

ATTACHMENT B TO ACL ORDER R5-2020-0553  
 CSA #17 SEWER COLLECTION SYSTEM  
 SHASTA COUNTY

COTTONWOOD WASTEWATER TREATMENT PLANT

CALCULATION OF MANDATORY MINIMUM PENALTIES

(Data reported under Monitoring and Reporting Program No. R5-2010-0044 and R5-2016-0066)

EFFLUENT LIMITATION VIOLATIONS – MONITORING LOCATION EFF-001

<b>Violation Date</b>	<b>Parameter</b>	<b>Units</b>	<b>Condition</b>	<b>Final Effluent Limit</b>	<b>Reported Value</b>	<b>Violation Type</b>	<b>CIWQS ID</b>	<b>MMP Amount</b>
12/16/2013	pH	SU	Instantaneous Maximum	8.5	9.2	OEV	961627	1
12/17/2013	pH	SU	Instantaneous Maximum	8.5	9.1	OEV	961624	1
12/20/2013	pH	SU	Instantaneous Maximum	8.5	8.7	OEV	961621	1
2/12/2014	pH	SU	Instantaneous Minimum	6.5	6.4	OEV	995027	\$3,000
11/14/2014	Total Coliform Organisms	MPN/100 mL	7-day Median	23	28	OEV	983167	N/A
4/27/2015	Total Coliform Organisms	MPN/100 mL	7-day Median	23	127	OEV	995002	N/A
4/30/2015	Total Coliform Organisms	MPN/100 mL	7-day Median	23	127	OEV	995003	N/A
11/27/2015	pH	SU	Instantaneous Minimum	6.5	6.4	OEV	1000290	N/A
12/03/2015	Total Coliform Organisms	MPN/100 mL	7-day Median	23	89	OEV	1002004	N/A
12/21/2015	Total Coliform Organisms	MPN/100 mL	7-day Median	23	97	OEV	1002005	N/A

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Violation Date	Parameter	Units	Condition	Final Effluent Limit	Reported Value	Violation Type	CIWQS ID	MMP Amount
8/2/2016	Total Chlorine Residual	mg/L	1-Hour Average	0.019	0.051	Serious Group II	1012656	\$3,000
12/12/2016	pH	SU	Instantaneous Minimum	6.5	6.1	OEV	1017997	N/A
1/1/2017	Total Coliform Organisms	MPN/100 mL	7-day Median	23	130	OEV	1020568	N/A
2/1/2017	Total Coliform Organisms	MPN/100 mL	7-day Median	23	50	OEV	1022777	N/A
2/5/2017	Total Coliform Organisms	MPN/100 mL	7-day Median	23	80	OEV	1022778	\$3,000
4/16/2017	Total Coliform Organisms	MPN/100 mL	7-day Median	23	50	OEV	1024866	\$3,000
5/4/2017	Chlorodibromomethane	µg/L	Final MDEL	4.3	4.84	Non-Serious Group II	1034196	\$3,000
5/31/2017	Chlorodibromomethane	µg/L	Final AMEL	2.2	4.84	Serious Group II	1027046	\$3,000
5/31/2017	Dichlorobromomethane	µg/L	Final AMEL	10.6	16.8	Serious Group II	1027047	\$3,000
6/27/2017	pH	SU	Instantaneous Minimum	6.5	6.3	OEV	1045908	\$3,000
11/19/2017	Total Coliform Organisms	MPN/100 mL	7-day Median	23	36	OEV	1035864	\$3,000
11/26/2017	Total Coliform Organisms	MPN/100 mL	7-day Median	23	66	OEV	1035866	\$3,000
12/1/2017	Total Coliform Organisms	MPN/100 mL	7-day Median	23	80	OEV	1037208	\$3,000

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12/8/2017	Total Coliform Organisms	MPN/100 mL	7-day Median	240	500	OEV	1054768	\$3,000
12/10/2017	Total Coliform Organisms	MPN/100 mL	7-day Median	23	130	OEV	1037209	\$3,000
3/18/2018	Total Coliform Organisms	MPN/100 mL	7-day Median	23	110	OEV	1042236	\$3,000
4/12/2018	Total Chlorine Residual	mg/L	4-Day Average	0.011	0.04	Serious Group II	1055762	\$3,000
4/12/2018	Total Chlorine Residual	mg/L	1-Hour Average	0.019	0.16	Serious Group II	1043265	\$3,000
4/16/2018	Total Coliform Organisms	MPN/100 mL	7-day Median	23	50	OEV	1043264	\$3,000
4/22/2018	Total Coliform Organisms	MPN/100 mL	7-day Median	23	801	OEV	1055758	\$3,000
5/13/2018	Total Coliform Organisms	MPN/100 mL	7-day Median	23	50	OEV	1054772	\$3,000
6/27/2018	pH	SU	Instantaneous Minimum	6.5	6.3	OEV	1055761	\$3,000
7/5/2018	Copper	µg/L	Final MDEL	34.7	43.7	Serious Group II	1054777	\$3,000
7/5/2018	Zinc	µg/L	Final MDEL	112.2	260	Serious Group II	1054776	\$3,000
7/31/2018	Copper	µg/L	Final AMEL	20.9	43.7	Serious Group II	1046670	\$3,000
7/31/2018	Zinc	µg/L	Final AMEL	77.6	260	Serious Group II	1046671	\$3,000

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Violation Date	Parameter	Units	Condition	Final Effluent Limit	Reported Value	Violation Type	CIWQS ID	MMP Amount
10/8/2018	pH	SU	Instantaneous Minimum	6.5	6.3	OEV	1052360	\$3,000
12/1/2018	Total Coliform Organisms	MPN/100 mL	7-day Median	23	50	OEV	1055224	\$3,000
12/15/2018	Total Coliform Organisms	MPN/100 mL	7-day Median	23	80	OEV	1055225	\$3,000
2/20/2019	Total Suspended Solids	mg/L	Daily Maximum	30	34.2	Non-Serious Group I	1057830	\$3,000
2/20/2019	Total Suspended Solids	mg/L	Weekly Average	15	34.2	Serious Group I	1057829	\$3,000
2/20/2019	Biochemical Oxygen Demand (5-day @ 20°C)	mg/L	Daily Maximum	30	122	Serious Group I	1057797	\$3,000
2/20/2019	Biochemical Oxygen Demand (5-day @ 20°C)	mg/L	Weekly Average	15	122	Serious Group I	1057795	\$3,000
2/28/2019	Biochemical Oxygen Demand (5-day @ 20°C)	% Removal	Monthly Average Minimum	85	82	Non-Serious Group I	1057831	\$3,000
2/28/2019	Total Suspended Solids	mg/L	Monthly Average	10	11	Serious Group I	1057827	\$3,000
2/28/2019	Biochemical Oxygen Demand (5-day @ 20°C)	mg/L	Monthly Average	10	35	Serious Group I	1057785	\$3,000
2/28/2019	Ammonia	mg/L	Final AMEL	7.34	8.39	Non-Serious Group I	1057734	\$3,000

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Violation Date	Parameter	Units	Condition	Final Effluent Limit	Reported Value	Violation Type	CIWQS ID	MMP Amount
3/1/2019	Total Coliform Organisms	MPN/100 mL	30-Day Maximum	240	1600	OEV	1057724	\$3,000
3/13/2019	pH	SU	Instantaneous Minimum	6.5	6.4	OEV	1057723	\$3,000
3/14/2019	Ammonia	mg/L	Weekly Average	11.9	15	Non-Serious Group I	1057834	\$3,000
3/31/2019	Ammonia	mg/L	Monthly Average	7.34	15	Serious Group I	1057832	\$3,000
5/8/2019	Biochemical Oxygen Demand (5-Day @ 20°C)	mg/L	Weekly Average	15	24	Serious Group I	1061024	\$3,000
5/11/2019	Ammonia	mg/L	Weekly Average	11.9	16.2	Non-Serious Group I	1060949	\$3,000
5/14/2019	Biochemical Oxygen Demand (5-Day @ 20°C)	mg/L	Weekly Average	15	19	Non-Serious Group I	1061025	\$3,000
5/27/2019	pH	SU	Instantaneous Minimum	6.5	6.4	OEV	1059821	\$3,000
5/28/2019	pH	SU	Instantaneous Minimum	6.5	6.3	OEV	1059823	\$3,000
5/31/2019	Ammonia	mg/L	Monthly Average	7.34	16.2	Serious Group I	1059822	\$3,000
5/31/2019	Biochemical Oxygen Demand (5-Day @ 20°C)	mg/L	Monthly Average	10	15.5	Serious Group I	1061022	\$3,000

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6/1/2019	Total Coliform Organisms	MPN/100 mL	7-Day Median	23	28.5	OEV	1061298	\$3,000
6/9/2019	Total Coliform Organisms	MPN/100 mL	7-Day Median	23	185.5	OEV	1061299	\$3,000
6/11/2019	Total Coliform Organisms	MPN/100 mL	30-Day Maximum	240	350	OEV	1061296	\$3,000
6/12/2019	Biochemical Oxygen Demand (5-Day @ 20°C)	mg/L	Weekly Average	15	25	Serious Group I	1061310	\$3,000
6/12/2019	Biochemical Oxygen Demand (5-Day @ 20°C)	mg/L	Weekly Average	54	70	Non-Serious Group I	1061297	\$3,000
6/30/2019	Biochemical Oxygen Demand (5-Day @ 20°C)	mg/L	Monthly Average	10	12.2	Non-Serious Group I	1061309	\$3,000
7/11/2019	Dichlorobromomethane	µg/L	Monthly Average	10.6	13.7	Non-Serious Group II	1061920	\$3,000
7/31/2019	pH	SU	Instantaneous Minimum	6.5	5.9	OEV	1061919	\$3,000
8/6/2019	Total Chlorine Residual	mg/L	1-Hour Average	0.019	0.147	Serious Group II	1064213	\$3,000
8/8/2019	Total Chlorine Residual	mg/L	1-Hour Average	0.019	0.268	Serious Group II	1064214	\$3,000
9/12/2019	pH	SU	Instantaneous Minimum	6.5	6.1	OEV	1066376	\$3,000
12/4/2019	Total Coliform	MPN/100 mL	7-Day Median	23	815	OEV	1069431	\$3,000

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Violation Date	Parameter	Units	Condition	Final Effluent Limit	Reported Value	Violation Type	CIWQS ID	MMP Amount
12/6/2019	Total Coliform	MPN/100 mL	7-Day Median	23	220	OEV	1069432	\$3,000
12/10/2019	Total Coliform	MPN/100 mL	7-Day Median	23	220	OEV	1069421	\$3,000
12/11/2019	pH	SU	Instantaneous Minimum	6.5	6.1	OEV	1069423	\$3,000
12/12/2019	Total Coliform	MPN/100 mL	7-Day Median	23	50	OEV	1069424	\$3,000
12/16/2019	Total Coliform	MPN/100 mL	7-Day Median	23	50	OEV	1069425	\$3,000
12/23/2019	Total Chlorine Residual	µg/L	4-Day Average	0.011	24.99	Serious Group II	1069650	\$3,000
12/23/2019	Total Chlorine Residual	µg/L	1-Hour Average	0.019	99.96	Serious Group II	1069430	\$3,000
12/26/2019	Total Coliform	MPN/100 mL	7-Day Median	23	126.5	OEV	1073695	\$3,000
12/31/2019	Total Coliform	MPN/100 mL	7-Day Median	23	145	OEV	1073696	\$3,000
1/2/2020	pH	SU	Instantaneous Minimum	6.5	6.4	OEV	1070566	\$3,000
1/5/2020	pH	SU	Instantaneous Minimum	6.5	6.3	OEV	1070568	\$3,000
1/15/2020	pH	SU	Instantaneous Minimum	6.5	6.4	OEV	1070567	\$3,000
3/1/2020	Total Residual Chlorine	µg/L	1-Hour Average	0.019	8.85	Serious Group II	1072869	\$3,000

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3/1/2020	Total Residual Chlorine	µg/L	4-Hour Average	0.011	2.21	Serious Group II	1072851	\$3,000
3/9/2020	Total Coliform	MPN/100 mL	7-Day Median	23	50	OEV	1072849	\$3,000
3/12/2020	Total Coliform	MPN/100 mL	7-Day Median	23	50	OEV	1073711	\$3,000
3/20/2020	Total Coliform	MPN/100 mL	7-Day Median	23	23.5	OEV	1073712	\$3,000
3/30/2020	Total Coliform	MPN/100 mL	7-Day Median	23	70	OEV	1072850	\$3,000
4/3/2020	Total Coliform	MPN/100 mL	7-Day Median	23	126.5	OEV	1075301	\$3,000
4/13/2020	Total Coliform	MPN/100 mL	7-Day Median	23	305	OEV	1075302	\$3,000
4/16/2020	Total Coliform	MPN/100 mL	7-Day Median	23	261	OEV	1075303	\$3,000
4/20/2020	Total Coliform	MPN/100 mL	7-Day Median	23	24.5	OEV	1073914	\$3,000
4/27/2020	Total Coliform	MPN/100 mL	7-Day Median	23	57	OEV	1075304	\$3,000
5/1/2020	Total Coliform	MPN/100 mL	7-Day Median	23	56	OEV	1075882	\$3,000
5/4/2020	Total Coliform	MPN/100 mL	7-Day Median	23	26	OEV	1075883	\$3,000
5/8/2020	Total Coliform	MPN/100 mL	7-Day Median	23	27	OEV	1075880	\$3,000



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Violation Date	Parameter	Units	Condition	Final Effluent Limit	Reported Value	Violation Type	CIWQS ID	MMP Amount
5/11/2020	Total Coliform	MPN/100 mL	7-Day Median	23	802	OEV	1075878	\$3,000
5/11/2020	Total Coliform	MPN/100 mL	Not to Exceed Limit <sup>2</sup>	240	1600	OEV	1076789	\$3,000
5/13/2020	Total Coliform	MPN/100 mL	7-Day Median	23	240	OEV	1075876	\$3,000
5/15/2020	Total Coliform	MPN/100 mL	7-Day Median	23	300	OEV	1075877	\$3,000
5/15/2020	Total Coliform	MPN/100 mL	Not to Exceed Limit <sup>2</sup>	240	300	OEV	1076791	\$3,000
5/19/2020	Total Coliform	MPN/100 mL	7-Day Median	23	300	OEV	1075884	\$3,000
5/19/2020	Total Coliform	MPN/100 mL	Not to Exceed Limit <sup>2</sup>	240	300	OEV	1076792	\$3,000
5/26/2020	Total Coliform	MPN/100 mL	7-Day Median	23	300	OEV	1075879	\$3,000
5/26/2020	Total Coliform	MPN/100 mL	Not to Exceed Limit <sup>2</sup>	240	300	OEV	1076793	\$3,000
5/28/2020	Total Coliform	MPN/100 mL	7-Day Median	23	158.5	OEV	1075881	\$3,000
							<b>Total</b>	<b>\$282,000</b>

Notes: <sup>1</sup>Violation penalty has already been assessed.

<sup>2</sup>Not to exceed limit more than once in any 30-day period.

OEV: other effluent violation

Serious Group I: any waste discharge that exceeds the effluent limitations for a group I pollutant by 40% or more.

Serious Group II: any waste discharge that exceeds the effluent limitations for a group II pollutant by 20% or more.

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Non-Serious Violation: A non-serious violation will be subject to MMPs if the discharger does any one of the following four or more times in any period of 180 days:

- (a) violates a WDR effluent limitation;
- (b) fails to file a report of waste discharge pursuant to California Water Code section 13260;
- (c) files an incomplete report of waste discharge pursuant to California Water Code section 13260; or
- (d) violates a whole effluent toxicity limitation where the WDRs do not contain pollutant-specific effluent limitations for any toxic pollutants.