

**Public Works Department** 117 N Molalla Avenue PO Box 248

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

Fax: (503) 829-3676

#### June 28, 2018

Steve Mrazik, Water Quality Manager Oregon DEQ 2020 SW 4th Avenue, Suite 400 Portland, OR 97201-4987

**RE: 2018 TMDL Report for City of Molalla** 

Dear Mr. Mrazik,

Attached is the 2018 TMDL Temperature and Bacteria Report Matrix for the City of Molalla. Included in the status column are several updates of implementations or changes the City has made since adoption of the updated plan in April 2018.

Please let me know if you need any additional information.

Sincerely,

Gerald Fisher, Public Works Director

Cc:

**DEQ File** 

Dan Huff, City Manager

Andy Peters, Operations Supervisor

	POLLUTANT: Tempe	erature		City of Molalla: TMDL Implementation Tracking Matrix					
SOURCE What sources of this pollutant are under your jurisdiction?	STRATEGY What is being done, or what will you do, to reduce and/or control pollution from this source?	HOW Specifically, how will this be done?	FISCAL ANALYSIS What is the expected resource need? Are there existing resources budgeted? If not, where will the resources come from?	MEASURE How will you quantitatively or qualitatively demonstrate successful implementation or completion of this strategy?	TIMELINE When do you expect it to be completed?	MILESTONE What intermediate goals do you expect to achieve, and by when, to know progress is being made?	ADAPTIVE MANAGEMENT APPLIED Indicate how strategies have changed with annual review reports.	STATUS Include summary and date.	
Lack of shading in riparian areas	Protect and enhance existing vegetation in riparian areas.	Enforce existing Municipal Code17-2.4.030 for new development: 50 ft. riparian and wetland setback and protection of native vegetation.	Code enforcement staffing; 0.20 FTE is currently funded.	Track enforcement actions and violations as well as development plan review.  Record square footage of riparian area protected with all development.	On-going; code adopted	Retain all existing riparian vegetation on developments planned through 2020, as required by Municipal Code 17-2.4.030. Report areas protected in annual TMDL review report.	No changes made to code or application of code.	Protection of riparian areas adhered to with development of Bear Creek Subdivision and Twin Meadows Subdivision	
Lack of shading in riparian areas	Protect and enhance existing vegetation in riparian areas.	Implement Phase 1 of Bear Creek Greenway Project. Approximately 7,500 LF of 8-10' wide pathway through private industrial and residential lands.	\$480,000	Completion of trail from Molalla Forest Rd. to Molalla city limits.	5-15 years	Annual review of budget for possible implementation or private development. Report funding status in annual TMDL review report.	No changes made to code or application of code.	Included bicycled and pedestrian pathway along north side of Molalla Forest Road as part of draft TSP update. No development projects along corridor.	

Lack of shading in riparian areas	Protect and enhance existing vegetation in riparian areas.	Conduct public education on protection of riparian areas.	Staffing to conduct educational effort; 0.20 FTE currently funded.	Number of bill inserts and website postings.  Number of meetings.	On-going	Educational outreach once per year through 2020. Provide outreach details in annual TMDL review report.	No change.	Continued education of development community and property owners during pre-application meetings.
khading in	Protect and enhance	Tree protection as required by City Code 17- 3.4.030.	Staffing as required for plan review and enforcement.	Track enforcement actions and violations as well as number of existing trees retained with each development.	On-going	Maintain all existing trees, where possible, on new development as required by Municipal Code 17-3.4.030. Provide project list and tree protection details in annual TMDL review report.		Community Planner continued enforcement of development code on all projects.
	Partner with watershed groups	relationship with Clackamas SWCD and watershed	Staffing to conduct educational effort.	Number of meetings attended and projects completed in partnership with watershed	5 years	Attend at least one meeting annually through 2020. Provide list of meetings attended in annual TMDL review report.	No change.	No coordination since adoption of 5 year plan in April 2018.
Lack of shading in riparian areas		Partner on riparian restoration/enhancement projects.	Volunteer and staffing as required.	groups, number of site visits performed, times bill- inserts are included.	5 years	Contribute to at least one project by end of 2020. Report on funding status/availability in annual TMDL review report.	No change.	Initial investigation into possible riparian projects with Clackamas SWCD.

Lack of shading in riparian areas		education/outreach	Volunteer and staffing as required.		5 years	Participate in at least one public outreach with partner by end of 2020. Provide outreach details in annual TMDL review report.	No change.	No coordinate since adoption of 5 year plan in April 2018.
Lack of shading in riparian areas	Tree planting	landscaping by way of	In City budget for Code enforcement staffing.	Number of trees planted and Area landscaped.	On-going	Establish list of projects that provided new trees and landscape areas through 2020 and include in annual TMDL review.	made to code or	Community Planner continued enforcement of development code on all projects.
Stormwater	City Council overview and acknowledgement	Review TMDL Plan, annual reports and five year review with City Council.	None	Track number of times TMDL reports are covered in City Council meeting minutes.	On-going	City Council approval of TMDL Plan and review reports.	No change.	Reviewed draft TMDL as part of 03/14/18 meeting.
Reduced stream flow in Molalla River and tributaries	Reduce municipal water diversion.	Water conservation efforts driven primarily by public education.	Staffing to conduct educational effort; 0.15 FTE currently funded.	Number of bill inserts mailed.  Number public service announcements.  Monitor total water use.	On-going	Educational outreach once a year through 2020.  Water use reported annually and provided in annual TMDL review report.	No change.	2017 Water Quality Report completed and posted to the website Spring 2018. (See attached)

Wastewater treatment plant discharge	Maintain low effluent temperatures	Maintain compliance with NPDES permit requirements.	Wastewater treatment staff; funded positions.	Molalla River temperature monitoring.	Continuous temperature measurement; monthly permit reporting.	Report instream temperature monitoring with annual TMDL report review.	No change.	See attached DMR's. Monitoring stopped in May with transition to land
								application.

POLLUTANT: E	Bacteria, Mercury, and	Legacy Pesticides			City	of Molalla: TMDL Imple	mentation Trackin	g Matrix
sources of this pollutant are under your jurisdiction?	STRATEGY What is being done, or what will you do, to reduce and/or control pollution from this source?	HOW Specifically, how will this be done?	FISCAL ANALYSIS What is the expected resource need? Are there existing resources budgeted? If not, where will the resources come from?	MEASURE How will you quantitatively or qualitatively demonstrate successful implementation or completion of this strategy?	TIMELINE When do you expect it to be completed?	MILESTONE What intermediate goals do you expect to achieve, and by when, to know progress is being made?	ADAPTIVE MANAGEMENT APPLIED Indicate how strategies have changed with annual reports.	STATUS Include summary and date.
Stormwater	Promote Low Impact Development and on-site stormwater treatment.	Encourage green street standards – at least half street improvements with new development.  Meet predevelopment hydrology requirements per Municipal Code 17-3.6 and Public Works Design Standards Section 3.2.	Currently in Public Works budget.	Percent of green street standards for each project.  For each project, stormwater quantity calculations to meet predevelopment hydrology and water quality requirements per PW Standards.	On-going	All new development plans incorporate green street standards where practical and include predevelopment hydrology. Report applicable improvements in annual TMDL review report.	No change.	No new development applications during this reporting period.

Stormwater	Promote Low Impact Development and on-site stormwater treatment.	Incorporate stormwater treatment with transportation projects: e.g. Fenton Ave.	Included in city budget according to capital improvement plan.	Number of stormwater treatment features installed.	2020	Fenton Ave. Project Completion in 2018.	No change.	Two water quality swales incorporated into design.
Stormwater	Promote Low Impact Development and on-site stormwater treatment.	Current Public Works	Currently in City planning budget for plan review	Track number of projects that incorporate drainage swales.	On-going	Add drainage swales installed to GIS Stormwater map by end of 2020. Report number of water quality facilities constructed in annual TMDL review report.	No change.	Two water quality swales incorporated into Fenton design. GIS work scheduled.
Stormwater	Reduce pet waste in stormwater runoff.		Currently in	Number of citizen complaints. Track refill need at bag holders.	On-going	Report complaint number and bag use in annual TMDL review report.	No change.	Purchased 3,026 Mutt- Mitts
Stormwater	Educate developers and the public about stormwater and hydrology in the City of Molalla.	Make Stormwater Master Plan and Public Works Design Standards available to public via City website.	None	Number of private development that meet stormwater standards.	On-going	All Private development projects meet stormwater detention and water quality requirements. Report number of water quality facilities constructed in annual TMDL review report.	No change.	No new development applications during this reporting period.

Stormwater	Prevent erosion from construction sites.	Conduct grading inspections per Municipal Code 21.70 to ensure protection against erosion.	•	Percent of sites that comply voluntarily.	Ongoing	Report number of permitted excavation projects and compliance with Municipal Code 21.70 in annual TMDL review report.	No change.	No new development applications during this reporting period.
Stormwater	Prevent erosion from construction sites.	Cooperate with DEQ to enforce erosion control through 1200C permits as required by Municipal Code - Chapter 17 and Public Works Design	Currently in Public	Keep track of 1200C permits within City boundaries.	On-going	Report number of 1200C permits in annual TMDL review report.	No change.	No new development applications during this reporting period. 3 permits still active.
Stormwater	Reduce runoff and sediment load from impervious areas: roads, vacant lots.	Maintain weekly street sweeping schedule.	Currently in Public Works budget.	Using street sweeping log, track frequency of areas cleaned.	On-going	Report volume estimate of street sweepings in annual TMDL review report.	No change.	Approximately 50 CY since plan approval.
Stormwater	Maintenance Program for stormwater collection system.	Maintain storm system components including; catch basins, manholes and pipes.	Currently in Public Works budget. System Development Charges in place for storm drainage system.	Track maintenance projects that improve stormwater system.  Construct Decant Facility as funding allows.	On-going	Indicate number and type of maintenance projects in annual TMDL review report.  Provide funding status for Decant facility in annual	No change.	Decant Facility budgeted for FY 18-19.
Stormwater	City Council overview and acknowledgement.	Review TMDL Plan, annual reports and five year review with City Council.	None	Track number of times TMDL reports are covered in City Council meeting minutes.	On-going	Staff review of approved TMDL Plans with City Council.	No change.	Reviewed draft TMDL as part of 03/14/18 meeting.

Lack of riparian vegetation; eroding streambanks	Restore riparian vegetation and streambanks.	Implement Phase 1 of Bear Creek Greenway Project. Approximately 7,500 LF of 8-10' wide pathway through private industrial and residential lands.	\$480,000	Completion of trail from Molalla Forest Rd. to Molalla city limits.	5-15 years	Annual review of budget for possible implementation or private development. Report funding status in annual TMDL review report.	No change.	Included bicycled and pedestrian pathway along north side of Molalla Forest Road as part of draft TSP update.
Lack of riparian vegetation; eroding streambanks	Restore riparian vegetation and streambanks.	Partner with watershed groups on riparian restoration/ enhancement projects.	Staffing to conduct effort; 0.10 FTE currently funded; volunteer contributions.	Number of projects/efforts completed in partnership with watershed groups.	5 years	Contribute to at least one project by end of 2020. Report on funding status/availability in annual TMDL review report.	No change.	Initial investigation into possible riparian projects with Clackamas SWCD.
Lack of riparian vegetation; eroding streambanks	Protect and enhance existing vegetation in riparian areas.	Enforce existing Municipal Code 17- 2.4.030 for new development: 50 ft. riparian and wetland setback and protection of native vegetation	Code enforcement staffing; 0.25 FTE is currently funded.	Track enforcement actions and violations as well as development plan review.  Record square footage of riparian area protected with all development.	On-going; code adopted	Retain all existing riparian vegetation on developments planned through 2020, as required by Municipal Code 17-2.4.030. Report areas protected in annual TMDL review report.	No change.	No enforcement actions or new development during this period.

Cross connections of storm and sanitary sewers	Increase effectiveness and efficiency of wastewater treatment.	Eliminate illicit discharge and infiltration issues in downtown core.	To be determined.	Average daily flow to treatment plant before and after cross connect issues addressed.	5 years	Complete Wastewater Facilities Plan in 2018.  Report completion of plan and cross connection projects in annual TMDL review report. Include annual review of budget for cross connection projects.	No change.	Draft master plan hearing scheduled for August 1st. Smoke testing and 105 manhole repairs to SS system. Removed 4 SS to storm cross connections.
Cross connections of storm and sanitary sewers	Decommission Septic Systems per Municipal Code 13.08.300 – Upon Availability of Public Sewer – Abandonment of Private Systems.	Administer 30 day notice to connect to city sewer where public sewer is made available.	Planning staff, full time.	Number of new connections made annually as a result of annexations, violations discovered.	On-going	Connect all residential, commercial, industrial properties within city limits to city sewer and report in annual TMDL review report.	No change.	None during reporting period.
Illegal Discharge	Porta potties at parks in summer with no facilities and public events.	Porta potties provided for public use in parks and areas with no public facilities.	Currently in City budget for City funded events.	Track number of porta potties used for events.	On-going	Report number of City funded events requiring porta potties in annual TMDL review report.	No change.	None during reporting period.

Illegal Discharge	Code enforcement of Municipal Code 13.08.840 – Discharge Into Storm Drains.	Provide code enforcement form to citizens.	Currently in City budget for Operations Supervisor.	Track number of complaints.	On-going	Code enforcement form has been made available on the City of Molalla website. Report number of complaints received and corrective actions taken in annual TMDL review report.	No change.	None during reporting period.	
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# City of Molalla

Annual Water Quality Report

for Calendar Year 2017

We are pleased to report that our water is safe and continues to meet or exceed Federal and State requirements. The U.S. Environmental Protection Agency (EPA) requires all community water systems to provide customers with a water quality report each year. Molalla's water comes from the *Molalla River* several miles upstream of the city and is treated at the Molalla Municipal Water Treatment Plant. The Molalla River watershed encompasses a total of about 203 square miles and provides us with an extremely clean source of surface water. A source water assessment is available for customer's review.

**Drinking water,** including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (1-800-426-4791).

#### **Important Message From the EPA:**

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).





We have been testing the quality of your water for many years. Currently there are about 100 water quality standards for potential contaminants in drinking water supplies in Oregon. Of these, a few contaminants have been detected in our drinking water at levels well below maximum acceptable levels set by the State and EPA as indicated in the following table:

		TE	ST RESULT	'S		
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Microbiological Contam	inants					
Turbidity	N	0.690 Highest single measurement	NTU	N/A	TT=NTU's 95%<0.3 100%<1.0	Soil Runoff
Unregulated VOC's						
Chloroform	N	10.2	ppb	N/A	N/A	Byproduct of the Treatment Process
Bromodichloromethane	N	1.1	ppb	N/A	N/A	Soil Runoff
<b>Inorganic Contaminants</b>						
Nitrate	N	0.120	ppm	10	10	Fertilizer, Septic Tanks, Erosion
<b>Disinfection Byproducts</b>						
Halo Acetic Acids (HAA5)	N	18.8	ppb	0	60	Byproducts of Disinfection Process
TTHM (Total Trihalomethanes)	N	17.9	ppb	0	80	Byproducts of Disinfection Process
Chlorine						
Sodium Hypochlorite	N	1.60 (Max Level detected)	ppm	MRDLG = 4.0	MRDL = 4.0	Used for Chlorination / Disinfection
<b>Lead and Copper Result</b>	S					
Substance	Units	Action Level	90 <sup>th</sup> Percentile	Homes Exceeding Action Level	Complies	Likely Source of Contaminations
Lead	ppb	15	3.0	0	Y	Corrosion of Household Plumbing
Copper	ppm	1.3	0.0	0	Y	Corrosion of Household Plumbing

#### **Table Definitions**

(What It All Means...)

MCLG: (Maximum Contaminants Level Goal)
The level of contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.

MCL: (Maximum Contaminants Level)

The highest level of contaminants that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

**AL**: (*Action Level*) The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

TT: (*Treatment Technique*): A required process intended to reduce the level of a contaminant in drinking water.

**Turbidity**: A measure of the cloudiness of the water and is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants such as chlorine.

MRDL: (Maximum Residual Disinfectant Level)
The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

(MRDLG): (Maximum Residual Disinfectant Level Goal) The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contamination.

ppb: Parts per Billion | ppm: Parts per Million

#### **Pollution Prevention**

## What Can You Do to Help Improve Molalla's Waterways?

**Lawn and Garden Care** – Skip the weed and feed. Chemicals are harmful to children and pets. Rain can wash chemicals off your lawn and into storm drains and streams.

**Vehicle/Car** – Maintain your vehicles to reduce oil and fluid leaks.

**Pressure Washing** – Be stream friendly when cleaning your home, deck, sidewalk and driveway. Pollutants from cleaning activities can flow into storm drains and ditches directly into our rivers and streams.

Pick Up After Your Pets - Proper disposal of pet waste helps to minimize bacteria in our City's streams. Pet waste can contain pathogens such as Giardia, E. coli, Salmonella, and Campylobacter. These can cause illness in humans, especially children and the elder. Always pick up after your pet when on walks, avoid children's play areas, and remember to pick up in your own yard, too.



NTU = Nephelometric Turbidity Unit

**Opportunities for Public Participation:** Residents are always welcome to attend city council meetings, which are normally the 2nd and 4th Wednesday's of each month. For more info, please visit our website.

### Lead & Drinking Water

Testing for lead and copper was performed in September 2015. Tests at the 90<sup>th</sup> percentile were 3.0 ppb lead and 0.0 ppm copper. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of Molalla is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <a href="https://www.epa.gov/safewater/lead">www.epa.gov/safewater/lead</a>.

Samples are routinely collected from numerous points in the distribution system and then tested. State certified operators collect the samples, which are then tested at state certified laboratories. We constantly monitor for various constituents in the water supply to meet all regulatory requirements.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

#### What Can You Do to Reduce Your Exposure to Lead from Drinking Water?

- \* Run the cold-water faucet to flush out lead. If water has not been used for several hours, run the cold water for 30 seconds to two minutes, or until it becomes cold or reaches a steady temperature, before using it for drinking or cooking.
- \*Use only cold water for cooking, drinking and preparing formula. Do not use water from the hot tap to cook, drink or make baby formula. Lead dissolves more easily into hot water.
- \*Do not boil water to remove lead. Boiling water will not reduce lead levels.
- \*Consider using a filter. Confirm the filter is approved to reduce lead. Always maintain and replace a filter device in accordance with the manufacturer's instructions to protect water quality.
- \*Consider buying low-lead fixtures. As of January 4, 2014, all pipes, fittings, and fixtures are required to contain less than 0.25% lead. When buying new fixtures, consumers should seek out those with the lowest lead content. Visit <a href="www.nsf.org">www.nsf.org</a> to learn more about lead content in plumbing fixtures.

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

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

Operator Certification

Cert. #/Grade 12190/II

Adam Shultz

Principal Operator

Collection System Class 2

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

2/6/2018 Jason Clifford

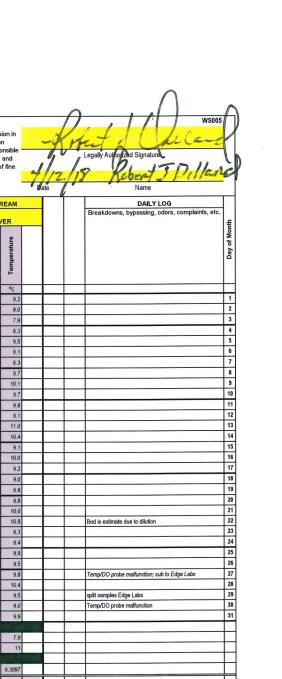
Treatment System Class 3		Clifford	Cert. #/Grade 13017/IV				Date Name
				ECCLHENT		RECEIVING STREAM	AM DAILY LOG
	BOD TSS	Name and Address of the Owner, where	BOD	TSS EFFLUENT NUTRII	ENTS DISINFECTION	COLIFORM	Breakdowns, bypassing, odors, complaints, etc.
L' S CO	mposite composite		505			PN MF MOLALLA RIVER	
Su, M, T, W, Th, F, Day of Month Temperature pH Flow	og ation	ture	ation ation ation	wal ig dahi en nia en lo3	Information Sidual Sidu	on Flow	
Day of PH Flow	Loading	pH Flow	% Removal Loading Concentration	% Removal Loading Total Kjeldah Nitrogen Nitrogen NOZ + NO3	Totalin Totalin Spho	Tota Tota mper	
Su Su		1 2	00 % 00	% TOT A N N	Pho Am Am Dec	T S I	
°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 mg/L lbs mg/L mg/L	CFU/100 mL CFS °C	
M 1 13.2 6.5 2.201		6.0 6.4 2.085 17.46	THE RESERVE THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.		42 0.55 0.00	0 36.5 56 2350 7.5	
T 2 13.1 6.5 1.937 119	9 1927 147 237			96 99	66 0.77 0.00	45 1890 7.5	
W 3 13.0 6.5 1.817		5.4 7.1 2.093 17.42			40 0.48 0.00	38 1610 8.9	
Th 4 13.6 6.5 1.712 115	1703.4 195 278	5.4 7.3 2.056 17.27	7 4 96 73 5	97 92	50 0.74 0.00	34 1440 8.2	
F 5 13.2 6.5 1.886		5.8 7.5 2.026 17.04			47 0.51 0.00	33   1350   8.2	
Sa 6 6.7 1.998		6.2 7.7 2.017 16.72	2		37 0.48 0.00	32   1300   8.4	
Su 7 6.5 1.958		6.2 7.7 2.014 12.50			42 0.50 0.00	40   1210   8.5	
M 8 13.1 6.6 1.763		6.4 7.5 1.875 12.59			49 0.69 0.00	0 16.0 37 1130 8.8	
T 9 11.7 6.5 3.395 See	log	6.6 7.4 1.774 12.58	See log		37 1.33 0.00	47 1420 9.4	BOD Blank Fail
W 10 12.4 6.5 2.515		6.8 7.4 1.786 12.66	5		49 0.73 0.00	59 1800 9.2	
Th 11 12.4 6.4 3.721 66	2042 67 206	7.5 7.5 1.866 12.65	9 86 139 6	90.998 93	44 1.13 0.00	76 2340 9.4	
F 12 12.4 6.6 2.794		7.9 7.6 2.024 12.76	3		46 0.46 0.00	137 4240 9.6	
Sa 13 6.6 2.431		8.2 7.6 2.029 12.68	3		32 0.46 0.00	98 3020 9.5	
Su 14 6.6 2.207		8.3 7.9 2.030 12.68	3		27 0.42 0.00	76 2320 9.2	
M 15 12.4 6.6 2.057		8.4 8.3 2.019 12.82	2		15 0.28 0.00	61 1900 9.5	
T 16 12.8 6.6 2.029 141	3 2498 244 412	8.6 8.5 2.013 12.82	2 6 96 106 5	98 89 7.26 7.71	54 0.154 19 0.36 0.00	0 29.5 55 1700 9.1	
W 17 12.9 6.3 2.425		8.5 8.6 2.017 12.85		8.47	31 0.66 0.00	48 1500 9.8	
Th 18 11.6 6.3 3.764 79	2493 74 233	The second secon		95 72	67 0.77 0.00	80 2490 9.6	
F 19 12.4 6.6 2.918		7.8 7.8 2.358 12.98			27 0.56 0.00	94 2960 9.3	
Sa 20 6.6 2.609		7.7 7.8 2.372 12.88	В		2 0.54 0.00	81 2510 8.6	
Su 21 6.5 2.454		7.5 7.8 2.372 12.92			37 0.56 0.00	70 2200 8.8	
M 22 12.5 6.6 2.182		7.5 7.8 2.373 17.02	2		60 0.28 0.00	0 12.0 53 2180 8.5	
T 23 12.0 6.5 2.869 92	2204 257 614			97 145	34 0.23 0.00	52 2110 9.3	
W 24 12.0 6.5 3.335		7.5 7.6 2.362 12.97			61 0.39 0.00	133 4170 9.6	
Th 25 12.0 6.6 2.754 93	2145 93 213			90 177	54 0.24 0.00	135 4220 9.7	
F 26 12.3 6.5 2.428		6.8 7.6 2.369 13.02			45 0.37 0.00	100 3140 8.7	
Sa 27 6.5 2.278		7.1 7.6 2.360 13.00			23 0.29 0.00	94 2940 8.8	
Su 28 6.5 2.220		7.8 7.5 2.362 12.92			64 0.40 0.00	105 3280 9.4	
M 29 12.7 6.5 2.458		7.9 7.5 2.370 13.08			84 0.33 0.00	0 1.0 94 2980 8.7	
T 30 12.1 6.5 2.578 98	2103 227 487			97 152	44 0.73 0.00	112 3550 9.8	
W 31 12.2 6.6 2.230		7.9 7.5 2.376 13.16			49 0.68 0.00	94 3000 9.2	
Total 75.923	17114 268		881	919	1324	NAME OF TAXABLE PARTY.	
Dally Min 11.6 6.3 1.712 66				90 72 7.26 8.47 7.71		0 1.0 32 1130 7.5	
Daily Max 13.6 6.7 3.764 14	8 2498 257 614	9 8.6 8.6 2.376 17.48	8 9 96 139 9	98 177 7.26 8.47 7.71	54 0.154 84 1.33 0.00	0 36.5 137 4240 9.8	
Wkly Avg				THE PERSON NAMED IN COLUMN	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		
Mo Avg 12.5 6.5 2.449 10	2 2139 163 335	5 <b>7 7.6 2.154 13.9</b> 5	5 6 94 110 6	96 115 7.26 8.5 7.71		0 19 73 2395 9.0	
Daily Limits		6.0-9.0	320	320 25.9	0.18	406	
Wkly Limits		18° C	15 240 15	240		>350	
Mo Limits			10 >85% 160 10	>85% 160 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 02/2018 WS005 DEQ Permit # 101514 DEQ File# 57613 EPA Reference # l 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 Plant Type Pre aerated lagoons with filtration County Clackamas Population Served 9960 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 Operator Certification knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting Collection System Class Principal Operator Adam Shultz Cert. #/Grade 12190/II false information, including the possibility of fine and imprisonment for knowing violations. 3/5/2018 Jason Clifford Treatment System Class Principal Operator Jason Clifford Cert. #/Grade 13017/IV Date Name INFLUENT **EFFLUENT** RECEIVING STREAM DAILY LOG BOD TSS BOD TSS NUTRIENTS DISINFECTION COLIFORM Breakdowns, bypassing, odors, complaints, etc. Th, F, of Month composite compositi Chlorine **MOLALLA RIVER** T, W, of Wo Day H 품 Total Res Z, Rei % SU MGD mg/L °C SU | MGD | mg/L | mg/L lbs | mg/L lbs mg/L mg/L mg/L mg/L mg/L lbs | mg/L CFU/100 mL CFS 12.6 6.5 2,108 1612 111 8.0 7.5 2.357 | 13.09 133 7 93 93 143 61 0.74 0.00 435 2480 8.9 12.8 6.5 2.099 8.6 7.5 2.355 13.16 90 0.72 0.00 430 2450 9.6 2 Sa 2.013 3 6.5 9.1 7.5 2.346 13.06 120 0.74 449 2550 9.4 3 6.5 1.977 9.4 7.5 2.349 13.02 45 0.68 0.00 403 | 2290 | 9.5 4 5 13.3 6.6 1.753 9.7 2.345 7.5 13.22 25 0.70 0.00 0.0 358 2030 9.5 5 13.1 6.7 1.620 178 2404 9.5 7.5 2.106 13.21 96 139 98 37 0.70 0.00 347 1770 10.2 6 W 13.1 6.7 1.531 9.5 7.9 1.976 13.00 50 0.70 0.00 324 1550 9.8 7 Th 13.7 6.7 1.481 1856 531 9.6 1.979 7.9 13.16 95 128 99 46 0.95 0.00 292 1400 9.9 8 13.4 6.8 1,397 9 9.6 7.9 1.939 13.22 41 0.95 0.00 275 1290 9.7 9 Sa 1.430 10 6.8 9.5 7.8 1.929 12.98 41 0.95 0.00 257 1200 10.2 10 Su 11 6.8 1.455 9.3 1.933 7.8 12.90 50 0.97 0.00 240 1120 8.8 11 13.2 6.7 1.320 12 9.0 7.8 1.917 12.78 30 1.03 0.00 0.0 1.0 229 1060 8.4 12 13.4 6.6 1.272 212 | 2247 302 8.2 7.8 1.869 13.32 86 97 132 5.77 6.43 58.8 0.337 51 0.85 0.00 214 967 7.9 13 14 13.2 6.7 1.455 8.2 7.6 1.701 13.64 9.71 96 0.94 0.00 232 953 8.1 Oil & Grease - 2.5ppm 14 15 13.4 6.6 1.313 192 2102 532 5820 8.7 7.6 1.768 13.16 97 94 99 22 0.98 0.00 219 937 8.8 15 16 13.5 6.7 1.333 8.6 7.6 1.798 13.16 44 1.00 202 877 8.1 16 17 6.7 2.266 8.4 7.7 1.802 | 13.24 16 0.94 0.00 213 930 7.5 17 6.6 2.432 Su 18 6.8 1.811 | 13.24 7.7 33 1.00 0.00 358 1570 8.5 18 М 6.6 2.276 19 6.8 7.7 1.796 13.73 34 0.73 0.00 0.0 1.0 315 1370 7.9 19 12.5 6.7 2.049 20 130 2215 132 2256 6.4 7.7 1.790 13.58 96 87 95 90 0.76 0.00 33 1100 6.5 20 12.1 6.6 2.387 6.2 7.8 1.805 16.90 11 1.01 0.00 26 1060 6.8 21 22 12.0 6.6 2.205 120 5.9 2.017 7.8 18.30 95 93 93 66 0.97 0.00 23 1000 7.2 22 12.1 6.6 1.945 F 23 5.8 7.8 2,148 18.50 35 1.01 0.00 21 928 6.3 23 Sa 6.7 2.034 24 5.9 7.8 2.162 18.28 60 0.98 0.00 21 917 6.1 24 Su 25 6.6 2.622 5.7 7.8 2.139 18.20 44 0.92 0.00 22 984 6.6 25 11.8 6.7 2.234 5.7 7.8 2.074 18.30 48 0.78 0.00 7.0 14.6 29 1300 6.3 26 27 12.0 6.7 1.991 118 6.2 7.8 2.038 17.80 See log 94 115 45 0.79 0.00 28 | 1190 6.8 BOD blank fail - Initial > Final 27 28 12.1 6.7 1.993 6.3 7.8 2.027 78 0.82 26 1120 28 29 30 31 51.991 Total 14325 56.276 760 925 1325 Daily Min 11.8 6.5 1.272 92 1612 5.7 7.5 1.701 12.78 6 93 86 93 88 9.71 6.43 58.8 5.77 0.68 0.00 0.0 1.0 21 877 6.1 13.7 6.8 2.622 212 2404 Daily Max 2.357 1.03 449 2550 10.2 Wkly Avg Ma Avg 12.8 6.7 1.857 151 2046 8 7.7 2.010 14.56 96 109 7 97 116 5.77 9.7 6.43 58.8 0.337 0.87 0.00 4.4 215 1371 8.2 **Daily Limits** 6.0-9.0 320 25.9 0.18 406 Wkly Limits 18° C 240 15 240 >350 Mo Limits 10 >85% 160 10 >85% 160

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Faci	Facility Name City of Molalla WWTP					Phone # (503) 793-0507						Month/Year 03/2018								eport - Oregon Department of Environmental Quality (p. 1 of 2)																				
	Permit:		101514	4					DEQ File	e#	57613				EPA Re	ference	#				I certify	under	penalty	of law th	at this o	documer	nt and all	attachme	ents we	re prepa	red und	der my d	direction or	superv	sion in		d		1	411/16-
	t Type		Pre ae	rated lago	ons with t	filtration		(	County	-	Clackan	nas			Populat	tion Se	ved	9960			accord	ance wi	th a sys	tem des	igned to	o assure	that qual	lified pers	sonnel p	properly	gather	and eva	luate the ir	nformati	on		-4	Tr	7	of a care
									No. 11. Constituents for applying and applying and applying and applying and applying and applying and applying a second								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															0	V	, Le	egally Authorized Signature					
	Operator Certification																complete. I am aware that there are significant penalties for submitting false information, including the possibility of fi														of fine		1/		-	Di 1501/2				
Colle	Collection System Class 2 Principal Operator Adam Shultz								Cert.#/Grade 12190/II								and imprisonment for knowing violations.															1/2/18 Kobert 1/11/ast								
	tment S			3	_		I Operato	_	Bob Dilla	ard		-			Cert.#/	Grade	4369/IV			-																0	ate	1.		Name
	T		_		-														_				-				1000						RECEIV	INC ST	DEAM	71.7		T .	T	DAILY LOG
7			_	_	INFLU			TS	e						BOD			TSS		EFFL	UENT	NUTR	IENTS			DIS	SINFECT	ION	С	OLIFOR	RM	-	RECEIV	ING ST	KEAW		1		F	Breakdowns, bypassing, odors, complaints, etc.
F, Sa	-		-		comp			compo							ВОВ			100				140111					Chlorine		MPN		MF		MOLA	ALLA RI	VER				- [	
Su, M, T, W, Th, F,	Month		Fig.				733												To sale	100	len		1983						1000		NO.						1			
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Th	1	12.			_	1887.8	- 11	153		6.7	7.7	2.036	-		96.429			96.732	-	_	mg/L	mg/L	ilig/L	mgre		23	0.89					_	28		_				$\top$	
F	_	12.	_			1007,0	-	100	2010.0	6.8	7.7	2.044			00.420	07.02.1		50.702	04.001							22	0.84						37			-	1			
Sa	_	12.	6.6			_	-	$\rightarrow$	$\dashv$	7.4	7.8	2.038	16.74	-												20	0.78	_					33	-	_	_	T		_	
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M		12.5				$\rightarrow$	-	$\dashv$	-1	7.7	7.8	1.812		_												22	0.93		0		0		27	_		_	T		$\top$	
T	6	12.		A STATE OF THE PARTY OF THE PAR		1738	93	311	3833.5	7.9	7.8	1.691	16.10	5	96.454	70.515	5	98.392	70.515							20	0.90	0.00					25		8.1				$\top$	
w	-	12.6	_				-	-		8.2	7.7	1.695	15.68													19	0.87	0.00	0		2		24	911	8.3	3				
Th	_	12.1				2289.7		312	4277 8	8.5	7.8	1.712	15.26	7	95.808	99.947	5	98.397	71.39							21	0.94	0.00					25	917	9.7	7				
F		12.	_	_	-		- 100			8.7	7.7	1.689	15.43				-									19	0.87	0.00					32	1180	10.1					
Sa	_	1.0	6.7		_	$\neg$		$\neg$		8.8	7.7	1,687	15.67													19	0.86	0.00					59	2250	9.7				1	
Su			6.7					$\neg$		9.3	7.7	1.625	15.20													16	0.79	0.00					48	1750	9.8	3	$\top$			
M		12.	_		_			$\neg$		10.2	7.7	1.608	14.23													15	0.74	0.00	0		1		44	1 1520	9.1					
T	13	12.				4188.3	100	226	4244.7	10.3	7.7	1.595	14.44	7	96.861	93.116	6	97.345	79.814							17	0.82	0.00					44	1 1550	11.0	)				
W	14	12.4	6.7	1.948	3					10.6	7.6	1.606	14.46													17	0.81	0.00					52	1810	10.4	1				
Th	15	12.	6.6	1.986	169	2799.2		172	2848.9	10.4	7.6	1.623	14.18	6	96.45	81.215	4	97.674	54.143							16	0.78	0.00					45							
F	16	12.	6.7	1.971						10.2	7.6	1.634	14.46													16	0.77	0.00					43	1490	_	_				
Sa	17		6.7	1.847	7					10.4	7.6	1.642	14.34													17	0.79	0.00					38							
Su	18		6.7	1.768	3					10.4	7.6	1.626	14.45													16	0.75	0.00					37		-	-			_	
М	19	13.	6.6	1.594	1					10.1	7.6	1.615	14.52													16	0.76		0	)	2	2	35			_		1	_	
Т	20	13.0	6.7	1.512	169	2131.1		253	3190.4	10.6	7.6	1.629	14.08	7	95.858	95.101	3	98.814	40.758							15	0.74	0.00					33		_	_	-		_	
W	21	13.	6.7	1.582	2					11.0	7.6	1.619	13.31													16	0.76	0.00					33		_	_	_	-	$\perp$	
Th		12.	_			20.5	38	233	4776.4	10.6	7.6	1.638	-	1	0	13.661	5	97.854	68.305							16	0.76	0.00					32				-	+	В	od is estimate due to dilution
F		12.			_				_	9.6	7.6	1.631	14.15													17	0.81	0.00		_		_	42	_		_	+-	+	+	
Sa			6.6		_			_	_	8.9	7.6	1.649	-													16	0.77	0.00	_			_	44				$\vdash$	+	-	
Su	-		6.6		_			_		8.9	7.6	1.628	-													16	0.78	0.00				_	47		-	_	+	+-	+	
М		12.								9.0	7.6	1.610	14.45													17	0.84		0	1	12	-	43			_	+	+		S IDO
T	_	lo	_		200,00	1519.2	100	112	1849.5	9.2	7.6	1.640		9	90.217	123.1	5.5	95.089	75.227	11.4	10.3			0.102		17	0.81	0.00	_				35			_	+	+	- 1	emp/DO probe malfunction; sub to Edge Labs
W		12.			_					9.6	4.2	1.643				00.005		00.704	51 011							17	0.80	0.00	_	-		-	3:				+	+-	-	plit samples Edge Labs
Th		12.		The second second second		2101.7		297	4161.3	10.3	7.5	1.616	15.37	6	96	80.865	3.8	98.721	51.214							15	0.74		-	-			31		9.0	_	+	+	_	emp/DO probe malfunction
F	_	13.				-	$\rightarrow$	-		10.8	7.5	1.632	15.23	-						_						15	0.73	0.00		-		-	31		-	_	+-	+-	-1"	ship/50 probe manufiction
Sa			606							11.5	7.5	1.618	14.97			705 44	E20 (6)	and the last	500.07	A TOTAL COMME			15.06.10	E 1 (1977)		100000000000000000000000000000000000000	0.70	0.00		COA COM	W. 25-56		34	1300	3.3		_	7.0	+	
Total				58.464		18676		-	31761	6.7	46	52.565 1.595	13.31			725.44 13.661	2		596.27 40.758	No.	10.3					543.04 14.532	0.70	0	0		0		24.020653	911	7.9		1	+	+	
Daily		12.				20.5		112 312		6.7	7.8	2.044		1		123.1	3	-	84.901	11.4	10.3					23.25	0.70	0	0		12		59.36439	_		_	+	+	+	
Wkly		13.	000	2.629	223	4100.3		312	4//0.4	11.5	1.8	2.044	17.14	9		123.1	0	No.	34.501	11.4	10.3	444	-		100	20.20	0.34	100		STATE OF THE PARTY.	12	N. Carlot	30.00403	220	1000	100		+	+	
Mo A		12.633		1.885935	126	2075.1	20	26.80	3529	0.3645		1 605645	15.015	5 7779	95.752	80.604	4.7	97.956	66 252	11.4	10,3			0.102		17.518	0.80	0	0		3.4		37.775333	1364	9.3097	,		+	+	
		12.03.	1	1.060935	136	2015.1	Z	60.09	3329			1.050045	10.013	0.7776	80.702		4./	37.330		11.4		Sandan.		0.102		17.010	0.00	0.18	406		0.4		07500.	1	1		+	+	+	
	Limits	100							-		6.0-9.0			15		320 240	15		320 240		25.9						-	0.10	400					>350		-		+	+	
	Limits	-	-							18º C	-			10	>85%	160	15	>85%	160	-	16.7						1	0.07	126					-330		-	-	+	+	
Mo L	imits						7		-			W.X.	Section 1	10	>83%	100	10	>85%	160	-	10./				-			0.01	120					-	1					



NPDES Discharge Monitoring Report - Oregon Department of Environmental Quality (p. 1 of 2) City of Molalla WWTP (503) 793-5283 04/2018 Facility Name WS005 Phone # DEQ Permit # 101514 DEQ File # 57613 EPA Reference # 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 9960 Plant Type Pre aerated lagoons with filtration Clackamas Population Served County 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 Operator Certification imprisonment for knowing violations. Collection System Class Principal Operator Adam Shultz Cert. #/Grade 12190/II 4369 / IV Date Treatment System Class **Principal Operator** Robert Dillard Cert. #/Grade Name INFLUENT RECEIVING STREAM Breakdowns, bypassing, odors, complaints, etc. MOLALLA RIVER of Month M, ⊤, W, Day of Flow Flow 표 표 8 Day Dilutic Su, °C SU MGD °C SU MGD mg/L mg/L CES °C M 2 12 6.7 1.63 0.818 11.96 5 F 6 13.7 6.8 1.64 12.0 7.5 0.655 14.92 48 1730 11.3 6 Sa 7 7.5 0.753 14.70 7 6.6 2.648 12.4 71 2540 11.4 Su 8 6.5 4.25 11.2 7.5 0.684 15.20 167 6140 8.9 8 M 9 12.8 6.6 2.75 0.835 15.09 146 5320 8.0 9 10 ND Oil & grease/ TDS 114 MG/L 11 W 11 12.6 6.6 2.59 12.4 7.5 0.837 14.60 0.40 81.60 84 2960 10.3 Th 12 12.5 6.6 3.496 12 7.5 0.800 15.00 81 2950 10.6 79 2930 10.6 BOD5 concentration is estimate 11.7 11.4 7.6 1.317 15.26 F 13 12.9 6.6 2.72 13 Sa 14 6.7 2.390 11.6 7.6 1.528 15.04 76 2770 10.6 14 15 M 16 12.7 6.5 2.57 16 1.646 15.26 1.546 15.33 W 18 12..9 6.7 2.46 18 1.506 14.90 61 2200 9.7 19 19 13.2 6.6 2.10 1.524 14.63 7.5 55 1930 10.7 20 F 20 13.5 6.7 1.90 1.343 14.35 49 1690 10.0 12.4 7.5 1.632 14.35 Sa **21** 1.560 0.36 44 1540 10.7 13.6 7.5 1.513 13.61 22 1.527 12.94 45 1420 8.6 23 24 1.673 12.77 W 25 14.2 6.9 1.36 1.606 12.28 40 1200 12.0 25 Th **26** 14.6 Grab sample. BOD5 concentration is estimate 26 1.654 11.47 45 1260 12.3 6.8 1.33 F 27 14.5 6.9 1.344 45 1300 12.1 27 16.5 1.677 11.82 Sa **28** 6.8 1.321 16.8 7.5 1.744 11.92 1 41 41 1190 10.4 28 29 M 30 14.7 shut down WWTP 31 7.5 0.655 10.98 Daily Max Wkly Avg 14.7 Mo Avg 13.1 2.055 12.8 1.256 13.91 6 94 66 6 96 63 12.7 11.6 0.4 81.6 0.083 21 1.45 61.77784 2130.33 10.2667 Daily Limits 240 15 240 18° C >350 Wkly Limits 10 >85% 160 10 >85% 160

NPDES Discharge Monitoring Report - Oregon Department of Environmental Quality (p. 1 of 2) Facility Name City of Molalla WWTP (503) 793-5283 05/2018 Phone # I certify under penalty of law that this document and all attachments were prepared under 101514 DEQ Permit # DEQ File# 57613 EPA Reference # 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 Plant Type Pre aerated lagoons with filtration County Clackamas **Population Served** 9960 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

WS005 Legally Authorized Signature

				Operator Certification											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															O San A San					
Collection	Syste	m Clas	ss	2	Pr	incipal O	perator	Adam Shultz						Cert. #/	Grade	12190/11				submitting false information, including the possibility of fine and i														Robert J. Dillard	
Treatment	Syste	m Clas	ss .	3	perator	Robert	t Dillard				-	Cert. #/			violatio	ons.											Date		Name						
				IN	IFLUE	NT									Е	FFLUE	NT: RE	USE FO	R IRRI	GATIO	N							R	ECEIVIN	G STI	REAM			DAILY LOG	
Sa					BOD	-	-	SS						BOD			TSS		NL	JTRIEN	TS	the state of the s	ECTION			OLIFOR	The second second second							Breakdowns, bypassing, odors, complaints,	
г, f				(	compos	site	com	posite					-			. 1	-					Chl	orine		MPN		MPN							etc.	물
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_ <u>`</u>		mper	Н	Flow	ent	Loadin	ent	Loadi	per	PH	Flow	8	ent	Sem	oadi	ent	Rem	Loading	L Kj	trog	2 +	unt	Re	ırbic	ы		Tota		Dilution	an	ber				Day
Su,		Tem			Concentr	Ĭ.	Concent	Ĺ	Lem				l o	% F	Ľ	Concentrati	%	Ľ	ota	A	NO2 +	Amount Us	otal	二二						Stream	Тетре				
					3		0						0			0							-												
		-	SU	THE RESERVE OF THE PERSON NAMED IN		lbs	mg/L		°C	SU	MGD	mg/L	mg/L		lbs	mg/L		lbs	mg/L	mg/L	mg/L	lbs	mg/L	NTU	CF	FU/100	mL		С	FS	°C				
T 1		14.8	6.9		139	1376	44	3 4397	7													0								$\rightarrow$			_	Plant shut down	1
W 2		14.9	6.8	1.091	040	1051	0.5	0046	0				-								_	0								$\dashv$	-	_	+-		2
Th 3		15.3	6.9		213	1951	35	3213	3			-	-									0				-				$\dashv$		_	+		3
<u> </u>	200	15.6	6.9	1.015	-			+	-	-		-	<u> </u>									0					$\vdash$	-		-+			+		5
Sa 5	_	_	6.9	1.138					-													0								-+		_	+		- 6
M 7		15.8	6.8	1.014	-			-	+			-		-				-				0					$\vdash$	-		$\dashv$		_	+-		7
T 8		15.9	6.8		254	2154	58	4 4963	3				<u> </u>									0					$\vdash$			$\dashv$		-	+		8
W		15.8	6.8	1.050	201	2101		1000				`	<u> </u>									0								-+			+	DMS Mag meter calibrated	9
Th 1		15.9	6.9		217	2058	29	7 2824	4													0						-		$\dashv$			+		10
F 1		16.0	6.8	0.998																		0											1		11
Sa 1	2		6.8	0.969																		0													12
Su 1	3		6.7	0.975																		0													13
M 1	1	16.6	7.0	0.967												0						0													14
T 1	5	16.5	7.0	0.984	271	2224	36	3003	3											i		0													15
W 1	6	16.7	6.3	0.989						æ												0													16
Th 1	7	16.9	6.9		229	1828	26	2075	5											ì		0													17
F 1		16.8	6.9	0.904																		0				<u> </u>									18
Sa 1			7.0	0.985																Į.		0													19
Su 2	_		6.8	1.042			_		_				-									0				<u> </u>	$\sqcup$						$\bot$		20
M 2		17.1 17.1	6.6	0.908	100	1122							-									0				-							+		21
T 2	_		6.7	The same of the sa	196	1466	23	1758	8			-	-									0			_	-	-			$\dashv$		_	+		22
W 2		17.7 17.6	6.7 6.7	0.629	223	1419	26	5 1686	6				-									0					$\vdash$	-				-	+	plant strat up . Recycle DAF 2	24
F 2		17.6	6.6	0.751	223	1419	20	1000	0				+									0						-		$\dashv$		_	+	plant strat up . Necycle DAF 2	25
Sa 2		17.0	6.8	0.847	-	_		+	+			-	<del> </del>								<u> </u>	0				-	$\vdash$			$\dashv$	-		+	-	26
Su 2	_	$\dashv$	7.0	0.614	+				+													0								+			+		27
M 2	_		7.0	0.629	$\dashv$			+-	+				$\vdash$									0				<u> </u>	+	-+		$\dashv$		-	+	Holiday weekend	28
T 2		17.9	7.1		286	1567	96	3 5304	4	7.6	0.960		<u> </u>									1	0.20	0.65	5		see note			$\dashv$			+	Filling eff line. No spray on fields	29
W 3		17.7	6.9	0.658						7.4			<b>†</b>									32				+	see note			$\neg \dagger$			$\top$	Start Irr, Blowoff. QA/QC BOD blank fail	30
Th 3	1	17.6	7.0		227	1219	47.	3 2540	0	7.6									,	1		41	5.32				<1							QA/QC BOD blank fail +/20mg/l BOD EST.	31
Total				28.560		2.5		31763	3		3.120		Ī									74						İ		Ť		Ī	Ī		$\top$
Daily Min		14.8	6.3		139	1219	23			7.4	0.802	2										0	0.20	0.24											
Daily Max		17.9	7.1	1.190	286	2224	96	-		7.6	1.358	3										41													
Wkly Avg															T.																				
Mo Avg		16.5		0.921	225	1726	42	3176	6	7.5	1.040	)		2							3.9	2	4.16	0.40		- 4			- 1						
Daily Limits																				25.90				<2.0			23				5				
Wkly Limits																											2.2								
Mo Limits																				16.70															