jan-2020	252890		56.9	58.U	57.1 57.6																			
10-Jan-2020	292476		57.0	58.0	57.0					<u> </u>											<u> </u>		<u> </u>	
11-Jan-2020	271896		57.0	58.0	57.4																			
12-Jan-2020	291768	7.5	56.7	57.0	57.4																			
13-Jan-2020	279509		56.0	56.0	57.3	160	25	<0.019	0.038	<0.019	0.038	<0.019	0.038	<0.019	0.038	<0.50	1.0	150	50	<0.10	0.20	0.0011	0.0005 *	
14-Jan-2020	276810		56.0	56.0	57.1																			
15-Jan-2020	299814		56.0	57.0	57.0																			
17- Jan-2020	290309		56.0	57.0	56.9																			
17-Jan-2020	293902		56.6	59.0	56.9																			
19-Jan-2020	322458	7.7	57.3	58.0	57.0																			
20-Jan-2020	315077		57.0	57.0	57.1	160	25	<0.021	0.043	<0.021	0.043	<0.021	0.043	<0.021	0.043	0.54	1.0	170	50	<0.10	0.20	0.0016	0.0005 *	
21-Jan-2020	288689		57.0	57.0	57.3																			
22-Jan-2020	282738		57.0	58.0	57.4																			
23-Jan-2020	277570		57.9	58.0	57.6																			
24-Jan-2020	262217		58.1	59.0	57.9																			
25-Jan-2020	264568	7.5	58.3	59.0	58.U																			
20-Jan-2020	282732	7.5	57.4	58.0	58.3	170	25	<0.019	0.038	<0.019	0.038	<0.019	0.038	<0.019	0.038	<0.50	10	130	50	<0.10	0.20	0 0004	0.001	
28-Jan-2020	291143		57.3	58.0	58.4		20	101010	0.000	-0.010	0.000	-01010	0.000	-01010	0.000	-0.00	1.0	100		-0110	0.20	0.0004	0.001	
29-Jan-2020	283075		57.9	59.0	58.6																			
30-Jan-2020	265549		57.4	58.0	58.6																			
31-Jan-2020	266352		58.5	59.0	58.6																			
Deilu																								
Dally Minimum	252,890	7.5	56.0			140		<0.019		<0.019		<0.019		<0.019		<0.50		130		<0.10		0.0004		
Monthly																								
Average	289,012	7.6	57.1			160		0.0		0.0		0.0		0.0		0.14		150		0.0		0.0010		
Daily	226.246	77	59.5	50.0		170		<0.021		<0.021		<0.021		<0.021		0.54		170		<0.10		0.0016		
Maximum	320,340	1.1	56.5	59.0		170		<u></u> \0.021		<u>∼0.021</u>		<u>∽0.021</u>		<u>\0.021</u>		0.04		170		<i>∽</i> 0.10		0.0016		
Limits																					_			
Monthly		6.58.5				510	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	15	10	820	100	3.8	5	0.010	0.005	
Average																								
Maximum		6.58.5				1,000	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	30	10	1,600	100	7.6	5	0.020	0.005	
7-Day Moving			.=																					
Average of Daily					57.7																			
Maximum																								
Maximum Value																								
of /-Day Moving					58.6																			
Average																								

\* Non-Accredited Analyses: Mercury by EPA 1631E Analysis of samples for Mercury by EPA 1631E was performed prior to final accreditation being received from the ORELAP accrediting body.