NPDES Discharge Monitoring Report - Oregon Department of Environmental Quality (p. 1 of 2)

Facility Name	City of Molalla WWTP	**Phone #**	(503) 793-0507	**Month/Year**	04/2022
DEQ Permit #	101514	**DEQ File #**	57613	**EPA Reference #**	
Plant Type	Pre aerated lagoons with filtration	**County**	Clackamas	**Population Served**	9960

WS005

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure 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 violations.

Legally Authorized Signature

Seth Kelly

Date — Name

Operator Certification

Collection System Class	2	**Principal Operator**	Adam Shultz	**Cert. #/Grade**	12190/II
Treatment System Class	3	**Principal Operator**	Seth Kelly	**Cert. #/Grade**	14110/III

Su, M, T, W, Th, F, Sa	Day of Month	INFLUENT							EFFLUENT																			RECEIVING STREAM						DAILY LOG	Day of Month
					BOD composite			TSS composite					BOD			TSS			NUTRIENTS						DISINFECTION Chlorine			COLIFORM MPN		MPN	MOLALLA RIVER							
		Temperature	pH	Flow	Concentration	Loading		Concentration	Loading	Temperature	pH	Flow	DO	Concentration	% Removal	Loading	Concentration	% Removal	Loading	Total Kjeldahl Nitrogen	Ammonia Nitrogen	NO2 + NO3 Nitrogen-N	Alkalinity	Total Phosphorous	OIL & GREASE	Amount Used	Total Residual	Dechlorination (DMS)	E. Coli		Total	Dilution	Stream Flow	Temperature	River Alkalinity			
		°C	SU	MGD	mg/L	lbs		mg/L	lbs	°C	SU	MGD	mg/L	mg/L		lbs	mg/L		lbs	mg/L	mg/L	mg/L		mg/L		lbs	mg/L	mg/L	CFU/100 mL				CFS	°C				
Su	1		6.9	1.544																												0	2560	10.4				1
M	2	14.5	7	1.399																												0	2270	11.5				2
T	3	14.3	6.9	1.239	119	1230		112	1157																							0	2360	8.7				3
W	4	14.5	7	1.164	112	1087		138	1340																							0	2130	9.7				4
Th	5	14.3	6.8	1.599																												0	2230	8.7				5
F	6	14.2	6.7	2.094																												0	4510	8.5				6
Sa	7		6.7	2.496																												0	6530	6.9				7
Su	8		6.7	2.304																												0	5700	7.4				8
M	9	14	6.6	2.049																												0	4060	7.8				9
T	10	14.3	6.6	1.753	105	1535		120	1754																							0	3080	8.7				10
W	11	14.6	6.2	1.518	88	1114		80	1013																							0	2470	9.3				11
Th	12	14.5	6.2	1.430																												0	2130	8.3				12
F	13	14.7	6.6	1.403																												0	2230	8.3				13
Sa	14		6.3	2.086																												0	3550	9.2				14
Su	15		6.6	1.719																												0	3470	10.2				15
M	16	14.9	6.9	1.453																												0	2620	9.7				16
T	17	14.9	6.5	1.307						17.9	7.4	1.108	9.96														20	0.62	0.00				86	2080	9.9			Started Approved Out of Season River Discharge	17
W	18	14.9	6.6	1.362	98	1113		107	1215	18.1	7.4	2.128	9.93	17	83	302	2	98	35								30	0.75	0.00				78	1870	9.6				18
Th	19	15.0	6.5	1.420	105	1243		111	1315	17.9	7.4	1.995	9.88	9	91	150	1	99	17								39	0.65	0.00	<1			75	1800	7.6				19
F	20	14.8	6.6	1.494						17.7	7.3	1.943	9.70									11.1					34	0.43	0.00				70	1650	8.5				20
Sa	21		6.6	1.296						18.0	7.4	1.952	9.40														22	0.38	0.00				65	1470	10.7				21
Su	22		6.5	1.220						18.5	7.3	1.965	9.13														15	0.32	0.00				60	1320	11.1				22
M	23	15.6	6.6	1.130						18.9	7.2	1.899	8.75														25	0.42	0.00	<1			57	1200	11.6				23
T	24	15.9	6.6	1.078						19.5	7.1	2.183	10.04														29	0.41	0.00				46	1110	11.6				24
W	25	15.8	6.8	1.025	146	1248		123	1051	20.1	7.2	2.397	9.60	13	91	260	2	98	40								30	0.33	0.00				45	1050	12.3				25
Th	26	16.4	7.3	1.015	145	1227		134	1134	20.5	7.0	2.391	8.39				2	99	40								48	0.45	0.00				49	996	11.8			All Eff BOD bottles below 1 mg/l DO. Believe high tempatures created higher than expected BOD. Adjusted test dilutions.	26
F	27	15.9	7.1	0.986						20.6	6.7	2.461	9.29														42	0.45	0.00				44	988	11.4				27
Sa	28		7.1	1.036						20.6	6.9	2.439	9.11														27	0.25	0.00				43	955	10.9				28
Su	29		7.1	1.283						19.8	6.7	2.466	9.17														38	0.42	0.00				64	1410	9.4				
M	30		7.1	1.139						19.5	7.1	2.479	9.04														49	0.51	0.00				73	1600	9.7				
T	31	16.3	7.0	1.039	135	1170		147	1274	19.8	7.0	2.506	8.45	12	91	251	2	99	42								43	0.47	0.00	<1			72	1480	11.8				
Total				45.080		10968			11254			32.312				962			174								491											
Daily Min		14.0	6.2	0.986	88	1087		80	1013	17.7	6.7	1.108	8.39	9	83	150	1	98	17		11.1						15	0.25	0.00	<1			47	955	6.9				
Daily Max		16.4	7.3	2.496	146	1535		147	1754	20.6	7.4	2.506	10.04	17	91	302	2	99	42		11.1						49	0.75	0.00	<1			269	6530	12.3				
Wkly Avg											7.4			13		260	2		40													0	6530	12.3				
Mo Avg		15.0	6.7	1.454	117	1219		119	1250	19.2	7.1	2.154	9.32	13	89	241	2	98	35		11.1						33	0.46	0.00	<1			104	2351	9.7				
Daily Limits											6.0-9.0					800			480		25.9							0.18	406									
Wkly Limits										18° C				37		600	20		300														>350					
Mo Limits														25	>85%	400	15	>85%	240		16.7							0.07	126									

NPDES Discharge Monitoring Report - Oregon Department of Environmental Quality (p. 1 of 2)

Facility Name	City of Molalla WWTP	**Phone #**	(503) 793-5283	**Month/Year**	
DEQ Permit #	101514	**DEQ File #**	57613	**EPA Reference #**	
Plant Type	Pre aerated lagoons with filtration	**County**	Clackamas	**Population Served**	9960

WS005

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure 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 violations.

Legally Authorized Signature

Date

Seth Kelly

Name

Operator Certification

Collection System Class	2	**Principal Operator**	Adam Shultz	**Cert. #/Grade**	12190/II
Treatment System Class	3	**Principal Operator**	Seth Kelly	**Cert. #/Grade**	14110/III

Su, M, T, W, Th, F, Sa	Day of Month	INFLUENT: Temperature	INFLUENT: pH	INFLUENT: Flow	INFLUENT: BOD composite Concentration	INFLUENT: BOD composite Loading	INFLUENT: TSS composite Concentration	INFLUENT: TSS composite Loading	EFFLUENT: REUSE FOR IRRIGATION: Temperature	pH	Flow	DO	BOD: Concentration	BOD: % Removal	BOD: Loading	TSS: Concentration	TSS: % Removal	TSS: Loading	NUTRIENTS: Total Kjedahl Nitrogen	Total Phosphorus	Ammonia Nitrogen	ALKALINITY	NO2 + NO3 Nitrogen-N	DISINFECTION Chlorine: Amount Used	Total Residual	Turbidity	COLIFORM: E. Coli	COLIFORM: MPN	COLIFORM: MF Total	RECEIVING STREAM: Dilution	Stream Flow	Temperature	DAILY LOG	Day of Month
		°C	SU	MGD	mg/L	lbs	mg/L	lbs	°C	SU	MGD	mg/L	mg/L		lbs	mg/L		lbs	mg/L	mg/l	mg/L		mg/L	lbs	mg/L	NTU	CFU/100 mL				CFS	°C		
Su	1		6.9	1.544																													1
M	2	14.5	7	1.399																				0	0.00								Plant Off	2
T	3	14.3	6.9	1.239	119	1230	112	1157																0	0.00								Plant Off	3
W	4	14.5	7	1.164	112	1087	138	1340																0	0.00								Plant Off	4
Th	5	14.3	6.8	1.599																				0	0.00								Plant Off	5
F	6	14.2	6.7	2.094																				0	0.00								Plant Off	6
Sa	7		6.7	2.496																				0	0.00								Plant Off	7
Su	8		6.7	2.304																				0	0.00								Plant Off	8
M	9	14	6.6	2.049																				0	0.00								Plant Off	9
T	10	14.3	6.6	1.753	105	1535	120	1754																0	0.00								Plant Off	10
W	11	14.6	6.2	1.518	88	1114	80	1013																										11
Th	12	14.5	6.2	1.430																				0	0.00								Plant Off	12
F	13	14.7	6.6	1.403																														13
Sa	14		6.3	2.086																														14
Su	15		6.6	1.719																														15
M	16	14.9	6.9	1.453																														16
T	17	14.9																															Started Approved Out of Season Discharge	17
W	18																																and began filling out "River Eff" spreadsheet	18
Th	19																																	19
F	20																																	20
Sa	21																																	21
Su	22																																	22
M	23																																	23
T	24																																	24
W	25																																	25
Th	26																																	26
F	27																																	27
Sa	28																																	28
Su	29																																	29
M	30																																	30
T	31																																	31
Total				27.250		4966		5264																0										
Daily Min		14.0	6.2	1.164	88	1087	80	1013																0	0.00				<1				
Daily Max		14.9	7.0	2.496	119	1535	138	1754																0	0.00				<1				
Wkly Avg																																		
Mo Avg		14.5		1.703	106	1242	113	1316																0	0.00				<1				
Daily Limits																										<2.0			23				
Wkly Limits																													2				
Mo Limits																																		

NPDES Discharge Monitoring Report - Oregon Department of Environmental Quality (p. 2 of 2)

WS005

Facility Name City of Molalla WWTP | **Month/Year** | **Laboratory Name:** Edge Analytical
DEQ Permit # 101514 | **DEQ File #** 57613 | **ORELAP Lab ID#:** 3254/3255

Explanation of permit limit exceedances (include description, cause, and steps taken or plans to reduce, eliminate, or prevent recurrence of noncompliance; attach additional pages if needed):

Mail original to:
Oregon DEQ NWR
700 NE Multnomah St. Suite 600
Portland, OR 97232

Notes: *Indicate sample type for TSS, BOD, CBOD, and nutrients and test method for coliform.
*If a sewer system overflow occurs at more than one location, attach an additional report.
*If groundwater monitoring is required, report data in accordance with permit conditions.
*For additional information, refer to: *Oregon DEQ Completing DMRs*

		AERATION BASIN						LAGOON OR POLISHING POND						SOLIDS						AEROBIC DIGESTER CELL #1				AEROBIC DIGESTER CELL #2				SEWER SYSTEM OVERFLOW outfall:		SEWER SYSTEM BYPASS outfall:		RECLAIMED WATER outfall:					
								Primary Cell			Secondary Cell																										
Su, M, T, W, Th, F, Sa	Day of Month	MCRT	Sludge Volume Index	MLSS	pH	Temp	DO	Depth	DO		Depth	DO		TS to Digester	Transported to other WWTF	Quantity Land Applied	% Volatile Solids Reduction	Alkaline Product (insert Type)	Septage Received	% Total Solids	Temperature	pH		VA/Alkalinity	Temperature	pH		Flow	Duration	Flow	Duration	Volume Land Applied	Acres Irrigated	Quantity Irrigated	Rainfall (inches)	Operator(s) Time Onsite (hrs/day)	Day of Month
		Days			SU	°C	mg/L	Feet	mg/L		Feet	mg/L				gal		lbs/gal	gal			SU					gal	hrs	gal	hrs	MGD	acres	in/acre			
Su	1																																		0.09	6	1
M	2					15.0	6.62	10.6	8.40		4.6	13.51																							0.07	9	2
T	3					15.4	5.90	10.6	10.84		5.3	12.09																							0.01	9	3
W	4					15.1	7.44	10.6	7.12		5.6	12.10																							0.22	9	4
Th	5					15.4	6.69	10.5	8.14		6.1	12.66																							0.74	9	5
F	6					14.9	7.08	10.7	4.45		6.5	8.24																							0.40	9	6
Sa	7																																		0.22	6	7
Su	8																																		0.24	6	8
M	9					14.1	7.29	11.7	3.54		8.1	6.98																							0.15	9	9
T	10					14.5	7.11	11.7	4.36		8.7	7.23																							0.00	9	10
W	11					15.1	7.03	11.6	3.63		9.2	7.01																							0.00	9	11
Th	12					14.9	7.36	11.8	4.37		9.4	5.00																							0.22	9	12
F	13					14.6	7.16	11.7	4.02		10.0	3.43																							0.61	9	13
Sa	14																																		0.05	6	14
Su	15																																		0.00	6	15
M	16					15.5	6.84	11.5	3.92		11.7	2.71																							0.00	9	16
T	17					16.0	6.26	11.5	6.09		12.2	2.49																							0.19	9	17
W	18					14.8	6.23	11.4	6.01		12.1	2.20																							0.09	9	18
Th	19					15.6	6.77	11.3	4.76		12.1	2.13																							0.40	9	19
F	20					15.8	8.07	11.2	3.82		12.2	2.51																							0.00	9	20
Sa	21																																		0.00	6	21
Su	22																																		0.00	6	22
M	23					17.0	5.48	11.2	4.04		11.9	4.48																							0.00	9	23
T	24					16.6	6.97	11.1	3.24		11.9	5.53																							0.01	9	24
W	25					17.5	6.26	11.0	3.92		11.7	7.52																							0.00	9	25
Th	26					17.4	5.41	11.0	1.59		11.4	15.27																							0.11	9	26
F	27					17.2	6.75	11.0	3.18		11.2	12.34																							0.00	8	27
Sa	28																																		0.41	6	28
Su	29																																		0.03	6	29
M	30																																		0.01	6	30
T	31					17.7	6.18	10.8	7.73		10.4	13.34																							0.00	9	31
Total																																			4.27	248	
Daily Min						14.1	5.41	10.5	1.59		4.6	2.13																							0.00	6	
Daily Max						17.7	8.07	11.8	10.84		12.2	15.27																									
Wkly Avg Max																																					
Monthly Avg						15.7	6.71	11.2	5.10		9.6	7.56																							0.14	8.0	

During this reporting period did all monitoring data and sampling frequencies meet permit reqiurements and limits? If "no," explain. [x] Yes [ ] No

During this reporting period were there unanticipated bypasses or upsets which exceeded any effluent limits? If "yes," explain. [ ] Yes [x] No

During this reporting period were there any sewer system overflows? If "yes," explain. [ ] Yes [x] No

Energy	Used	Cost	Comments
Power KWH			
Fuel Gas			
Oil			

Additional Notes (reference attachments here)

REUSE: City of Molalla

WS005

Day	Header FM MGD	Plant total Inches/acre	Nursery MGD	Inches/acre	North Coleman MGD	Inches/acre	South Coleman MGD	inches/acre	Jorgensen MGD	Inches/acre	Cemetary MGD	Inches/acre	WWTP Irrigation pump #1 MGD	Total Irr. MGD
6/1/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/2/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/3/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/4/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/5/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/6/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/7/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/8/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/9/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/10/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/11/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/12/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/13/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/14/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/15/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/16/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/17/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/18/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/19/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/20/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/21/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/22/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/23/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/24/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/25/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/26/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/27/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/28/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/29/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
6/30/2021		0.0		0.0		0.0		0.0		0.0		0.0		0.000
		0.0				0.0		0.0				0.0		0.000
TOTAL	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000
MAX	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000
MIN	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000
AVG	#DIV/0!	0.0	#DIV/0!	0.0	#DIV/0!	0.0	#DIV/0!	0.0	#DIV/0!	0.0	#DIV/0!	0.0	#DIV/0!	0.000
PERMIT #	101514													
FILE #	57613													