

Public Works Department

117 N Molalla Avenue PO Box 248

Molalla, Oregon 97038 Phone: (503) 829-6855 Fax: (503) 829-3676

01/04/19

TO:

Pat Heins, recycled Water Program Coordinator

DEQ Water Quality Division

700 NE Multnomah Street, Suite 600

Portland, OR 97232

FROM:

Andy Peters, Operations Supervisor, City of Molalla

CC:

Gerald Fisher, Public Works Director, City of Molalla

Jake Ehredt, Lead Operator, City of Molalla Dan Huff, City Manager, City of Molalla

Mike Pinney, DEQ

RE: MEMORANDUM OF TRANSMITTAL: Recycled Water Annual Report

Attachments: DEQ Form v. 10-26-2018 (6 pages); Edge Analytics lab reports (2 pages)

Notes:

- Description of changes to treatment facilities: NONE
- Description of changes to processes specific to production of recycled water: NONE
- Weather data: ON FILE
- Results of site inspection reports: ON FILE
- Description of any operational problems (e.g., system upsets, overflows, etc.) and the corrective actions taken: ON FILE
- Description of changes in the beneficial purpose (e.g., crop changes, water delivery times, supplemental water sources, etc.): NONE
- Location and amount of recycled water used for each beneficial purpose: SEE ATTACHED
- Recycled water volume produced: SEE ATTACHED
- Recycled water characteristics including bacteria and other required monitoring results: SEE ATTACHED
- Results from any site monitoring (e.g., soil monitoring): SEE ATTACHED
- Any planned or anticipated changes to the treatment facility equipment or operations during the next calendar year: NONE
- Description of any proposed or anticipated changes in water reuse operations, including major changes in agricultural practices, such as crops: NONE



Andy Peters

City of Molalla Public Works Operations Supervisor (503) 829-6855 x220

Cell: 503-793-0507

apeters@cityofmolalla.com

117 N Molalla Ave Molalla, OR 97038



State of Oregon Department of Environmental Quality 700 NE Multnomah St. Suite 600, Portland, OR 97232

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Recycled Water Annual Report Part I: Recycled water production and disposition

	A. R	EPORTI	NG PERIOD	13.45年第15日的日本日本日本日本
1.	This report is for recycled water produced during	ng the cale	endar year: 2018	
	B. PE	ERMIT IN	FORMATION	
1	Permit Type (select one): NPDES or WP	CF	DEQ File No.: 57613	
1.	DEQ Permit No.: 101514		EPA Permit No.:	
	C. FA	CILITY II	NFORMATION	
1.	Legal name of facility: Molalla Sewer Treatment	Plant		
	Physical address			
2.	Street Address: 12424 S. Toliver Rd			
	City: Molalla S	state: Or		Zip code: 97038
	Mailing address	ress.		
3.	Mailing Address: P.O. Box 248			
	City: Molalla S	state: Oreg	on	Zip code: 97038
	Facility Type (check all that apply)			
	☐ Major or Tier 1 facility (design flow of 1 m			
4.	Minor or Tier 2 facility (design flow less that			
	Class I wastewater treatment facility (i.e., fa Other, please specify:	acility wit	n a pre-treatment prog	gram)
		NTACT	NFORMATION	
	Responsible official	NIACII	NFORMATION	
	Name: Gerald Fisher		Title: P.W. Director	
1				
1.	Email Address: gfisher@cityofmolalla.com		Telephone: 503-829	9-6855
	Mailing Address: P.O. BOX 248		T _G , ,	[a: 1
	City: Molalla		State: Oregon	Zip code: 97038
	Recycled water contact Same as respon	isible office	T	
	Name: Andy Peters		Title: Operations Sup	
2.	Email Address: apeters@cityofmolalla.com		Telephone: 503-829	9-6855
	Mailing Address: P.O. BOX 248			
	City: Molalla		State: Oregon	Zip code: 97038

		E. RECYCL	ED WATER TRI	EATMENT PRO	CESSES	对对对自己的				
	Please indica	te the recycled water	treatment prod	esses used at	your facility (mark all that apply)				
	Treatme	ent technology	Filtration t	echnology	Disinfe	ection technology				
	Primary Cla		Sand filter		Ultraviol	et				
	Secondary (Clarifier	Mixed media fi	lter	Chlorine Ozone					
1.	DAF Lagoon	ŀ	Bio-filtration Artificial wetla	nd	Paracetic	ic acid				
	Membrane r	reactor	Other:		<u> </u>	n peroxide				
	Trickling fil	ter			orite					
	Other:				Pasteuriz					
					Other: Ca	alcium Hypochlorite				
	0.1.4.6	NAMES OF THE OWNER OF THE PERSON OF THE PERS	TANKS TANKS DESIGNATION OF SE	PLING and PRO	DDUCTION					
	Water Class	acility's regulatory mo				Non disinfected				
		A	В	С	D	Non-disinfected				
1.	Monitoring frequency	■ Daily/hourly	3/week	1/week	Once per month	As specified in permit				
Lesinots	Parameters	Total Coliform (daily) Turbidity (hr)	Total coliform	Total coliform	E. coli	As Specified in permit				
	Please indica	ate total volume of eac	ch class of recy	cled water pro	duced at your	facility.				
2.	Total quantity produced (gal)	111.279 MG								
		C (NIMMARY OF							
	Informatio			ATTACHMENTS	•					
	—	n required with some			4	1				
		al copies of tables in Part	•	-	•	uar year.				
		ory reports showing analy	-		_					
	<u> </u>	of documentation held			-					
2	•	al land application site in	formation.		ading calculation					
	Daily irr	igation and records.		Daily or ho	urly sampling re	sults				
	T (C (1))	H. SIGNATURE OF		CALL SERVICE THE PROPERTY OF SERVICE SERVICES.						
	facility to the b	e information in this repo lest of my knowledge and I made available to the Or	belief. Information	on and records use	ed or referenced	with this report will be				
	1/7	<u></u>	J	Lead Operator		12-28-2018				
	Signature	C		Γitle		Date				
	Print Name: Jal	ke Ehredt								



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Recycled Water Annual Report Part II: Sampling and Monitoring Summary

					I. R	ECYCLED	WATER	CLASSIFIC	CATION								
	Jan Feb Mar Apr May Jun Jul Aug Sep Oct		Turbidity	y (NTU)		Tota	l Colifor	m (organis	sms/100	OmL)	E. coli (organisms/100mL)						
	Month	Max 24hr Mean	Avg 24 hr mean	Max	Ave	# of samples	Max 7day median	Avg 7day median	Max	Ave	# of samples	Max 30day log mean	Avg 30day log mean	Max	Ave		
1.	Jan																
2.	Feb																
3.	Mar																
4.	Apr																
5.	May			0.65	0.40	1	<1	<1	<1	<1							
6.	Jun			0.60	0.16	26	<1	<1	198.8	<1							
7.	Jul			1.18	0.60	21	<1	<1	36.9	15							
8.	Aug			2.24	1.00	29	<1	<1	2	<1							
9.	Sep			1.31	0.87	19	<1	<1	721.5	161.9							
10.	Oct			1.27	0.90	8	<1	<1	<1	<1							
11.	Nov																
12.	Dec																
13.																	
14.																	
15.	Annual														1		
	Attach	addition	al pages a	s neede	d to repo	ort all sam	pling.										

^{**} Please attach laboratory report showing sample results only. No lab QA/QC.

	ے		рН (9	SU)		ı	Residual	CI (mg/L)		Sodium (mg/L)						
	Month	# of samples	Min	Max	Ave	# of samples	Min	Max	Ave	# of samples	Min	Max	Ave			
1.	Jan															
2.	Feb															
3.	Mar															
4.	Apr															
5.	May	3	7.4	7.6	7.5	3	0.20	6.96	4.16							
6.	Jun	14	6.9	8.9	7.4	26	0.20	9.72	4.61							
7.	Jul	15	6.9	7.6	7.3	21	0.20	5.44	2.77							
8.	Aug	16	7.1	7.6	7.3	29	1.62	7.46	3.55							
9.	Sep	11	6.9	7.3	7.1	19	2.64	10.20	5.03							
10.	Oct	5	7.0	7.3	7.1	8	3.92	5.91	5.14							
11.	Nov															
12.	Dec															
13.																
14.																
15.	Annual															

^{**} Please attach laboratory report showing sample results only. No lab QA/QC.

£	Nitrogen TKN (mg/L)			Nitrog	en NO2 · (mg/L)	NO3	Ammonia NH3-N (mg/L)			Phosphate PO4 (mg/L)			Potassium K (mg/L)		
Month	# of samples	Max	Ave	# of samples	Max	Ave	# of samples	Max	Ave	# of samples	Max	Ave	# of samples	Max	Ave
Jan															
Feb															
Mar															
Apr															
May															
Jun	1	17.9	17.9	1	0.21	0.21	1	18.3	18.3	1	0.189	0.189			
Jul															
Aug	1	16.6	16.6	1	0.44	0.44	1	14.1	14.1	1	0.125	0.125			
Sep														18.70	
Oct															
Nov															
Dec															

			4,400												
nnual															

^{**} Please attach laboratory report showing sample results only. No lab QA/QC.

							L.	RE	CYCLEI	O WATE	R APPL	ICATI	ION							
	Site 1	Name:	Nor	rth Colem	an	Site N	Vame:	Sou	th Colmar	ne	Site 1	Name:	Cen	netery		Site N	ame:	ww	TP	
		Class:	A			(Class:	A				Class:	A			C	Class:	A		
	Use or	Crop:	Past	ture		Use or	Crop:	Past	ure		Use or	Crop:	Orn	amental		Use or (Crop:	Orna	mental	
	Area (a	acres):	270			Area (a	cres):	163			Area (a	cres):	3.4			Area (ac	cres):	8.1		
	Agronomic rate: Soil moisture monitoring: Additional N			Agronomic rate: 3.6 in/ac or 1.9 in/ac				nomic rate:				Agronomic rate:								
			cks	monitoring.					Soil moisture monitoring:					Soil moisture monitoring:				ks		
	Additio so	nal N ources:	56 1	lb-N/acre		Addition	nal N urces:	57 1	b-N/acre		Additio so	nal N urces:	57 1	b-N/acre		Addition sou	al N irces:	55 lb	-N/acre	
Month	# of days discharging	Total Volume	applied	Ave Daily Loading	Max Daily Loading	# of days discharging	Total volume	applied	Ave Daily Loading	Max Daily Loading	# of days discharging	Total Volume	applied	Ave Daily Loading	Max Daily Loading	# of days discharging	Total	applied	Ave Daily Loading	Max Daily Loading
		gal		in	in		gal	l	in	in		gal		in	in		ga	1	in	in
Jan																				
Feb																				
Mar																				
Apr																				
May	1	0.63	3	0.1	0.1	2	1.3		0.1	0.2						3	0.16	64	0.1	0.1
Jun	23	12.75	8	0.1	0.1	21	10.54	48	0.1	0.2	11	1.59)4	0.3	1.3	12	1.3	72	0.1	0.5
Jul	20	11.44	6	0.1	0.3	20	11.3	12	0.1	0.2	4	0.68	35	0.1	0.3	15	1.40	06	0.1	0.3
Aug	29	18.76	53	0.1	0.1	26	16.38	84	0.1	0.2	13	1.63	1	0.3	1.0	8	0.70	00	0.1	0.1
Sep	19	7.83	4	0.1	0.1	18	7.16	8	0.1	0.1						8	0.6	15	0.1	0.2
Oct			\perp			4	2.67	4	0.2	0.1						2	0.16	54	0.1	0.1
Nov					************															
Dec																				
Annual				_																

Daily Loading (inches) = $\frac{\text{Volume Applied (gallons)}}{\text{Area (acres) } x \text{ 27,152 } (\frac{gallons}{acre inches})}$



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946



Page 1 of 1

Data Report

Client Name: Molalla, City of WWTP

12424 S. Toliver Rd. Molalla, OR 97038

Reference Number: 18-21853

Project: WWTP Monthly Testing

Report Date: 7/3/18

Date Received: 6/19/18 Approved by: anp,bj

Authorized by:

Thanh B Phan

									La	b Mana	ager, Portland	
	scription: WWTP - Cemetry Number: 44707 Sample 6	Comment:									Date: 6/19/18 d By: Jessica	
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyze	d Analys	st Batch	Comment
NA	TOTAL NITROGEN	18.11	1.0		mg/L	1.0	<sum></sum>	а	6/29/18	LRS	TN_180629	
7664-41-7	AMMONIA-N	18.3	0.100	0.0012	mg/L	10.0	350.1	а	7/2/18	LRS	350.1_180702	
E-14506	ALKALINITY	112.6	2.0		mg CaCO3/L	2.0	SM2320 B	а	6/24/18	SRS	ALK_180624	
E-10128	TOTAL NITRATE/NITRITE	0.21	0.010	0.0026	mg/L	1.0	SM4500-NO3 F	а	6/28/18	LRS	NO3NO2_180628	
E-10264	TOTAL KJELDAHL NITROGEN	17.9	2	0.0047	mg/L	10,0	351.2/351.2	а	6/29/18	LRS	351.2_180629	
7723-14-0	TOTAL PHOSPHORUS	0.189	0.010	0.0026	mg/L	1.0	SM4500-P F/SM4500-P B(5)	а	6/26/18	LRS	TPHOS_180626	



Burlington, WA	Corporate Laboratory (a)	1826 S Walnut St	Burlington, WA 98233	800.755.9295 < 350.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	380.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Villsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Covalis, OR 97333	541,753,4946



Page 1 of 1

Data Report

Client Name: Molalla, City of WWTP

12424 S. Toliver Rd. Molalla, OR 97038 Reference Number: 18-30320

Project: Molalla WWTP

Report Date: 8/30/18

Date Received: 8/15/18

Approved by: anp

Authorized by:

Thanh B Phan Lab Manager, Portland

									La	b Mana	ager, Portland	
	scription: Molalla WWTP - WWTP Number: 61342 Sample (Comment:									Date: 8/15/18 d By: Jaimee	10:05 am
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyze	d Analys	st Batch	Comment
NA	TOTAL NITROGEN	17.04			mg/L	1.0	<sum></sum>	а	8/29/18	LRS	TN_180829	
7664-41-7	AMMONIA-N	14.1	0.050	0.0012	mg/L	5.0	350.1	а	8/21/18	LRS	350.1_180821	
E-14506	ALKALINITY	111	4.0		mg CaCO3/L	4.0	SM2320 B	а	8/16/18	BJ	ALK_180816A	
E-10128	TOTAL NITRATE/NITRITE	0.44	0.020	0.0026	mg/L	2.0	SM4500-NO3 F	а	8/24/18	LRS	NO3NO2_180824	
E-10264	TOTAL KJELDAHL NITROGEN	16.6	2	0.0047	mg/L	10.0	351.2/351.2	а	8/28/18	LRS	351.2_180828	
7723-14-0	TOTAL PHOSPHORUS	0.125	0.010	0.0026	mg/L	1.0	SM4500-P F/SM4500-P B(5)	а	8/28/18	LRS	TPHOS_180828	