McKinleyville Community Services District

ANNUAL WASTEWATER MANAGEMENT FACILITY MONITORING & DISCHARGE REPORT FOR 2021

NPDES No. CA0024490
WDID No. 1B820840HUM
ORDERNo. R1-2018-0032

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February 10, 2022

Regional Water Quality Control Board, North Coast Region
5550 Skylane Blvd., Suite A
Santa Rosa, California 95403

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY ANNUAL REPORT, FOR 2021

The McKinleyville Community Services District operates the wastewater collection, treatment, and disposal facilities that serve 6631 customer units in the unincorporated area of McKinleyville in Northern Humboldt County. The system operated under Order Number R1-2018-0032, National Pollution Discharge Elimination System (NPDES) Permit No. CA0024490, WDID No. 1B820840HUM issued by the California State Water Resources Control Board.

Table 1. Effluent Limitations for Discharge Point 001

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical Oxygen Demand 5-day @ 20°C	mg/L	30	45			
Total Suspended Solids	mg/L	30	45			
pH	s.u.				6.5	8.5
Settleable Matter	mg/L	0.1		0.2		
Chlorine Residual	mg/L	0.01		0.02		
Carbon Tetrachloride	ug/L	.25		.75		
Ammonia Impact Ratio	ug/L	1.0		1.0		
Dichlorobromomethane	ug/L	.56		1.4		

Table 2. Effluent Limitations for Discharge Points 002 through 006

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical Oxygen Demand 5-day @ 20°C	mg/L	30	45			
Total Suspended Solids	mg/L	30	45			
pH	s.u.				6.5	8.5
Nitrate	mg/l	10				

Table 3. Summary of Monitoring Location Names and Descriptions.

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
	INF-001	Influent at the headworks of the wastewater treatment facility (WWTF) prior to treatment.
	INT-001	Location for monitoring effluent from the chlorine contact chamber prior to dechlorination for purposes of measuring chlorine residual.
001	EFF-001	Location for monitoring effluent from the chlorine contact chamber following dechlorination and prior to discharge to the Mad River.
002	LND-001	Location for monitoring effluent from the chlorine contact chamber prior to discharge to the Mad River percolation ponds.
003,004,005 and 006	REC-001	Location for monitoring treated effluent from the chlorine contact chamber prior to water recycling.
	RSW-001	In the Mad River at the Highway 101 Bridge.
	RSW-002	The North Bank of the Mad River as close as possible to Discharge Point 001 under the Hammond Trail bridge.
	GW-001	Well M-1, adjacent to Fischer Road.
	GW-002	Well M-2, on the southwest corner of the intersection of School and Fischer Roads.
	GW-006	Well M-6, south of W-9 and west of W-7.
	GW-007	Well M-7, in the upper portion of the Fischer parcel
	GW-009	Well M-9, adjacent to School Road.
	GW-019	Well within the West Pialorsi Ranch irrigation area (Historically GW-016).

Compliance:

Biochemical Oxygen Demand (BOD) Testing:

Discharge Point 001 requirements for BOD are 30 mg/L and 85% removal for the monthly average and a weekly average limit of 45 mg/L.
BOD limitations for 2021 were not exceeded.

Total Suspended Solids Testing (TSS):

Discharge Point 001 requirements for TSS are 30 mg/L and 85% removal for the monthly average and a weekly average of 45 mg/l.
TSS limitations for 2021 were not exceeded.

3x5 Total Coliform/ Disinfection Testing:

The effluent limitations for coliform 3x5 testing is a maximum monthly median, a most probable number (MPN) of 23 per 100 milliliters and a daily maximum of 240 MPN and are the same for Discharge Point 001- 006.
Coliform limitations for Monthly Median and Daily Maximum were in compliance in 2021

Settleable Matter Testing:

The effluent limitations for Settable Matter testing are listed in Table 1 and are for Discharge Point 001.
Settable Matter limitations for 2021 were not exceeded.

Chlorine Residual Testing:

The effluent limitations for Chlorine Residual testing are listed in Tables 1 for Discharge Point 001.
Chlorine limitations were not exceeded in 2021

Nitrate as Nitrogen Testing:

The effluent limitations for Nitrate as Nitrogen testing for Discharge Point 002 through 006 are 10 mg/l average monthly.
Nitrate as Nitrogen limitations for 2021 were not exceeded.

Carbon tetrachloride Testing:

The effluent limitations for the carbon tetrachloride testing for Discharge Point 001 are listed in Table 1. Carbon Tetrachloride limitations for 2021 were in compliance.

Dichlorobromomethane Testing:

The effluent limitations for Dichlorobromomethane for Discharge Point 001 are listed in Table 1. There were no exceedances in 2021.

Acute Toxicity Monitoring:

The acute toxicity monitoring bioassay criteria for Discharge Point 001 requires a 96-hour fish bioassay test conducted at EFF-001 in undiluted effluent. The sample is a 24-hour composite and is representative of the volume and quality of the discharge. Two test species were required, Ceriodaphnia dubia (C.dubia) and Rainbow Trout to determine the most sensitive species. After testing was conducted it was shown that there was no difference in both results. RWQCB agreed, along with the District, to select Rainbow Trout moving forward. The Regional Board also adopted the Test of Significant Toxicity (TST) method on a pass or fail.

The minimum compliance for any one test is 70% survival. The median for all bioassays during any calendar month is at least 90%. If the results of any 96-hour bioassay test are not in compliance a follow up test is required within 7 day of notification. The results for Acute Testing were in compliance in 2021.

Acute Toxicity Testing
Acute Testing remained in compliance throughout the calendar year for Rainbow Trout.

Table 4 Acute Monthly Testing for 2021

Date Collected	Test	Trout Survival	TST
1/14/2021	Monthly	100%	PASS
2/25/2021	Monthly	100%	PASS
3/4/2021	Monthly	100%	PASS
4/8/2021	Monthly	100%	PASS
11/8/2021	Monthly	100%	PASS
12/9/2021	Monthly	100%	PASS

Chronic Toxicity Monitoring:

The chronic toxicity monitoring bioassay criteria for Discharge Point 001 requires a 96-hour static renewal or 96-hour static non-renewal testing. The sample is a 24-hour composite and is representative of the volume and quality of the discharge. The sampling is conducted at EFF-001 WWMF Effluent. The test species for chronic testing is a vertebrate, the fathead minnow, Pimephales promelas (larval survival and growth test**)**, The District conducted chronic toxicity testing once per permit during the 2021 discharge season. The testing results for Chronic Testing are detailed in Table 5

Table 5 Chronic Toxicity Testing for 2021

Dilution Water	Date	Test Species	
		Flathead minnow	
		% effect	TST
Diluted w/ Lab Control Water	January 2021	No Significant reductions	Pass

Accelerated Monitoring Requirements:

Accelerated monitoring is triggered when a Chronic test, analyzed using the TST approach, results in a Fail and the percent effect is >.50. No accelerated monitoring was required during 2021.

Other Projects and Commentary on the Treatment Process:

Treatment Process Trends:

The success of a particular process can be gauged by tracking the removal of BOD and TSS. Chart 1 demonstrates average BOD concentration in mg/L from 2011 through 2021. The average BOD in 2021 was 4 mg/L and continues to remain well below 30mg/L, our current limit.

Chart 1 Annual Average BOD Concentrations

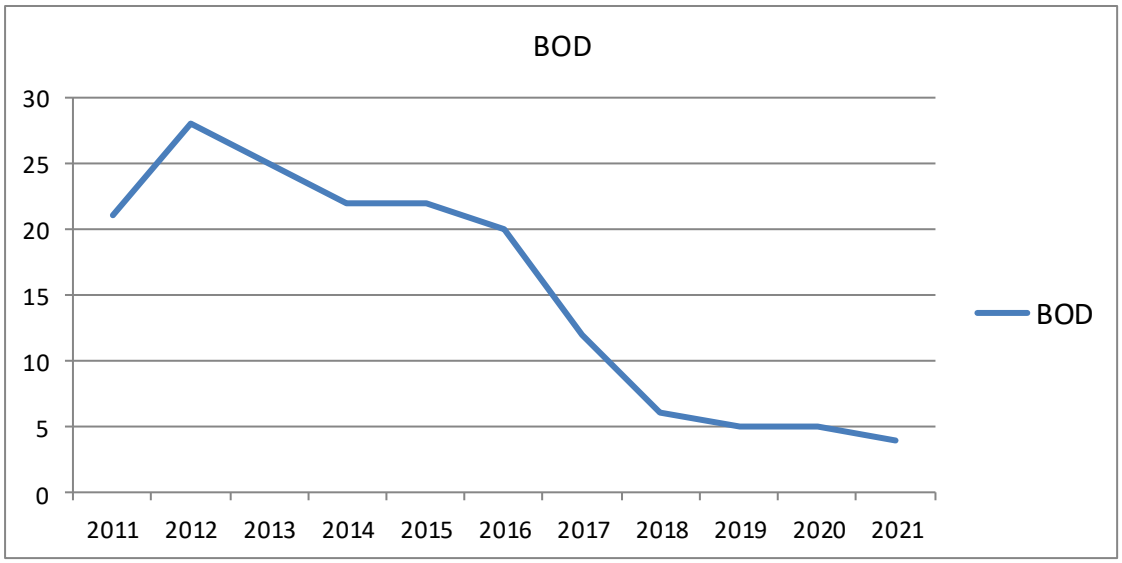


Chart 2 demonstrates average TSS concentration in mg/L from 2011 through 2021. The average TSS in 2021 was 3 mg/L and is well below the level it was in 2011. There was a trend increase in 2016 possibly due to the draining of Pond A to build the new plant which diverts flow and nutrient to one Facultative Pond instead of two, along with the additional aerators placed in Pond B.

Chart 2 Annual Average TSS Concentrations

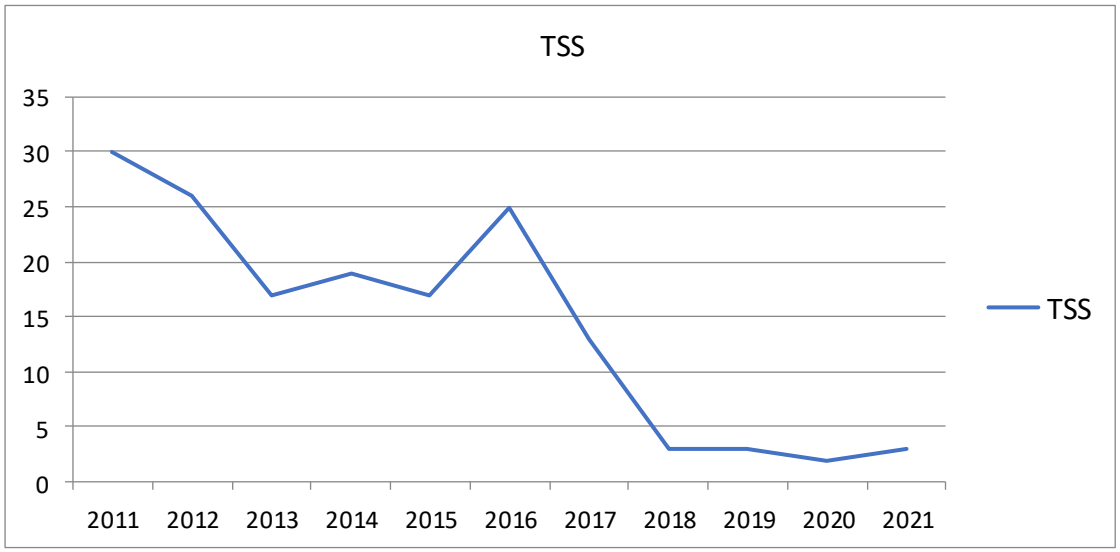
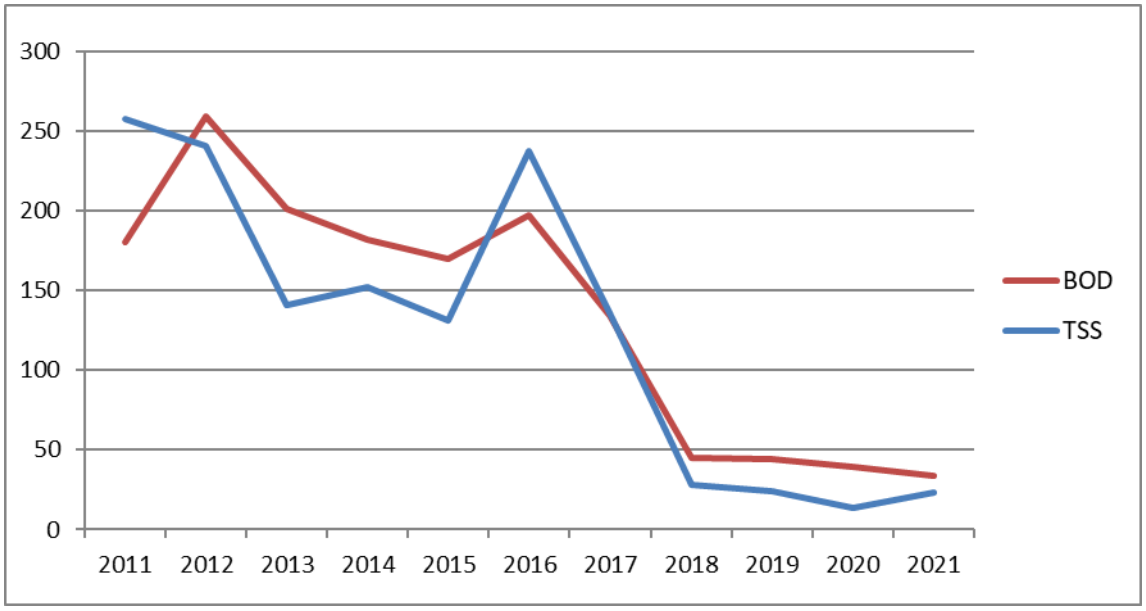


Chart 3 is the product of the flow and the concentration. It is identified as mass loading and measured in pounds per day.

Chart 3 Annual Average BOD and TSS Mass Loading



Charts 1-3 demonstrate the steady trend downward of BOD and TSS from 2011. The treatment marsh upgrade project was completed in 2006. The chart shows the drastic improvements from the performance of the treatment process after the marsh was installed. The efficiency of the process continues to trend down. The blip upward in BOD experience in 2012 but trended back down in 2014 and continued to trend down in 2015. There was another blip upward in 2016 possibly due to the draining of Pond A to build the new plant which diverts flow and nutrient to one Facultative Pond instead of two, along with the additional aerators placed in Pond B. In 2018, there is a drastic decrease due to the WWMF Upgrade project and quality of treatment.

Main Area of Concern:

Ammonia Removal

Due to the performance of the Treatment Plant Upgrade project, ammonia testing results have gone from results of low 30's to ND. As a result of the increased performance, the District experienced higher THM results in 2019 than the Discharge permit allows. The increase Dichlorobromomethane (DCBM) results are a by-product of using chlorine disinfection with an insufficient amount of Ammonia. A series of pilot studies were conducted to verify optimal performance by testing naturally occurring ammonia throughout the system and calculating the flow rate based on the ammonia residual needed.
As part of the treatment process, water is directed to the Biosolids Basin (BSB) through the Waste Activated Sludge (WAS) pump. The supernatant in the BSB has a natural occurring ammonia results of approximately 110 mg/l. The process change involves pumping the supernatant from the BSB to the Secondary Effluent pump vault using a small pump and discharge hose. The supernatant is then diluted with the effluent flow to add the adequate amount of ammonia needed. There were no DCBM exceedances in 2021.

Summary of Work Completed in 2021

Ammonia Study Work Plan:
The District is required to conduct a freshwater mussel survey of the lower Mad River in accordance with the current National Pollutant Discharge Elimination System (NPDES) permit requirements for the McKinleyville Wastewater Treatment Facility (WWTF).
Under Waste Discharge Requirements (WDR) Order No. R1-2018-0032, Special Provision VI.C.2.a, the District was required to submit a work plan for conducting the freshwater mussel

study to the Regional Water Board by October 1, 2020.
The District submitted the MCSD Freshwater Mussel Study Workplan (Moonstone Associates, 2020) for Regional Water Board review and approval in September 2020. The District received Regional Board approval of the work plan in December 2020. A copy of the complete approved work plan is available online at
https://www.mckinleyvillecsd.com/files/e5580fb3c/20200928-MCSDMusselStudyWorkPlan.pdf
The District contracted with Stillwater Sciences to conduct a presence/absence survey for freshwater mussels in the lower Mad River following the work plan developed by Moonstone Associates, Inc. This survey was conducted in accordance with the *Technical Support Document for Conducting and Reviewing Freshwater Mussel Occurrence Surveys for the Development of Site-Specific Water Quality Criteria for Ammonia* (USEPA 2013).
There was a lack of freshwater mussel observations and historical records from within the study area. This may be due to unfavorable stream, habitat, and substrate conditions. No further studies are recommended under the study plan due to no historic records or current detection of freshwater mussels in the study area. A copy of the complete report is available online at :
https://www.mckinleyvillecsd.com/files/8d3553fe8/PFAS+Quarterly+Monitoring+Reports+2021.pdf

Local Limits Study:
Federal water quality regulations require local governments to prevent the introduction of certain pollutants into their Publicly Owned Treatment Works (POTW), in order to prevent interference with wastewater treatment processes and pass through of pollutants and provide for the use and disposal of municipal biosolids (sludge). This is accomplished through development and implementation of specific effluent limits (local limits) for industrial users. These limits are developed to reflect the specific needs and capabilities at individual POTWs and protect the waterbody to which the POTW discharges.
Freshwater Environmental Services (FES) has assisted the McKinleyville Community Services District (MCSD) in developing the Local Limits Study Workplan (Workplan) to outline the steps required for a local limits update.
The Workplan was submitted to the Regional Water Quality Control Board (RWQCB) for review in September 2019 and the implementation was approved in December of 2019. Staff conducted the study in July of 2020 and the results were used to develop an updated Local Limits Report which was submitted to the RWQCB for approval. A copy of the complete Local Limits Report is available online at
https://www.mckinleyvillecsd.com/files/b8e69aefa/MCSD+Local+Limits+Report+2020+%28Final%29.pdf

Discharge Monitoring Report Quality Assurance (DMR-QA) Study Reports:
The Permittee shall ensure that the results of the DMR-QA Study or the most recent Water Pollution Performance Evaluation Study are submitted annually to the State Water Board. A copy of the report that was sent to the State Water Board is available online at :
https://www.mckinleyvillecsd.com/files/f63679dcd/MCSD+2021+DMR-QA+41+Report.pdf

Per- and Polyflouroalkyl Substances (PFAS) Sampling:
The State Water Board issued *Order WQ 2020-0015-DWQ for the Determination of the Presence of Per- and Polyfluoroalkyl Substances at Publicly Owned Treatment Works (Order)* on July 9, 2020. PFAS sampling was conducted quarterly per the Order issued. A copy of all four quarters of sampling that was submitted to the State Water Board is available online at :
https://www.mckinleyvillecsd.com/files/8d3553fe8/PFAS+Quarterly+Monitoring+Reports+2021.pdf

20 Year Facilities Plan
The final draft of the facilities plan was published in January 2012 and accepted by the District board on February 1, 2012. The full document can be located at the District web site by following this link.
https://www.mckinleyvillecsd.com/files/5a493f670/MCSD+20-Year+Facilities+Plan.pdf

Names and General Responsibilities of Staff Working at the Facility

Name	Responsibilities
Patrick Kaspari	General Manger, Owner
James Henry	Chief Plant Operator/Quarterly and annual reporting
Erik Jones	Schedules maintenance and shifts at plant
Chris Jones	Shift Operator/ Runs daily routines
Kyle Stone	Shift Operator/ Runs daily routines
Drew Small	Lead Shift Operator/ daily routines, all sample collection and shipping, training
Seth Meynell	Operator in Training/ Equipment and site maintenance
Jordan Johnson	Shift Operator/ Equipment and site maintenance
Chris Reed	Equipment and site maintenance
Emergency Contacts	
Patrick Kaspari	707-599-5123
James Henry	707-496-2295
Drew Small	707-362-1800
Duty Cell Phone	707-601-9241

INDEX of EXHIBITS

EXHIBIT K: Tabular Data PG 75

Monthly Process Data Results

EXHIBIT L: Sludge Disposal and Handling Requirements PG 88

EXHIBIT M: Summary of Irrigation Compliance Report PG 89

Nitrogen Loading lbs/acre
Daily Irrigation Inspection Form

EXHIBIT N: Instrument Calibration Logs PG 94

EXHIBIT O: Source Control PG 133

Summary of compliance and/or enforcement activities and survey results
General Prohibitions and Table presenting Local Limits
List of Industrial Users and Addresses

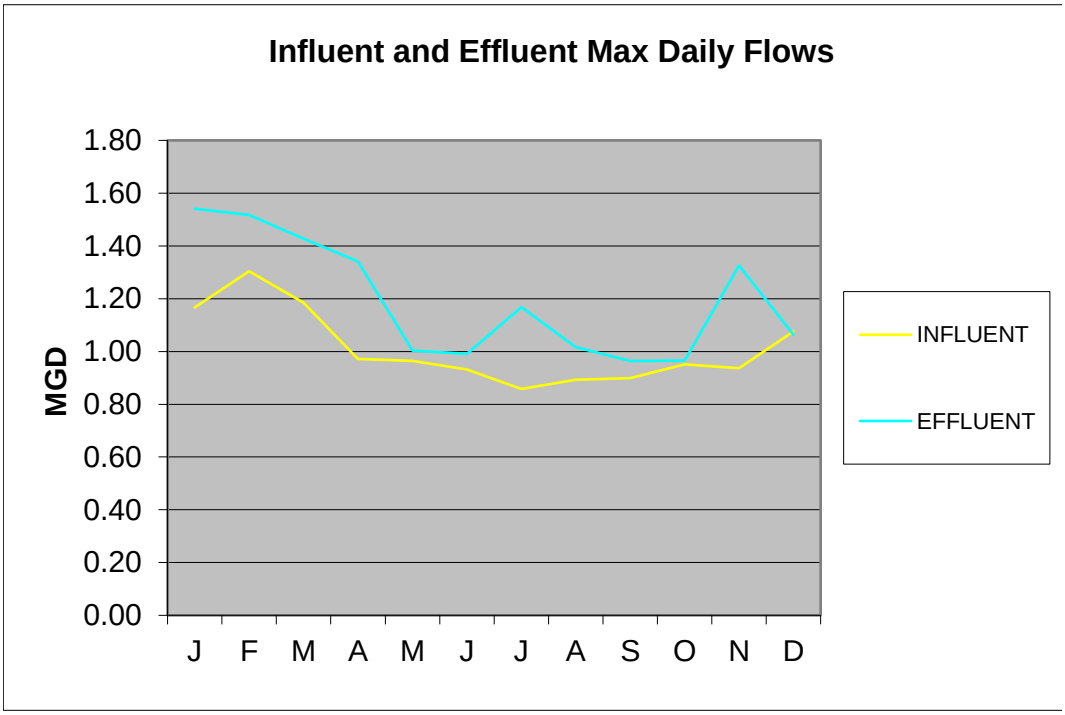
If you have any questions, please contact this office.

"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."

_____
Patrick Kaspari, GENERAL MANAGER

McKinleyville Community Services District
Wastewater Management Facility
Influent and Effluent Max Daily Flows in MGD
2021

DATE	INFLUENT	EFFLUENT	MAX GPM
January	1.167	1.541	2442
February	1.304	1.517	1651
March	1.185	1.428	1391
April	0.972	1.342	1635
May	0.964	1.003	1737
June	0.932	0.991	1506
July	0.858	1.168	1442
August	0.893	1.016	1232
September	0.899	0.964	1271
October	0.951	0.966	1377
November	0.937	1.326	1763
December	1.076	1.064	1247
Maximum	1.304	1.541	2442



McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
RIVER CFS - EFFLUENT FLOWS - RIVER DILUTION

January 2021

DATE	M-INF INFLUENT MGD	M-001 EFFLUENT MGD	EFFLUENT MAXIMUM GPM	M-003 PERK PONDS MGD	M-004 M-005 M-006 M-007 IRRIGATE MGD	M-002 RIVER MGD	RIVER DILUTION 100: 1	MAXIMUM G.P.M. DISCHARGE FOR 100:1	RIVER FLOW IN CFS	RIVER FLOW IN GPS
1	0.882	1.175		Land Application						
2	0.897	1.167		Land Application						
3	0.945	1.160		Land Application						
4	0.975	1.327	2442			1.327	167	4085	910	6808
5	0.930	1.243	1557			1.243	1211	18852	4200	31420
6	0.924	1.255	1417			1.255	564	7990	1780	13316
7	0.917	1.377	1607			1.377	475	7631	1700	12718
8	0.933	1.470	1758			1.470	368	6464	1440	10773
9	0.930	1.473	1852			1.473	463	8573	1910	14289
10	0.038	1.467	1738			1.467	333	5790	1290	9650
11	0.946	1.476	1824			1.476	283	5162	1150	8603
12	0.987	1.472	1848			1.472	209	3869	862	6449
13	1.041	1.458	1684			1.458	1040	17506	3900	29176
14	0.974	1.468	1611			1.468	861	13870	3090	23116
15	0.938	1.475	1679			1.475	454	7631	1700	12718
16	0.939	1.471	1704			1.471	308	5252	1170	8753
17	0.957	1.387	1658			1.387	236	3905	870	6508
18	0.955	1.340	1715			1.340	180	3084	687	5139
19	0.897	1.342	1616			1.342	154	2491	555	4152
20	0.875	1.226	1758			1.226	121	2119	472	3531
21	0.875	1.112	1334			1.112	139	1849	412	3082
22	0.883	1.110	1409			1.110	127	1786	398	2977
23	0.908	1.107	1376			1.107	118	1625	362	2708
24	0.956	0.999	1352			0.999	108	1454	324	2424
25	0.924	0.939	1113			0.939	148	1643	366	2738
26	0.898	0.933	1213			0.933	121	1472	328	2454
27	0.997	0.923	1128			0.923	316	3559	793	5932
28	1.167	1.036	1274			1.036	754	9606	2140	16009
29	1.058	1.398	1412			1.398	629	8887	1980	14812
30	1.039	1.541	1832			1.541	289	5297	1180	8828
31	1.097	1.412	1674			1.412	257	4309	960	7182
TOTAL	28.682	39.739		0.000	0.000	36.237				
AVERAGE	0.925	1.282	1592	0.000	0.000	1.294	373	5920	1319	9867
MAXIMUM	1.167	1.541	2442	0.000	0.000	1.541	1211	18852	4200	31420
MINIMUM	0.038	0.923	1113	0.000	0.000	0.923	108	1454	324	2424
DAYS	31	31		0	0	28				

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 3

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
RIVER CFS - EFFLUENT FLOWS - RIVER DILUTION

February 2021

DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	EFFLUENT MAXIMUM GPM	**M-002** PERK PONDS MGD	**M-003** **M-004** **M-005** **M-006** IRRIGATE MGD	**EFF-001** RIVER MGD	RIVER DILUTION 100: 1	MAXIMUM G.P.M. DISCHARGE FOR 100:1	RIVER FLOW IN CFS	RIVER FLOW IN GPS
1	1.094	1.428	1651			1.428	971	16024	3570	26707
2	1.101	1.480	1490			1.480	2030	30253	6740	50422
3	1.114	1.504	1524			1.504	1319	20109	4480	33515
4	1.054	1.517	1612			1.517	1239	19974	4450	33290
5	1.017	1.445	1477			1.445	972	14364	3200	23939
6	1.033	1.405	1413			1.405	766	10818	2410	18029
7	1.061	1.378	1382			1.378	646	8932	1990	14887
8	0.978	1.102	1146			1.102	642	7361	1640	12269
9	0.933	1.095	1243			1.095	491	6104	1360	10174
10	0.964	1.102	1233			1.102	422	5207	1160	8678
11	1.031	1.065	1168			1.065	400	4668	1040	7780
12	1.081	1.104	1190			1.104	1328	15800	3520	26333
13	1.164	1.138	1082			1.138	2311	25002	5570	41669
14	1.166	1.169	1175			1.169	1960	23027	5130	38378
15	1.304	1.181	1017			1.181	4546	46233	10300	77054
16	1.186	1.205	1086			1.205	3129	33979	7570	56631
17	1.100	1.242	1235			1.242	1825	22533	5020	37555
18	1.125	1.247	1248			1.247	1360	16967	3780	28278
19	1.160	1.247	1199			1.247	2085	25002	5570	41669
20	1.234	1.245	1112			1.245	2656	29535	6580	49225
21	1.184	1.256	1248			1.256	1777	22174	4940	36956
22	1.111	1.259	1331			1.259	1315	17506	3900	29176
23	1.087	1.261	1314			1.261	1127	14812	3300	24687
24	1.072	1.248	1415			1.248	876	12389	2760	20648
25	1.037	1.203	1306			1.203	808	10548	2350	17580
26	1.008	1.227	1266			1.227	713	9022	2010	15037
27	1.023	1.254	1307			1.254	587	7676	1710	12793
28	1.056	1.264	1296			1.264	516	6688	1490	11147
TOTAL	30.478	35.271		0.000	0.000	35.271				
AVERAGE	1.089	1.260	1292	0.000	0.000	1.260	1386	17239	3841	28732
MAXIMUM	1.304	1.517	1651	0.000	0.000	1.517	4546	46233	10300	77054
MINIMUM	0.933	1.065	1017	0.000	0.000	1.065	400	4668	1040	7780
DAYS	28	28	28	0	0	28				

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
RIVER CFS - EFFLUENT FLOWS - RIVER DILUTION

March 2021

DATE	INF-001 INFLUENT MGD	EFF-001 EFFLUENT MGD	EFFLUENT MAXIMUM GPM	M-002 PERK PONDS MGD	M-003 M-004 M-005 M-006 IRRIGATE MGD	EFF-001 RIVER MGD	RIVER DILUTION 100: 1	MAXIMUM G.P.M. DISCHARGE FOR 100:1	RIVER FLOW IN CFS	RIVER FLOW IN GPS
1	1.004	1.265	1244			1.265	480	5970	1330	9950
2	0.988	1.263	1283			1.263	416	5341	1190	8902
3	0.959	1.263	1246			1.263	385	4803	1070	8005
4	0.945	1.243	1324			1.243	337	4462	994	7436
5	1.051	0.810	1105			0.810	369	4076	908	6793
6	1.185	0.802	867			0.802	1475	12793	2850	21321
7	1.163	0.860	981			0.860	833	8169	1820	13615
8	1.091	0.961	926			0.961	713	6598	1470	10997
9	1.094	1.087	982			1.087	635	6239	1390	10399
10	1.093	1.195	1153			1.195	837	9650	2150	16084
11	1.047	1.293	1272			1.293	685	8708	1940	14513
12	1.031	1.372	1305			1.372	571	7451	1660	12418
13	1.036	1.428	1373			1.428	510	7002	1560	11670
14	1.035	1.285	1370			1.285	478	6553	1460	10922
15	1.073	1.392	1361			1.392	768	10458	2330	17431
16	1.018	1.297	1346			1.297	650	8753	1950	14588
17	0.999	1.067	1202			1.067	646	7765	1730	12942
18	0.984	0.818	991			0.818	716	7092	1580	11820
19	0.975	0.812	919			0.812	1099	10099	2250	16832
20	1.045	0.878	891			0.878	1320	11760	2620	19600
21	1.076	0.959	923			0.959	1196	11042	2460	18403
22	1.005	1.042	991			1.042	947	9381	2090	15635
23	0.989	1.110	1391			1.110	613	8528	1900	14214
24	0.967	1.181	1231			1.181	602	7406	1650	12344
25	0.956	1.057	1230			1.057	544	6688	1490	11147
26	0.944	1.050	1207			1.050	498	6015	1340	10025
27	0.949	0.819	1004			0.819	536	5386	1200	8977
28	0.977	0.813	838			0.813	595	4982	1110	8304
29	0.935	0.325	1016			0.325	459	4668	1040	7780
30	0.920	0.000	0	No Discharge		0.000	0	4349	969	7249
31	0.913	0.468	1006			0.468	409	4112	916	6853
TOTAL	31.447	31.215		0.000	0.000	31.215				
AVERAGE	1.014	1.007	1096	0.000	0.000	1.007	656	7300	1626	12167
MAXIMUM	1.185	1.428	1391	0.000	0.000	1.428	1475	12793	2850	21321
MINIMUM	0.913	0.000	0	0.000	0.000	0.000	397	4076	908	6793
DAYS	31	28		0	0	28				

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 3

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
RIVER CFS - EFFLUENT FLOWS - RIVER DILUTION

April 2021

DATE	INF-001 INFLUENT MGD	EFF-001 EFFLUENT MGD	EFFLUENT MAXIMUM GPM	M-002 PERK PONDS MGD	M-003 M-004 M-005 M-006 IRRIGATE MGD	EFF-001 RIVER MGD	RIVER DILUTION 100: 1	MAXIMUM G.P.M. DISCHARGE FOR 100:1	RIVER FLOW IN CFS	RIVER FLOW IN GPS
1	0.933	1.241	1470			1.241	262	3847	857	6411
2	0.940	1.309	1264			1.309	287	3627	808	6045
3	0.942	1.342	1331			1.342	215	2859	637	4765
4	0.972	1.252	1289			1.252	196	2532	564	4219
5	0.945	1.264	1635			1.264	145	2365	527	3942
6	0.916	1.191	1390			1.191	164	2276	507	3793
7	0.926	1.217	1315			1.217	152	1997	445	3329
8	0.921	1.154	1429			1.154	127	1818	405	3030
9	0.903	1.037	1164			1.037	145	1688	376	2813
10	0.916	0.970	996			0.970	166	1652	368	2753
11	0.941	0.970	1031			0.970	153	1580	352	2633
12	0.907	0.970	1009			0.970	148	1495	333	2491
13	0.882	0.971	1041			0.971	140	1459	325	2431
14	0.892	0.977	1024			0.977	139	1427	318	2379
15	0.887	0.975	1076			0.975	127	1365	304	2274
16	0.862	0.891	1260			0.891	103	1297	289	2162
17	0.999	0.808	874			0.808	146	1279	285	2132
18	0.919	0.811	875			0.811	139	1216	271	2027
19	0.895	0.813	809			0.813	144	1167	260	1945
20	0.880	0.809	777			0.809	146	1136	253	1893
21	0.876	0.804	842			0.804	132	1109	247	1848
22	0.857	0.803	824			0.803	131	1077	240	1795
23	0.858	0.802	824			0.802	124	1019	227	1698
24	0.889	0.798	915			0.798	108	992	221	1653
25	0.962	0.793	850			0.793	123	1046	233	1743
26	0.907	0.795	764			0.795	166	1266	282	2110
27	0.865	0.794	844			0.794	146	1230	274	2050
28	0.866	0.795	807			0.795	141	1136	253	1893
29	0.853	0.795	777			0.795	143	1109	247	1848
30	0.863	0.543	801			0.543	129	1032	230	1721
TOTAL	27.174	28.694		0.000	0.000	28.694				
AVERAGE	0.906	0.956	1044	0.000	0.000	0.956	153	1637	365	2728
MAXIMUM	0.999	1.342	1635	0.000	0.000	1.342	287	3847	857	6411
MINIMUM	0.853	0.543	764	0.000	0.000	0.543	103	992	221	1653
DAYS	30	30		0	0	30				

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
RIVER CFS - EFFLUENT FLOWS - **M-003** RIVER DILUTION
M-004
M-005
November 2021

DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	EFFLUENT MAXIMUM GPM	**M-002** PERK PONDS MGD	**M-006** IRRIGATE MGD	**EFF-001** RIVER MGD	RIVER DILUTION 100: 1	MAXIMUM G.P.M. DISCHARGE FOR 100:1	RIVER FLOW IN CFS	RIVER FLOW IN GPS
1	0.918	1.198	1472	0.291		0.907	182	2675	596	4459
2	0.849	1.326	1354			1.326	306	4143	923	6905
3	0.840	1.302	1329			1.302	261	3474	774	5790
4	0.869	1.298	1315			1.298	229	3016	672	5027
5	0.866	1.288	1763			1.288	537	9471	2110	15785
6	0.899	1.289	1344			1.289	581	7810	1740	13017
7	0.937	1.236	1300			1.236	570	7406	1650	12344
8	0.817	1.153	1295			1.153	451	5835	1300	9725
9	0.850	1.195	1280			1.195	407	5207	1160	8678
10	0.811	1.200	1345			1.200	768	10324	2300	17206
11	0.835	1.204	1310			1.204	654	8573	1910	14289
12	0.788	1.203	1326			1.203	508	6733	1500	11222
13	0.811	1.095	1291			1.095	414	5341	1190	8902
14	0.860	1.106	1224			1.106	355	4349	969	7249
15	0.827	1.066	1279			1.066	281	3595	801	5992
16	0.831	1.036	1182			1.036	284	3357	748	5596
17	0.803	1.036	1184			1.036	241	2855	636	4758
18	0.787	1.038	1246			1.038	215	2684	598	4474
19	0.777	1.038	1192			1.038	205	2446	545	4077
20	0.815	1.041	1118			1.041	199	2226	496	3711
21	0.828	1.009	1220			1.009	166	2029	452	3381
22	0.798	1.004	1190			1.004	155	1849	412	3082
23	0.792	0.984	1144			0.984	147	1683	375	2805
24	0.804	0.911	1194			0.911	129	1535	342	2559
25	0.824	0.857	1148			0.857	122	1396	311	2327
26	0.758	0.850	1218			0.850	105	1275	284	2125
27	0.781	0.837	1143			0.837	101	1158	258	1930
28	0.831	0.675	1060			0.675	101	1068	238	1780
29	0.785	0.600	672			0.600	159	1068	238	1780
30	0.773	0.603	723			0.603	146	1055	235	1758
TOTAL	24.764	31.678		0.291	0.000	31.387				
AVERAGE	0.825	1.056	1229	0.000	0.000	1.046	299	3855	859	6424
MAXIMUM	0.937	1.326	1763	0.291	0.000	1.326	768	10324	2300	17206
MINIMUM	0.758	0.600	672	0.291	0.000	0.600	101	1055	235	1758
DAYS	30	30		1	0	30				

DAYS WITH NO DISCHARGE TO THE MAD RIVER =

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
RIVER CFS - EFFLUENT FLOWS - RIVER DILUTION

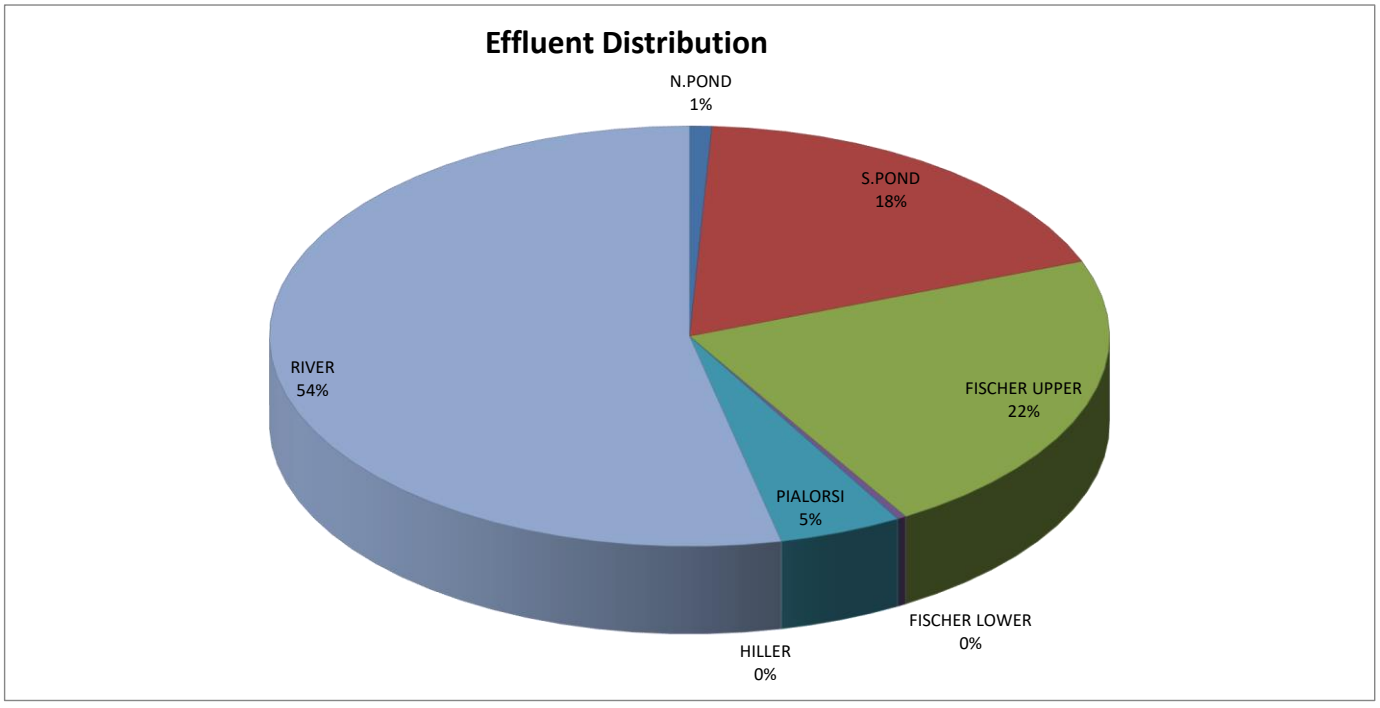
December 2021

DATE	INF-001 INFLUENT MGD	EFF-001 EFFLUENT MGD	EFFLUENT MAXIMUM GPM	M-002 PERK PONDS MGD	M-003 M-004 M-005 M-006 IRRIGATE MGD	EFF-001 RIVER MGD	RIVER DILUTION 100: 1	MAXIMUM G.P.M. DISCHARGE FOR 100:1	RIVER FLOW IN CFS	RIVER FLOW IN GPS
1	0.805	0.619	707	0.369		0.250	140	987	220	1646
2	0.788	0.709	800	0.709		0.000	127	1014	226	1691
3	0.783	0.758	886	0.758		0.000	111	987	220	1646
4	0.802	0.766	831	0.766		0.000	117	974	217	1623
5	0.866	0.758	832	0.758		0.000	116	965	215	1608
6	0.819	0.751	776	0.751		0.000	124	965	215	1608
7	0.829	0.908	977	0.504	0.404	0.000	102	1001	223	1668
8	0.806	1.063	1120		1.063	0.000	91	1014	226	1691
9	0.803	1.061	1247		1.061	0.000	78	974	217	1623
10	0.784	0.956	1154		0.956	0.000	81	938	209	1564
11	0.828	0.866	948	0.536	0.330	0.000	140	1329	296	2214
12	0.917	0.859	854	0.859		0.000	212	1813	404	3022
13	0.961	0.980	1077	0.322		0.658	388	4179	931	6965
14	0.909	1.058	986			1.058	1215	11985	2670	19974
15	0.897	1.063	1020			1.063	572	5835	1300	9725
16	0.951	1.054	1006			1.054	1013	10189	2270	16982
17	0.891	1.059	1005			1.059	840	8439	1880	14064
18	0.892	1.055	1088			1.055	656	7137	1590	11895
19	0.909	1.058	1070			1.058	587	6284	1400	10473
20	0.869	1.064	1100			1.064	518	5701	1270	9501
21	0.873	1.059	1119			1.059	509	5701	1270	9501
22	0.910	1.055	1102			1.055	733	8079	1800	13466
23	0.988	1.045	954			1.045	2273	21680	4830	36133
24	1.012	1.030	995			1.030	3456	34383	7660	57304
25	0.952	1.032	959			1.032	2939	28188	6280	46981
26	1.022	1.028	953			1.028	2468	23520	5240	39200
27	1.076	1.020	938			1.020	3063	28727	6400	47878
28	1.016	1.028	1036			1.028	1742	18044	4020	30074
29	1.034	1.022	969			1.022	1820	17640	3930	29400
30	0.983	1.023	946			1.023	1518	14364	3200	23939
31	0.991	1.027	949			1.027	1258	11940	2660	19899
TOTAL	27.966	29.834		6.332	3.814	19.688				
AVERAGE	0.902	0.962	981	0.000	0.000	0.635	936	9193	2048	15321
MAXIMUM	1.076	1.064	1247	0.859	1.063	1.064	3456	34383	7660	57304
MINIMUM	0.783	0.619	707	0.322	0.330	0.000	78	938	209	1564
DAYS	31	31		10	5	20				

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 11

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL TOTALS 2021

Discharge Monitoring DATE	**M-INF** INFLUENT MGD	**M-001** EFFLUENT MGD	**002 M-003** N.POND MGD	**002 M-003** S.POND MGD	**004 M-005** FISCHER MGD UPPER	**003 M-004** FISCHER MGD LOWER	**006 M-007** PIALORSI MGD	**005 M-006** HILLER MGD	IRRGATE TOTAL MGD	**001 M-002** RIVER MGD
JANUARY	28.7	39.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	36.8
FEBRUARY	30.5	35.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3
MARCH	31.4	31.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.2
APRIL	27.2	28.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.7
MAY	26.8	23.5	0.0	8.0	12.7	0.0	2.7	0.0	15.4	0.0
JUNE	25.4	23.2	0.0	9.1	12.1	0.0	2.0	0.0	14.2	0.0
JULY	25.4	24.3	0.0	9.2	9.5	1.2	4.6	0.0	15.2	0.0
AUGUST	25.3	25.4	0.0	9.3	13.7	0.0	2.4	0.0	16.1	0.0
SEPTEMBER	24.6	24.2	0.0	9.2	12.2	0.0	2.8	0.0	14.9	0.0
OCTOBER	24.7	25.0	0.0	11.4	12.0	0.0	1.7	0.0	13.6	0.0
NOVEMBER	24.8	31.7	0.0	0.3	0.0	0.0	0.0	0.0	0.0	31.4
DECEMBER	28.0	29.8	0.0	6.3	3.8	0.0	0.0	0.0	3.8	19.7
Totals	322.8	342.1	2.9	62.8	76.0	1.2	16.2	0.0	93.3	183.1



McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL JANUARY 2021

Discharge Monitoring DATE	**M-INF** INFLUENT MGD	**M-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.882	1.175	1380	1.175						0.000	0.000
2	0.897	1.167	1336	1.167						0.000	0.000
3	0.945	1.160	1326	0.583						0.000	0.577
4	0.975	1.327	2442							0.000	1.327
5	0.930	1.243	1557							0.000	1.243
6	0.924	1.255	1417							0.000	1.255
7	0.917	1.377	1607							0.000	1.377
8	0.933	1.470	1758							0.000	1.470
9	0.930	1.473	1852							0.000	1.473
10	0.038	1.467	1738							0.000	1.467
11	0.946	1.476	1824							0.000	1.476
12	0.987	1.472	1848							0.000	1.472
13	1.041	1.458	1684							0.000	1.458
14	0.974	1.468	1611							0.000	1.468
15	0.938	1.475	1679							0.000	1.475
16	0.939	1.471	1704							0.000	1.471
17	0.957	1.387	1658							0.000	1.387
18	0.955	1.340	1715							0.000	1.340
19	0.897	1.342	1616							0.000	1.342
20	0.875	1.226	1758							0.000	1.226
21	0.875	1.112	1334							0.000	1.112
22	0.883	1.110	1409							0.000	1.110
23	0.908	1.107	1376							0.000	1.107
24	0.956	0.999	1352							0.000	0.999
25	0.924	0.939	1113							0.000	0.939
26	0.898	0.933	1213							0.000	0.933
27	0.997	0.923	1128							0.000	0.923
28	1.167	1.036	1274							0.000	1.036
29	1.058	1.398	1412							0.000	1.398
30	1.039	1.541	1832							0.000	1.541
31	1.097	1.412	1674							0.000	1.412
TOTAL	28.682	39.739		2.925	0.000	0.000	0.000	0.000	0.000	0.000	36.814
AVERAGE	0.925	1.282	1569	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.188
MAXIMUM	1.167	1.541	2442	1.175	0.000	0.000	0.000	0.000	0.000	0.000	1.541
MINIMUM	0.038	0.923	1113	0.583	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DAYS	31	31		3	0	0	0	0	0	0	29

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL FEBRUARY 2021

Discharge Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	1.094	1.428	1651							0.000	1.428
2	1.101	1.480	1490							0.000	1.480
3	1.114	1.504	1524							0.000	1.504
4	1.054	1.517	1612							0.000	1.517
5	1.017	1.445	1477							0.000	1.445
6	1.033	1.405	1413							0.000	1.405
7	1.061	1.378	1382							0.000	1.378
8	0.978	1.102	1146							0.000	1.102
9	0.933	1.095	1243							0.000	1.095
10	0.964	1.102	1233							0.000	1.102
11	1.031	1.065	1168							0.000	1.065
12	1.081	1.104	1190							0.000	1.104
13	1.164	1.138	1082							0.000	1.138
14	1.166	1.169	1175							0.000	1.169
15	1.304	1.181	1017							0.000	1.181
16	1.186	1.205	1086							0.000	1.205
17	1.100	1.242	1235							0.000	1.242
18	1.125	1.247	1248							0.000	1.247
19	1.160	1.247	1199							0.000	1.247
20	1.234	1.245	1112							0.000	1.245
21	1.184	1.256	1248							0.000	1.256
22	1.111	1.259	1331							0.000	1.259
23	1.087	1.261	1314							0.000	1.261
24	1.072	1.248	1415							0.000	1.248
25	1.037	1.203	1306							0.000	1.203
26	1.008	1.227	1266							0.000	1.227
27	1.023	1.254	1307							0.000	1.254
28	1.056	1.264	1296							0.000	1.264
TOTAL	30.478	35.271		0.000	0.000	0.000	0.000	0.000	0.000	0.000	35.271
AVERAGE	1.089	1.260	1292	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.260
MAXIMUM	1.304	1.517	1651	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.517
MINIMUM	0.933	1.065	1017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.065
DAYS	28	28	28	0	0	0	0	0	0	0	28

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL MARCH 2021

Discharge Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	1.004	1.265	1244							0.000	1.265
2	0.988	1.263	1283							0.000	1.263
3	0.959	1.263	1246							0.000	1.263
4	0.945	1.243	1324							0.000	1.243
5	1.051	0.810	1105							0.000	0.810
6	1.185	0.802	867							0.000	0.802
7	1.163	0.860	981							0.000	0.860
8	1.091	0.961	926							0.000	0.961
9	1.094	1.087	982							0.000	1.087
10	1.093	1.195	1153							0.000	1.195
11	1.047	1.293	1272							0.000	1.293
12	1.031	1.372	1305							0.000	1.372
13	1.036	1.428	1373							0.000	1.428
14	1.035	1.285	1370							0.000	1.285
15	1.073	1.392	1361							0.000	1.392
16	1.018	1.297	1346							0.000	1.297
17	0.999	1.067	1202							0.000	1.067
18	0.984	0.818	991							0.000	0.818
19	0.975	0.812	919							0.000	0.812
20	1.045	0.878	891							0.000	0.878
21	1.076	0.959	923							0.000	0.959
22	1.005	1.042	991							0.000	1.042
23	0.989	1.110	1391							0.000	1.110
24	0.967	1.181	1231							0.000	1.181
25	0.956	1.057	1230							0.000	1.057
26	0.944	1.050	1207							0.000	1.050
27	0.949	0.819	1004							0.000	0.819
28	0.977	0.813	838							0.000	0.813
29	0.935	0.325	1016							0.000	0.325
30	0.920	0.000	0			No Discharge				0.000	0.000
31	0.913	0.468	1006							0.000	0.468
TOTAL	31.447	31.215		0.000	0.000	0.000	0.000	0.000	0.000	0.000	31.215
AVERAGE	1.014	1.007	1096	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.007
MAXIMUM	1.185	1.428	1391	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.428
MINIMUM	0.913	0.000	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DAYS	31	30		0	0	0	0	0	0	0	30
LBS/ACRE						0	0	0	0		

DAYS WITH NO DISCHARGE = 1

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL April 2021

Discharge Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.933	1.241	1470							0.000	1.241
2	0.940	1.309	1264							0.000	1.309
3	0.942	1.342	1331							0.000	1.342
4	0.972	1.252	1289							0.000	1.252
5	0.945	1.264	1635							0.000	1.264
6	0.916	1.191	1390							0.000	1.191
7	0.926	1.217	1315							0.000	1.217
8	0.921	1.154	1429							0.000	1.154
9	0.903	1.037	1164							0.000	1.037
10	0.916	0.970	996							0.000	0.970
11	0.941	0.970	1031							0.000	0.970
12	0.907	0.970	1009							0.000	0.970
13	0.882	0.971	1041							0.000	0.971
14	0.892	0.977	1024							0.000	0.977
15	0.887	0.975	1076							0.000	0.975
16	0.862	0.891	1260							0.000	0.891
17	0.999	0.808	874							0.000	0.808
18	0.919	0.811	875							0.000	0.811
19	0.895	0.813	809							0.000	0.813
20	0.880	0.809	777							0.000	0.809
21	0.876	0.804	842							0.000	0.804
22	0.857	0.803	824							0.000	0.803
23	0.858	0.802	824							0.000	0.802
24	0.889	0.798	915							0.000	0.798
25	0.962	0.793	1295							0.000	0.793
26	0.907	0.795	764							0.000	0.795
27	0.865	0.794	844							0.000	0.794
28	0.866	0.795	807							0.000	0.795
29	0.853	0.795	777							0.000	0.795
30	0.863	0.543	801							0.000	0.543
TOTAL	27.174	28.694		0.000	0.000	0.000	0.000	0.000	0.000	0.000	28.694
AVERAGE	0.906	0.956	1058	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.956
MAXIMUM	0.999	1.342	1635	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.342
MINIMUM	0.853	0.543	764	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.543
DAYS	30	30		0	0	0	0	0	0	0	30

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL May 2021

Discharge Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.925	0.000	0		No Discharge					0.000	0.000
2	0.964	0.000	0		No Discharge					0.000	0.000
3	0.934	0.306	1219			0.306				0.306	0.000
4	0.913	0.895	1265			0.758		0.137		0.895	0.000
5	0.884	0.887	1163			0.698		0.189		0.887	0.000
6	0.854	0.866	1099			0.702		0.164		0.866	0.000
7	0.845	0.783	1060		0.385	0.336		0.062		0.398	0.000
8	0.861	0.740	863		0.740					0.000	0.000
9	0.886	0.730	913		0.730					0.000	0.000
10	0.878	0.926	1185		0.292	0.466		0.168		0.634	0.000
11	0.853	0.976	1173			0.811		0.165		0.976	0.000
12	0.852	1.000	1122			0.832		0.168		1.000	0.000
13	0.855	1.003	1140			0.840		0.163		1.003	0.000
14	0.851	0.839	1737		0.413	0.378		0.048		0.426	0.000
15	0.856	0.763	976		0.763					0.000	0.000
16	0.893	0.761	914		0.761					0.000	0.000
17	0.999	0.984	1121		0.286	0.522		0.176		0.698	0.000
18	0.842	0.960	1200			0.782		0.178		0.960	0.000
19	0.837	0.993	1154			0.824		0.169		0.993	0.000
20	0.845	0.974	1125			0.806		0.168		0.974	0.000
21	0.815	0.653	1340		0.187	0.412		0.054		0.466	0.000
22	0.830	0.346	654		0.346					0.000	0.000
23	0.896	0.344	685		0.344					0.000	0.000
24	0.852	0.813	1123		0.130	0.509		0.174		0.683	0.000
25	0.838	0.954	1106			0.781		0.173		0.954	0.000
26	0.841	0.956	1090			0.787		0.169		0.956	0.000
27	0.835	0.955	1583			0.793		0.162		0.955	0.000
28	0.823	0.802	1040		0.393	0.362		0.047		0.409	0.000
29	0.802	0.755	839		0.755					0.000	0.000
30	0.794	0.747	811		0.747					0.000	0.000
31	0.877	0.748	852		0.748					0.000	0.000
TOTAL	26.830	23.459		0.000	8.020	12.705	0.000	2.734	0.000	15.439	0.000
AVERAGE	0.865	0.757	1018	0.000	0.000	0.000	0.000	0.000	0.000	0.498	0.000
MAXIMUM	0.999	1.003	1737	0.000	0.763	0.840	0.000	0.189	0.000	1.003	0.000
MINIMUM	0.794	0.000	0	0.000	0.130	0.000	0.000	0.047	0.000	0.000	0.000
DAYS	31	29	29	0	16	20	0	19	0	20	0

DAYS WITH NO DISCHARGE = 2

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL June 2021

Discharge Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.845	0.968	1188		0.272	0.528		0.168		0.696	0.000
2	0.834	0.991	1158			0.826		0.165		0.991	0.000
3	0.822	0.984	1266			0.809		0.175		0.984	0.000
4	0.828	0.827	1191		0.398	0.381		0.048		0.429	0.000
5	0.838	0.765	964		0.765					0.000	0.000
6	0.868	0.760	866		0.760					0.000	0.000
7	0.861	0.939	1214		0.287	0.496		0.156		0.652	0.000
8	0.837	0.969	1140			0.797		0.172		0.969	0.000
9	0.836	0.968	1174			0.799		0.169		0.968	0.000
10	0.824	0.971	1153			0.806		0.165		0.971	0.000
11	0.832	0.862	1080		0.509	0.304		0.049		0.353	0.000
12	0.862	0.821	844		0.821					0.000	0.000
13	0.932	0.820	953		0.820					0.000	0.000
14	0.905	0.977	1250		0.366	0.431		0.180		0.611	0.000
15	0.842	0.978	1136			0.804		0.174		0.978	0.000
16	0.856	0.988	1154			0.796		0.192		0.988	0.000
17	0.999	0.960	1506			0.787		0.173		0.960	0.000
18	0.864	0.833	1105		0.416	0.368		0.049		0.417	0.000
19	0.801	0.770	909		0.770					0.000	0.000
20	0.844	0.766	779		0.766					0.000	0.000
21	0.844	0.790	817		0.288	0.502				0.502	0.000
22	0.828	0.804	812			0.804				0.804	0.000
23	0.834	0.790	810			0.790				0.790	0.000
24	0.826	0.781	794			0.781				0.781	0.000
25	0.813	0.636	1205		0.330	0.306				0.306	0.000
26	0.816	0.636	826		0.636					0.000	0.000
27	0.858	0.635	758		0.635					0.000	0.000
28	0.834	0.244	689		0.244					0.000	0.000
29	0.813	0.000	0		Shut down to clean CCB					0.000	0.000
30	0.824	0.000	0		Shut down to clean CCB					0.000	0.000
TOTAL	25.420	23.233		0.000	9.083	12.115	0.000	2.035	0.000	14.150	0.000
AVERAGE	0.847	0.774	958	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MAXIMUM	0.999	0.991	1506	0.000	0.821	0.826	0.000	0.192	0.000	0.991	0.000
MINIMUM	0.801	0.000	0	0.000	0.244	0.304	0.000	0.048	0.000	0.000	0.000
DAYS	30	28		0	17	19	0	14	0	19	0

DAYS WITH NO DISCHARGE = 2

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL JULY 2021

Discharge Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.825	0.583	1172			0.223		0.360		0.583	0.000
2	0.803	0.783	912		0.450			0.333		0.333	0.000
3	0.795	0.723	897		0.723					0.000	0.000
4	0.785	0.722	868		0.722					0.000	0.000
5	0.858	0.719	769		0.719					0.000	0.000
6	0.820	0.589	1442		0.270			0.319		0.319	0.000
7	0.838	0.801	963			0.369		0.432		0.801	0.000
8	0.816	0.815	866			0.424		0.391		0.815	0.000
9	0.806	0.816	1102		0.430	0.173		0.213		0.386	0.000
10	0.809	0.815	900		0.815					0.000	0.000
11	0.851	0.816	977		0.816					0.000	0.000
12	0.827	0.870	806		0.167	0.415		0.288		0.703	0.000
13	0.808	0.740	833			0.345		0.395		0.740	0.000
14	0.804	0.715	822			0.326		0.389		0.715	0.000
15	0.806	0.864	902			0.472		0.392		0.864	0.000
16	0.794	0.704	942		0.296	0.241		0.167		0.408	0.000
17	0.999	0.547	744		0.547					0.000	0.000
18	0.830	0.539	796		0.539					0.000	0.000
19	0.822	0.787	1003		0.205	0.387	0.126	0.069		0.582	0.000
20	0.807	0.952	1042			0.631	0.201	0.120		0.952	0.000
21	0.825	1.110	1208			0.719	0.285	0.106		1.110	0.000
22	0.810	1.164	1213			0.680	0.388	0.096		1.164	0.000
23	0.801	0.795	1148		0.244	0.347	0.178	0.026		0.551	0.000
24	0.802	0.549	707		0.549					0.000	0.000
25	0.834	0.549	827		0.549					0.000	0.000
26	0.818	0.663	796		0.194	0.469				0.469	0.000
27	0.799	1.168	1410			1.033		0.135		1.168	0.000
28	0.798	1.154	1281			1.024		0.130		1.154	0.000
29	0.801	1.011	1182			0.869		0.142		1.011	0.000
30	0.784	0.740	1187		0.378	0.309		0.053		0.362	0.000
31	0.791	0.544	750		0.544					0.000	0.000
TOTAL	25.366	24.347		0.000	9.157	9.456	1.178	4.556	0.000	15.190	0.000
AVERAGE	0.818	0.785	983	0.000	0.000	0.498	0.236	0.000	0.000	0.490	0.000
MAXIMUM	0.999	1.168	1442	0.000	0.816	1.033	0.388	0.432	0.000	1.168	0.000
MINIMUM	0.784	0.539	707	0.000	0.167	0.173	0.126	0.026	0.000	0.000	0.000
DAYS	31	31		0	19	19	5	20	0	21	0

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL August 2021

Discharge Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.824	0.544	730		0.544					0.000	0.000
2	0.820	0.801	1080		0.317	0.250		0.234		0.484	0.000
3	0.805	0.846	1160			0.756		0.090		0.846	0.000
4	0.810	0.878	1151			0.796		0.082		0.878	0.000
5	0.804	0.852	1188			0.761		0.091		0.852	0.000
6	0.810	0.720	1134		0.358	0.329		0.033		0.362	0.000
7	0.809	0.661	767		0.661					0.000	0.000
8	0.864	0.660	758		0.660					0.000	0.000
9	0.827	0.903	1141		0.248	0.546		0.109		0.655	0.000
10	0.806	0.905	1118			0.804		0.101		0.905	0.000
11	0.815	0.861	1112			0.767		0.094		0.861	0.000
12	0.813	0.879	1232			0.787		0.092		0.879	0.000
13	0.800	0.765	1080		0.384	0.345		0.036		0.381	0.000
14	0.817	0.738	830		0.738					0.000	0.000
15	0.859	0.735	831		0.735					0.000	0.000
16	0.832	0.928	1116		0.276	0.549		0.103		0.652	0.000
17	0.813	0.894	1099			0.805		0.089		0.894	0.000
18	0.806	0.869	1130			0.783		0.086		0.869	0.000
19	0.800	0.862	1115			0.768		0.094		0.862	0.000
20	0.808	0.743	952		0.384	0.322		0.037		0.359	0.000
21	0.805	0.740	872		0.740					0.000	0.000
22	0.836	0.735	741		0.735					0.000	0.000
23	0.818	0.927	1130		0.277	0.491		0.159		0.650	0.000
24	0.813	0.896	1124			0.734		0.162		0.896	0.000
25	0.798	0.885	1140			0.734		0.151		0.885	0.000
26	0.792	0.886	1121			0.728		0.158		0.886	0.000
27	0.805	0.774	1080		0.401	0.306		0.067		0.373	0.000
28	0.822	0.769	773		0.769					0.000	0.000
29	0.893	0.765	859		0.765					0.000	0.000
30	0.824	1.016	1164		0.288	0.560		0.168		0.728	0.000
31	0.800	0.971	1109			0.815		0.156		0.971	0.000
TOTAL	25.348	25.408		0.000	9.280	13.736	0.000	2.392	0.000	16.128	0.000
AVERAGE	0.818	0.820	1019	0.000	0.000	0.000	0.000	0.000	0.000	0.520	0.000
MAXIMUM	0.893	1.016	1232	0.000	0.769	0.815	0.000	0.234	0.000	0.971	0.000
MINIMUM	0.792	0.544	730	0.000	0.248	0.250	0.000	0.033	0.000	0.000	0.000
DAYS	31	31		0	18	22	0	22	0	22	0

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL September 2021

Discharge Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.817	0.964	1101			0.796		0.168		0.964	0.000
2	0.819	0.954	1100			0.797		0.157		0.954	0.000
3	0.811	0.813	1079		0.395	0.353		0.065		0.418	0.000
4	0.822	0.758	721		0.758					0.000	0.000
5	0.838	0.757	829		0.757					0.000	0.000
6	0.899	0.754	734		0.754					0.000	0.000
7	0.805	0.900	1224		0.284	0.444		0.172		0.616	0.000
8	0.806	0.826	1059			0.651		0.175		0.826	0.000
9	0.806	0.795	906			0.625		0.170		0.795	0.000
10	0.794	0.716	1037		0.373	0.278		0.065		0.343	0.000
11	0.815	0.719	798		0.719					0.000	0.000
12	0.877	0.719	733		0.719					0.000	0.000
13	0.827	0.873	1130		0.268	0.462		0.143		0.605	0.000
14	0.813	0.850	1271			0.687		0.163		0.850	0.000
15	0.809	0.839	1195			0.674		0.165		0.839	0.000
16	0.793	0.723	797			0.641		0.082		0.723	0.000
17	0.790	0.709	1067		0.370	0.276		0.063		0.339	0.000
18	0.840	0.708	776		0.708					0.000	0.000
19	0.883	0.711	748		0.711					0.000	0.000
20	0.831	0.884	1192		0.266	0.463		0.155		0.618	0.000
21	0.789	0.795	1034			0.662		0.133		0.795	0.000
22	0.794	0.834	1052			0.703		0.131		0.834	0.000
23	0.796	0.837	1054			0.693		0.144		0.837	0.000
24	0.795	0.760	1080		0.390	0.315		0.055		0.370	0.000
25	0.810	0.751	754		0.751					0.000	0.000
26	0.863	0.745	724		0.745					0.000	0.000
27	0.830	0.889	1106		0.281	0.450		0.158		0.608	0.000
28	0.814	0.886	1122			0.749		0.137		0.886	0.000
29	0.807	0.858	1073			0.732		0.126		0.858	0.000
30	0.784	0.852	1070			0.720		0.132		0.852	0.000
TOTAL	24.577	24.179		0.000	9.249	12.171	0.000	2.759	0.000	14.930	0.000
AVERAGE	0.819	0.806	986	0	0.544	0.580	0.000	0.131	0.000	0.498	0.000
MAXIMUM	0.899	0.964	1271	0.000	0.758	0.797	0.000	0.175	0.000	0.964	0.000
MINIMUM	0.784	0.708	721	0.000	0.266	0.276	0.000	0.055	0.000	0.000	0.000
DAYS	30	30		0	17	21	0	21	0	21	0

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL OCTOBER 2021

Discharge Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.787	0.772	1088		0.399	0.331		0.042		0.373	0.000
2	0.795	0.738	712		0.738					0.000	0.000
3	0.854	0.731	723		0.731					0.000	0.000
4	0.803	0.891	1088		0.276	0.485		0.130		0.615	0.000
5	0.787	0.860	1067			0.723		0.137		0.860	0.000
6	0.793	0.849	1057			0.714		0.135		0.849	0.000
7	0.790	0.830	1108			0.703		0.127		0.830	0.000
8	0.773	0.796	1040		0.451	0.313		0.032		0.345	0.000
9	0.804	0.833	818		0.833					0.000	0.000
10	0.845	0.820	823		0.820					0.000	0.000
11	0.812	0.815	841		0.815					0.000	0.000
12	0.802	0.916	1377		0.312	0.478		0.126		0.604	0.000
13	0.791	0.906	1072			0.759		0.147		0.906	0.000
14	0.783	0.863	1068			0.732		0.131		0.863	0.000
15	0.792	0.769	1074		0.384	0.342		0.043		0.385	0.000
16	0.792	0.738	746		0.738					0.000	0.000
17	0.874	0.744	811		0.744					0.000	0.000
18	0.811	0.897	1069		0.276	0.481		0.140		0.621	0.000
19	0.786	0.886	1177			0.744		0.142		0.886	0.000
20	0.820	0.966	1135			0.772		0.194		0.966	0.000
21	0.833	0.837	1084			0.686		0.151		0.837	0.000
22	0.855	0.748	1089		0.420	0.328				0.328	0.000
23	0.841	0.777	829		0.777					0.000	0.000
24	0.951	0.772	790		0.772					0.000	0.000
25	0.890	0.843	973		0.291	0.552				0.552	0.000
26	0.855	0.809	957			0.809				0.809	0.000
27	0.850	0.819	982			0.819				0.819	0.000
28	0.816	0.831	967			0.831				0.831	0.000
29	0.797	0.686	959		0.334	0.352				0.352	0.000
30	0.860	0.642	728		0.642					0.000	0.000
31	0.853	0.636	772		0.636					0.000	0.000
TOTAL	24.708	25.020		0.000	11.389	11.954	0.000	1.677	0.000	13.631	0.000
AVERAGE	0.824	0.807	969	0.000	0.000	0.598	0.000	0.000	0.000	0.440	0.000
MAXIMUM	0.951	0.966	1377	0.000	0.833	0.831	0.000	0.194	0.000	0.966	0.000
MINIMUM	0.773	0.636	712	0.000	0.276	0.313	0.000	0.032	0.000	0.000	0.000
DAYS	31	31		0	20	20	0	14	0	20	0

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL NOVEMBER 2021

Discharge Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.918	1.198	1472		0.291	Started River Discharge				0.000	0.907
2	0.849	1.326	1354							0.000	1.326
3	0.840	1.302	1329							0.000	1.302
4	0.869	1.298	1315							0.000	1.298
5	0.866	1.288	1763							0.000	1.288
6	0.899	1.289	1344							0.000	1.289
7	0.937	1.236	1300							0.000	1.236
8	0.817	1.153	1295							0.000	1.153
9	0.850	1.195	1280							0.000	1.195
10	0.811	1.200	1345							0.000	1.200
11	0.835	1.204	1310							0.000	1.204
12	0.788	1.203	1326							0.000	1.203
13	0.811	1.095	1291							0.000	1.095
14	0.860	1.106	1224							0.000	1.106
15	0.827	1.066	1279							0.000	1.066
16	0.831	1.036	1182							0.000	1.036
17	0.803	1.036	1184							0.000	1.036
18	0.787	1.038	1246							0.000	1.038
19	0.777	1.038	1192							0.000	1.038
20	0.815	1.041	1118							0.000	1.041
21	0.828	1.009	1220							0.000	1.009
22	0.798	1.004	1190							0.000	1.004
23	0.792	0.984	1144							0.000	0.984
24	0.804	0.911	1194							0.000	0.911
25	0.824	0.857	1148							0.000	0.857
26	0.758	0.850	1218							0.000	0.850
27	0.781	0.837	1143							0.000	0.837
28	0.831	0.675	1060							0.000	0.675
29	0.785	0.600	672							0.000	0.600
30	0.773	0.603	723							0.000	0.603
TOTAL	24.764	31.678		0.000	0.291	0.000	0.000	0.000	0.000	0.000	31.387
AVERAGE	0.825	1.056	1229	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.046
MAXIMUM	0.937	1.326	1763	0.000	0.291	0.000	0.000	0.000	0.000	0.000	1.326
MINIMUM	0.758	0.600	672	0.000	0.291	0.000	0.000	0.000	0.000	0.000	0.600
DAYS	30	30	30	0	1	0	0	0	0	1	30

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL DECEMBER 2021

Discharge Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.805	0.619	707		0.369			Shut down river at 1:00		0.000	0.250
2	0.788	0.709	800		0.709					0.000	0.000
3	0.783	0.758	886		0.758					0.000	0.000
4	0.802	0.766	831		0.766					0.000	0.000
5	0.866	0.758	832		0.758					0.000	0.000
6	0.819	0.751	776		0.751					0.000	0.000
7	0.829	0.908	977		0.504	0.404				0.404	0.000
8	0.806	1.063	1120			1.063				1.063	0.000
9	0.803	1.061	1247			1.061				1.061	0.000
10	0.784	0.956	1154			0.956				0.956	0.000
11	0.828	0.866	948		0.536	0.330				0.330	0.000
12	0.917	0.859	854		0.859					0.000	0.000
13	0.961	0.980	1077		0.322			Start river at 9:00 am.		0.000	0.658
14	0.909	1.058	986							0.000	1.058
15	0.897	1.063	1020							0.000	1.063
16	0.951	1.054	1006							0.000	1.054
17	0.891	1.059	1005							0.000	1.059
18	0.892	1.055	1088							0.000	1.055
19	0.909	1.058	1070							0.000	1.058
20	0.869	1.064	1100							0.000	1.064
21	0.873	1.059	1119							0.000	1.059
22	0.910	1.055	1102							0.000	1.055
23	0.988	1.045	954							0.000	1.045
24	1.012	1.030	995							0.000	1.030
25	0.952	1.032	959							0.000	1.032
26	1.022	1.028	953							0.000	1.028
27	1.076	1.020	938							0.000	1.020
28	1.016	1.028	1036							0.000	1.028
29	1.034	1.022	969							0.000	1.022
30	0.983	1.023	946							0.000	1.023
31	0.991	1.027	949							0.000	1.027
TOTAL	27.966	29.834		0.000	6.332	3.814	0.000	0.000	0.000	3.814	19.688
AVERAGE	0.902	0.962	981	0.000	0.000	0.000	0.000	0.000	0.000	0.123	0.635
MAXIMUM	1.076	1.064	1247	0.000	0.859	1.063	0.000	0.000	0.000	1.063	1.064
MINIMUM	0.783	0.619	707	0.000	0.322	0.330	0.000	0.000	0.000	0.000	0.000
DAYS	31	31		0	10	5	0	0	0	5	20

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

ANNUAL MONTHLY AVERAGES 2021

	MONTHLY TESTS EFF-001 DISCHARGE TO RIVER									LND-001 , REC-001 TO PERC PONDS and LAND							
January	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	0.08	0.82	0.86	110	6	ND	ND	ND	0.51	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
February	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	0.08	1.40	2.6	76	6.3	DNQ .16	ND	ND	DNQ .39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
March	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	0.08	1.20	1.8	98	5.7	ND	ND	ND	DNQ .27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
April	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	0.16	1.20	0.9	68	5.8	ND	ND	ND	DNQ .22	N/A	240	1	5.9	ND	N/A	N/A	N/A
May	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.3	210	0.5	0.45	ND	28	43	220
June	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.60	260	ND	0.25	ND	30	46	260
July	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ND	260	1.2	0.24	ND	32	45	270
August	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.00	270	0.6	0.13	ND	33	48	270
September	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.60	280	3.3	0.37	ND	32	45	300
October	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.10	270	0.2	0.39	ND	31	44	280
November	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	0.11	1.80	0.9	70	7.5	ND	ND	ND	DNQ .28	N/A	290	1.8	0.9	N/A	N/A	N/A	N/A
December	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	0.22	2.80	1.2	120	7.7	ND	ND	ND	DNQ .22	1.10	270	2.8	1.2	ND	31	43	280

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: January 2021

	INFLUENT	EFFLUENT	EFFLUENT			INFLUENT MONITORING		EFFLUENT MONITORING								RSW-001				RSW-002			
	FLOW	FLOW	MAXIMUM	RIVER	RIVER	B.O.D.	TSS		(C°)	B.O.D.	TSS		RIVER	SETTLEABLE	TOTAL								
DATE	M.G.D.	M.G.D.	GPM	CFS	Dilution	mg/L	mg/L	pH	TEMP	mg/L	mg/L	CL_2 RES.	CL_2 RES	SOLIDS	COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	0.882	1.175	1380	Land Application				7.2	11.6			3.4											
2	0.897	1.167	1336	Land Application				7.3	11.7			3.2											
3	0.945	1.160	1326	Land Application				7.1	12.3			3.4											
4	0.975	1.327	2442	910	167			7.1	14.3			4.3	0.00		<1.8	8:30	7.3	10.3	11.2	8:20	7.3	10.6	10.5
5	0.930	1.243	1557	4200	1211			7.2	11.0			1.5	0.00										
6	0.924	1.255	1417	1780	564			7.2	11.6			2.6	0.00										
7	0.917	1.377	1607	1700	475			7.2	11.8			3.0	0.00										
8	0.933	1.470	1758	1440	368	420	320	7.1	11.8	8.3	2.6	2.5	0.00	<0.1									
9	0.930	1.473	1852	1910	463			7.1	10.9			2.6	0.00										
10	0.038	1.467	1738	1290	333			7.1	11.8			2.4	0.00										
11	0.946	1.476	1824	1150	283			7.2	12.0			2.1	0.00		<1.8								
12	0.987	1.472	1848	862	209			7.1	13.3			1.9	0.00			14:30	6.7	13.3	10.9	14:40	6.8	13.3	10.7
13	1.041	1.458	1684	3900	1040			7.3	14.5			2.1	0.00										
14	0.974	1.468	1611	3090	861			7.1	13.3			2.0	0.00										
15	0.938	1.475	1679	1700	454	410	250	7.1	13.2	6.8	2.0	2.1	0.00	<0.1									
16	0.939	1.471	1704	1170	308			7.2	12.7			2.2	0.00										
17	0.957	1.387	1658	870	236			7.1	12.9			2.2	0.00										
18	0.955	1.340	1715	687	180			7.1	12.1			2.7	0.00										
19	0.897	1.342	1616	555	154			7.3	13.3			1.9	0.00		<1.8								
20	0.875	1.226	1758	472	121			7.3	12.1			2.2	0.00			8:00	7.2	9.9	11.7	8:10	7.3	10.4	10.7
21	0.875	1.112	1334	412	139			7.1	12.1			3.4	0.00										
22	0.883	1.110	1409	398	127	230	210	7.1	12.6	8.3	3.2	2.9	0.00	<0.1									
23	0.908	1.107	1376	362	118			7.2	11.5			3.2	0.00										
24	0.956	0.999	1352	324	108			7.2	11.5			3.2	0.00										
25	0.924	0.939	1113	366	148			6.9	11.1			2.4	0.00		<1.8								
26	0.898	0.933	1213	328	121			7.2	11.4			2.3	0.00			14:30	6.8	9.9	11.1	14:40	7.1	10.5	9.4
27	0.997	0.923	1128	793	316			7.1	10.5			2.4	0.00										
28	1.167	1.036	1274	2140	754			6.9	11.7			2.3	0.00										
29	1.058	1.398	1412	1980	629	280	220	6.9	15.0	7.3	2.4	1.9	0.00	<0.1									
30	1.039	1.541	1832	1180	289			7.0	10.7			2.0	0.00										
31	1.097	1.412	1674	960	257			7.0	11.0			2.1	0.00										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
0.08	0.82	0.86	110	5.70	ND	ND	ND	0.51	N/A

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MONTHLY RIVER RSW-

TDS	Hardness	Ammonia	Conductivity	Turbidity
86	60	ND	125.3	11.2

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
89	60	ND	132.2	10.5

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
1/14/2021	Rainbow Trout	Pass

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	7.15

	BOD	BOD	BOD	TSS	TSS	TSS
BOD & TSS	mg/L	LBS/DAY	% Removal	mg/L	LBS/DAY	% Removal
30 DAY AVERAGE	8	87	98	3	29	99

EFF-001
REC-001
Quarterly
Permit Exceedance

Remarks: 31

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: February 2021

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	RIVER Dilution	INFLUENT MONITORING B.O.D. mg/L	INFLUENT MONITORING TSS mg/L	EFFLUENT MONITORING pH	(C°) TEMP	B.O.D. mg/L	TSS mg/L	CL_2 RES.	RIVER CL_2 RES	SETTLEABLE SOLIDS	TOTAL COLIFORM	RSW-001 TIME	RSW-001 PH	RSW-001 TEMP	RSW-001 D.O.	RSW-002 TIME	RSW-002 PH	RSW-002 TEMP	RSW-002 D.O.
1	1.094	1.428	1651	3570	971			7.1	12.7			1.9	0.00		<1.8	13:30	6.7	11.0	13.0	13:40	6.7	11.2	12.9
2	1.101	1.480	1490	6740	2030			6.8	12.4			1.8	0.00										
3	1.114	1.504	1524	4480	1319			7.0	12.1			2.0	0.00										
4	1.054	1.517	1612	4450	1239			6.9	13.0			1.9	0.00										
5	1.017	1.445	1477	3200	972	200	150	6.9	13.0	4.6	2.0	2.0	0.00	<0.1									
6	1.033	1.405	1413	2410	766			7.1	12.1			2.0	0.00										
7	1.061	1.378	1382	1990	646			7.2	12.1			2.2	0.00										
8	0.978	1.102	1146	1640	642			7.2	12.1			2.1	0.00		<1.8								
9	0.933	1.095	1243	1360	491			7.1	12.6			1.1	0.00			14:05	6.5	11.3	11.3	14:17	6.6	10.5	11.3
10	0.964	1.102	1233	1160	422			7.2	12.7			2.6	0.00										
11	1.031	1.065	1168	1040	400			7.2	13.0			2.1	0.00										
12	1.081	1.104	1190	3520	1328	430	180	7.1	13.3	3.0	2.0	2.0	0.00	<0.1									
13	1.164	1.138	1082	5570	2311			7.0	13.7			1.9	0.00										
14	1.166	1.169	1175	5130	1960			6.8	13.4			2.0	0.00										
15	1.304	1.181	1017	10300	4546			6.8	13.9			1.8	0.00										
16	1.186	1.205	1086	7570	3129			7.0	13.3			2.0	0.00		<1.8	16:00	6.6	13.3	11.0	16:15	6.8	12.6	10.8
17	1.100	1.242	1235	5020	1825			7.3	13.2			1.6	0.00										
18	1.125	1.247	1248	3780	1360			7.1	13.6			1.7	0.00										
19	1.160	1.247	1199	5570	2085	220	160	7.0	13.5	ND	3.2	1.7	0.00	<0.1									
20	1.234	1.245	1112	6580	2656			7.1	13.4			1.9	0.00										
21	1.184	1.256	1248	4940	1777			6.8	12.9			1.9	0.00										
22	1.111	1.259	1331	3900	1315			7.0	13.4			1.6	0.00		2								
23	1.087	1.261	1314	3300	1127			7.2	13.1			1.7	0.00			16:05	6.6	14.2	11.0	16:20	6.7	12.7	10.8
24	1.072	1.248	1415	2760	876			7.2	13.6			1.8	0.00										
25	1.037	1.203	1306	2350	808			7.0	13.0			1.7	0.00										
26	1.008	1.227	1266	2010	713	300	230	7.2	13.4	5.0	3.2	1.6	0.00	<0.1									
27	1.023	1.254	1307	1710	587			7.1	12.1			1.8	0.00										
28	1.056	1.264	1296	1490	516			7.1	12.1			1.8	0.00										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
0.08	1.40	2.6	76	6.3	DNQ .16	ND	ND	DNQ .39	N/A

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
57	59	ND	69	86.1

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
77	57	ND	92	88

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
2/25/2021	Rainbow Trout	Pass

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	7.15

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	3	24	99	3	27	99

EFF-001
REC-001
Quarterly
Permit Exceedance

Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: March 2021

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	RIVER Dilution	INFLUENT MONITORING B.O.D. mg/L	INFLUENT MONITORING TSS mg/L	EFFLUENT MONITORING pH	(C°) TEMP	B.O.D. mg/L	TSS mg/L	CL_2 RES.	RIVER CL_2 RES	SETTLEABLE SOLIDS	TOTAL COLIFORM	RSW-001 TIME	RSW-001 PH	RSW-001 TEMP	RSW-001 D.O.	RSW-002 TIME	RSW-002 PH	RSW-002 TEMP	RSW-002 D.O.
1	1.004	1.265	1244	1330	480			7.2	13.0			1.8	0.00		2.0	14:30	6.7	11.0	11.2	14:40	6.8	10.4	11.3
2	0.988	1.263	1283	1190	416			7.2	13.0			1.8	0.00										
3	0.959	1.263	1246	1070	385			7.3	12.8			1.8	0.00										
4	0.945	1.243	1324	994	337			7.1	13.6			1.9	0.00										
5	1.051	0.810	1105	908	369	360	290	7.2	13.9	5.2	3.6	1.6	0.00	<0.1									
6	1.185	0.802	867	2850	1475			7.1	12.1			2.0	0.00										
7	1.163	0.860	981	1820	833			7.2	13.0			2.3	0.00										
8	1.091	0.961	926	1470	713			7.3	13.5			2.1	0.00		<1.8								
9	1.094	1.087	982	1390	635			7.3	13.1			1.7	0.00			13:30	6.6	12.4	11.6	13:40	6.6	11.7	11.4
10	1.093	1.195	1153	2150	837			7.1	12.5			1.5	0.00										
11	1.047	1.293	1272	1940	685			7.3	13.0			1.6	0.00										
12	1.031	1.372	1305	1660	571	300	240	7.2	13.0	4.6	3.4	1.4	0.00	<0.1									
13	1.036	1.428	1373	1560	510			7.2	13.1			1.8	0.00										
14	1.035	1.285	1370	1460	478			7.3	13.1			1.8	0.00										
15	1.073	1.392	1361	2330	768			7.2	12.6			1.5	0.00		<1.8								
16	1.018	1.297	1346	1950	650			7.2	12.2			1.2	0.00			7:50	6.9	9.0	12.2	8:00	7.0	8.7	11.9
17	0.999	1.067	1202	1730	646			7.3	13.0			1.5	0.00										
18	0.984	0.818	991	1580	716			7.2	14.0			2.3	0.00										
19	0.975	0.812	919	2250	1099	230	180	7.1	13.8	6.6	4.8	1.9	0.00	<0.1									
20	1.045	0.878	891	2620	1320			7.1	12.7			1.9	0.00										
21	1.076	0.959	923	2460	1196			7.2	13.2			2.0	0.00										
22	1.005	1.042	991	2090	947			7.0	13.2			1.9	0.00		<1.8								
23	0.989	1.110	1391	1900	613			7.2	13.5			1.7	0.00			14:20	6.8	13.1	8.8	14:30	6.8	12.7	11.4
24	0.967	1.181	1231	1650	602			7.2	13.6			1.5	0.00										
25	0.956	1.057	1230	1490	544			7.1	13.4			2.0	0.00										
26	0.944	1.050	1207	1340	498	380	180	7.3	13.5	4.8	3.6	1.8	0.00	<0.1									
27	0.949	0.819	1004	1200	536			7.2	14.0			2.1	0.00										
28	0.977	0.813	838	1110	595			7.3	14.2			2.3	0.00										
29	0.935	0.325	1016	1040	459			7.2	13.2			2.2	0.00		<1.8								
30	0.920	0.000	0	969	No Discharge											15:50	6.7	13.9	10.7	16:00	6.9	12.8	10.9
31	0.913	0.468	1006	916	409			7.1	15.4			0.9	0.00										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
0.08	1.20	1.8	98	5.7	ND	ND	ND	DNQ .27	N/A

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
94	64	ND	103	7.5

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
86	64	ND	107	8.1

ACUTE TOXICITY			Quarterly Tests	Value in ug/l
Date	Species	TST Pass/Fail	Bromoform	ND
3/4/2021	Rainbow Trout	Pass	Chloroform	7.15

	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
BOD & TSS 30 DAY AVERAGE	5	33	98	4	24	98

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____

Remarks: Discrepancy with CFS due to USGS making major changes w/ meter

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: April 2021

	INFLUENT	EFFLUENT	EFFLUENT			INFLUENT MONITORING		EFFLUENT MONITORING								RSW-001				RSW-002			
	FLOW	FLOW	MAXIMUM	RIVER	RIVER	B.O.D.	TSS		(C°)	B.O.D.	TSS		RIVER	SETTLEABLE	TOTAL								
DATE	M.G.D.	M.G.D.	GPM	CFS	Dilution	mg/L	mg/L	pH	TEMP	mg/L	mg/L	CL_2 RES.	CL_2 RES	SOLIDS	COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	0.933	1.241	1470	857	262			7.3	14.6			0.7	0.00										
2	0.940	1.309	1264	808	287	330	280	7.3.	15.4	3.3	3.0	0.6	0.00	<0.1									
3	0.942	1.342	1331	637	215			7.2	14.9			1.0	0.00										
4	0.972	1.252	1289	564	196			7.1	14.7			1.2	0.00										
5	0.945	1.264	1635	527	145			7.0	14.7			1.1	0.00		<1.8	13:20	7.4	15.2	11.2	13:30	7.5	14.8	10.9
6	0.916	1.191	1390	507	164			7.2	14.8			0.9	0.00										
7	0.926	1.217	1315	445	152			7.2	15.0			1.0	0.00										
8	0.921	1.154	1429	405	127			7.3	15.1			1.0	0.00										
9	0.903	1.037	1164	376	145	320	240	7.4	15.1	3.8	2.2	1.3	0.00	<0.1									
10	0.916	0.970	996	368	166			7.2	14.7			1.4	0.00										
11	0.941	0.970	1031	352	153			7.0	16.4			1.9	0.00										
12	0.907	0.970	1009	333	148			7.3	14.7			1.8	0.00		<1.8								
13	0.882	0.971	1041	325	140			7.2	15.5			1.3	0.00			15:50	6.7	16.0	10.5	16:00	7.0	15.3	9.2
14	0.892	0.977	1024	318	139			7.4	15.2			1.6	0.00										
15	0.887	0.975	1076	304	127			7.4	15.9			1.6	0.00										
16	0.862	0.891	1260	289	103	300	220	7.4	16.0	4.3	3.2	1.7	0.00	<0.1									
17	0.999	0.808	874	285	146			7.3	15.9			2.0	0.00										
18	0.919	0.811	875	271	139			7.3	15.6			2.2	0.00										
19	0.895	0.813	809	260	144			7.4	14.8			2.1	0.00		<1.8								
20	0.880	0.809	777	253	146			7.4	15.7			2.2	0.00			11:10	6.9	15.3	10.2	11:20	7.0	15.8	8.2
21	0.876	0.804	842	247	132			7.3	16.0			2.0	0.00										
22	0.857	0.803	824	240	131			7.5	16.1			2.4	0.00										
23	0.858	0.802	824	227	124	320	220	7.3	15.7	6.3	3.8	2.2	0.00	<0.1									
24	0.889	0.798	915	221	108			7.3	16.3			2.4	0.00										
25	0.962	0.793	1295	233	123			7.4	16.3			2.5	0.00										
26	0.907	0.795	764	282	166			7.2	16.4			2.6	0.00		<1.8								
27	0.865	0.794	844	274	146			7.5	16.2			2.3	0.00			16:20	6.8	18.1	9.9	16:35	6.8	17.7	9.8
28	0.866	0.795	807	253	141			7.2	16.1			2.2	0.00										
29	0.853	0.795	777	247	143			7.4	16.3			2.2	0.00										
30	0.863	0.543	801	230	129	370	260	7.5	16.2	5.0	3.4	2.2	0.00	<0.1									

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
0.16	1.2	0.9	68	5.8	ND	ND	ND	.22 DNQ	N/A

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
110	68	ND	129	1.8

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
140	73	ND	160	2.1

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
4/8/2021	Rainbow Trout	Pass

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	1.17

	BOD	BOD	BOD	TSS	TSS	TSS
BOD & TSS	mg/L	LBS/DAY	% Removal	mg/L	LBS/DAY	% Removal
30 DAY AVERAGE	4	36	99	3	25	99

EFF-001
REC-001
Quarterly
Permit Exceedance

Remarks: 34

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: May 2021

	INFLUENT	EFFLUENT	EFFLUENT			INFLUENT MONITORING		EFFLUENT MONITORING								RSW-001				RSW-002			
DATE	FLOW M.G.D.	FLOW M.G.D.	MAXIMUM GPM	RIVER CFS	RIVER Dilution	B.O.D. mg/L	TSS mg/L	pH	(C°) TEMP	B.O.D. mg/L	TSS mg/L	CL_2 RES.	RIVER CL_2 RES	SETTLEABLE SOLIDS	TOTAL COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	0.925	0.000	0	N/A	N/A		No Discharge						N/A										
2	0.964	0.000	0	N/A	N/A		No Discharge						N/A										
3	0.934	0.306	1219	N/A	N/A			7.3	16.4			0.9	N/A			11:00	6.7	16.7	10.4	11:10	7.0	16.9	10.6
4	0.913	0.895	1265	N/A	N/A			7.3	16.7			7.2	N/A		<1.8								
5	0.884	0.887	1163	N/A	N/A			7.3	17.2			1.8	N/A										
6	0.854	0.866	1099	N/A	N/A			7.3	17.6			1.6	N/A										
7	0.845	0.783	1060	N/A	N/A	390	290	7.4	17.7	5.4	2.5	1.3	N/A	<0.1									
8	0.861	0.740	863	N/A	N/A			7.4	16.6			1.8	N/A										
9	0.886	0.730	913	N/A	N/A			7.3	16.8			1.9	N/A										
10	0.878	0.926	1185	N/A	N/A			7.3	16.7			1.3	N/A		<1.8								
11	0.853	0.976	1173	N/A	N/A			7.3	16.9			1.6	N/A										
12	0.852	1.000	1122	N/A	N/A			7.2	17.0			1.3	N/A			16:00	7.3	17.5	10.3	16:10	7.4	18.3	11.5
13	0.855	1.003	1140	N/A	N/A			7.1	16.8			1.3	N/A										
14	0.851	0.839	1737	N/A	N/A	330	230	7.3	12.4	5.2	3.0	1.1	N/A	<0.1									
15	0.856	0.763	976	N/A	N/A			7.1	16.7			1.4	N/A										
16	0.893	0.761	914	N/A	N/A			7.2	16.9			1.5	N/A										
17	0.999	0.984	1121	N/A	N/A			7.3	17.4			1.5	N/A		<1.8								
18	0.842	0.960	1200	N/A	N/A			7.3	16.7			1.2	N/A			10:40	6.7	15.5	9.8	10:45	7.0	16.1	10.0
19	0.837	0.993	1154	N/A	N/A			7.3	16.8			1.2	N/A										
20	0.845	0.974	1125	N/A	N/A			7.2	16.5			1.2	N/A										
21	0.815	0.653	1340	N/A	N/A	230	190	7.2	17.7	3.1	4.4	1.1	N/A	<0.1									
22	0.830	0.346	654	N/A	N/A			7.3	16.7			3.9	N/A										
23	0.896	0.344	685	N/A	N/A			7.1	16.6			3.4	N/A										
24	0.852	0.813	1123	N/A	N/A			7.2	16.2			3.8	N/A		<1.8								
25	0.838	0.954	1106	N/A	N/A			7.2	18.0			1.5	N/A			15:03	7.3	19.3	9.3	15:10	7.5	19.6	11.1
26	0.841	0.956	1090	N/A	N/A			7.2	17.7			1.5	N/A										
27	0.835	0.955	1583	N/A	N/A			7.2	17.5			1.8	N/A										
28	0.823	0.802	1040	N/A	N/A	300	220	7.2	16.8	5.2	1.0	1.7	N/A	<0.1									
29	0.802	0.755	839	N/A	N/A			7.0	18.1			1.5	N/A										
30	0.794	0.747	811	N/A	N/A			7.2	17.8			1.5	N/A										
31	0.877	0.748	852	N/A	N/A			7.1	18.4			1.5	N/A										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
2.30	210	0.48	0.45	ND	28	43	220

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
	Rainbow Trout	N/A

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	1.17

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
100	85	ND	159	0.6

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
120	84	ND	174	0.6

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	5	31	98	3	17	99

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature: _____

Remarks: 35

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: June 2021

	INFLUENT	EFFLUENT	EFFLUENT			INFLUENT MONITORING		EFFLUENT MONITORING								RSW-001				RSW-002			
	FLOW	FLOW	MAXIMUM	RIVER	RIVER	B.O.D.	TSS		(C°)	B.O.D.	TSS		RIVER	SETTLEABLE	TOTAL								
DATE	M.G.D.	M.G.D.	GPM	CFS	Dilution	mg/L	mg/L	pH	TEMP	mg/L	mg/L	CL_2 RES.	CL_2 RES	SOLIDS	COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	0.845	0.968	1188	N/A	N/A			7.3	19.2			1.2	N/A		<1.8	10:35	7.8	19.2	9.1	10:45	7.7	20.1	9.2
2	0.834	0.991	1158	N/A	N/A			7.2	18.5			1.4	N/A										
3	0.822	0.984	1266	N/A	N/A			7.1	18.5			1.3	N/A										
4	0.828	0.827	1191	N/A	N/A	210	69	7.1	18.4	2.5	2.4	1.0	N/A	<0.1									
5	0.838	0.765	964	N/A	N/A			7.2	19.0			1.3	N/A										
6	0.868	0.760	866	N/A	N/A			7.0	18.4			1.9	N/A										
7	0.861	0.939	1214	N/A	N/A			7.3	18.1			1.4	N/A		<1.8								
8	0.837	0.969	1140	N/A	N/A			7.2	17.9			1.2	N/A			15:45	7.3	21.0	10.1	15:50	7.7	21.2	11.0
9	0.836	0.968	1174	N/A	N/A			7.2	18.1			1.3	N/A										
10	0.824	0.971	1153	N/A	N/A			7.2	18.5			1.5	N/A										
11	0.832	0.862	1080	N/A	N/A	260	120	7.2	18.5	2.7	1.2	1.0	N/A	<0.1									
12	0.862	0.821	844	N/A	N/A			7.3	18.6			0.9	N/A										
13	0.932	0.820	953	N/A	N/A			7.2	19.6			1.2	N/A										
14	0.905	0.977	1250	N/A	N/A			7.1	19.5			1.0	N/A		<1.8								
15	0.842	0.978	1136	N/A	N/A			7.1	20.0			1.4	N/A			8:40	7.5	20.8	11.1	8:50	7.6	21.1	10.7
16	0.856	0.988	1154	N/A	N/A			7.0	19.2			0.8	N/A										
17	0.999	0.960	1506	N/A	N/A			7.0	19.2			1.9	N/A										
18	0.864	0.833	1105	N/A	N/A	230	240	7.2	19.0	3.9	3.8	1.7	N/A	<0.1									
19	0.801	0.770	909	N/A	N/A			7.1	19.7			2.5	N/A										
20	0.844	0.766	779	N/A	N/A			7.2	19.6			2.5	N/A										
21	0.844	0.790	817	N/A	N/A			7.1	19.3			2.7	N/A		<1.8								
22	0.828	0.804	812	N/A	N/A			7.1	19.3			2.8	N/A			15:00	7.7	20.3	9.9	15:10	7.9	22.1	11.7
23	0.834	0.790	810	N/A	N/A			7.2	19.2			2.7	N/A										
24	0.826	0.781	794	N/A	N/A			7.2	19.5			2.7	N/A										
25	0.813	0.636	1205	N/A	N/A	220	100	7.2	19.3	3.2	1.6	1.8	N/A	<0.1									
26	0.816	0.636	826	N/A	N/A			7.2	19.3			6.3	N/A										
27	0.858	0.635	758	N/A	N/A			7.3	19.6			4.1	N/A										
28	0.834	0.244	689	N/A	N/A			7.5	20.1			2.0	N/A		<1.8								
29	0.813	0.000	0	N/A	N/A		Shut down to clean CCB						N/A			8:30	7.3	19.1	9.3	8:40	7.3	20.5	9.0
30	0.824	0.000	0	N/A	N/A		Shut down to clean CCB						N/A										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
1.60	260	ND	0.25	ND	30	46	260

ACUTE TOXICITY		
Date	Species	% Survivial
	Rainbow Trout	N/A

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	1.17

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
120	99	ND	165	1

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
170	97	ND	158	0.9

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	3	20	99	2	15	98

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____

Remarks: 36

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: July 2021

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	RIVER Dilution	INFLUENT MONITORING B.O.D. mg/L	INFLUENT MONITORING TSS mg/L	EFFLUENT MONITORING pH	EFFLUENT MONITORING (C°) TEMP	EFFLUENT MONITORING B.O.D. mg/L	EFFLUENT MONITORING TSS mg/L	EFFLUENT MONITORING CL_2 RES.	EFFLUENT MONITORING RIVER CL_2 RES	EFFLUENT MONITORING SETTLEABLE SOLIDS	EFFLUENT MONITORING TOTAL COLIFORM	RSW-001 TIME	RSW-001 PH	RSW-001 TEMP	RSW-001 D.O.	RSW-002 TIME	RSW-002 PH	RSW-002 TEMP	RSW-002 D.O.
1	0.825	0.583	1172	N/A	N/A			7.3	20.0			1.1	N/A										
2	0.803	0.783	912	N/A	N/A	200	64	7.4	20.0	3.3	2.0	1.7	N/A	<0.1									
3	0.795	0.723	897	N/A	N/A			7.4	20.1			1.7	N/A										
4	0.785	0.722	868	N/A	N/A			7.4	20.5			1.7	N/A										
5	0.858	0.719	769	N/A	N/A			7.4	20.2			1.5	N/A										
6	0.820	0.589	1442	N/A	N/A			7.4	19.7			1.6	N/A		<1.8	15:00	8.0	22.1	9.8	15:10	8.1	21.5	10.0
7	0.838	0.801	963	N/A	N/A			7.1	19.3			0.8	N/A										
8	0.816	0.815	866	N/A	N/A			7.3	19.3			1.6	N/A										
9	0.806	0.816	1102	N/A	N/A	190	60	7.3	19.0	5.0	1.4	0.9	N/A	<0.1									
10	0.809	0.815	900	N/A	N/A			7.2	19.6			2.0	N/A										
11	0.851	0.816	977	N/A	N/A			7.1	19.5			1.4	N/A										
12	0.827	0.870	806	N/A	N/A			7.4	18.9			1.3	N/A		<1.8								
13	0.808	0.740	833	N/A	N/A			7.4	19.1			1.6	N/A			15:55	7.4	20.1	9.2	16:05	7.5	21.4	11.3
14	0.804	0.715	822	N/A	N/A			7.3	18.1			1.3	N/A										
15	0.806	0.864	902	N/A	N/A			7.4	18.6			1.5	N/A										
16	0.794	0.704	942	N/A	N/A	300	210	7.4	18.9	2.9	2.4	1.2	N/A	<0.1									
17	0.791	0.547	744	N/A	N/A			7.5	18.6			2.0	N/A										
18	0.830	0.539	796	N/A	N/A			7.4	18.8			1.0	N/A										
19	0.822	0.787	1003	N/A	N/A			7.2	18.6			0.8	N/A		<1.8								
20	0.807	0.952	1042	N/A	N/A			7.3	18.8			1.1	N/A			14:31	7.5	21.2	9.6	14:40	8.2	22.4	9.4
21	0.825	1.110	1208	N/A	N/A			7.3	18.7			1.1	N/A										
22	0.810	1.164	1213	N/A	N/A			7.2	18.7			1.0	N/A										
23	0.801	0.795	1148	N/A	N/A	380	280	7.4	19.5	3.4	3.0	1.9	N/A	<0.1									
24	0.802	0.549	707	N/A	N/A			7.4	19.3			1.0	N/A										
25	0.834	0.549	827	N/A	N/A			7.4	19.2			1.1	N/A										
26	0.818	0.663	796	N/A	N/A			7.4	18.6			3.1	N/A		<1.8								
27	0.799	1.168	1410	N/A	N/A			7.2	19.5			2.2	N/A			16:10	7.3	20.1	10.1	16:20	7.6	21.5	9.9
28	0.798	1.154	1281	N/A	N/A			7.1	18.5			1.6	N/A										
29	0.801	1.011	1182	N/A	N/A			7.2	18.5			2.6	N/A										
30	0.784	0.740	1187	N/A	N/A	200	280	7.3	18.6	4.8	2.8	2.3	N/A	<0.1									
31	0.791	0.544	750	N/A	N/A			7.3	18.9			1.9	N/A										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
ND	260	1.20	0.24	ND	32	45	270

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
130	110	ND	213	0.6

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
1400	350	ND	789	0.4

ACUTE TOXICITY		
Date	Species	% Survivial
	Rainbow Trout	N/A

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	3.23

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	4	25	98	2	15	98

EFF-001
REC-001
Quarterly
Permit Exceedance

Remarks: 37

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: August 2021

	INFLUENT	EFFLUENT	EFFLUENT			INFLUENT MONITORING		EFFLUENT MONITORING								RSW-001				RSW-002			
	FLOW	FLOW	MAXIMUM	RIVER	RIVER	B.O.D.	TSS		(C°)	B.O.D.	TSS		RIVER	SETTLEABLE	TOTAL								
DATE	M.G.D.	M.G.D.	GPM	CFS	Dilution	mg/L	mg/L	pH	TEMP	mg/L	mg/L	CL_2 RES.	CL_2 RES	SOLIDS	COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	0.824	0.544	730	N/A	N/A			7.4	19.0			1.7	N/A										
2	0.820	0.801	1080	N/A	N/A			7.4	18.3			1.9	N/A		<1.8	10:40	7.5	18.7	9.1	10:50	7.7	19.7	9.7
3	0.805	0.846	1160	N/A	N/A			7.4	19.1			2.1	N/A										
4	0.810	0.878	1151	N/A	N/A			7.4	17.9			1.6	N/A										
5	0.804	0.852	1188	N/A	N/A			7.3	18.8			2.0	N/A										
6	0.810	0.720	1134	N/A	N/A	360	210	7.3	19.2	5.5	3.8	2.1	N/A	<0.1									
7	0.809	0.661	767	N/A	N/A			7.4	19.5			2.0	N/A										
8	0.864	0.660	758	N/A	N/A			7.4	19.8			2.2	N/A										
9	0.827	0.903	1141	N/A	N/A			7.3	19.3			2.5	N/A		<1.8								
10	0.806	0.905	1118	N/A	N/A			7.2	20.7			1.8	N/A			15:40	7.6	20.8	8.5	15:50	8.4	21.6	9.9
11	0.815	0.861	1112	N/A	N/A			7.2	18.2			1.7	N/A										
12	0.813	0.879	1232	N/A	N/A			7.4	18.6			2.1	N/A										
13	0.800	0.765	1080	N/A	N/A	230	100	7.5	18.8	4.8	2.4	1.8	N/A	<0.1									
14	0.817	0.738	830	N/A	N/A			7.1	18.8			1.7	N/A										
15	0.859	0.735	831	N/A	N/A			7.1	19.1			1.5	N/A										
16	0.832	0.928	1116	N/A	N/A			7.4	19.0			2.4	N/A		<1.8								
17	0.813	0.894	1099	N/A	N/A			7.3	19.2			2.0	N/A			11:25	7.9	21.6	7.6	11:35	7.7	21.3	7.6
18	0.806	0.869	1130	N/A	N/A			7.5	18.7			2.0	N/A										
19	0.800	0.862	1115	N/A	N/A			7.4	18.6			2.2	N/A										
20	0.808	0.743	952	N/A	N/A	340	170	7.3	19.1	6.5	2.6	1.7	N/A	<0.1									
21	0.805	0.740	872	N/A	N/A			7.2	19.2			1.8	N/A										
22	0.836	0.735	741	N/A	N/A			7.3	19.1			2.0	N/A										
23	0.818	0.927	1130	N/A	N/A			7.2	18.5			2.3	N/A		<1.8								
24	0.813	0.896	1124	N/A	N/A			7.3	18.1			1.8	N/A			15:25	7.3	20.7	8.9	15:35	7.2	20.4	10.3
25	0.798	0.885	1140	N/A	N/A			7.0	18.3			1.9	N/A										
26	0.792	0.886	1121	N/A	N/A			7.1	19.0			2.0	N/A										
27	0.805	0.774	1080	N/A	N/A	260	150	7.2	19.2	5.0	1.6	1.9	N/A	<0.1									
28	0.822	0.769	773	N/A	N/A			7.2	19.2			1.8	N/A										
29	0.893	0.765	859	N/A	N/A			7.2	19.1			1.7	N/A										
30	0.824	1.016	1164	N/A	N/A			7.4	18.1			2.4	N/A		<1.8								
31	0.800	0.971	1109	N/A	N/A			7.4	18.5			1.9	N/A										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
1.00	270	0.63	0.13	ND	33	48	270

ACUTE TOXICITY		
Date	Species	% Survivial
	Rainbow Trout	NA

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	3.23

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
140	120	ND	205	0.5

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
4700	900	ND	1404	0.8

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	5	34	98	3	16	98

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____

Remarks: 38

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: September 2021

	INFLUENT	EFFLUENT	EFFLUENT			INFLUENT MONITORING		EFFLUENT MONITORING								RSW-001				RSW-002			
DATE	FLOW M.G.D.	FLOW M.G.D.	MAXIMUM GPM	RIVER CFS	RIVER Dilution	B.O.D. mg/L	TSS mg/L	pH	(C°) TEMP	B.O.D. mg/L	TSS mg/L	CL_2 RES.	RIVER CL_2 RES	SETTLEABLE SOLIDS	TOTAL COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	0.817	0.964	1101	N/A	N/A			7.4	18.4			1.8	N/A			13:20	7.4	20.1	8.9	13:30	7.3	19.0	8.0
2	0.819	0.954	1100	N/A	N/A			7.3	18.1			1.9	N/A										
3	0.811	0.813	1079	N/A	N/A	250	200	7.4	18.2	4.3	3.0	1.9	N/A	<0.1									
4	0.822	0.758	721	N/A	N/A			7.3	18.1			1.7	N/A										
5	0.838	0.757	829	N/A	N/A			7.3	18.0			1.7	N/A										
6	0.899	0.754	734	N/A	N/A			7.2	18.3			1.6	N/A										
7	0.805	0.900	1224	N/A	N/A			7.3	17.8			1.9	N/A		<1.8	15:30	8.0	20.9	8.4	15:40	8.1	20.1	10.4
8	0.806	0.826	1059	N/A	N/A			7.3	18.1			1.6	N/A										
9	0.806	0.795	906	N/A	N/A			7.3	18.2			1.6	N/A										
10	0.794	0.716	1037	N/A	N/A	260	150	7.3	18.5	5.3	3.0	1.8	N/A	<0.1									
11	0.815	0.719	798	N/A	N/A			7.3	18.6			1.7	N/A										
12	0.877	0.719	733	N/A	N/A			7.2	18.5			1.6	N/A										
13	0.827	0.873	1130	N/A	N/A			7.4	18.3			1.8	N/A		<1.8								
14	0.813	0.850	1271	N/A	N/A			7.3	17.9			0.4	N/A			11:20	7.5	18.6	8.3	11:30	7.3	19.1	7.4
15	0.809	0.839	1195	N/A	N/A			7.3	17.5			1.7	N/A										
16	0.793	0.723	797	N/A	N/A			7.3	17.6			1.5	N/A										
17	0.790	0.709	1067	N/A	N/A	290	180	7.2	17.5	5.2	2.8	1.7	N/A	<0.1									
18	0.840	0.708	776	N/A	N/A			7.3	18.4			1.7	N/A										
19	0.883	0.711	748	N/A	N/A			7.3	18.0			2.1	N/A										
20	0.831	0.884	1192	N/A	N/A			7.2	17.7			2.6	N/A		<1.8								
21	0.789	0.795	1034	N/A	N/A			7.4	17.7			1.2	N/A			15:20	7.3	21.9	9.4	15:30	6.9	21.2	9.9
22	0.794	0.834	1052	N/A	N/A			7.0	18.0			1.1	N/A										
23	0.796	0.837	1054	N/A	N/A			7.4	18.1			1.8	N/A										
24	0.795	0.760	1080	N/A	N/A	280	220	7.3	18.0	6.1	2.8	1.7	N/A	<0.1									
25	0.810	0.751	754	N/A	N/A			7.2	18.4			1.4	N/A										
26	0.863	0.745	724	N/A	N/A			7.2	18.4			1.5	N/A										
27	0.830	0.889	1106	N/A	N/A			7.2	18.4			1.3	N/A		<1.8								
28	0.814	0.886	1122	N/A	N/A			7.4	17.5			1.4	N/A			11:15	7.4	16.9	8.9	11:30	7.1	16.7	5.7
29	0.807	0.858	1073	N/A	N/A			7.1	17.4			1.0	N/A										
30	0.784	0.852	1070	N/A	N/A			7.1	17.5			1.2	N/A										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
1.60	280	3.30	0.37	ND	32	45	300

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
140	120	ND	192	0.9

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
620	300	ND	1241	1.4

ACUTE TOXICITY		
Date	Species	% Survivial
N/A	Rainbow Trout	N/A

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	3.23

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	5	33	98	3	18	98

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____ Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: October 2021

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	RIVER Dilution	INFLUENT MONITORING B.O.D. mg/L	INFLUENT MONITORING TSS mg/L	EFFLUENT MONITORING pH	EFFLUENT MONITORING (C°) TEMP	EFFLUENT MONITORING B.O.D. mg/L	EFFLUENT MONITORING TSS mg/L	EFFLUENT MONITORING CL_2 RES.	EFFLUENT MONITORING RIVER CL_2 RES	EFFLUENT MONITORING SETTLEABLE SOLIDS	EFFLUENT MONITORING TOTAL COLIFORM	RSW-001 TIME	RSW-001 PH	RSW-001 TEMP	RSW-001 D.O.	RSW-002 TIME	RSW-002 PH	RSW-002 TEMP	RSW-002 D.O.
1	0.787	0.772	1088	N/A	N/A	350	230	7.2	17.7	4.6	2.6	1.1	N/A	<0.1									
2	0.795	0.738	712	N/A	N/A			7.1	17.7			1.1	N/A										
3	0.854	0.731	723	N/A	N/A			7.2	17.4			1.0	N/A										
4	0.803	0.891	1088	N/A	N/A			7.2	16.9			1.1	N/A		2	15:00	7.5	17.7	10.0	15:10	7.2	16.9	9.0
5	0.787	0.860	1067	N/A	N/A			7.2	16.9			1.0	N/A										
6	0.793	0.849	1057	N/A	N/A			7.3	16.8			1.4	N/A										
7	0.790	0.830	1108	N/A	N/A			7.3	16.4			0.4	N/A										
8	0.773	0.796	1040	N/A	N/A	260	140	7.3	16.6	2.8	1.8	1.0	N/A	<0.1									
9	0.804	0.833	818	N/A	N/A			7.2	16.6			1.0	N/A										
10	0.845	0.820	823	N/A	N/A			7.3	16.3			1.1	N/A										
11	0.812	0.815	841	N/A	N/A			7.2	16.5			1.7	N/A										
12	0.802	0.916	1377	N/A	N/A			7.4	14.3			2.1	N/A		<1.8	10:10	7.6	14.3	9.3	10:20	7.5	13.0	8.2
13	0.791	0.906	1072	N/A	N/A			7.3	15.6			1.9	N/A										
14	0.783	0.863	1068	N/A	N/A			7.3	15.4			1.6	N/A										
15	0.792	0.769	1074	N/A	N/A	280	190	7.2	15.0	4.4	3.0	1.4	N/A	<0.1									
16	0.792	0.738	746	N/A	N/A			7.4	15.3			1.7	N/A										
17	0.874	0.744	811	N/A	N/A			7.4	15.4			1.4	N/A										
18	0.811	0.897	1069	N/A	N/A			7.3	15.1			2.0	N/A		<1.8								
19	0.786	0.886	1177	N/A	N/A			7.3	14.8			1.2	N/A			15:00	7.2	15.6	9.9	15:10	7.3	15.4	9.8
20	0.820	0.966	1135	N/A	N/A			7.1	16.6			1.9	N/A										
21	0.833	0.837	1084	N/A	N/A			7.2	15.2			1.9	N/A										
22	0.855	0.748	1089	N/A	N/A	240	130	7.2	15.6	3.1	2.8	1.4	N/A	<0.1									
23	0.841	0.777	829	N/A	N/A			7.2	15.8			1.2	N/A										
24	0.951	0.772	790	N/A	N/A			7.2	15.9			1.2	N/A										
25	0.890	0.843	973	N/A	N/A			7.2	14.7			1.4	N/A		<1.8								
26	0.855	0.809	957	N/A	N/A			7.3	15.2			1.2	N/A			16:00	6.9	13.8	10.4	16:10	7.1	14.3	10.1
27	0.850	0.819	982	N/A	N/A			7.1	15.5			1.0	N/A										
28	0.816	0.831	967	N/A	N/A			7.3	15.9			0.9	N/A										
29	0.797	0.686	959	N/A	N/A	240	140	7.2	16.2	2.6	4.0	2.2	N/A	<0.1									
30	0.860	0.642	728	N/A	N/A			7.1	16.5			2.1	N/A										
31	0.853	0.636	772	N/A	N/A			7.3	16.5			1.6	N/A										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
1.10	270	0.24	0.39	ND	31	44	280

ACUTE TOXICITY		
Date	Species	% Survivial
	Rainbow Trout	N/A

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	6.43

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
120	120	ND	183	0.6

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
2700	620	ND	868	1.3

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	4	24	99	3	16	98

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____

Remarks: River is low and flow not moving & water at RSW-02 stagnant and a lot of algea

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: November 2021

	INFLUENT	EFFLUENT	EFFLUENT			INFLUENT MONITORING		EFFLUENT MONITORING								RSW-001				RSW-002			
DATE	FLOW M.G.D.	FLOW M.G.D.	MAXIMUM GPM	RIVER CFS	RIVER Dilution	B.O.D. mg/L	TSS mg/L	pH	(C°) TEMP	B.O.D. mg/L	TSS mg/L	CL_2 RES.	RIVER CL_2 RES	SETTLEABLE SOLIDS	TOTAL COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	0.918	1.198	1472	596	182			7.3	16.7			2.0	ND		<1.8	14:45	6.7	15.9	9.7	14:55	6.7	16.5	9.8
2	0.849	1.326	1354	923	306			7.0	16.3			1.8	ND										
3	0.840	1.302	1329	774	261			6.9	16.7			2.3	ND										
4	0.869	1.298	1315	672	229			7.0	16.3			2.0	ND										
5	0.866	1.288	1763	2110	537	290	200	6.9	15.9	3.0	2.6	2.3	ND	<0.1									
6	0.899	1.289	1344	1740	581			7.0	15.4			2.3	ND										
7	0.937	1.236	1300	1650	570			7.1	14.4			2.4	ND										
8	0.817	1.153	1295	1300	451			7.1	14.0			2.6	ND		<1.8								
9	0.850	1.195	1280	1160	407			6.8	14.7			2.4	ND			15:20	6.7	14.4	10.5	15:30	6.7	13.9	9.2
10	0.811	1.200	1345	2300	768			6.9	14.6			2.7	ND										
11	0.835	1.204	1310	1910	654			7.0	16.5			2.4	ND										
12	0.788	1.203	1326	1500	508	290	150	6.9	15.1	2.2	4.0	2.7	ND	<0.1									
13	0.811	1.095	1291	1190	414			6.8	15.3			2.6	ND										
14	0.860	1.106	1224	969	355			6.9	15.1			2.7	ND										
15	0.827	1.066	1279	801	281			7.0	15.1			2.8	ND		<1.8								
16	0.831	1.036	1182	748	284			7.1	15.2			2.5	ND			14:30	6.7	14.1	10.2	14:40	6.8	13.9	9.4
17	0.803	1.036	1184	636	241			7.1	14.3			3.1	ND										
18	0.787	1.038	1246	598	215			7.0	14.6			3.1	ND										
19	0.777	1.038	1192	545	205	300	170	7.1	14.5	2.1	2.4	2.9	ND	<0.1									
20	0.815	1.041	1118	496	199			7.0	14.8			3.2	ND										
21	0.828	1.009	1220	452	166			7.1	13.3			3.4	ND										
22	0.798	1.004	1190	412	155			7.2	13.2			3.3	ND		<1.8								
23	0.792	0.984	1144	375	147			6.9	13.7			3.4	ND			15:00	6.8	14.2	9.8	15:10	6.8	14.2	9.2
24	0.804	0.911	1194	342	129	510	220	7.0	13.6	2.2	3.6	3.0	ND	<0.1									
25	0.824	0.857	1148	311	122			7.0	13.3			4.2	ND										
26	0.758	0.850	1218	284	105			7.2	13.9			4.4	ND										
27	0.781	0.837	1143	258	101			6.9	14.7			4.7	ND										
28	0.831	0.675	1060	238	101			7.2	14.8			4.4	ND										
29	0.785	0.600	672	238	159			7.1	14.6			5.4	ND		<1.8								
30	0.773	0.603	723	235	146			6.9	14.7			4.5	ND										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
0.11	1.8	0.9	70	7.5	ND	ND	ND	.28 DNQ	ND

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
N/A	290	1.8	0.9	N/A	N/A	N/A	N/A

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
96	70	ND	144	40.9

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
130	74	0.14	160	35

ACUTE TOXICITY

Date	Species	TST Pass/Fail
11/18/2021	Rainbow Trout	Pass

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	6.43

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	2	22	99	3	29	98

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____

Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: December 2021

	INFLUENT	EFFLUENT	EFFLUENT			INFLUENT MONITORING		EFFLUENT MONITORING								RSW-001				RSW-002			
	FLOW	FLOW	MAXIMUM	RIVER	RIVER	B.O.D.	TSS		(C°)	B.O.D.	TSS		RIVER	SETTLEABLE	TOTAL								
DATE	M.G.D.	M.G.D.	GPM	CFS	Dilution	mg/L	mg/L	pH	TEMP	mg/L	mg/L	CL_2 RES.	CL_2 RES	SOLIDS	COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	0.805	0.619	707	220	140			7.1	13.9			2.1	0.00			13:30	7.2	14.5	11.5	13:40	7.1	14.7	10.5
2	0.788	0.709	800	226	N/A			7.1	13.9			1.9	N/A										
3	0.783	0.758	886	220	N/A	300	200	7.0	13.8	2.4	5.2	1.1	N/A	<0.1									
4	0.802	0.766	831	217	N/A			7.1	13.7			1.6	N/A										
5	0.866	0.758	832	215	N/A			7.1	14.1			0.8	N/A										
6	0.819	0.751	776	215	N/A			7.1	13.5			2.1	N/A		<1.8								
7	0.829	0.908	977	223	N/A			7.2	14.0			1.3	N/A			15:20	6.9	12.1	12.9	15:30	7.5	12.6	11.0
8	0.806	1.063	1120	226	N/A			7.1	14.4			1.7	N/A										
9	0.803	1.061	1247	217	N/A			7.0	12.6			0.8	N/A										
10	0.784	0.956	1154	209	N/A	260	220	7.3	11.7	2.5	2.8	1.4	N/A	<0.1									
11	0.828	0.866	948	296	N/A			7.0	12.1			1.0	N/A										
12	0.917	0.859	854	404	N/A			7.2	12.7			0.9	N/A										
13	0.961	0.980	1077	931	388			7.2	12.4			1.7	0.00		<1.8								
14	0.909	1.058	986	2670	1215			7.1	12.3			2.1	0.00			15:10	6.8	9.7	11.2	15:20	7.1	10.7	11.3
15	0.897	1.063	1020	1300	572			7.2	11.4			1.8	0.00										
16	0.951	1.054	1006	2270	1013			7.1	11.5			2.0	0.00										
17	0.891	1.059	1005	1880	840	250	140	7.0	11.9	2.3	5.2	1.6	0.00	<0.1									
18	0.892	1.055	1088	1590	656			7.1	10.6			1.8	0.00										
19	0.909	1.058	1070	1400	587			7.0	11.4			2.2	0.00										
20	0.869	1.064	1100	1270	518			7.1	11.9			2.1	0.00		<1.8								
21	0.873	1.059	1119	1270	509			7.0	11.9			2.1	0.00			15:30	6.9	11.2	11.0	15:40	7.0	11.0	10.6
22	0.910	1.055	1102	1800	733	270	160	7.1	12.7	0.0	3.2	2.1	0.00	<0.1									
23	0.988	1.045	954	4830	2273			7.1	13.4			2.2	0.00										
24	1.012	1.030	995	7660	3456			7.1	12.2			1.9	0.00										
25	0.952	1.032	959	6280	2939			7.2	12.1			2.0	0.00										
26	1.022	1.028	953	5240	2468			7.1	11.6			2.1	0.00										
27	1.076	1.020	938	6400	3063			7.1	11.8			1.7	0.00										
28	1.016	1.028	1036	4020	1742			6.9	11.2			1.8	0.00		<1.8	11:30	6.6	7.8	11.3	11:39	6.6	8.2	11.4
29	1.034	1.022	969	3930	1820			7.0	11.4			1.7	0.00	<0.1									
30	0.983	1.023	946	3200	1518	340	250	7.0	10.7	2.6	3.8	1.7	0.00										
31	0.991	1.027	949	2660	1258			7.0	11.2			1.7	0.00										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
0.22	2.8	1.2	120	7.7	ND	ND	ND	.22 DNQ	N/A

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
1.10	270	2.80	1.20	ND	31	43	280

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
12/9/2021	Rainbow Trout	Pass

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	6.43

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
93	79	ND	110	1.7

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
180	90	1.1	265	1.8

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	2	16	99	4	32	98

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature: _____

Remarks: 42

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing
Average Annual 2021

	INFLUENT						EFFLUENT											RIVER RSW-001			RIVER RSW-002		
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL_2 Res	River CL_2 Res	Coliform	BOD	NFR	pH	Temp	D.O.	pH	Temp	D.O.
January	7.9	14.9	15.5	51	335	250	7.1	12.2	7.2	<0.1	1.69	1.2	2.5	0.0	<1.8	7.7	2.6	7.0	10.9	11.2	7.1	11.2	10.3
February	7.9	14.6	17.5	52	288	180	7.1	13.0	7.3	<0.1	2.07	1.7	1.9	0.0	<1.8	3.2	2.6	6.6	12.5	11.6	6.7	11.8	11.5
March	8.0	14.5	14.8	54	318	223	7.2	13.3	7.8	<0.1	2.22	1.8	1.8	0.0	<1.8	5.4	3.9	6.7	11.9	10.9	6.8	11.3	11.4
April	7.8	15.4	14.8	55	328	244	7.3	15.5	8.8	<0.1	2.02	1.7	1.7	0.0	<1.8	4.5	3.1	7.0	16.2	10.5	7.1	15.9	9.5
May	7.8	16.8	15.0	52	313	233	7.2	16.9	8.3	<0.1	0.04	0.6	1.9		<1.8	4.7	2.7	7.0	17.3	10.0	7.2	17.8	10.8
June	7.8	18.7	17.0	54	230	132	7.2	19.0	5.8	<0.1	0.13	0.9	1.9		<1.8	3.1	2.3	7.5	20.1	9.9	7.6	21.0	10.3
July	7.7	19.1	12.2	57	254	179	7.3	19.1	5.4	<0.1	2.36	1.3	1.5		<1.8	3.9	2.3	7.6	20.9	9.7	7.9	21.7	10.2
August	7.8	19.6	8.8	54	298	158	7.3	18.9	4.6	<0.1	2.71	1.3	2.0		<1.8	5.5	2.6	7.6	20.5	8.5	7.8	20.8	9.4
September	7.8	19.2	17.3	59	270	188	7.3	18.0	3.6	<0.1	3.81	2.0	1.6		<1.8	5.2	2.9	7.5	19.7	8.8	7.3	19.2	8.3
October	7.8	18.3	10.6	59	274	166	7.2	16.0	3.6	<0.1	2.42	1.7	1.4		<1.8	3.5	2.8	7.3	15.4	9.9	7.3	14.9	9.3
November	7.8	17.1	14.0	58	348	185	7.0	14.8	4.2	<0.1	2.55	1.7	3.1	0.0	<1.8	2.4	3.2	6.7	14.7	10.1	6.8	14.6	9.4
December	7.9	15.4	15.0	57	284	194	7.1	12.4	4.5	<0.1	1.93	2.4	1.7	0.0	<1.8	2.0	4.0	6.8	11.1	11.6	7.0	11.4	11.0
Average	7.9	17.0	14.4	55	295	194	7.2	15.8	5.9	<0.1	1.99	1.5	1.9			4.3	2.9	7.1	15.9	10.2	7.2	16.0	10.1
Maximum	7.9	14.9	15.5	51	348	250	7.1	12.2	7.2	<0.1	1.69	1.2	2.5			7.7	2.6	7.0	10.9	11.2	7.1	11.2	10.3
Minimum	7.7	14.5	8.8	51	230	132	7.0	12.2	3.6	<0.1	0.04	0.6	1.4			2.0	2.3	6.6	10.9	8.5	6.7	11.2	8.3

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

JANUARY 2021

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002				
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.	
1	8.4	15.9					7.2	11.6	6.8			1.2	3.4													weekend r
2	8.2	15.5					7.3	11.7	4.6			1.0	3.2													weekend r
3	7.4	15.0					7.1	12.3	6.9			1.1	3.4	Started River Discharge on 1/3/2021												weekend r
4	8.0	15.7		58			7.1	14.3	7.0		1.0	1.0	4.3	0.00	<1.8			8:30	7.3	10.3	11.2	8:20	7.3	10.6	10.5	start river d
5	7.8	14.9		60			7.2	11.0	7.3		0.6	1.1	1.5	0.00												
6	8.5	15.4		66			7.2	11.6	7.1		1.6	1.2	2.6	0.00												
7	7.6	14.2		36			7.2	11.8	7.5		1.8	0.9	3.0	0.00												
8	8.4	15.8	12	40	420	320	7.1	11.8	6.9	<0.1	1.2	0.9	2.5	0.00		8.3	2.6									
9	8.1	14.6					7.1	10.9	6.4			1.2	2.6	0.00												weekend r
10	7.4	14.2					7.1	11.8	7.0			1.3	2.4	0.00												weekend r
11	8.1	15.2		56			7.2	12.0	7.6		2.1	1.1	2.1	0.00	<1.8											
12	8.1	15.5		48			7.1	13.3	6.9		2.0	1.1	1.9	0.00				14:30	6.7	13.3	10.9	14:40	6.8	13.3	10.7	
13	8.1	15.5		46			7.3	14.5	7.8		1.9	1.0	2.1	0.00												
14	7.6	14.7		28			7.1	13.3	6.6		1.8	1.0	2.0	0.00												
15	8.3	15.9	13	52	410	250	7.1	13.2	6.8	<0.1	1.4	1.1	2.1	0.00		6.8	2									
16	7.5	14.4					7.2	12.7	6.5			1.3	2.2	0.00												weekend r
17	8.4	15.7					7.1	12.9	6.9			1.2	2.2	0.00												weekend r
18	7.4	14.2					7.1	12.1	6.7			1.5	2.7	0.00												holiday rou
19	8.2	15.2		66			7.3	13.3	6.8		1.7	1.1	1.9	0.00	<1.8											
20	8.3	15.0		74			7.3	12.1	7.8		1.2	1.2	2.2	0.00				8:00	7.2	9.9	11.7	8:10	7.3	10.4	10.7	
21	7.5	15.1		54			7.1	12.1	8.5		2.2	1.3	3.4	0.00												
22	8.2	15.5	7	36	230	210	7.1	12.6	7.1	<0.1	2.2	1.5	2.9	0.00		8.3	3.2									
23	8.0	14.5					7.2	11.5	7.2			1.5	3.2	0.00												weekend r
24	7.5	14.2					7.2	11.5	7.3			1.6	3.2	0.00												weekend r
25	7.7	14.4		52			6.9	11.1	7.4		2.4	1.5	2.4	0.00	<1.8											
26	7.6	14.0		40			7.2	11.4	7.5		2.2	1.2	2.3	0.00				14:30	6.8	9.9	11.1	14:40	7.1	10.5	9.4	
27	8.1	14.6		62			7.1	10.5	6.8		2.0	1.3	2.4	0.00												
28	8.0	13.7		54			6.9	11.7	7.8		1.1	1.3	2.3	0.00												
29	7.7	14.9	30	38	280	220	6.9	15.0	7.1	<0.1	1.6	1.1	1.9	0.00		7.3	2.4									
30	7.3	13.3					7.0	10.7	9.1			1.3	2.0	0.00												weekend r
31	7.7	14.0					7.0	11.0	9.1			1.3	2.1	0.00												weekend r
															MEDIAN											
Average	7.9	14.9	16	51	335	250	7.1	12.2	7.2	<0.1	1.7	1.2	2.5	0.0	<1.8	7.7	2.6	.	7.0	10.9	11.2		7.1	11.2	10.3	
Maximum	8.5	15.9	30	74	420	320	7.3	15.0	9.1	<0.1	2.4	1.6	4.3	0.0	<1.8	8.3	3.2		7.3	13.3	11.7		7.3	13.3	10.7	
Minimum	7.3	13.3	7	28	230	210	6.9	10.5	4.6	<0.1	0.6	0.9	1.5	0.0	<1.8	6.8	2.0		6.7	9.9	10.9		6.8	10.4	9.4	

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

February 2021

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002				
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL_2 Res	River CL_2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.	
1	8.2	14.5		62			7.1	12.7	8.3		1.8	1.2	1.9	0.00	<1.8			13:30	6.7	11.0	13.0	13:40	6.7	11.2	12.9	
2	7.6	14.9		58			6.8	12.4	8.0		1.9	1.5	1.8	0.00												
3	7.7	15.1		60			7.0	12.1	8.0		1.9	1.4	2.0	0.00												
4	7.8	14.3		38			6.9	13.0	7.4		1.1	1.0	1.9	0.00												
5	7.7	14.8	28	48	200	150	6.9	13.0	7.1	<0.1	1.2	1.2	2.0	0.00		4.6	2.0									
6	7.5	13.9					7.1	12.1	8.2			1.3	2.0	0.00												WEEKEND
7	8.0	13.9					7.2	12.1	8.7			1.2	2.2	0.00												WEEKEND
8	7.6	13.5		30			7.2	12.1	7.5		1.0	1.4	2.1	0.00	<1.8											
9	8.1	14.7		56			7.1	12.6	7.8		0.1	0.7	1.1	0.00				14:05	6.5	11.3	11.3	14:17	6.6	10.5	11.3	
10	8.5	15.7		76			7.2	12.7	7.6		2.3	2.0	2.6	0.00												
11	8.3	15.3		68			7.2	13.0	7.8		2.2	1.9	2.1	0.00												
12	8.4	15.6	24	72	430	180	7.1	13.3	6.8	<0.1	2.1	1.6	2.0	0.00		3.0	2.0									
13	7.9	14.2					7.0	13.7	6.4			1.6	1.9	0.00												WEEKEND
14	7.5	13.7					6.8	13.4	6.9			1.5	2.0	0.00												WEEKEND
15	7.2	13.8					6.8	13.9	5.7			1.9	1.8	0.00												WEEKEND
16	8.1	14.4		46			7.0	13.3	6.3		3.0	1.8	2.0	0.00	<1.8			16:00	6.6	13.3	11.0	16:15	6.8	12.6	10.8	
17	8.1	14.7		48			7.3	13.2	6.9		2.8	1.8	1.6	0.00												
18	8.0	15.0		48			7.1	13.6	7.2		2.7	1.9	1.7	0.00												
19	8.3	15.5	8	32	220	160	7.0	13.5	6.6	<0.1	2.2	1.8	1.7	0.00		0.0	3.2									
20	7.9	14.1					7.1	13.4	6.7			2.1	1.9	0.00												WEEKEND
21	7.2	13.5					6.8	12.9	7.2			2.1	1.9	0.00												WEEKEND
22	8.0	14.7		52			7.0	13.4	7.6		2.6	2.1	1.6	0.00	2.0											
23	7.8	15.2		54			7.2	13.1	8.2		2.5	1.9	1.7	0.00				16:05	6.6	14.2	11.0	16:20	6.7	12.7	10.8	
24	7.9	14.3		46			7.2	13.6	7.6		2.8	2.1	1.8	0.00												
25	8.0	14.7		62			7.0	13.0	7.7		2.8	2.0	1.7	0.00												
26	8.4	15.3	10	34	300	230	7.2	13.4	7.7	<0.1	2.2	2.3	1.6	0.00		5.0	3.2									
27	8.4	14.3					7.1	12.1	6.6			2.2	1.8	0.00												WEEKEND
28	8.4	14.2					7.1	12.1	7.0			2.0	1.8	0.00												WEEKEND
Average	7.9	14.6	18	52	288	180	7.1	13.0	7.3	<0.1	2.1	1.7	1.9	0.00	<1.8	3.2	2.6	.	6.6	12.5	11.6		6.7	11.8	11.5	
Maximum	8.5	15.7	28	76	430	230	7.3	13.9	8.7	<0.1	3.0	2.3	2.6	0.00	2.0	5.0	3.2		6.7	14.2	13.0		6.8	12.7	12.9	
Minimum	7.2	13.5	8	30	200	150	6.8	12.1	5.7	<0.1	0.1	0.7	1.1	0.00	<1.8	0.0	2.0		6.5	11.0	11.0		6.6	10.5	10.8	

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

March 2021

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002				
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.	
1	8.2	14.5		58			7.2	13.0	7.6		2.5	1.9	1.8	0.00	2.0			14:30	6.7	11.0	11.2	14:40	6.8	10.4	11.3	
2	8.0	14.3		42			7.2	13.0	7.5		3.0	2.0	1.8	0.00												
3	8.4	15.3		74			7.3	12.8	7.9		3.1	2.0	1.8	0.00												
4	8.0	14.8		58			7.1	13.6	8.8		2.7	1.9	1.9	0.00												
5	7.8	15.2	14	64	360	290	7.2	13.9	8.1	<0.1	2.9	2.2	1.6	0.00		5.2	3.6									
6	7.5	13.1					7.1	12.1	8.0			1.8	2.0	0.00												Weekend F
7	8.0	14.5					7.2	13.0	7.6			1.6	2.3	0.00												Weekend F
8	7.9	14.5		48			7.3	13.5	8.2		2.1	1.6	2.1	0.00	<1.8											
9	8.0	14.9		50			7.3	13.1	7.1		2.7	1.8	1.7	0.00				13:30	6.6	12.4	11.6	13:40	6.6	11.7	11.4	
10	8.3	15.1		54			7.1	12.5	7.4		2.1	1.8	1.5	0.00												
11	8.0	14.8		84			7.3	13.0	7.9		2.4	1.8	1.6	0.00												
12	8.1	14.6	4	38	300	240	7.2	13.0	7.8	<0.1	1.8	1.8	1.4	0.00		4.6	3.4									
13	8.5	14.6					7.2	13.1	8.8			1.7	1.8	0.00												Weekend F
14	7.3	13.8					7.3	13.1	8.9			1.9	1.8	0.00												Weekend F
15	8.0	14.4		44			7.2	12.6	7.2		1.9	1.7	1.5	0.00	<1.8											
16	8.1	14.4		56			7.2	12.2	7.7		1.7	1.6	1.2	0.00				7:50	6.9	9.0	12.2	8:00	7.0	8.7	11.9	
17	8.1	14.1		52			7.3	13.0	7.3		2.2	1.7	1.5	0.00												
18	8.0	14.9		46			7.2	14.0	7.5		2.9	2.1	2.3	0.00												
19	8.2	15.1	21	50	230	180	7.1	13.8	6.9	<0.1	1.9	1.9	1.9	0.00		6.6	4.8									
20	8.0	13.0					7.1	12.7	7.3			1.9	1.9	0.00												Weekend F
21	8.1	14.0					7.2	13.2	7.4			1.8	2.0	0.00												Weekend F
22	8.0	15.2		60			7.0	13.2	8.4		2.1	1.7	1.9	0.00	<1.8											
23	8.2	15.1		50			7.2	13.5	8.1		2.0	1.9	1.7	0.00				14:20	6.8	13.1	8.8	14:30	6.8	12.7	11.4	
24	7.9	14.9		46			7.2	13.6	7.9		1.7	1.6	1.5	0.00												
25	7.8	14.8		56			7.1	13.4	7.4		2.5	1.8	2.0	0.00												
26	7.5	13.9	20	58	380	180	7.3	13.5	7.8	<0.1	2.6	1.0	1.8	0.00		4.8	3.6									
27	7.5	13.8					7.2	14.0	8.2			1.7	2.1	0.00												Weekend F
28	8.1	13.8					7.3	14.2	8.2			2.1	2.3	0.00												Weekend F
29	8.1	14.8		52			7.2	13.2	7.8		1.7	1.6	2.2	0.00	<1.8											Stoped Dis
30	8.2	14.9		54							No Discharge							15:50	6.7	13.9	10.7	16:00	6.9	12.8	10.9	No Dischar
31	8.1	15.2		58			7.1	15.4	6.3		0.3	0.6	0.9	0.00												started dis
															MEDIAN											
Average	8.0	14.5	15	54	318	223	7.2	13.3	7.8	<0.1	2.2	1.8	1.8	0.0	<1.8	5.3	3.9	.	6.7	11.9	10.9		6.8	11.3	11.4	
Maximum	8.5	15.3	21	84	380	290	7.3	15.4	8.9	<0.1	3.1	2.2	2.3	0.0	2	6.6	4.8		6.9	13.9	12.2		7.0	12.8	11.9	
Minimum	7.3	13.0	4	38	230	180	7.0	12.1	6.3	<0.1	0.3	0.6	0.9	0.0	<1.8	4.6	3.4		6.6	9.0	8.8		6.6	8.7	10.9	

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

April 2021

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002			
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.
1	8.0	15.1		50			7.3	14.6	8.2		1.5	1.3	0.7	0.00											
2	7.7	14.8	11	36	330	280	7.3.	15.4	7.9	<0.1	1.1	1.5	0.6	0.00		3.3	3.0								
3	8.2	14.9					7.2	14.9	8.1			1.8	1.0	0.00											
4	8.1	14.8					7.1	14.7	7.8			1.8	1.2	0.00											
5	7.8	15.2		54			7.0	14.7	8.0		2.4	1.7	1.1	0.00	<1.8			13:20	7.4	15.2	11.2	13:30	7.5	14.8	10.9
6	7.9	15.3		58			7.2	14.8	9.2		2.1	2.0	0.9	0.00											
7	7.5	15.2		54			7.2	15.0	9.8		2.1	2.2	1.0	0.00											
8	7.8	15.6		56			7.3	15.1	8.8		1.5	1.5	1.0	0.00											
9	7.6	14.3	9	34	320	240	7.4	15.1	8.6	<0.1	1.1	1.6	1.3	0.00		3.8	2.2								
10	7.8	15.2					7.2	14.7	8.6			1.8	1.4	0.00											
11	7.5	15.1					7.0	16.4	8.6			1.4	1.9	0.00											
12	8.0	15.6		64			7.3	14.7	8.7		1.7	1.8	1.8	0.00	<1.8										
13	8.1	15.3		66			7.2	15.5	8.5		1.5	1.4	1.3	0.00				15:50	6.7	16.0	10.5	16:00	7.0	15.3	9.2
14	8.1	15.6		66			7.4	15.2	9.4		1.8	1.4	1.6	0.00											
15	8.1	16.0		60			7.4	15.9	8.8		1.7	1.5	1.6	0.00											
16	8.1	15.5	11	44	300	220	7.4	16.0	9.4	<0.1	1.0	1.2	1.7	0.00		4.3	3.2								
17	7.4	14.6					7.3	15.9	8.9			1.6	2.0	0.00											
18	7.4	14.5					7.3	15.6	9.0			1.6	2.2	0.00											
19	8.1	15.5		62			7.4	14.8	9.3		1.7	1.2	2.1	0.00	<1.8										
20	8.2	15.6		66			7.4	15.7	8.9		2.2	1.9	2.2	0.00				11:10	6.9	15.3	10.2	11:20	7.0	15.8	8.2
21	8.1	15.6		66			7.3	16.0	9.2		3.1	1.9	2.0	0.00											
22	8.0	15.1		52			7.5	16.1	9.5		2.8	1.8	2.4	0.00											
23	7.8	15.5	18	60	320	220	7.3	15.7	9.3	<0.1	2.7	1.4	2.2	0.00		6.3	3.8								
24	7.3	15.1					7.3	16.3	8.2			1.7	2.4	0.00											
25	7.4	15.4					7.4	16.3	7.6			2.0	2.5	0.00											
26	8.1	17.3		66			7.2	16.4	8.7		2.6	1.9	2.6	0.00	<1.8										
27	7.8	15.9		60			7.5	16.2	9.4		2.4	1.8	2.3	0.00				16:20	6.8	18.1	9.9	16:35	6.8	17.7	9.8
28	7.8	16.2		70			7.2	16.1	9.6		2.6	1.6	2.2	0.00											
29	7.3	15.0		30			7.4	16.3	9.2		2.4	1.7	2.2	0.00											
30	8.0	16.6	25	40	370	260	7.5	16.2	9.3	<0.1	2.6	1.7	2.2	0.00		5.0	3.4								
															MEDIAN										
Average	7.8	15.4	15	55	328	244	7.3	15.5	8.8	<0.1	2.0	1.7	1.7	0.0	<1.8	4.5	3.1	.	7.0	16.2	10.5		7.1	15.9	9.5
Maximum	8.2	17.3	25	70	370	280	7.5	16.4	9.8	<0.1	3.1	2.2	2.6	0.0	<1.8	6.3	3.8		7.4	18.1	11.2		7.5	17.7	10.9
Minimum	7.3	14.3	9	30	300	220	7.0	14.6	7.6	<0.1	1.0	1.2	0.6	0.0	<1.8	3.3	2.2		6.7	15.2	9.9		6.8	14.8	8.2

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

May 2021

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002				
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.	
1										Shut Down for Cleaning				N/A												No Dischar
2										Shut Down for Cleaning				N/A												No Dischar
3	7.9	16.5		62			7.3	16.4	9.8		0.8	1.7	0.9	N/A				11:00	6.7	16.7	10.4	11:10	7.0	16.9	10.6	Start REC-
4	8.1	17.3		80			7.3	16.7	8.8		0.0	0.8	7.2	N/A	<1.8											
5	7.4	17.2		44			7.3	17.2	9.1		0.0	0.7	1.8	N/A												
6	8.2	17.2		66			7.3	17.6	9.1		0.0	0.6	1.6	N/A												
7	7.5	17.0	18	44	390	290	7.4	17.7	8.6	<0.1	0.0	0.5	1.3	N/A		5.4	2.5									
8	7.9	16.1					7.4	16.6	8.5			0.5	1.8	N/A												Weekend F
9	7.5	15.5					7.3	16.8	8.6			0.4	1.9	N/A												Weekend F
10	7.8	16.2		50			7.3	16.7	9.2		0.0	0.3	1.3	N/A	<1.8											
11	8.1	17.1		52			7.3	16.9	8.8		0.0	0.5	1.6	N/A												Decreased
12	8.0	16.1		56			7.2	17.0	9.9		0.0	0.6	1.3	N/A				16:00	7.3	17.5	10.3	16:10	7.4	18.3	11.5	
13	8.0	16.3		54			7.1	16.8	9.1		0.0	0.6	1.3	N/A												
14	8.0	16.8	15	42	330	230	7.3	12.4	7.5	<0.1	0.0	0.5	1.1	N/A		5.2	3.0									
15	7.9	16.6					7.1	16.7	8.5			0.5	1.4	N/A												Weekend F
16	7.4	16.0					7.2	16.9	8.1			0.4	1.5	N/A												Weekend F
17	7.9	16.8		58			7.3	17.4	7.7		0.0	0.4	1.5	N/A	<1.8											
18	8.0	17.1		62			7.3	16.7	7.7		0.0	0.5	1.2	N/A				10:40	6.7	15.5	9.8	10:45	7.0	16.1	10.0	Decreased
19	7.7	16.6		44			7.3	16.8	9.3		0.0	0.5	1.2	N/A												
20	7.6	16.0		34			7.2	16.5	7.9		0.0	0.6	1.2	N/A												
21	7.4	16.3	7	40	230	190	7.2	17.7	7.6	<0.1	0.0	0.6	1.1	N/A		3.1	4.4									
22	7.5	16.6					7.3	16.7	9.8			0.6	3.9	N/A												Weekend F
23	7.4	16.6					7.1	16.6	8.6			0.7	3.4	N/A												Weekend F
24	7.9	17.4		52			7.2	16.2	9.2		0.0	0.6	3.8	N/A	<1.8											CL2 on sta
25	8.0	17.2		54			7.2	18.0	7.8		0.0	0.6	1.5	N/A				15:03	7.3	19.3	9.3	15:10	7.5	19.6	11.1	
26	8.2	17.4		56			7.2	17.7	7.7		0.0	0.6	1.5	N/A												
27	7.5	16.3		32			7.2	17.5	7.3		0.0	0.7	1.8	N/A												
28	7.7	17.0	20	58	300	220	7.2	16.8	8.1	<0.1	0.0	0.9	1.7	N/A		5.2	1.0									
29	7.8	17.6					7.0	18.1	6.2			0.7	1.5	N/A												Weekend F
30	8.2	17.7					7.2	17.8	6.5			0.6	1.5	N/A												Weekend F
31	8.0	18.1					7.1	18.4	6.6			0.5	1.5	N/A												Weekend F
															MEDIAN											
Average	7.8	16.8	15	52	313	233	7.2	16.9	8.3	<0.1	0.0	0.6	1.9	0.0	<1.8	4.7	2.7	.	7.0	17.3	10.0		7.2	17.7	10.8	
Maximum	8.2	18.1	20	80	390	290	7.4	18.4	9.9	<0.1	0.8	1.7	7.2	0.0	<1.8	5.4	4.4		7.3	19.3	10.4		7.5	19.6	11.5	
Minimum	7.4	15.5	7	32	230	190	7.0	12.4	6.2	<0.1	0.0	0.3	0.9	0.0	<1.8	3.1	1.0		6.7	15.5	9.3		7.0	16.1	10.0	

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

June 2021

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002				
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.	
1	8.0	18.4		50			7.3	19.2	7.3		0.0	0.5	1.2	N/A	<1.8			10:35	7.8	19.2	9.1	10:45	7.7	20.1	9.2	
2	7.8	18.0		52			7.2	18.5	7.7		0.0	0.7	1.4	N/A												
3	7.3	17.3		36			7.1	18.5	6.4		0.0	0.9	1.3	N/A												
4	7.8	18.0	6	62	210	69	7.1	18.4	5.4	<0.1	0.0	0.7	1.0	N/A		2.5	2.4									
5	7.7	17.3					7.2	19.0	6.2			0.7	1.3	N/A												WEEKEND
6	7.7	17.6					7.0	18.4	5.7			0.6	1.9	N/A												WEEKEND
7	8.0	18.8		74			7.3	18.1	6.2		0.0	0.6	1.4	N/A	<1.8											
8	8.0	17.7		58			7.2	17.9	6.7		0.0	0.7	1.2	N/A				15:45	7.3	21.0	10.1	15:50	7.7	21.2	11	
9	8.0	18.0		42			7.2	18.1	5.8		0.1	0.6	1.3	N/A												
10	8.1	18.3		62			7.2	18.5	6.1		0.0	0.9	1.5	N/A												
11	7.4	18.7	22	42	260	120	7.2	18.5	6.1	<0.1	0.0	0.8	1.0	N/A		2.7	1.2									
12	8.0	18.8					7.3	18.6	5.9			1.0	0.9	N/A												WEEKEND
13	8.4	19.4					7.2	19.6	4.7			1.0	1.2	N/A												WEEKEND
14	7.8	19.2		50			7.1	19.5	5.5		0.0	0.9	1.0	N/A	<1.8											1.72" of rain
15	7.5	20.2		44			7.1	20.0	6.1		0.0	0.9	1.4	N/A				8:40	7.5	20.8	11.1	8:50	7.6	21.1	10.7	
16	8.0	20.0		66			7.0	19.2	5.6		0.0	0.9	0.8	N/A												INCREASE
17	8.0	19.1		55			7.0	19.2	7.1		0.0	1.0	1.9	N/A												
18	8.1	19.8	18	68	230	240	7.2	19.0	6.6	<0.1	0.0	1.2	1.7	N/A		3.9	3.8									
19	8.1	18.9					7.1	19.7	5.1			0.8	2.5	N/A												WEEKEND
20	7.4	18.0					7.2	19.6	4.9			0.9	2.5	N/A												WEEKEND
21	7.9	18.5		58			7.1	19.3	4.6		0.1	0.8	2.7	N/A	<1.8											
22	7.7	18.5		44			7.1	19.3	5.7		0.0	0.8	2.8	N/A				15:00	7.7	20.3	9.9	15:10	7.9	22.1	11.7	CL2 DELIVE
23	7.7	18.5		52			7.2	19.2	5.3		0.0	0.6	2.7	N/A												
24	7.8	18.7		62			7.2	19.5	5.1		0.0	0.7	2.7	N/A												
25	7.8	18.3	22	34	220	100	7.2	19.3	5.0	<0.1	0.0	0.6	1.8	N/A		3.2	1.6									Started BSE
26	7.3	17.8					7.2	19.3	5.0			1.3	6.3	N/A												WEEKEND
27	7.8	18.6					7.3	19.6	4.8			1.6	4.1	N/A												WEEKEND
28	8.1	20.3		60			7.5	20.1	6.1		2.3	1.5	2.0	N/A	<1.8											STOP DISC
29	7.8	19.7		48			Shut down to clean CCB											8:30	7.3	19.1	9.3	8:40	7.3	20.5	9.0	NO DISCHA
30	8.1	19.8		70			Shut down to clean CCB																			NO DISCHA
															MEDIAN											
Average	7.8	18.7	17	54	230	132	7.2	19.0	5.8	<0.1	0.1	0.9	1.9	0.0	<1.8	3.1	2.3	.	7.5	20.1	9.9		7.6	21.0	10.3	
Maximum	8.4	20.3	22	74	260	240	7.5	20.1	7.7	<0.1	2.3	1.6	6.3	0.0	<1.8	3.9	3.8		7.8	21.0	11.1		7.9	22.1	11.7	
Minimum	7.3	17.3	6	34	210	69	7.0	17.9	4.6	<0.1	0.0	0.5	0.8	0.0	<1.8	2.5	1.2		7.3	19.1	9.1		7.3	20.1	9.0	

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

July 2021

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002				
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL_2 Res	River CL_2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.	
1	7.8	19.6		56			7.3	20.0	5.4		0.24	0.7	1.1	N/A												BEGAN DI
2	8.1	19.9	6	76	200	64	7.4	20.0	6.3	<0.1	2.20	1.8	1.7	N/A		3.3	2.0									
3	7.7	19.2					7.4	20.1	5.6			1.1	1.7	N/A												weekend R
4	7.5	19.1					7.4	20.5	5.1			0.9	1.7	N/A												weekend R
5	7.3	18.4					7.4	20.2	5.5			1.0	1.5	N/A												weekend R
6	7.4	18.4		38			7.4	19.7	4.3		1.38	1.8	1.6	N/A	<1.8			15:00	8.0	22.1	9.8	15:10	8.1	21.5	10.0	
7	7.7	19.9		62			7.1	19.3	4.9		0.31	0.7	0.8	N/A												
8	8.2	19.7		64			7.3	19.3	5.8		1.88	1.6	1.6	N/A												
9	7.3	19.4	15	42	190	60	7.3	19.0	6.4	<0.1	0.00	0.6	0.9	N/A		5.0	1.4									
10	7.4	18.7					7.2	19.6	5.7			2.2	2.0	N/A												weekend R
11	7.6	19.1					7.1	19.5	5.4			1.8	1.4	N/A												weekend R
12	8.0	20.0		74			7.4	18.9	6.1		3.98	1.9	1.3	N/A	<1.8											
13	7.8	19.1		56			7.4	19.1	5.7		5.12	2.3	1.6	N/A				15:55	7.4	20.1	9.2	16:05	7.5	21.4	11.3	Increased V
14	7.6	18.7		58			7.3	18.1	6.1		4.02	1.5	1.3	N/A												
15	8.1	19.3		76			7.4	18.6	5.7		4.04	1.5	1.5	N/A												
16	7.9	19.9	11	36	300	210	7.4	18.9	5.5	<0.1	1.98	1.6	1.2	N/A		2.9	2.4									
17	8.4	18.6					7.5	18.6	5.1			0.7	2.0	N/A												weekend R
18	7.8	18.9					7.4	18.8	5.7			0.7	1.0	N/A												weekend R
19	7.7	18.8		58			7.2	18.6	5.5		1.44	0.5	0.8	N/A	<1.8											
20	7.4	18.8		42			7.3	18.8	5.2		2.82	0.6	1.1	N/A				14:31	7.5	21.2	9.6	14:40	8.2	22.4	9.4	
21	8.1	19.6		72			7.3	18.7	5.2		3.06	1.7	1.1	N/A												
22	7.9	19.5		56			7.2	18.7	5.2		3.06	1.9	1.0	N/A												
23	8.0	18.7	14	68	380	280	7.4	19.5	6.3	<0.1	2.56	1.9	1.9	N/A		3.4	3.0									
24	7.7	19.3					7.4	19.3	5.9			1.0	1.0	N/A												weekend R
25	7.8	19.2					7.4	19.2	5.7			0.7	1.1	N/A												weekend R
26	8.1	19.3		88			7.4	18.6	5.7		0.90	0.7	3.1	N/A	<1.8											CL2 ton en
27	7.4	18.8		40			7.2	19.5	6.2		1.84	1.2	2.2	N/A				16:10	7.3	20.1	10.1	16:20	7.6	21.5	9.9	
28	7.7	19.0		52			7.1	18.5	4.7		0.86	1.0	1.6	N/A												
29	7.4	18.7		36			7.2	18.5	3.8		4.04	1.7	2.6	N/A												
30	7.9	18.8	15	56	200	280	7.3	18.6	4.4	<0.1	3.74	1.6	2.3	N/A		4.8	2.8									
31	7.4	19.0					7.3	18.9	4.6			0.9	1.9	N/A												weekend R
															MEDIAN											
Average	7.7	19.1	12	57	254	179	7.3	19.1	5.4	<0.1	2.4	1.3	1.5	0.0	<1.8	3.9	2.3	.	7.6	20.9	9.7		7.9	21.7	10.2	
Maximum	8.4	20.0	15	88	380	280	7.5	20.5	6.4	<0.1	5.1	2.3	3.1	0.0	<1.8	5.0	3.0		8.0	22.1	10.1		8.2	22.4	11.3	
Minimum	7.3	18.4	6	36	190	60	7.1	18.1	3.8	<0.1	0.0	0.5	0.8	0.0	<1.8	2.9	1.4		7.3	20.1	9.2		7.5	21.4	9.4	

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

August 2021

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002			
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL_2 Res	River CL_2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.
1	8.0	20.2					7.4	19.0	5.0			0.8	1.7	N/A											
2	7.9	19.5		36			7.4	18.3	6.8		0.7	0.9	1.9	N/A	<1.8			10:40	7.5	18.7	9.1	10:50	7.7	19.7	9.7
3	7.9	19.1		58			7.4	19.1	7.2		1.8	1.2	2.1	N/A											
4	7.8	18.7		50			7.4	17.9	5.8		0.4	1.0	1.6	N/A											
5	7.9	19.2		50			7.3	18.8	4.9		0.6	1.0	2.0	N/A											
6	7.6	19.1	10	40	360	210	7.3	19.2	6.1	<0.1	4.1	1.0	2.1	N/A		5.5	3.8								
7	8.4	20.1					7.4	19.5	4.4			1.3	2.0	N/A											
8	8.4	20.4					7.4	19.8	4.5			1.5	2.2	N/A											
9	8.1	18.9		68			7.3	19.3	5.4		1.2	1.0	2.5	N/A	<1.8										
10	7.5	19.0		42			7.2	20.7	3.1		1.0	1.2	1.8	N/A				15:40	7.6	20.8	8.5	15:50	8.4	21.6	9.9
11	7.9	17.9		40			7.2	18.2	5.4		1.1	1.0	1.7	N/A											
12	8.3	20.0		68			7.4	18.6	5.9		4.1	1.4	2.1	N/A											
13	7.4	18.6	5	34	230	100	7.5	18.8	5.5	<0.1	4.0	1.5	1.8	N/A		4.8	2.4								
14	7.8	20.3					7.1	18.8	3.4			1.4	1.7	N/A											
15	7.5	20.0					7.1	19.1	2.2			1.7	1.5	N/A											
16	7.6	19.6		48			7.4	19.0	3.5		3.9	1.3	2.4	N/A	<1.8										
17	8.1	20.3		66			7.3	19.2	3.8		5.1	1.2	2.0	N/A				11:25	7.9	21.6	7.6	11:35	7.7	21.3	7.6
18	8.2	20.6		70			7.5	18.7	4.1		3.2	1.3	2.0	N/A											
19	7.9	19.8		56			7.4	18.6	4.7		1.9	1.0	2.2	N/A											
20	7.9	20.0	12	60	340	170	7.3	19.1	4.6	<0.1	2.9	1.3	1.7	N/A		6.5	2.6								
21	7.8	21.0					7.2	19.2	3.5			1.4	1.8	N/A											
22	7.6	19.8					7.3	19.1	5.2			1.5	2.0	N/A											
23	8.2	20.1		68			7.2	18.5	5.3		2.7	1.6	2.3	N/A	<1.8										
24	7.7	19.0		50			7.3	18.1	3.4		2.4	1.5	1.8	N/A				15:25	7.3	20.7	8.9	15:35	7.2	20.4	10.3
25	7.9	20.3		68			7.0	18.3	3.4		3.0	1.4	1.9	N/A											
26	7.3	19.2		44			7.1	19.0	4.8		5.2	1.8	2.0	N/A											
27	7.6	19.6	8	50	260	150	7.2	19.2	3.6	<0.1	3.9	1.2	1.9	N/A		5.0	1.6								
28	7.3	19.4					7.2	19.2	4.2			1.5	1.8	N/A											
29	7.3	18.9					7.2	19.1	4.2			1.7	1.7	N/A											
30	8.1	20.1		72			7.4	18.1	4.3		2.4	1.0	2.4	N/A	<1.8										
31	8.0	19.5		52			7.4	18.5	3.4		4.1	1.3	1.9	N/A											
															MEDIAN										
Average	7.8	19.6	9	54	298	158	7.3	18.9	4.6	<0.1	2.7	1.3	2.0	0.0	<1.8	5.5	2.6	.	7.6	20.5	8.5		7.8	20.8	9.4
Maximum	8.4	21.0	12	72	360	210	7.5	20.7	7.2	<0.1	5.2	1.8	2.5	0.0	<1.8	6.5	3.8		7.9	21.6	9.1		8.4	21.6	10.3
Minimum	7.3	17.9	5	34	230	100	7.0	17.9	2.2	<0.1	0.4	0.8	1.5	0.0	<1.8	4.8	1.6		7.3	18.7	7.6		7.2	19.7	7.6

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

September 2021

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002				
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.	
1	8.4	20.3		80			7.4	18.4	3.0		5.2	2.0	1.8	N/A				13:20	7.4	20.1	8.9	13:30	7.3	19	8.0	
2	7.5	18.3		40			7.3	18.1	3.3		3.6	2.2	1.9	N/A												
3	7.9	19.4	18	54	250	200	7.4	18.2	4.2	<0.1	5.4	1.9	1.9	N/A		4.3	3.0									
4	7.7	19.6					7.3	18.1	4.0			2.4	1.7	N/A												Weekend R
5	7.6	18.6					7.3	18.0	4.2			2.2	1.7	N/A												Weekend R
6	7.7	18.4					7.2	18.3	4.3			2.3	1.6	N/A												Weekend R
7	7.8	19.4		52			7.3	17.8	4.7		4.2	1.6	1.9	N/A	<1.8			15:30	8	20.9	8.4	15:40	8.1	20.1	10.4	CLARIFIER
8	8.3	20.0		82			7.3	18.1	3.9		3.6	1.4	1.6	N/A												CLARIFIER
9	7.8	19.0		62			7.3	18.2	3.5		3.1	1.4	1.6	N/A												CLARIFIER
10	7.3	18.8	18	36	260	150	7.3	18.5	3.2	<0.1	4.5	1.5	1.8	N/A		5.3	3.0									CLARIFIER
11	7.8	19.6					7.3	18.6	4.2			2.0	1.7	N/A												Weekend R
12	8.3	19.9					7.2	18.5	3.9			2.1	1.6	N/A												Weekend R
13	8.4	20.6		78			7.4	18.3	3.6		5.1	1.9	1.8	N/A	<1.8											
14	8.3	19.3		74			7.3	17.9	3.9		0.2	0.7	0.4	N/A				11:20	7.5	18.6	8.3	11:30	7.3	19.1	7.4	CLARIFIER
15	7.9	18.8		64			7.3	17.5	3.6		4.1	1.8	1.7	N/A												CLARIFIER
16	8.4	19.9		80			7.3	17.6	3.5		4.6	1.7	1.5	N/A												CLARIFIER
17	8.0	19.0	16	62	290	180	7.2	17.5	4.1	<0.1	4.0	1.6	1.7	N/A		5.2	2.8									CLARIFIER
18	7.5	18.7					7.3	18.4	5.0			1.5	1.7	N/A												WEEKEND
19	7.8	19.1					7.3	18.0	5.1			2.0	2.1	N/A												WEEKEND
20	7.8	19.8		60			7.2	17.7	2.7		3.7	2.7	2.6	N/A	<1.8											
21	8.0	20.0		56			7.4	17.7	2.7		1.4	1.2	1.2	N/A				15:20	7.3	21.9	9.4	15:30	6.9	21.2	9.9	
22	7.9	19.3		48			7.0	18.0	2.7		1.0	0.9	1.1	N/A												
23	8.2	20.4		74			7.4	18.1	2.1		4.8	1.7	1.8	N/A												
24	7.4	18.4	17	40	280	220	7.3	18.0	2.8	<0.1	5.3	1.5	1.7	N/A		6.1	2.8									
25	8.1	19.6					7.2	18.4	3.5			2.5	1.4	N/A												Weekend R
26	7.5	19.0					7.2	18.4	3.4			2.5	1.5	N/A												Weekend R
27	7.4	18.4		46			7.2	18.4	2.9		2.5	1.9	1.3	N/A	<1.8											
28	7.3	18.4		38			7.4	17.5	1.7		4.6	2.7	1.4	N/A				11:15	7.4	16.9	8.9	11:30	7.1	16.7	5.7	
29	7.7	18.6		58			7.1	17.4	3.9		5.2	4.2	1.0	N/A												
30	7.5	18.5		46			7.1	17.5	4.4		4.0	2.6	1.2	N/A												
															MEDIAN											
Average	7.8	19.2	17	59	270	188	7.3	18.0	3.6	<0.1	3.8	2.0	1.6		<1.8	5.2	2.9	.	7.5	19.7	8.8		7.3	19.2	8.3	
Maximum	8.4	20.6	18	82	290	220	7.4	18.6	5.1	<0.1	5.4	4.2	2.6		<1.8	6.1	3.0		8.0	21.9	9.4		8.1	21.2	10.4	
Minimum	7.3	18.3	16	36	250	150	7.0	17.4	1.7	<0.1	0.2	0.7	0.4		<1.8	4.3	2.8		7.3	16.9	8.3		6.9	16.7	5.7	

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

October 2021

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002				
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.	
1	7.8	19.7	13	42	350	230	7.2	17.7	2.6	<0.1	2.7	2.3	1.1	N/A		4.6	2.6									
2	7.7	19.2					7.1	17.7	3.6			2.1	1.1	N/A												Weekend R
3	7.7	19.3					7.2	17.4	3.9			1.7	1.0	N/A												Weekend R
4	7.8	18.9		60			7.2	16.9	2.6		0.3	1.3	1.1	N/A	2.0			15:00	7.5	17.7	10.0	15:10	7.2	16.9	9.0	
5	8.0	18.8		68			7.2	16.9	2.6		1.5	2.3	1.0	N/A												
6	7.8	19.1		64			7.3	16.8	2.3		1.6	1.5	1.4	N/A												
7	7.9	18.9		66			7.3	16.4	2.7		0.2	1.1	0.4	N/A												SO2 used
8	7.8	18.2	12	68	260	140	7.3	16.6	3.1	<0.1	2.6	1.9	1.0	N/A		2.8	1.8									
9	7.9	19.3					7.2	16.6	3.6			1.9	1.0	N/A												Weekend R
10	8.4	19.7					7.3	16.3	3.7			1.5	1.1	N/A												Weekend R
11	7.9	19.0					7.2	16.5	4.4			1.7	1.7	N/A												Weekend R
12	7.6	16.0		50			7.4	14.3	4.5		1.7	1.1	2.1	N/A	<1.8			10:10	7.6	14.3	9.3	10:20	7.5	13	8.2	
13	7.9	17.6		70			7.3	15.6	5.7		5.6	1.8	1.9	N/A												
14	8.1	18.4		48			7.3	15.4	4.3		3.0	1.4	1.6	N/A												
15	8.1	17.2	10	78	280	190	7.2	15.0	2.5	<0.1	1.6	1.1	1.4	N/A		4.4	3.0									
16	8.1	17.9					7.4	15.3	4.7			1.1	1.7	N/A												Weekend R
17	8.0	18.0					7.4	15.4	4.6			1.0	1.4	N/A												Weekend R
18	8.1	18.0		76			7.3	15.1	3.1		1.0	1.1	2.0	N/A	<1.8											
19	7.4	17.3		46			7.3	14.8	3.1		0.6	1.1	1.2	N/A				15:00	7.2	15.6	9.9	15:10	7.3	15.4	9.8	
20	7.4	18.3		58			7.1	16.6	4.5		3.4	2.0	1.9	N/A												
21	7.8	18.5		64			7.2	15.2	4.3		3.8	2.1	1.9	N/A												
22	8.1	18.5	6	56	240	130	7.2	15.6	3.1	<0.1	2.0	1.3	1.4	N/A		3.1	2.8									
23	7.9	18.6					7.2	15.8	2.7			2.6	1.2	N/A												
24	7.9	18.2					7.2	15.9	3.4			2.2	1.2	N/A												
25	7.8	17.0		56			7.2	14.7	4.8		3.4	1.8	1.4	N/A	<1.8											
26	7.9	18.1		54			7.3	15.2	3.1		3.3	2.0	1.2	N/A				16:00	6.9	13.8	10.4	16:10	7.1	14.3	10.1	Lower WA
27	8.0	18.3		28			7.1	15.5	3.6		3.3	2.1	1.0	N/A												
28	7.9	18.3		62			7.3	15.9	2.7		2.9	1.9	0.9	N/A												
29	7.9	18.1	12	62	240	140	7.2	16.2	2.8	<0.1	3.8	1.9	2.2	N/A		2.6	4.0									
30	7.2	17.9					7.1	16.5	4.5			2.5	2.1	N/A												Weekend R
31	7.5	17.9					7.3	16.5	4.2			2.5	1.6	N/A												Weekend R
															MEDIAN											
Average	7.8	18.3	11	59	274	166	7.2	16.0	3.6	<0.1	2.4	1.7	1.4		<1.8	3.5	2.8	.	7.3	15.4	9.9		7.3	14.9	9.3	
Maximum	8.4	19.7	13	78	350	230	7.4	17.7	5.7	<0.1	5.6	2.6	2.2		2	4.6	4.0		7.6	17.7	10.4		7.5	16.9	10.1	
Minimum	7.2	16.0	6	28	240	130	7.1	14.3	2.3	<0.1	0.2	1.0	0.4		<1.8	2.6	1.8		6.9	13.8	9.3		7.1	13.0	8.2	

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

November 2021

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002				
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.	
1	7.8	18.3		60			7.3	16.7	3.7		2.3	2.8	2.0	0.00	<1.8			14:45	6.7	15.9	9.7	14:55	6.7	16.5	9.8	Began EFF
2	7.7	17.6		50			7.0	16.3	3.3		3.0	3.6	1.8	0.00												
3	8.3	18.9		76			6.9	16.7	3.5		2.7	2.7	2.3	0.00												
4	7.7	17.6		58			7.0	16.3	3.3		2.1	3.6	2.0	0.00												
5	7.3	17.4	8	34	290	200	6.9	15.9	3.1	<0.1	1.7	1.9	2.3	0.00		3	2.6									
6	7.3	16.7					7.0	15.4	4.5			1.8	2.3	0.00												Weekend F
7	7.5	16.3					7.1	14.4	4.9			1.6	2.4	0.00												Weekend F
8	7.6	16.3		46			7.1	14.0	3.3		1.6	1.3	2.6	0.00	<1.8											
9	8.3	16.1		78			6.8	14.7	3.7		1.4	1.3	2.4	0.00				15:20	6.7	14.4	10.5	15:30	6.7	13.9	9.2	
10	8.1	17.7		58			6.9	14.6	3.7		2.7	1.9	2.7	0.00												
11	7.4	18.4					7.0	16.5	4.7			1.6	2.4	0.00												
12	7.9	18.2	16	62	290	150	6.9	15.1	3.2	<0.1	2.6	1.6	2.7	0.00		2.2	4									
13	7.8	18.2					6.8	15.3	5.1			1.8	2.6	0.00												Weekend F
14	7.4	17.1					6.9	15.1	4.5			1.7	2.7	0.00												Weekend F
15	7.6	16.7		46			7.0	15.1	3.7		2.2	1.6	2.8	0.00	<1.8											
16	7.9	17.2		50			7.1	15.2	4.1		2.4	1.7	2.5	0.00				14:30	6.7	14.1	10.2	14:40	6.8	13.9	9.4	
17	8.3	17.3		90			7.1	14.3	4.2		2.1	0.8	3.1	0.00												
18	8.0	17.2		70			7.0	14.6	3.9		2.2	0.9	3.1	0.00												
19	7.6	16.3	14	40	300	170	7.1	14.5	4.5	<0.1	2.6	0.8	2.9	0.00		2.1	2.4									
20	7.6	16.3					7.0	14.8	3.6			0.7	3.2	0.00												Weekend F
21	7.5	16.3					7.1	13.3	5.0			2.1	3.4	0.00												Weekend F
22	7.9	16.9		58			7.2	13.2	4.3		3.2	1.6	3.3	0.00	<1.8											
23	8.1	17.3		62			6.9	13.7	3.0		2.9	1.4	3.4	0.00				15:00	6.8	14.2	9.8	15:10	6.8	14.2	9.2	
24	7.6	16.9	18	38	510	220	7.0	13.6	5.1	<0.1	2.8	0.9	3.0	0.00		2.2	3.6									
25	7.9	16.4					7.0	13.3	4.8			1.5	4.2	0.00												Weekend F
26	7.8	17.0					7.2	13.9	5.6			1.3	4.4	0.00												Weekend F
27	7.6	17.2					6.9	14.7	5.9			1.5	4.7	0.00												Weekend F
28	8.2	17.3					7.2	14.8	4.8			1.6	4.4	0.00												Weekend F
29	7.5	16.2		46			7.1	14.6	3.4		4.0	1.7	5.4	0.00	<1.8											
30	7.7	16.4		76			6.9	14.7	5.6		3.9	1.6	4.5	0.00												
															MEDIAN											
Average	7.8	17.1	14	58	348	185	7.0	14.8	4.2	<0.1	2.5	1.7	3.1	0.0	<1.8	2.4	3.2	.	6.7	14.7	10.1		6.8	14.6	9.4	
Maximum	8.3	18.9	18	90	510	220	7.3	16.7	5.9	<0.1	4.0	3.6	5.4	0.0	<1.8	3.0	4.0		6.8	15.9	10.5		6.8	16.5	9.8	
Minimum	7.3	16.1	8	34	290	150	6.8	13.2	3.0	<0.1	1.4	0.7	1.8	0.0	<1.8	2.1	2.4		6.7	14.1	9.7		6.7	13.9	9.2	

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

December 2021

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002				
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.	
1	7.9	17.0		66			7.1	13.9	5.0		3.84	1.8	2.1	0.00				13:30	7.2	14.5	11.5	13:40	7.1	14.7	10.5	
2	8.0	16.7		68			7.1	13.9	3.4		3.38	1.9	1.9	N/A												Shut down
3	8.2	16.2	7	66	300	200	7.0	13.8	3.5	<0.1	2.14	1.6	1.1	N/A		2.4	5.2									
4	7.9	16.9					7.1	13.7	3.2			2.1	1.6	N/A												Weekend F
5	7.6	17.1					7.1	14.1	3.5			1.7	0.8	N/A												Weekend F
6	8.0	16.3		70			7.1	13.5	2.9		1.68	2.1	2.1	N/A	<1.8											
7	8.2	17.2		72			7.2	14.0	4.0		1.54	2.1	1.3	N/A				15:20	6.9	12.1	12.9	15:30	7.5	12.6	11	
8	8.0	16.7		58			7.1	14.4	5.1		1.88	1.3	1.7	N/A												
9	8.1	16.4		70			7.0	12.6	4.6		1.84	2.5	0.8	N/A												
10	8.1	15.1	20	58	260	220	7.3	11.7	5.2	<0.1	1.92	2.5	1.4	N/A		2.5	2.8									
11	8.1	14.9					7.0	12.1	5.0			2.2	1.0	N/A												Weekend F
12	7.8	15.7					7.2	12.7	6.0			2.5	0.9	N/A												Weekend F
13	8.1	15.6		58			7.2	12.4	4.4		0.82	2.4	1.7	0.00	<1.8											Back in Riv
14	7.5	14.0		26			7.1	12.3	3.2		1.56	2.5	2.1	0.00				15:10	6.8	9.7	11.2	15:20	7.1	10.7	11.3	
15	8.3	15.6		70			7.2	11.4	4.2		1.86	3.2	1.8	0.00												
16	8.4	15.8		72			7.1	11.5	4.2		1.62	2.4	2.0	0.00												
17	7.7	14.3	12	38	250	140	7.0	11.9	4.0	<0.1	1.42	2.5	1.6	0.00		2.3	5.2									
18	8.4	15.2					7.1	10.6	5.9			2.8	1.8	0.00												
19	7.4	14.7					7.0	11.4	5.4			2.7	2.2	0.00												
20	7.5	14.7		34			7.1	11.9	4.0		1.70	2.8	2.1	0.00	<1.8											
21	7.4	15.0		34			7.0	11.9	4.4		1.90	2.7	2.1	0.00				15:30	6.9	11.2	11	15:40	7.0	11.0	10.6	RECEIVED
22	7.6	14.9	20	38	270	160	7.1	12.7	3.3	<0.1	2.02	2.5	2.1	0.00		0.0	3.2									
23	7.7	15.4					7.1	13.4	5.1			2.3	2.2	0.00												Holiday Da
24	7.6	14.4					7.1	12.2	5.4			2.7	1.9	0.00												Holiday Da
25	8.1	14.5					7.2	12.1	5.4			2.3	2.0	0.00												Weekend F
26	7.7	13.7					7.1	11.6	5.5			2.4	2.1	0.00												Weekend F
27	8.3	15.7		76			7.1	11.8	4.8		1.76	2.6	1.7	0.00												
28	8.3	15.0		68			6.9	11.2	4.6		1.88	2.6	1.8	0.00	<1.8			11:30	6.6	7.8	11.3	11:39	6.6	8.2	11.4	
29	7.7	14.5	18	42			7.0	11.4	5.0	<0.1	1.88	2.8	1.7	0.00												
30	7.7	13.7			340	250	7.0	10.7	4.8			3.0	1.7	0.00		2.6	3.8									Holiday Da
31	8.1	14.7					7.0	11.2	4.9			2.6	1.7	0.00												Holiday Da
Average	7.9	15.4	15	57	284	194	7.1	12.4	4.5	<0.1	1.93	2.4	1.7	0.0	<1.8	2.0	4.0	.	6.8	11.1	11.6		7.0	11.4	11.0	
Maximum	8.4	17.2	20	76	340	250	7.3	14.4	6.0	<0.1	3.84	3.2	2.2	0.0	<1.8	2.6	5.2		7.2	14.5	12.9		7.5	14.7	11.4	
Minimum	7.4	13.7	7	26	250	140	6.9	10.6	2.9	<0.1	0.82	1.3	0.8	0.0	<1.8	0.0	2.8		6.6	7.8	11.0		6.6	8.2	10.5	

McKinleyville CSD
Waste Water Management Facility 30 Day Average
BOD & TSS Work Sheet 2021

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
1/8/2021	0.933	1.470	420	8.3	320	2.6	8	102	98	3	32	99	
1/15/2021	0.938	1.475	410	6.8	250	2.0	7	84	98	2	25	99	
1/22/2021	0.883	1.110	230	8.3	210	3.2	8	77	96	3	30	98	
1/29/2021	1.058	1.398	280	7.3	220	2.4	7	85	97	2	28	99	
							8	87	98	3	29	99	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
2/5/2021	1.017	1.445	200	4.6	150	2.0	5	55	98	2	24	99	
2/12/2021	1.081	1.104	430	3.0	180	2.0	3	28	99	2	18	99	
2/19/2021	1.160	1.247	220	0.0	160	3.2	0	0	100	3	33	98	
2/26/2021	1.008	1.227	300	5.0	230	3.2	5	51	98	3	33	99	
							3	34	99	3	27	99	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
3/5/2021	1.051	0.810	360	5.2	290	3.6	5	35	99	4	24	99	
3/12/2021	1.031	1.372	300	4.6	240	3.4	5	53	98	3	39	99	
3/19/2021	0.975	0.812	230	6.6	180	4.8	7	45	97	5	33	97	
3/26/2021	0.944	1.050	380	4.8	180	3.6	5	42	99	4	32	98	
							5	44	98	4	32	98	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
4/2/2021	0.940	1.309	330	3.3	280	3.0	3	36	99	3	33	99	
4/9/2021	0.903	1.037	320	3.8	240	2.2	4	33	99	2	19	99	
4/16/2021	0.862	0.891	300	4.3	220	3.2	4	32	99	3	24	99	
4/23/2021	0.858	0.802	320	6.3	220	3.8	6	42	98	4	25	98	
4/30/2021	0.863	0.543	370	5.0	260	3.4	5	23	99	3	15	99	
							4	36	99	3	25	99	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
5/7/2021	0.845	0.783	390	5.4	290	2.5	5	35	99	3	16	99	
5/14/2021	0.851	0.839	330	5.2	230	3.0	5	36	98	3	21	99	
5/21/2021	0.815	0.653	230	3.1	190	4.4	3	17	99	4	24	98	
5/28/2021	0.823	0.802	300	5.2	220	1.0	5	35	98	1	7	100	
							5	31	98	3	17	99	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
6/4/2021	0.828	0.827	210	2.5	69	2.4	3	17	99	2	17	97	
6/11/2021	0.832	0.862	260	2.7	120	1.2	3	19	99	1	9	99	
6/18/2021	0.864	0.833	230	3.9	240	3.8	4	27	98	4	26	98	
6/25/2021	0.813	0.636	220	3.2	100	1.6	3	17	99	2	8	98	
							3	20	99	2	15	98	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
7/2/2021	0.803	0.783	200	3.3	64	2.0	3	22	98	2	13	97	
7/9/2021	0.806	0.816	190	5.0	60	1.4	5	34	97	1	10	98	
7/16/2021	0.794	0.704	300	2.9	210	2.4	3	17	99	2	14	99	
7/23/2021	0.801	0.795	380	3.4	280	3.0	3	23	99	3	20	99	
7/30/2021	0.784	0.740	200	4.8	280	2.8	5	30	98	3	17	99	
							4	25	98	2	15	98	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
8/6/2021	0.810	0.720	360	5.5	210	3.8	6	33	98	4	23	98	
8/13/2021	0.800	0.765	230	4.8	100	2.4	5	31	98	2	15	98	
8/20/2021	0.808	0.743	340	6.5	170	2.6	7	40	98	3	16	98	
8/27/2021	0.805	0.774	260	5.0	150	1.6	5	32	98	2	10	99	
							5	34	98	3	16	98	**Monthly Avg.**

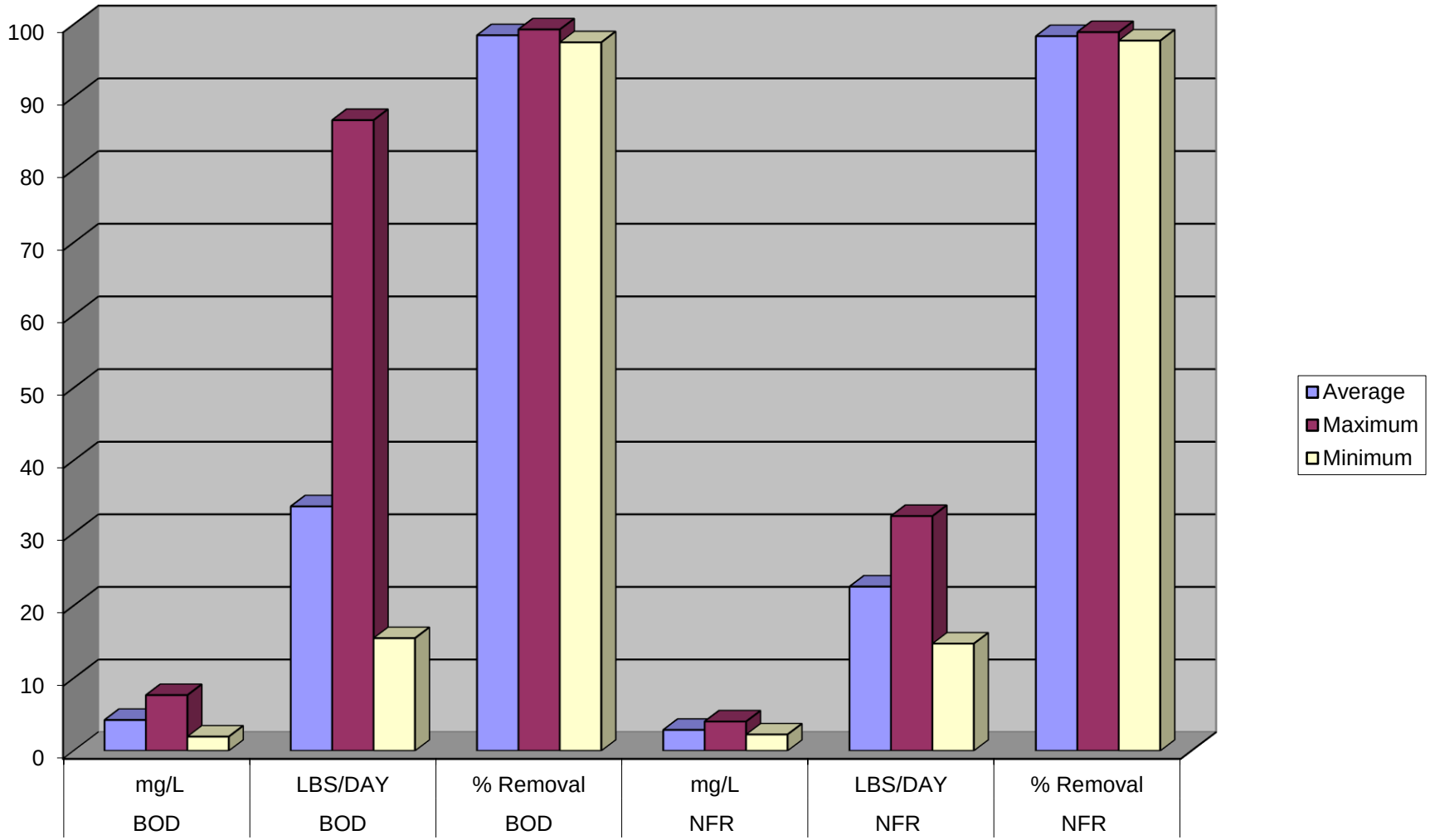
DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
9/3/2021	0.811	0.813	250	4.3	200	3.0	4	29	98	3	20	99	
9/10/2021	0.794	0.716	260	5.3	150	3.0	5	32	98	3	18	98	
9/17/2021	0.790	0.709	290	5.2	180	2.8	5	31	98	3	17	98	
9/24/2021	0.795	0.760	280	6.1	220	2.8	6	39	98	3	18	99	
							5	33	98	3	18	98	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
10/1/2021	0.787	0.772	350	4.6	230	2.6	5	30	99	3	17	99	
10/8/2021	0.773	0.796	260	2.8	140	1.8	3	19	99	2	12	99	
10/15/2021	0.792	0.769	280	4.4	190	3.0	4	28	98	3	19	98	
10/22/2021	0.855	0.748	240	3.1	130	2.8	3	19	99	3	17	98	
10/29/2021	0.797	0.686	240	2.6	140	4.0	3	15	99	4	23	97	
							4	24	99	3	16	98	**Monthly Avg.**

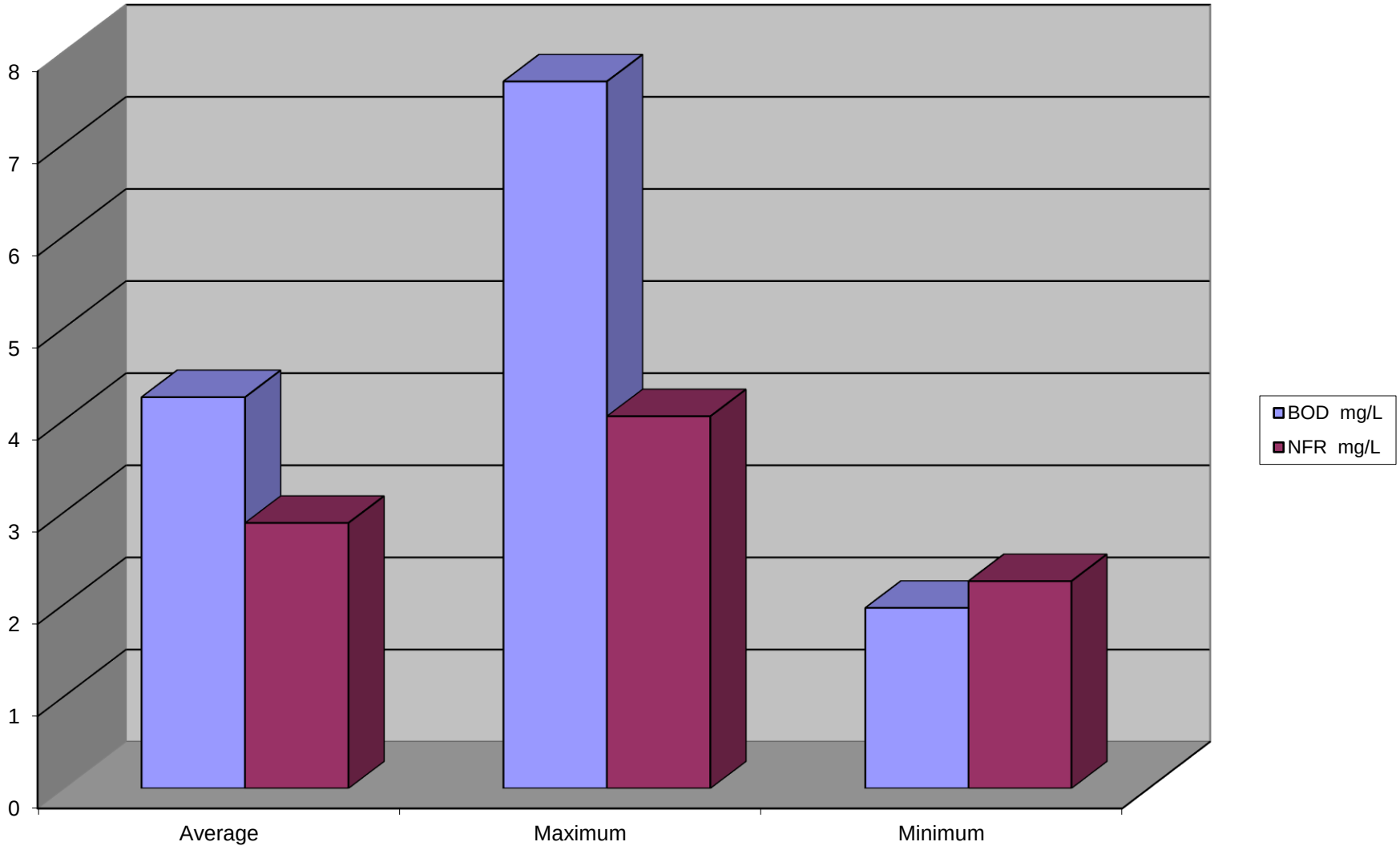
DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
11/5/2021	0.866	1.288	290	3.0	200	2.6	3	32	99	3	28	99	
11/12/2021	0.788	1.203	290	2.2	150	4.0	2	22	99	4	40	97	
11/19/2021	0.777	1.038	300	2.1	170	2.4	2	18	99	2	21	99	
11/24/2021	0.804	0.911	510	2.2	220	3.6	2	17	100	4	27	98	
							2	22	99	3	29	98	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
12/3/2021	0.783	0.758	300	2.4	200	5.2	2	15	99	5	33	97	
12/10/2021	0.784	0.956	260	2.5	220	2.8	3	20	99	3	22	99	
12/17/2021	0.891	1.059	250	2.3	140	5.2	2	20	99	5	46	96	
12/22/2021	0.910	1.055	270	0.0	160	3.2	0	0	100	3	28	98	
12/30/2021	0.983	1.023	340	2.6	250	3.8	3	22	99	4	32	98	
							2	16	99	4	32	98	**Monthly Avg.**

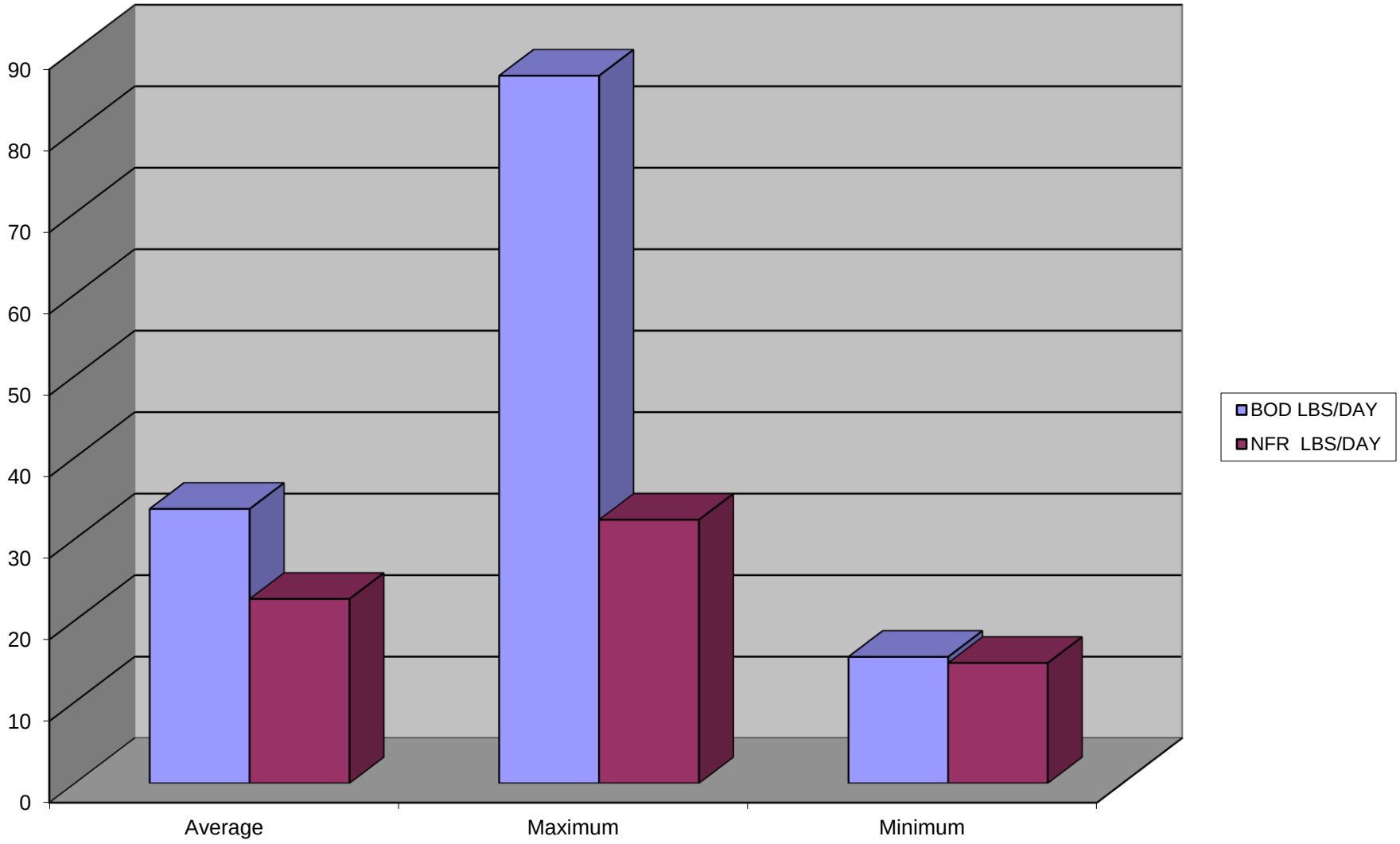
30 Day BOD & NFR
Maximum, Minimum, and Average



BOD & NFR 30 DAY AVERAGE mg/L



BOD & NFR 30 DAY AVERAGE LBS/DAY

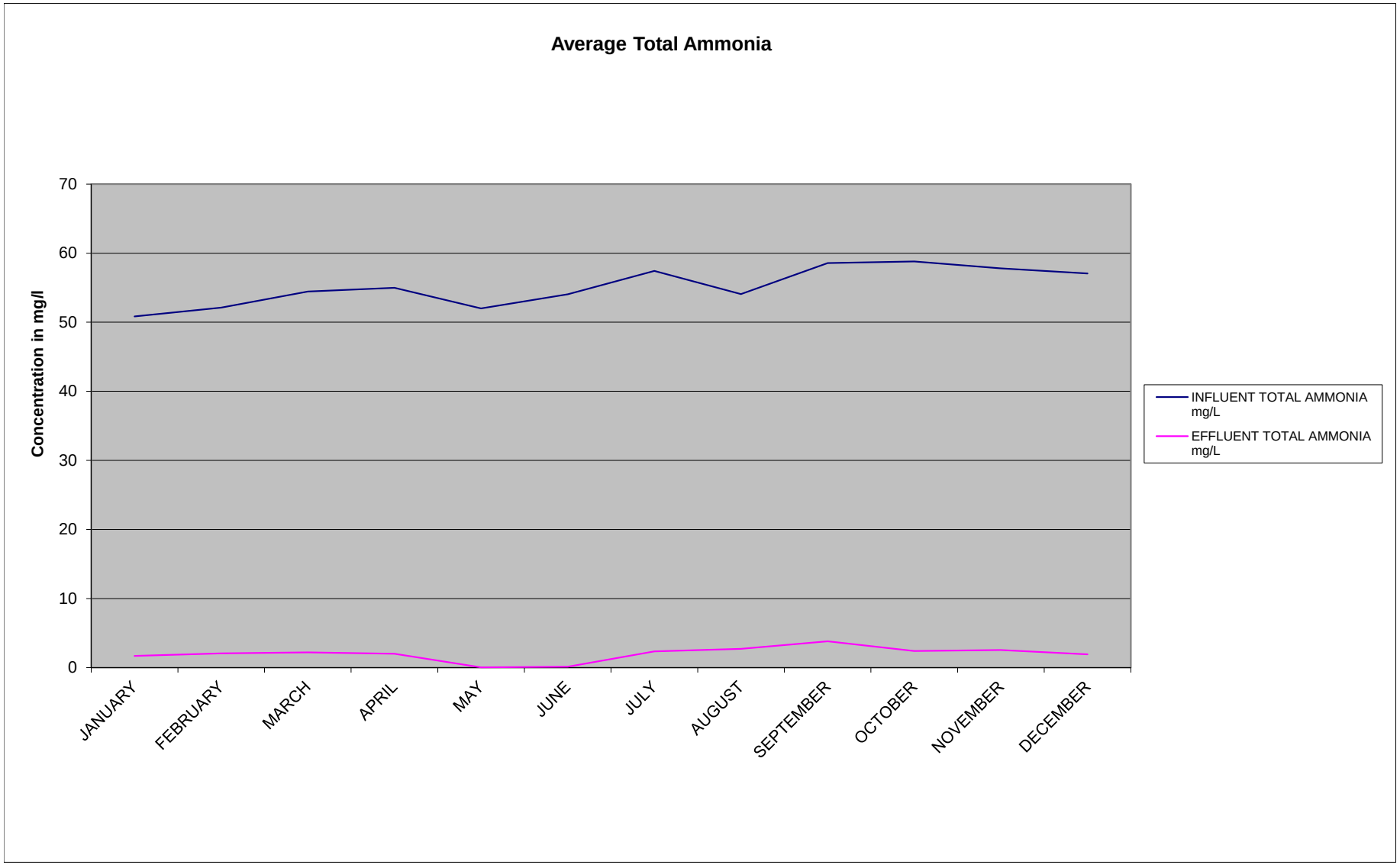


McKinleyville Community Services District
Wastewater Management Facility
2021 Influent, Terminal Pond, and Effluent BOD

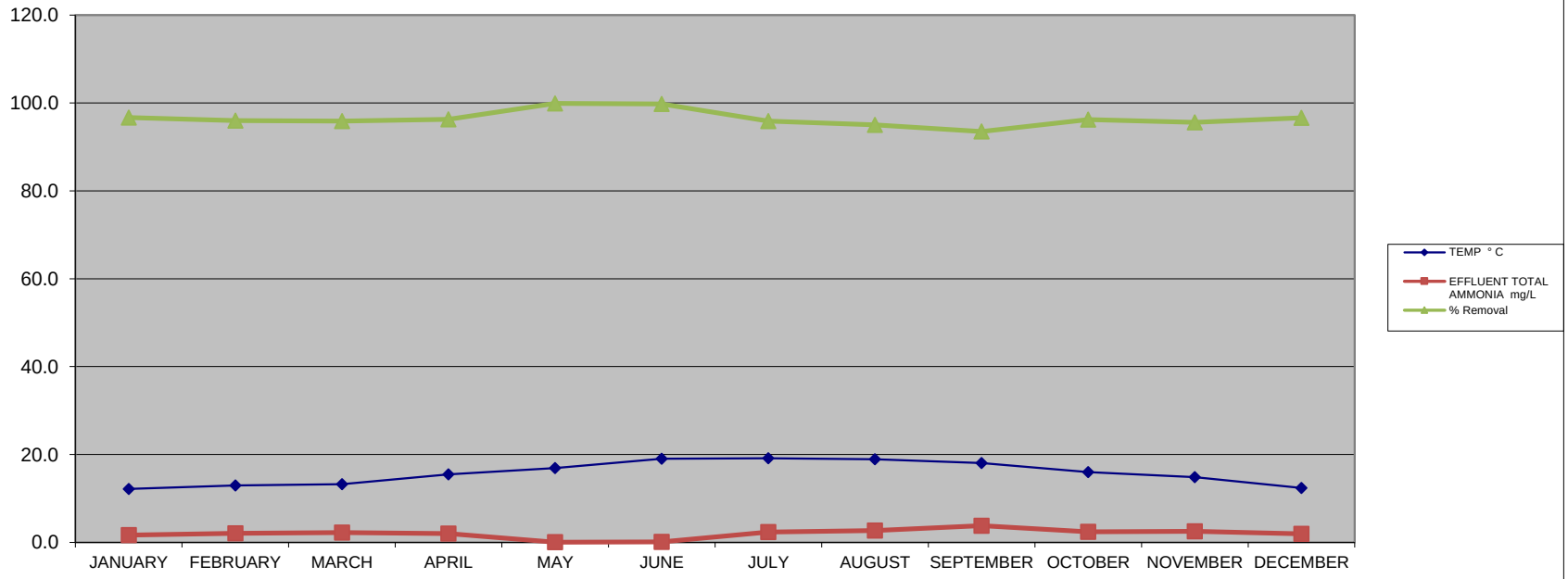
MONTH		INFLUENT	EFFLUENT	Terminal Pond	SE
		BOD	**BOD**	**BOD**	**BOD**
January	1/8/2021	420	8.3	2.4	7.1
	1/15/2021	410	6.8	ND	6.8
	1/22/2021	230	8.3	ND	3.8
	1/29/2021	280	7.3	2.0	5.2
February	2/5/2021	200	4.6	ND	6.2
	2/12/2021	430	3.0	3.8	3.8
	2/19/2021	220	ND	ND	6.6
	2/26/2021	300	5.0	ND	8.8
March	3/5/2021	360	5.2	ND	5.8
	3/12/2021	300	4.6	ND	8.4
	3/19/2021	230	6.6	ND	20.0
	3/26/2021	380	4.8	ND	7.8
April	4/2/2021	330	3.3	ND	5.9
	4/9/2021	320	3.8	3.4	9.5
	4/16/2021	300	4.3	2.3	9.6
	4/23/2021	320	6.3	5.6	9.6
	4/30/2021	370	5.0	ND	10.0
May	5/7/2021	390	5.4	3.6	2.8
	5/14/2021	330	5.2	2.8	4.0
	5/21/2021	230	3.1	2.1	2.1
	5/28/2021	300	5.2	2.2	2.9
June	6/4/2021	210	2.5	2.3	2.3
	6/11/2021	260	2.7	2.2	2.9
	6/18/2021	230	3.9	4.6	2.2
	6/25/2021	220	3.2	2.8	2.1
July	7/2/2021	200	3.3	2.2	4.8
	7/9/2021	190	5.0	2.3	2.7
	7/16/2021	300	2.9	3.9	5.6
	7/23/2021	380	3.4	2.0	ND
	7/30/2021	200	4.8	ND	3.6
August	8/6/2021	360	5.5	2.1	6.9
	8/13/2021	230	4.8	ND	5.5
	8/20/2021	340	6.5	2.1	6.2
	8/27/2021	260	5.0	2.0	6.8
September	9/3/2021	250	4.3	2.4	4.8
	9/10/2021	260	5.3	ND	4.5
	9/17/2021	290	5.2	3.1	5.3
	9/24/2021	280	6.1	2.2	4.5
October	10/1/2021	350	4.6	2	4.6
	10/8/2021	260	2.8	ND	4.0
	10/15/2021	280	4.4	ND	4.3
	10/22/2021	240	3.1	ND	4.5
	10/29/2021	240	2.6	9.6	4.2
November	11/5/2021	290	3	3.4	2.1
	11/12/2021	290	2.2	ND	ND
	11/19/2021	300	2.1	ND	3.1
	11/24/2021	510	2.2	ND	3.8
December	12/3/2021	300	2.4	10	2.4
	12/10/2021	260	2.5	2.4	2.6
	12/17/2021	250	2.3	3.2	3.4
	12/22/2021	270	ND	3.1	3.7
	12/30/2021	340	2.6	4.2	4.2
Average		294	4	3	5
Maximum		510	8.3	10	20
Minimum		190	2.1	2	2

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITIES INFLUENT & EFFLUENT
AVERAGE AMMONIA, TEMPERATURE, pH,
ANNUAL MONTHLY AVERAGE 2021

DATE	pH	TEMP ° C	INFLUENT TOTAL AMMONIA mg/L		pH	TEMP ° C	EFFLUENT TOTAL AMMONIA mg/L	% Removal
JANUARY	7.9	14.9	51		7.1	12.2	1.69	96.7
FEBRUARY	7.9	14.6	52		7.1	13.0	2.07	96.0
MARCH	8.0	14.5	54		7.2	13.3	2.22	95.9
APRIL	7.8	15.4	55		7.3	15.5	2.02	96.3
MAY	7.8	16.8	52		7.2	16.9	0.04	99.9
JUNE	7.8	18.7	54		7.2	19.0	0.13	99.8
JULY	7.7	19.1	57		7.3	19.1	2.36	95.9
AUGUST	7.8	19.6	54		7.3	18.9	2.71	95.0
SEPTEMBER	7.8	19.2	59		7.3	18.0	3.81	93.5
OCTOBER	7.8	18.3	59		7.2	16.0	2.42	96.2
NOVEMBER	7.8	17.1	58		7.0	14.8	2.55	95.6
DECEMBER	7.9	15.4	57		7.1	12.4	1.93	96.6
AVERAGE	7.9	17.0	55		7.2	15.8	1.99	96.4
MAXIMUM	8.0	19.6	59		7.3	19.1	3.81	99.9
MINIMUM	7.7	14.5	51		7.0	12.2	0.04	93.5


Average Total Ammonia
Concentration in mg/l
70
60
50
40
30
20
10
0
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER
DECEMBER
INFLUENT TOTAL AMMONIA mg/L
EFFLUENT TOTAL AMMONIA mg/L

Relationship Between Temperature and Removal of Monthly Averages



Monitoring Well Levels

Date	Well ID	T.O.C. Elevation	Depth of GW	G.W. elev. above sea level/ft	inches
2/16/2021	GW-001	63.61	22.70	40.91	490.92
2/16/2021	GW-002	61.40	18.20	43.20	518.40
2/16/2021	GW-006	15.70	5.05	10.65	127.80
2/16/2021	GW-007	44.36	24.60	19.76	237.12
2/16/2021	GW-009	37.65	24.10	13.55	162.60
2/16/2021	GW-019	16.08	7.67	8.41	100.92

Date	Well ID	T.O.C. Elevation	Depth of GW	G.W. elev. above sea level/ft	inches
4/14/2021	GW-001	63.61	22.65	40.96	491.52
4/14/2021	GW-002	61.4	17.2	44.20	530.40
4/14/2021	GW-006	15.7	7.4	8.30	99.60
4/14/2021	GW-007	44.36	25.7	18.66	223.92
4/14/2021	GW-009	37.65	25.9	11.75	141.00
4/14/2021	GW-019	16.08	7.3	8.83	105.96

Date	Well ID	T.O.C. Elevation	Depth of GW	G.W. elev. above sea level/ft	inches
7/14/2021	GW-001	63.61	22.86	40.75	489.00
7/14/2021	GW-002	61.4	18.24	43.16	517.92
7/14/2021	GW-006	15.7	7.82	7.88	94.56
7/14/2021	GW-007	44.36	23.48	20.88	250.56
7/14/2021	GW-009	37.65	24.69	12.96	155.52
7/14/2021	GW-019	16.08	7.87	8.21	98.52

Date	Well ID	T.O.C. Elevation	Depth of GW	G.W. elev. above sea level/ft	inches
10/14/2021	GW-001	63.61	24.5	39.11	469.32
10/14/2021	GW-002	61.4	20.32	41.08	492.96
10/14/2021	GW-006	15.7	7.4	8.3	99.60
10/14/2021	GW-007	44.36	21.62	22.74	272.88
10/14/2021	GW-009	37.65	22.95	14.7	176.40
10/14/2021	GW-019	16.08	8.64	7.44	89.28

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
MONITORING WELL DATA 2021

Location	GW-001		GW-002		GW-006		GW-007		GW-009		GW-019	
Quarter	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS
Q1	4.3	130	7.5	140	5.9	140	7.1	170	3.5	130	ND	6100
Q2	5.4	120	5.3	130	6.5	180	3.4	170	3	120	ND	5500
Q3	4	130	5.4	100	5.8	180	5.4	170	2.5	150	ND	6100
Q4	2.4	150	6	110	4.8	180	8	160	2.5	150	ND	5900
AVERAGE	0.0	133	6.1	120	5.8	170	6.0	168	2.9	138	0.0	5900
MAXIMUM	5.4	150	7.5	140	6.5	180	8.0	170	3.5	150	0.0	6100
MINIMUM	2.4	120	5.3	100	4.8	140	3.4	160	2.5	120	0.0	5500

McKinleyville Community Services District
River Monitoring 2021

Upstream	RSW-001										
Month	**Date**	**Time**	**CFS**	**Temp**	**pH**	**D.O.**	**NTU**	**Conductivity**	**Ammonia**	**Hardness**	**TDS**
January	1/4/2021	8:30	910	10.3	7.3	11.1	11.2	125	ND	60	86
February	2/1/2021	9:30	3570	11.0	6.7	13.0	86.1	69	ND	59	57
March	3/1/2021	14:30	1330	11.0	6.7	11.2	7.5	103	ND	64	94
April	4/5/2021	13:20	527	15.2	7.4	11.2	1.8	129	ND	68	110
May	5/3/2021	10:45	199	16.4	6.7	10.4	0.6	159	ND	85	100
June	6/1/2021	10:35	97	19.2	7.8	9.1	1.0	165	ND	99	120
July	7/6/2021	15:00	46	22.1	8.0	9.8	0.6	213	ND	110	130
August	8/2/2021	10:40	30	18.7	7.5	9.1	0.5	205	ND	120	140
September	9/1/2021	13:20	32	20.1	7.4	8.9	0.9	192	ND	120	140
October	10/4/2021	15:00	48	17.7	7.5	10.0	0.6	183	ND	120	120
November	11/1/2021	14:45	596	15.9	6.7	9.7	40.9	144	ND	70	96
December	12/1/2021	13:30	220	14.5	7.2	11.5	1.7	110	ND	79	93
Average				16.0	7.2	10.4	12.8	150	ND	88	107
Maximum				22.1	8.0	13.0	86.1	213	ND	120	96
Minimum				10.3	6.7	8.9	0.5	69	ND	59	57

Upstream	RSW-002										
Month	**Date**	**Time**	**CFS**	**Temp**	**pH**	**D.O.**	**NTU**	**Conductivity**	**Ammonia**	**Hardness**	**TDS**
January	1/4/2021	8:40	910	10.6	7.3	11.1	10.5	132	ND	60	89
February	2/1/2021	15:30	3570	11.2	6.7	8.3	88.0	92	ND	57	77
March	3/1/2021	14:40	1330	10.4	6.8	11.3	8.1	107	ND	64	86
April	4/5/2021	13:30	527	14.8	7.5	10.9	2.1	160	ND	73	140
May	5/3/2021	10:55	199	16.9	7.0	10.6	0.6	174	ND	84	120
June	6/1/2021	10:45	97	20.1	7.7	9.2	0.9	158	ND	97	170
July	7/6/2021	15:10	46	21.5	8.1	10.0	0.4	789	ND	350	1,400
August	8/2/2021	10:50	30	19.7	7.7	9.7	0.8	1,404	ND	900	4,700
September	9/1/2021	13:30	32	19.0	7.3	8.0	1.4	1,241	ND	300	620
October	10/4/2021	15:10	48	16.9	7.2	9.0	1.3	868	ND	620	2,700
November	11/1/2021	14:55	596	16.5	6.7	9.8	35.0	160	0.1	74	130
December	12/1/2021	13:40	220	14.7	7.1	10.5	1.8	265	1.1	90	180
Average				16.0	7.3	9.9	12.6	463	0.62	231	868
Maximum				21.5	8.1	11.3	88.0	1404	1.10	900	4700
Minimum				10.4	6.7	8.0	0.4	92	0.14	57	77

WWMF	EFF-001										
Month	**Date**	**Time**	**CFS**	**Temp**	**pH**	**D.O.**	**NTU**	**Conductivity**	**Ammonia**	**Hardness**	**TDS**
January	1/4/2021	10:45	910	14.3	7.1	7.0	1.0	322	0.82	110	
February	2/1/2021	15:40	3570	12.7	7.1	8.3	1.2	316	1.4	76	
March	3/1/2021	14:15	1330	13.6	7.2	7.6	1.9	310	1.2	98	
April	4/5/2021	14:40	527	14.7	7.0	8.0	1.7	352	1.2	95	
May	5/3/2021	16:00	199	16.4	7.3	9.8	1.7	332	0.48		210
June	6/1/2021	10:00	97	19.2	7.3	7.3	6.5	302	ND		260
July	7/6/2021	15:15	46	19.7	7.4	4.3	1.8	445	1.2		260
August	8/2/2021	10:55	30	18.3	7.4	10.8	0.9	372	0.63		270
September	9/1/2021	14:40	32	18.4	7.4	3.0	2.0	322	3.3		280
October	10/4/2021	11:00	48	16.9	7.2	2.6	1.3	391	0.24		270
November	11/1/2021	11:00	596	16.7	7.3	3.7	2.8	448	1.8	70	290
December	12/1/2021	11:00	220	13.9	7.1	5.0	1.8	327	2.8	120	270
Average				16.2	7.2	6.5	2.1	353	1	0	264
Maximum				19.7	7.4	10.8	6.5	448	3	120	290
Minimum				12.7	7.0	2.6	0.9	302	0	70	210

McKinleyville Community Services District
Wastewater Management Facility
Pond Ammonia Levels in mg/L
Annual Averages 2021

Date		Pond 1	Pond 2	Pond 3	Pond 4	Pond 5
January		0.27	0.10	0.42	0.22	Empty
February		0.26	0.20	0.23	Empty	Empty
March		0.58	0.16	0.18	Empty	Empty
April		0.10	0.01	0.03	Empty	Empty
May		0.12	0.02	0.06	Empty	Empty
June		0.04	0.01	0.07	Empty	Empty
July		0.23	0.29	0.14	Empty	Empty
August		0.64	0.02	0.05	Empty	Empty
September		1.00	0.02	0.06	Empty	Empty
October		1.61	0.67	0.17	Empty	Empty
November		1.70	1.92	2.07	Empty	Empty
December		0.67	1.49	1.68	Empty	Empty
Average		0.60	0.41	0.43	0.22	
Minimum		0.04	0.01	0.03	0.22	
Maximum		1.70	1.92	2.07	0.22	

McKinleyville Community Services District
Wastewater Management Facility
Pond Temperatures in C
Annual Averages 2021

Date		Pond 1	Pond 2	Pond 3	Pond 4	Pond 5	Average Pond Temp.
January		11.9	11.6	11.4	10.8	Empty	11.5
February		11.9	12.1	12.2	Empty	Empty	12.0
March		12.6	12.8	12.8	Empty	Empty	12.7
April		16.1	16.5	16.3	Empty	Empty	16.3
May		18.5	19.4	18.6	Empty	Empty	18.9
June		20.2	20.6	19.5	Empty	Empty	20.1
July		19.6	20.0	19.6	Empty	Empty	19.8
August		19.1	20.2	19.7	Empty	Empty	19.7
September		17.8	18.0	18.2	Empty	Empty	18.0
October		15.6	15.4	15.6	Empty	Empty	15.5
November		15.2	15.2	15.4	Empty	Empty	15.2
December		11.5	11.5	11.4	Empty	Empty	11.5
Average		15.8	16.1	15.9	10.8	Empty	15.9
Minimum		11.5	11.5	11.4	10.8	Empty	11.5
Maximum		20.2	20.6	19.7	10.8	Empty	20.1

McKinleyville Community Services District
Wastewater Management Facility
Pond pH
Annual Averages 2021

Date		Pond 1	Pond 2	Pond 3	Pond 4	Pond 5	Average Pond pH
January		7.7	9.3	9.2	4.7	EMPTY	7.9
February		7.3	7.6	7.8	EMPTY	EMPTY	7.6
March		7.3	7.8	8.1	EMPTY	EMPTY	7.7
April		7.8	9.0	9.4	EMPTY	EMPTY	8.8
May		7.9	9.7	9.9	EMPTY	EMPTY	9.2
June		7.8	9.1	9.5	EMPTY	EMPTY	8.8
July		7.4	8.5	9.0	EMPTY	EMPTY	8.3
August		7.1	8.6	8.7	EMPTY	EMPTY	8.2
September		7.2	8.2	8.0	EMPTY	EMPTY	7.8
October		7.3	7.6	7.6	EMPTY	EMPTY	7.5
November		7.5	7.7	7.4	EMPTY	EMPTY	7.5
December		7.3	7.4	7.5	EMPTY	EMPTY	7.4
Average		7.5	8.4	8.5	4.7		8.1
Minimum		7.1	7.4	7.4	4.7		7.4
Maximum		7.9	9.7	9.9	4.7		9.2

McKinleyville Community Services District
Wastewater Management Facility
Pond Dissolved Oxygen in mg/L
Annual Averages 2021

Date		Pond 1	Pond 2	Pond 3	Pond 4	Pond 5	Average Pond D.O.
January		7.7	9.3	9.2	4.7	Empty	7.7
February		9.8	9.8	10.3	Empty	Empty	10.0
March		8.0	10.6	11.2	Empty	Empty	9.9
April		10.7	14.1	14.1	Empty	Empty	13.0
May		9.5	13.6	10.9	Empty	Empty	11.3
June		7.9	11.1	5.6	Empty	Empty	8.2
July		5.9	7.9	6.3	Empty	Empty	6.7
August		3.4	9.9	4.8	Empty	Empty	6.0
September		3.1	7.2	5.2	Empty	Empty	5.1
October		4.3	3.9	4.4	Empty	Empty	4.2
November		10.2	7.5	4.0	Empty	Empty	7.2
December		7.7	5.9	5.9	Empty	Empty	6.5
Average		7.4	9.2	7.7	4.7	Empty	
Minimum		3.1	3.9	4.0	4.7	Empty	
Maximum		10.7	14.1	14.1	4.7	Empty	

McKinleyville Community Services District
Wastewater Management Facility
Pond Depths, Elevation in Feet Above Sea Level
Annual Averages 2021

Date		Pond 1	Pond 2	Pond 3	Pond 4	Pond 5	Average Pond Depth
January		61.9	60.6	60.5	60.7	Empty	60.9
February		61.1	59.9	59.8	59.9	Empty	60.2
March		61.3	59.7	59.5	Empty	Empty	60.2
April		60.5	59.9	59.9	Empty	Empty	60.1
May		60.7	60.3	60.3	Empty	Empty	60.4
June		60.4	59.0	59.0	Empty	Empty	59.5
July		60.9	60.6	60.6	Empty	Empty	60.7
August		60.5	60.3	60.3	Empty	Empty	60.4
September		60.2	60.1	60.0	Empty	Empty	60.1
October		60.5	60.2	60.2	Empty	Empty	60.3
November		60.2	60.1	60.0	Empty	Empty	60.1
December		60.4	60.2	60.2	Empty	Empty	60.3
Average		60.7	60.1	60.0	60.3	0.0	
Minimum		60.2	59.0	59.0	59.9	0.0	
Maximum		61.9	60.6	60.6	60.7	0.0	

MCKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
ELECTRIC, CL2, SO2, WATER and RAIN Monthly Average DATA
ANNUAL 2021

DATE	PG&E kw Hours	CL_2 USAGE lbs.	SO2 USAGE lbs.	RAIN inches
JANUARY	1837	42	38	0.25
FEBRUARY	1817	33	38	0.21
MARCH	1817	26	31	0.17
APRIL	1856	23	32	0.02
MAY	2137	44	0.3	0.01
JUNE	2213	50	0	0.07
JULY	2121	18	0	0.00
AUGUST	2178	23	0	0.00
SEPTEMBER	2240	20	0	0.06
OCTOBER	2121	19	0.06	0.17
NOVEMBER	1931	40	44	0.13
DECEMBER	1910	21	21	0.23

AVERAGE	2015	30	17	0.11
MAXIMUM	2240	50	44	0.25
MINIMUM	1817	18	0	0.00

WWMF WATER METER			
DATE	LOW	HIGH	CU.FT.
START	02645	00204	
END	09787	05302	

Month | Year 2021

McKinleyville WWMF Annual Averages

Month	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids
January	0.957	1.282	0.039	80	357	260	2.5	1.6	2573	2580	2491	2214	6071	610	16	89
February	1.087	1.260	0.042	80	285	263	3.5	2.5	2320	2294	2252	2021	4763	554	18	90
March	1.038	1.031	0.042	80	313	258	5.6	3.4	2210	2187	2090	1903	4371	496	15	91
April	0.902	0.957	0.037	80	321	310	4.7	3.2	2198	2106	2101	1915	4492	528	15	91
May	0.862	0.755	0.032	80	325	284	2.8	1.3	2285	2191	2165	1945	4822	472	15	90
June	0.842	0.773	0.030	80	237	329	4.0	1.2	2434	2341	2360	2094	5399	534	17	89
July	0.812	0.785	0.032	80	261	271	4.0	1.9	2509	2310	2457	2156	6082	467	12	88
August	0.818	0.820	0.032	80	284	295	3.7	1.5	2460	2224	2453	2142	6090	417	9	87
September	0.819	0.806	0.028	80	270	285	5.5	2.1	2754	2668	2659	2313	6469	457	17	87
October	0.822	0.809	0.034	80	274	286	4.0	2.1	2718	2570	2545	2241	5971	440	11	88
November	0.849	1.090	0.034	80	336	270	2.1	2.0	2597	2497	2534	2252	5468	449	14	89
December	0.902	0.962	0.034	80	284	301	2.2	2.5	2672	2518	2535	2265	5696	452	15	89
Minimum	0.812	0.755	0.028	80	237	258	2.1	1.2	2198	2106	2090	1903	4371	417	9	87
Maximum	1.087	1.282	0.042	80	357	329	5.6	3.4	2754	2668	2659	2313	6469	610	18	91
Average	0.892	0.944	0.035	80	296	284	3.7	2.1	2478	2374	2387	2122	5474	490	14	89

Month	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH
January	2109	2835	68763	1966	26	245	35	0.048	7.9	7.1	7.1	6.9	6.9	6.9	6.9
February	2327	2613	61559	1664	36	246	37	0.048	7.9	6.9	7.1	6.8	6.8	6.8	6.8
March	2192	2710	58675	1516	51	238	38	0.053	8.0	7.0	7.2	6.8	6.8	6.9	6.9
April	2313	2418	57437	1383	38	251	41	0.047	7.8	7.0	7.3	6.9	6.9	6.9	6.9
May	2040	2342	59734	1277	20	218	46	0.045	7.8	7.1	7.2	6.9	6.9	6.9	7.0
June	2303	1668	63715	1349	23	227	47	0.030	7.8	7.1	7.2	7.0	7.0	7.0	7.0
July	1833	1767	64306	1649	29	190	39	0.031	7.3	7.2	7.7	7.0	7.1	7.0	7.1
August	1993	1938	62497	1563	26	170	177	0.034	7.8	7.3	7.3	7.1	7.1	7.1	7.2
September	1914	1840	72352	1300	38	172	307	0.030	7.8	7.2	7.3	7.1	7.0	7.0	7.1
October	1939	1904	70568	1678	27	173	42	0.032	7.8	7.2	7.2	7.0	7.0	7.0	7.0
November	1905	2370	67980	1550	19	177	44	0.039	7.8	7.0	7.0	6.9	6.9	6.9	6.9
December	2227	1948	69268	1620	17	178	42	0.032	7.9	7.0	7.1	6.9	6.9	6.9	6.9
Minimum	1833	1668	57437	1277	17	170	35	0.030	7.3	6.9	7.0	6.8	6.8	6.8	6.8
Maximum	2327	2835	72352	1966	51	251	307	0.053	8.0	7.3	7.7	7.1	7.1	7.1	7.2
Average	2091	2196	64738	1543	29	207	74	0.039	7.8	7.1	7.2	6.9	6.9	6.9	7.0

Month	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU
January	283	129	124	120	51	0.03	0.04	1.73	1.69	2.3	3.9	3.1	2.4	0.7	1.2
February	274	121	120	114	52	0.07	0.05	1.78	2.06	1.9	4.7	3.7	3.0	1.3	1.7
March	284	117	114	113	54	0.07	0.08	1.71	2.22	1.2	2.0	1.7	2.1	1.7	1.8
April	305	131	130	126	55	0.07	0.09	1.53	2.02	1.2	1.4	1.5	1.7	1.6	1.7
May	316	143	145	144	52	0.15	0.26	0.01	0.04	1.0	0.8	1.1	1.0	0.8	0.6
June	357	146	155	154	54	0.20	0.31	0.06	0.13	1.6	1.4	1.1	1.1	1.2	0.9
July	336	163	158	159	57	0.03	0.06	2.16	2.38	1.0	0.7	0.8	0.7	1.4	1.3
August	365	174	168	169	54	0.06	0.09	2.39	2.71	1.0	0.8	1.0	0.7	1.1	1.3
September	358	179	174	174	59	0.12	0.18	2.23	3.81	1.0	0.7	0.8	0.7	1.4	2.0
October	354	170	162	158	60	0.11	0.36	1.42	2.42	2.4	2.4	2.5	1.3	1.4	1.7
November	331	155	147	148	58	0.22	0.46	1.38	2.55	3.2	3.9	3.9	2.4	0.9	1.7
December	306	144	138	141	57	0.23	0.36	0.84	1.93	2.7	3.3	3.2	2.5	0.7	2.4
Minimum	274	117	114	113	51	0.03	0.04	0.01	0.04	1.0	0.7	0.8	0.7	0.7	0.6
Maximum	365	179	174	174	60	0.23	0.46	2.39	3.81	3.2	4.7	3.9	3.0	1.7	2.4
Average	322	148	145	143	55	0.11	0.19	1.44	2.00	1.7	2.2	2.0	1.6	1.2	1.5

Month	January	Year	2021	McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M
1	overcast	0.882	1.175	0.036	80	400													2942						
2	overcast	0.897	1.167	0.036	80	400													2992						
3	overcast	0.945	1.160	0.036	80	400													3153						
4	Rain	0.975	1.328	0.036	80	400	183	0.4	1.0	2778	2770	2599	2300	6422	550		88	1488	3253	74033	1928	4	212	38	0.053
5	overcast	0.930	1.244	0.036	80	400	294	3.2	1.0	2654	2679	2598	2292	5920	580		88	2280	3102	71164	1777	33	223	39	0.051
6	Rain	0.924	1.255	0.036	80	400	384	2.6	2.2	2602	2704	2549	2236	6200	550		88	2959	3082	70803	1861	27	216	37	0.052
7	overcast	0.917	1.377	0.036	80	400	102	1.6	0.8	2653	2697	2464	2181	5910	580		89	780	3059	71390	1774	18	235	40	0.053
8	overcast	0.933	1.470	0.036	80	420	220	2.8	1.6	2530	2480	2573	2268	6028	590	12	88	1712	3268	66853	1810	34	229	36	0.054
9	clear	0.930	1.473	0.036	74	420													3258						
10	overcast	1.022	1.467	0.036	80	420													3580						
11	overcast	0.946	1.476	0.036	80	420	351	1.0	0.4	2757	2783	2528	2252	5922	600		89	2769	3314	73926	1778	12	237	41	0.055
12	Rain	0.987	1.472	0.037	80	420	340	0.6	1.4	2740	2699	2596	2306	6070	610		89	2799	3457	72578	1873	7	235	39	0.056
13	Foggy	1.041	1.458	0.037	80	420	305	1.4	1.4	2696	2688	2613	2323	6614	620		89	2648	3646	71844	2041	17	237	35	0.059
14	overcast	0.974	1.468	0.038	80	420	94	1.8	1.8	2616	2629	2594	2296	6484	570		89	764	3412	69989	2055	22	220	34	0.056
15	overcast	0.938	1.475	0.038	80	410	197	4.4	1.2	2787	2624	2501	2227	6352	600	13	89	1541	3207	72204	2013	54	240	35	0.054
16	Foggy	0.939	1.471	0.038	80	410													3211						
17	clear	0.957	1.387	0.038	80	410													3272						
18	clear	0.955	1.340	0.038	80	410													3266						
19	clear	0.897	1.342	0.038	80	410	223	2.6	1.0	2565	2586	2486	2217	5968	600		89	1668	3067	68735	1891	29	241	36	0.052
20	clear	0.875	1.226	0.041	80	410	297	1.2	2.0	2501	2516	2369	2118	6422	640		89	2167	2992	66947	2196	12	270	30	0.053
21	clear	0.875	1.112	0.040	80	410	327	3.4	2.2	2469	2452	2513	2230	5970	650		89	2386	2992	65666	1992	32	259	32	0.050
22	overcast	0.883	1.110	0.042	80	230	171	4.0	1.4	2498	2464	2394	2132	6362	640	7	89	1259	1694	66213	2228	37	267	29	0.030
23	clear	0.908	1.107	0.042	80	230													1742						
24	overcast	0.956	0.999	0.042	80	230													1834						
25	clear	0.924	0.939	0.040	80	230	272	3.8	2.2	2460	2434	2437	2184	6578	660		90	2096	1772	65306	2194	30	271	29	0.030
26	overcast	0.898	0.933	0.043	80	230	111	2.2	1.2	2473	2439	2344	2086	5528	640		89	831	1723	65546	1982	17	273	33	0.031
27	overcast	0.997	0.923	0.043	80	230	256	2.6	1.6	2438	2498	2356	2109	5882	650		90	2129	1912	65866	2109	20	276	31	0.034
28	Rain	1.167	1.036	0.043	80	230	605	6.0	4.4	2415	2506	2396	2141	5414	630		89	5888	2239	65666	1942	52	263	33	0.039
29	clear	1.058	1.398	0.043	80	280	216	2.2	1.6	2255	2374	2427	2170	5302	630	30	89	1906	2471	61769	1901	26	260	32	0.043
30	overcast	1.039	1.541	0.043	80	280													2426						
31	Rain	1.097	1.413	0.043	80	280													2562						
Minimum		0.875	0.923	0.036	74	230	94	0.4	0.4	2255	2374	2344	2086	5302	550	7	88	764	1694	61769	1774	4	212	29	0.030
Maximum		1.167	1.541	0.043	80	420	605	6.0	4.4	2787	2783	2613	2323	6614	660	30	90	5888	3646	74033	2228	54	276	41	0.059
Average		0.957	1.282	0.039	80	357	260	2.5	1.6	2573	2580	2491	2214	6071	610	16	89	2109	2835	68763	1966	26	245	35	0.048

	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	8.4		7.2																			1.2			0.8/0.8		
2	8.2		7.3																			1.0			0.8/0.8		
3	7.4		7.1																			1.1			0.8/0.8		
4	8.0	7.1	7.1	7.0	7.0	6.9	7.1	300	140	140	120	58	0.11	0.03	0.95	1.03	1.6	1.5	1.4	1.4	0.6	1.0			0.8/0.8	5'/3'	5'/3'
5	7.8	7.1	7.2	6.9	6.9	6.9	6.9	300	140	120	120	60	0.03	0.02	1.58	0.58	1.6	4.1	2.1	1.9	0.6	1.1			0.8/0.8	5'/2.5'	5'/2.5'
6	8.5	7.0	7.2	6.9	6.9	6.9	7.0	340	140	140	140	66	0.05	0.52	1.64	1.62	2.0	2.2	2.3	1.9	0.8	1.2			0.8/0.8	5'/2.5'	5'/2.5'
7	7.6	7.0	7.2	6.9	6.9	6.9	6.9	240	120	140	120	36	0.02	0.00	1.66	1.75	2.2	3.4	2.8	2.2	0.7	0.9			0.8/0.8	5'/2.5'	5'/2'
8	8.4	7.1	7.1	6.9	6.9	6.9	6.9	280	140	120	120	40	0.01	0.02	2.14	1.18	1.9	3.3	2.4	3.1	0.7	0.9	7.1	8.3	0.8/0.8	5'/2'	4'/2'
9	8.1		7.1																			1.2			0.8/0.8		
10	7.4		7.1																			1.3			0.8/0.8		
11	8.1	7.1	7.2	6.9	6.9	6.9	6.9	300	140	140	120	56	0.04	0.00	2.08	2.07	1.2	2.1	2.0	1.7	0.9	1.1			0.8/0.8	5'/3'	5'/2'
12	8.1	7.1	7.1	6.9	6.9	6.9	6.9	280	140	140	120	48	0.00	0.00	1.99	2.02	1.4	2.2	1.6	1.7	0.7	1.1			0.8/0.8	6'/3'	6'/3'
13	8.1	7.1	7.3	6.9	6.9	6.9	7.0	280	120	120	120	46	0.09	0.09	1.82	1.91	2.2	2.8	1.9	1.8	0.6	1.0			0.8/0.8	5'/2'	5'/2.5'
14	7.6	7.1	7.1	6.9	6.9	6.9	6.9	180	120	120	120	28	0.00	0.02	2.06	1.83	1.4	2.2	1.9	1.7	0.7	1.0			0.8/0.8	5'/2.5'	4'/2.5'
15	8.3	7.1	7.1	6.9	6.9	6.9	7.0	280	120	120	120	52	0.00	0.02	1.82	1.43	1.4	2.2	2.3	1.9	0.7	1.1	6.8	6.8	0.8/0.8	5'/2.5'	5'/2'
16	7.5		7.2																			1.3			0.8/0.8		
17	8.4		7.1																			1.2			0.8/0.8		
18	7.4		7.1																			1.5			0.8/0.8		
19	8.2	7.1	7.3	6.9	6.9	6.9	6.9	300	120	120	120	66	0.03	0.02	1.59	1.69	1.2	2.5	1.8	1.7	0.7	1.1			0.8/0.8	6'/2.5'	5'/2.5'
20	8.3	7.1	7.3	7.0	7.0	7.0	7.0	340	120	120	120	74	0.00	0.00	1.56	1.24	1.2	3.0	2.8	2.0	0.5	1.2			0.8/0.8	5'/2.5'	5'/2.5'
21	7.5	7.0	7.1	6.9	6.9	6.9	6.9	300	140	120	120	54	0.05	0.05	1.97	2.22	2.0	3.2	3.6	2.4	0.8	1.3			0.8/0.8	6'/3'	5'/3'
22	8.2	7.1	7.1	6.8	6.8	6.8	6.8	260	140	120	120	36	0.05	0.01	2.67	2.19	1.6	4.5	3.1	2.8	1.0	1.5	8.3	3.8	0.8/0.8	5'/2.5'	5'/3'
23	8.0		7.2																			1.5			0.8/0.8		
24	7.5		7.2																			1.6			0.8/0.8		
25	7.7	7.3	6.9	7.1	7.1	7.0	7.1	280	140	120	120	52	0.02	0.05	1.30	2.38	1.9	4.7	4.0	3.0	0.8	1.5			0.8/0.8	5.5'/3'	6'/3'
26	7.4	7.0	7.2	6.8	6.8	6.9	6.9	240	120	120	120	40	0.00	0.00	1.90	2.24	1.8	5.2	3.5	2.9	0.8	1.2			0.8/0.8	5'/3'	5'/2.5'
27	8.1	7.0	7.1	6.9	6.8	6.8	6.9	320	120	120	120	62	0.00	0.00	1.75	1.99	3.7	6.8	4.5	3.1	0.7	1.3			0.8/0.8	5'/3'	6'/3'
28	8.0	7.1	7.0	7.0	7.0	7.0	7.0	280	120	100	100	54	0.00	0.00	0.90	1.10	6.5	8.7	6.8	4.3	0.8	1.3			0.8/0.8	5.5'/3'	6'/3'
29	7.7	7.0	6.9	6.9	6.9	6.9	6.9	280	120	120	120	38	0.00	0.00	1.40	1.60	7.1	9.5	8.1	4.8	0.7	1.1	7.3	5.2	0.8/0.8	6'/3'	6'/3'
30	7.3		7.0																			1.3			0.8/0.8		
31	7.7		7.0																			1.4			0.8/0.8		
Minimum	7.3	7.0	6.9	6.8	6.8	6.8	6.8	180	120	100	100	28	0.00	0.00	0.90	0.58	1.2	1.5	1.4	1.4	0.5	0.9	6.8	3.8			
Maximum	8.5	7.3	7.3	7.1	7.1	7.0	7.1	340	140	140	140	74	0.11	0.52	2.67	2.38	7.1	9.5	8.1	4.8	1.0	1.6	8.3	8.3			
Average	7.9	7.1	7.1	6.9	6.9	6.9	6.9	283	129	124	120	51	0.03	0.04	1.73	1.69	2.3	3.9	3.1	2.4	0.7	1.2	7.4	6.0			

Month	February	Year	2021	McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	R	1.094	1.428	0.042	80	280	391	1.8	2.2	2453	2402	2378	2125	5080	650		89	3567	2555	64785	1779	21	273	36	0.045	8.2	6.9	7.1	6.9	6.9	6.9	6.9	280	120	120	120	62	0.34	0.28	2.04	1.80	2.8	4.9	5.6	3.8	0.8	1.2			0.8/0.8	6'/3'	5.5'/2.5'
2	O	1.101	1.480	0.042	80	280	302	1.2	0.8	2402	2427	2394	2070	6124	590		86	2773	2571	64438	2145	15	246	30	0.047	7.6	6.9	6.8	6.9	6.9	6.9	6.9	260	120	120	120	58	0.12	0.08	2.22	1.94	3.6	4.8	4.4	3.2	0.9	1.5			0.8/0.8	6'/2'	6'/2'
3	R	1.114	1.504	0.042	80	280	324	2.0	1.4	2401	2376	2348	2083	6420	600		89	3010	2601	63744	2249	25	256	28	0.047	7.7	6.9	7.0	6.9	6.9	6.9	6.9	320	120	120	120	60	0.08	0.06	2.02	1.86	2.8	4.6	4.2	3.1	0.9	1.4			0.8/0.8	6'/2'	5.5'/2.5'
4	C	1.054	1.517	0.042	80	280	213	1.0	0.8	2389	2503	2302	2055	5208	560		89	1872	2461	65279	1824	13	243	36	0.045	7.8	6.9	6.9	6.8	6.8	6.8	6.8	240	120	120	120	38	0.00	0.00	0.99	1.11	2.6	3.3	3.8	3.2	1.0	1.0			0.8/0.8	5'/2'	5'/2.5'
5	C	1.017	1.445	0.042	80	200	361	1.0	1.0	2367	2450	2410	2150	5528	550	28	89	3062	1696	64278	1936	12	228	33	0.030	7.7	6.8	6.9	6.8	6.8	6.8	6.8	240	120	120	120	48	0.00	0.00	1.64	1.24	2.1	3.6	3.4	2.9	1.0	1.2	6.2	4.6	0.8/0.8	5'/2'	5.5'/2'
6	C	1.034	1.406	0.042	80	200													1725							7.5		7.1																		1.3			0.8/0.8		
7	C	1.062	1.378	0.042	80	200													1771							8.0		7.2																		1.2			0.8/0.8		
8	O	0.978	1.102	0.042	80	200	132	0.8	1.2	2201	2202	2258	2020	4890	590		89	1077	1631	58754	1713	7	261	34	0.030	7.6	6.8	7.2	6.8	6.7	6.8	6.7	220	120	140	120	30	0.15	0.01	0.72	1.03	1.1	5.8	5.0	3.3	0.4	1.4			0.8/0.8	5'/1.5'	5'/1.5'
9	O	0.933	1.095	0.042	80	200	282	1.2	1.0	2313	2277	2271	2030	4720	540		89	2194	1556	61249	1653	11	238	37	0.029	8.1	6.7	7.1	6.8	6.8	6.8	6.8	280	120	120	100	56	0.11	0.02	0.02	0.06	1.3	7.0	4.7	3.4	0.5	0.7			0.8/0.8	6'/1.5'	5.5'/1.5'
10	C	0.964	1.102	0.042	80	200	355	3.8	3.2	2199	2211	2245	2012	4326	550		90	2854	1608	58847	1515	35	245	38	0.030	8.5	6.7	7.2	6.8	6.7	6.8	6.7	380	120	140	120	76	0.22	0.06	1.45	2.25	1.2	6.7	5.2	3.4	1.5	2.0			0.8/0.8	7'/2'	6'/1.5'
11	R	1.031	1.065	0.042	80	200	355	2.6	2.8	2273	2281	2260	2029	4190	550		90	3052	1720	60769	1468	23	243	41	0.032	8.3	6.8	7.2	6.8	6.7	6.8	6.8	380	140	140	120	68	0.06	0.04	1.38	2.22	1.7	6.5	4.9	3.4	0.9	1.9			0.8/0.8	6'/2'	5'/1.5'
12	R	1.081	1.104	0.042	80	430	337	2.4	1.4	2255	2238	2240	2001	4090	550	24	89	3038	3877	59955	1433	22	246	41	0.073	8.4	6.8	7.1	6.7	6.7	6.8	6.7	340	120	120	120	72	0.01	0.00	1.43	2.09	2.6	7.1	5.3	3.6	0.9	1.6	3.8	3.0	0.8/0.8		
13	O	1.164	1.138	0.042	80	430													4174							7.9		7.0																		1.6			0.8/0.8		
14	R	1.166	1.169	0.042	80	430													4182							7.5		6.8																		1.5			0.8/0.8		
15	R	1.305	1.181	0.042	80	430													4680							7.2		6.8																		1.9			0.8/0.8		
16	C	1.187	1.205	0.042	80	430	188	4.8	5.4	2422	2254	2222	2008	4850	530		90	1861	4257	62397	1699	48	239	36	0.079	8.1	6.9	7.0	6.9	6.8	6.8	6.9	240	120	120	100	46	0.10	0.08	1.76	3.00	1.4	5.3	3.4	3.2	1.3	1.8			0.8/0.8	5'/2.5'	6'/3'
17	C	1.100	1.242	0.042	80	430	256	5.2	4.0	2331	2286	2207	2004	3770	530		91	2349	3945	61609	1321	54	240	45	0.074	8.1	6.9	7.3	6.7	6.7	6.8	6.7	260	120	100	100	48	0.00	0.00	2.47	2.78	1.4	4.7	3.0	2.9	1.8	1.8			0.8/0.8	5'/2.5'	5'/2'
18	R	1.125	1.247	0.040	80	430	186	5.6	3.2	2300	2269	2247	2032	4654	550		90	1745	4034	60969	1553	58	245	38	0.074	8.0	7.0	7.1	6.8	6.8	6.8	6.8	260	120	100	100	48	0.05	0.06	2.41	2.74	1.3	3.8	2.9	2.6	1.8	1.9			0.8/0.8	5'/2'	5'/2.5'
19	O	1.160	1.247	0.042	80	220	128	7.0	3.8	2290	2268	2214	2004	4832	550	8	91	1238	2128	60822	1693	73	248	34	0.040	8.3	7.0	7.0	6.8	6.7	6.8	6.8	220	120	100	100	32	0.03	0.03	2.11	2.24	1.7	4.2	3.2	3.2	1.5	1.8	6.6	0.0	0.8/0.8	6'/3'	5'/2.5'
20	S	1.234	1.245	0.042	80	220													2264							7.9		7.1																		2.1			0.8/0.8		
21	C	1.184	1.256	0.042	80	220													2172							7.2		6.8																		2.1			0.8/0.8		
22	C	1.111	1.259	0.042	80	220	296	5.4	2.6	2318	2315	2161	1958	4598	560		91	2743	2038	61823	1611	57	259	37	0.039	8.0	7.0	7.0	6.8	6.8	6.8	6.8	280	120	120	120	52	0.05	0.06	2.25	2.58	1.4	3.2	2.2	2.4	2.1	2.1			0.8/0.8	4.5'/2'	6'/3'
23	C	1.047	1.261	0.042	80	220	286	5.4	3.2	2318	2198	2186	1981	4454	520		91	2497	1921	60262	1560	57	238	37	0.036	7.8	7.0	7.2	6.8	6.8	6.8	6.8	280	120	120	120	54	0.01	0.01	2.29	2.48	1.2	2.9	2.0	2.3	1.7	1.9			0.8/0.8	5'/2.5'	5.5'/3'
24	C	1.072	1.248	0.042	80	220	180	4.6	3.4	2348	2189	2119	1914	4098	530		90	1609	1967	60542	1435	48	250	41	0.039	7.9	7.0	7.2	6.8	6.8	6.8	6.8	220	120	120	120	46	0.00	0.01	2.17	2.80	1.5	3.1	2.2	2.4	1.9	2.1			0.8/0.8	5'/2.5'	4'/2'
25	C	1.037	1.208	0.042	80	220	225	6.2	2.2	2241	2191	2197	1993	4298	520		91	1946	1903	59141	1506	62	237	38	0.036	8.0	7.2	7.0	6.8	6.8	6.8	6.9	280	120	120	100	62	0.03	0.03	2.24	2.80	1.5	3.4	2.3	2.5	1.9	2.0			0.8/0.8	4'/2.5'	5'/2.5'
26	O	1.008	1.227	0.042	80	300	206	4.8	3.6	2253	2241	2122	1929	4362	510	10	91	1732	2522	59968	1528	49	240	38	0.049	8.4	7.0	7.2	6.8	6.8	6.8	6.7	220	120	120	120	34	0.02	0.03	2.24	2.20	2.0	3.5	2.4	2.5	1.5	2.3	8.8	5.0	0.8/0.8	5'/2'	5'/2'
27	C	1.023	1.254	0.042	80	300													2560							8.4		7.1																		2.2			0.8/0.8		
28	C	1.056	1.264	0.042	80	300													2642							8.4		7.1																		2.0			0.8/0.8		
Minimum		0.933	1.065	0.040	80	200	128	0.8	0.8	2199	2189	2119	1914	3770	510	8	86	1077	1556	58754	1321	7	228	28	0.030	7.2	6.7	6.8	6.7	6.7	6.7	6.7	220	120	100	100	30	0.00	0.00	0.02	0.06	1.1	2.9	2.0	2.3	0.4	0.7	3.8	0.0			
Maximum		1.305	1.517	0.042	80	430	391	7.0	5.4	2453	2503	2410	2150	6420	650	28	91	3567	4680	65279	2249	73	273	45	0.082	8.5	7.2	7.3	6.9	6.9	6.9	6.9	380	140	140	120	76	0.34	0.28	2.47	3.00	3.6	7.1	5.6	3.8	2.1	2.3	8.8	5.0			
Average		1.087	1.260	0.042	80	285	263	3.5	2.5	2320	2294	2252	2021	4763	554	18	90	2327	2613	61559	1664	36	246	37	0.048	7.9	6.9	7.1	6.8	6.8	6.8	6.8	274	121	120	114	52	0.07	0.05	1.78	2.06	1.9	4.7	3.7	3.0	1.3	1.7	6.4	3.2			

Month March | Year 2021 | McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids
1	C	1.004	1.265	0.042	80	300	259	5.2	3.2	2207	2257	2177	1977	4182	500		91
2	C	0.988	1.264	0.042	80	300	220	6.2	2.8	2183	2268	2130	1928	4786	510		91
3	C	0.959	1.263	0.042	80	300	324	7.6	8.0	2267	2247	2100	1906	4600	520		91
4	C	0.945	1.243	0.042	80	300	253	5.2	4.6	2205	2177	2110	1903	4620	480		90
5	R	1.051	0.810	0.042	80	360	348	4.6	3.8	2174	2200	2174	1957	4828	490	14	90
6	C	1.185	0.802	0.042	80	360											
7	C	1.163	0.860	0.042	80	360											
8	R	1.091	0.961	0.042	80	360	197	7.4	2.2	2258	2107	2104	1915	4282	510		91
9	R	1.094	1.087	0.042	80	360	225	6.0	3.4	2266	2085	2038	1852	4730	490		91
10	R	1.093	1.196	0.042	80	360	255	10.6	3.6	2235	2132	2112	1916	4374	480		91
11	C	1.047	1.293	0.042	80	360	241	6.4	2.4	2260	2129	2080	1893	4620	490		91
12	C	1.031	1.373	0.042	80	300	187	6.4	2.6	2234	2216	2065	1868	4284	490	4	90
13	O	1.036	1.428	0.042	80	300											
14	O	1.082	1.344	0.040	80	300											
15	O	1.116	1.454	0.042	80	300	262	7.0	3.8	2210	2180	2071	1893	4398	480		91
16	C	1.061	1.352	0.040	80	300	236	3.8	3.0	2216	2116	2080	1888	4190	460		91
17	C	1.039	1.109	0.039	80	300	182	5.0	3.4	2175	2182	2054	1864	4028	470		91
18	O	1.023	0.852	0.042	80	300	217	5.2	5.8	2218	2299	2126	1938	4126	470		91
19	O	1.017	0.847	0.042	80	230	155	6.0	3.0	2260	2274	2055	1875	4360	460	21	91
20	C	1.086	0.918	0.042	80	230											
21	C	1.117	1.001	0.042	80	230											
22	O	1.045	1.088	0.042	80	230	312	9.2	4.8	2189	2272	2121	1923	4278	500		91
23	C	1.030	1.161	0.039	80	230	198	6.0	4.6	2157	2199	2095	1907	4076	480		91
24	C	1.005	1.233	0.042	80	230	314	6.4	3.0	2217	2220	2079	1918	4310	520		92
25	O	0.996	1.103	0.042	80	230	304	1.4	1.0	2176	2202	2104	1938	4158	510		92
26	C	0.983	1.098	0.042	80	380	248	2.0	1.2	2148	2153	2110	1945	4220	520	20	92
27	C	0.987	0.853	0.042	80	380											
28	C	1.015	0.850	0.042	80	380											
29	C	0.973	0.325	0.042	80	380	319	4.2	3.2	2194	2171	2088	1898	4004	520		91
30	C	0.958	0.000	0.042	80	380	260	3.2		2209	2109	2015	1834	4806	530		91
31	C	0.949	0.518	0.040	80	380	426	2.8	0.8	2181	2100	1977	1831	4268	530		93
Minimum		0.945	0.000	0.039	80	230	155	1.4	0.8	2148	2085	1977	1831	4004	460	4	90
Maximum		1.185	1.454	0.042	80	380	426	10.6	8.0	2267	2299	2177	1977	4828	530	21	93
Average		1.038	1.031	0.042	80	313	258	5.6	3.4	2210	2187	2090	1903	4371	496	15	91

	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity
1	2169	2512	59568	1465	55	230	39	0.048	8.2	6.9	7.2	6.9	6.9	6.9	6.9	280	120	120	120
2	1813	2472	59394	1676	65	239	34	0.048	8.0	7.0	7.2	7.0	7.0	7.0	7.0	280	120	120	120
3	2591	2399	60235	1611	80	248	36	0.047	8.4	7.0	7.3	6.8	6.8	6.8	6.7	320	120	120	120
4	1994	2364	58473	1618	54	227	35	0.047	8.0	6.8	7.1	6.8	6.8	6.8	6.8	320	100	120	120
5	3050	3156	58367	1691	31	225	34	0.060	7.8	7.0	7.2	6.9	6.9	6.9	6.9	320	100	120	120
6		3558							7.5		7.1								
7		3492							8.0		7.2								
8	1792	3276	58247	1500	59	242	37	0.064	7.9	6.9	7.3	6.8	6.8	6.8	6.8	260	120	120	120
9	2053	3285	58060	1657	54	240	34	0.066	8.0	7.0	7.3	6.8	6.8	6.8	6.8	260	120	120	120
10	2324	3282	58273	1532	106	227	36	0.064	8.3	7.0	7.1	6.8	6.8	6.8	6.8	320	120	120	100
11	2104	3144	58567	1618	69	236	35	0.062	8.0	6.9	7.3	6.8	6.8	6.8	6.8	260	100	100	100
12	1608	2580	59381	1501	73	237	38	0.052	8.1	6.9	7.2	6.8	6.8	6.8	6.8	220	100	100	100
13		2592							8.5		7.2								
14		2707							7.3		7.3								
15	2439	2792	58580	1541	85	232	36	0.055	8.0	7.0	7.2	6.8	6.8	6.9	6.8	220	120	100	100
16	2088	2655	57806	1398	43	221	40	0.053	8.1	7.0	7.2	6.8	6.8	6.8	6.8	300	120	100	100
17	1577	2600	58140	1310	46	229	43	0.052	8.1	6.9	7.3	6.8	6.8	6.8	6.9	300	120	100	100
18	1851	2560	60275	1445	37	221	41	0.049	8.0	7.0	7.2	6.9	6.8	6.9	6.8	280	120	100	100
19	1315	1951	60502	1527	42	224	39	0.039	8.2	7.0	7.1	6.8	6.8	6.8	6.8	220	120	100	100
20		2083							8.0		7.1								
21		2143							8.1		7.2								
22	2719	2005	59528	1498	83	236	38	0.039	8.0	7.0	7.0	6.9	6.9	6.9	7.0	320	120	120	120
23	1701	1976	58126	1326	58	229	42	0.039	8.2	7.0	7.2	6.9	6.9	6.9	7.0	300	120	120	120
24	2632	1928	59207	1510	66	250	38	0.038	7.9	7.0	7.2	6.8	6.8	6.8	6.8	280	120	120	120
25	2525	1911	58420	1456	13	242	40	0.037	7.8	6.9	7.1	6.9	6.9	6.9	6.9	320	120	120	120
26	2033	3115	57393	1478	18	246	38	0.060	7.5	6.9	7.3	6.9	6.9	6.8	6.8	280	120	120	120
27		3128							7.5		7.2								
28		3217							8.1		7.3								
29	2589	3084	58247	1403	11	249	41	0.061	8.1	7.0	7.2	6.9	6.9	6.9	7.0	320	120	120	120
30	2077	3036	57619	1683	0	263	34	0.062	8.2	6.9		6.9	6.9	6.9	6.9	260	120	120	120
31	3372	3008	57126	1424	12	268	40	0.062	8.1	6.9	7.1	6.8	6.8	6.9	6.8	300	120	120	120
Minimum	1315	1911	57126	1310	0	221	34	0.039	7.3	6.8	7.0	6.8	6.8	6.8	6.7	220	100	100	100
Maximum	3372	3558	60502	1691	106	268	43	0.067	8.5	7.0	7.3	7.0	7.0	7.0	7.0	320	120	120	120
Average	2192	2710	58675	1516	51	238	38	0.053	8.0	7.0	7.2	6.8	6.8	6.9	6.9	284	117	114	113

	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	58	0.05	0.12	1.97	2.54	1.3	2.6	2.2	2.9	2.1	1.9			0.8/0.8	4'/2'	4'/2'
2	42	0.00	0.00	2.60	3.04	1.2	2.1	1.7	2.7	2.1	2.0			0.8/0.8	5'/2.5'	5'/2'
3	74	0.03	0.00	2.26	3.14	1.1	1.9	1.9	2.3	2.1	2.0			0.8/0.8	4'/1.5'	4'/1'
4	58	0.06	0.04	2.29	2.66	1.2	2.1	1.6	1.9	2.0	1.9			0.8/0.8	5'/2.5'	4'/2'
5	64	0.00	0.03	2.18	2.86	1.4	1.9	2.2	2.5	1.9	2.2	5.8	5.2	0.8/0.8	4'/2'	4.5'/2'
6											1.8			0.8/0.8		
7											1.6			0.8/0.8		
8	48	0.10	0.13	1.85	2.10	0.9	1.6	1.8	2.1	2.4	1.6			0.8/0.8	5'/3'	5'/2'
9	50	0.00	0.01	1.78	2.69	1.2	2.7	1.9	2.0	1.9	1.8			0.8/0.8	4'/2'	5'/2.5
10	54	0.01	0.02	1.51	2.06	1.6	3.6	2.5	2.5	2.1	1.8			0.8/0.8	4'/2'	4'/2'
11	84	0.25	0.29	1.89	2.40	1.6	3.5	2.3	2.3	1.7	1.8			0.8/0.8	5'/2'	4'/2'
12	38	0.16	0.12	2.13	1.78	1.3	3.0	2.1	2.6	1.7	1.8	8.4	4.6	0.8/0.8	4'/2'	4'/1.5'
13											1.7			0.8/0.8		
14											1.9			0.8/0.8		
15	44	0.19	0.17	1.65	1.94	1.1	1.4	1.3	1.9	1.9	1.7			0.8/0.8	4'/1.5'	5'/2.5'
16	56	0.16	0.19	1.70	1.65	1.6	2.2	1.5	2.0	1.8	1.6			0.8/0.8	5'/2'	4'/2'
17	52	0.16	0.17	1.81	2.19	0.7	1.8	1.6	1.9	1.7	1.7			0.8/0.8	4'/2'	6'/2'
18	46	0.15	0.17	1.78	2.93	1.1	1.6	1.5	1.9	1.5	2.1			0.8/0.8	5'/2'	5'/2.5'
19	50	0.18	0.16	1.70	1.90	0.8	1.3	1.2	1.9	1.9	1.9	20.0	6.8	0.8/0.8	5'/2'	4'/2'
20											1.9			0.8/0.8		
21											1.8			0.8/0.8		
22	60	0.05	0.03	1.74	2.08	0.8	0.8	1.1	1.7	1.7	1.7			0.8/0.8	5'/2.5	5'/2.5'
23	50	0.01	0.02	1.37	1.96	1.0	0.9	1.1	1.8	1.7	1.9			0.8/0.8	5'/2.5'	5'/2'
24	46	0.03	0.03	1.72	1.71	1.1	1.2	1.3	1.8	1.8	1.6			0.8/0.8	5'/2.5'	4'/2'
25	56	0.00	0.00	2.42	2.46	1.2	1.5	1.6	1.9	1.9	1.8			0.8/0.8	4'/2'	4'/2'
26	58	0.00	0.00	2.44	2.64	1.2	1.6	1.6	1.0	1.1	1.0	7.8	4.8	0.8/0.8	5'/2'	4.5'/2'
27											1.7			0.8/0.8		
28											2.1			0.8/0.8		
29	52	0.08	0.03	0.07	1.74	1.3	1.3	1.3	1.7	1.7	1.6			0.8/0.8	4'/3'	5'/3'
30	54	0.02	0.02	0.02		1.0	1.6	1.4		0.8				0.8/0.8	5'/2'	4'/2'
31	58	0.03	0.06	0.39	0.34	1.1	3.1	1.8	2.2	0.7	0.6			0.8/0.8	5'/2.5'	4'/2'
Minimum	38	0.00	0.00	0.02	0.34	0.7	0.8	1.1	1.0	0.7	0.6	5.8	4.6			
Maximum	84	0.25	0.29	2.60	3.14	1.6	3.6	2.5	2.9	2.4	2.2	20.0	6.8			
Average	54	0.07	0.08	1.71	2.22	1.2	2.0	1.7	2.1	1.7	1.8	10.5	5.4			

Month	April	Year	2021	McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L
1	C	0.933	1.241	0.040	80	380	271	7.8	3.8	2160	2095	2044	1867	4172
2	O	0.940	1.309	0.040	80	330	224	4.6	3.8	2261	2127	2123	1935	4820
3	O	0.942	1.342	0.040	80	330								
4	O	0.972	1.252	0.040	80	330								
5	C	0.945	1.264	0.040	80	330	461	4.6	3.2	2161	2038	2136	1954	4238
6	C	0.916	1.191	0.039	80	330	369	4.0	3.2	2168	2071	2123	1939	4396
7	O	0.926	1.217	0.038	80	330	314	3.6	3.0	2139	2106	2196	2027	4218
8	C	0.921	1.154	0.038	80	330	353	6.0	4.6	2218	2084	2086	1899	4404
9	O	0.903	1.037	0.038	80	320	183	5.0	2.2	2272	2102	2101	1918	4498
10	C	0.916	0.970	0.038	80	320								
11	C	0.941	0.970	0.038	80	320								
12	O	0.907	0.970	0.038	80	320	337	5.6	4.0	2284	2189	2121	1942	4236
13	O	0.882	0.971	0.038	80	320	383	7.8	6.8	2192	2126	2005	1840	4540
14	O	0.892	0.977	0.038	80	320	337	4.6	1.4	2162	2050	2142	1986	4300
15	O	0.887	0.975	0.038	80	320	236	4.2	2.4	2224	2117	2087	1910	4098
16	O	0.862	0.891	0.038	80	300	281	4.4	3.0	2199	2067	2074	1882	4794
17	O	0.877	0.809	0.038	80	300								
18	O	0.919	0.811	0.038	80	300								
19	O	0.895	0.813	0.037	80	300	327	2.4	2.0	2233	2134	2122	1937	4480
20	O	0.880	0.809	0.036	80	300	302	4.4	4.2	2140	1991	2092	1921	4844
21	O	0.876	0.804	0.034	80	300	316	5.2	1.8	2245	2137	2047	1859	4782
22	C	0.857	0.803	0.034	80	300	255	3.6	2.4	2237	2162	2211	2008	4466
23	C	0.858	0.802	0.036	80	320	325	2.8	2.0	2256	2201	2221	2023	4632
24	O	0.889	0.798	0.036	80	320								
25	R	0.962	0.793	0.036	80	320								
26	C	0.907	0.795	0.036	80	320	382	4.6	2.0	2186	2117	2067	1878	4528
27	C	0.865	0.794	0.035	80	320	297	5.6	2.6	2114	2068	2037	1842	4612
28	C	0.866	0.795	0.034	80	320	316	4.8	1.8	2202	2100	2009	1811	4572
29	C	0.853	0.795	0.034	80	320	196	5.8	3.8	2142	2148	2162	1939	4588
30	O	0.863	0.543	0.034	80	370	360	3.0	5.4	2170	2101	2016	1815	4602
Minimum		0.853	0.543	0.034	80	300	183	2.4	1.4	2114	1991	2005	1811	4098
Maximum		0.972	1.342	0.040	80	380	461	7.8	6.8	2284	2201	2221	2027	4844
Average		0.902	0.957	0.037	80	321	310	4.7	3.2	2198	2106	2101	1915	4492

	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M
1	500		91	2109	2957	56779	1392	81	245	39	0.059
2	550	11	91	1756	2587	58553	1608	50	259	35	0.050
3					2593						
4					2675						
5	570		91	3633	2601	56031	1414	48	267	38	0.050
6	540		91	2819	2521	56565	1430	40	254	38	0.049
7	510		92	2425	2549	56645	1337	37	232	41	0.047
8	570		91	2711	2535	57406	1396	58	273	39	0.050
9	570	9	91	1378	2410	58367	1426	43	271	40	0.047
10					2445						
11					2511						
12	560		92	2549	2421	59688	1342	45	264	43	0.047
13	530		92	2817	2354	57619	1439	63	264	38	0.048
14	500		93	2507	2381	56205	1363	37	233	40	0.045
15	520		92	1746	2367	57926	1299	34	249	43	0.046
16	560	11	91	2020	2157	56926	1519	33	270	37	0.043
17					2194						
18					2299						
19	530		91	2441	2239	58273	1382	16	250	42	0.043
20	530		92	2216	2202	55124	1454	30	253	37	0.043
21	530		91	2309	2192	58473	1356	35	259	42	0.044
22	530		91	1823	2144	58700	1266	24	240	45	0.040
23	520	18	91	2326	2290	59474	1391	19	234	42	0.042
24					2373						
25					2567						
26	520		91	2890	2421	57419	1359	30	252	41	0.048
27	520		90	2143	2309	55805	1346	37	255	40	0.047
28	500		90	2282	2311	57406	1296	32	249	43	0.048
29	490		90	1394	2276	57246	1301	38	227	43	0.044
30	460	25	90	2591	2663	56992	1305	14	228	43	0.055
Minimum	460	9	90	1378	2144	55124	1266	14	227	35	0.044
Maximum	570	25	93	3633	2957	59688	1608	81	273	45	0.055
Average	528	15	91	2313	2418	57437	1383	38	251	41	0.047

	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L
1	8.0	7.1	7.3	6.9	6.8	6.9	6.9	280	120	120	120	50	0.02	0.03	1.07
2	7.7	7.1	7.3	6.9	6.9	6.9	6.9	160	120	120	120	36	0.02	0.02	1.61
3	8.2		7.2												
4	8.1		7.1												
5	7.8	7.0	7.0	7.0	7.0	7.0	7.0	280	120	140	120	54	0.20	0.17	1.57
6	7.9	7.0	7.2	6.9	6.9	6.9	6.9	300	120	120	120	58	0.08	0.31	1.62
7	7.5	7.1	7.2	7.0	7.0	7.0	7.0	320	120	120	120	54	0.12	0.26	1.96
8	7.8	7.0	7.3	6.9	6.9	6.9	6.8	320	120	120	120	56	0.04	0.02	1.35
9	7.6	7.0	7.4	6.8	6.9	6.9	6.8	240	120	120	120	34	0.07	0.07	1.42
10	7.8		7.2												
11	7.5		7.0												
12	8.0	7.0	7.3	6.9	6.9	6.9	6.9	320	120	120	120	64	0.04	0.04	1.39
13	8.1	7.1	7.2	6.9	6.9	6.8	6.8	260	120	120	120	66	0.05	0.03	1.22
14	8.1	7.1	7.4	6.9	6.9	6.9	6.9	300	120	120	120	66	0.05	0.04	1.25
15	8.1	7.0	7.4	6.9	6.9	6.9	6.9	320	120	120	120	60	0.01	0.03	1.29
16	8.1	7.1	7.4	6.8	6.9	6.9	6.8	300	120	140	120	44	0.01	0.03	1.60
17	7.4		7.3												
18	7.4		7.3												
19	8.1	7.0	7.4	7.0	7.0	6.9	7.0	340	140	140	140	62	0.07	0.07	0.94
20	8.2	7.0	7.4	6.9	6.9	6.9	6.9	320	140	140	140	66	0.06	0.09	1.44
21	8.1	7.0	7.3	7.0	6.9	6.9	7.0	340	140	120	120	66	0.03	0.00	2.09
22	8.0	7.0	7.5	6.9	6.9	6.9	6.9	340	120	120	120	52	0.02	0.00	2.19
23	7.8	7.0	7.3	6.9	6.9	6.9	6.9	320	140	140	140	60	0.00	0.01	2.25
24	7.3		7.3												
25	7.4		7.4												
26	8.1	7.0	7.2	6.9	6.9	6.9	6.9	360	160	160	140	66	0.03	0.04	1.36
27	7.8	7.0	7.5	6.9	6.8	6.9	7.0	320	140	140	140	60	0.38	0.21	1.56
28	7.8	7.1	7.2	6.8	6.9	6.9	6.7	360	160	140	140	70	0.02	0.06	1.58
29	7.3	6.9	7.4	6.7	6.8	6.8	6.8	260	160	140	140	30	0.12	0.04	1.44
30	8.0	6.8	7.5	6.7	6.8	6.6	6.7	360	140	140	120	40	0.03	0.44	1.49
Minimum	7.3	6.8	7.0	6.7	6.8	6.6	6.7	160	120	120	120	30	0.00	0.00	0.94
Maximum	8.2	7.1	7.5	7.0	7.0	7.0	7.0	360	160	160	140	70	0.38	0.44	2.25
Average	7.8	7.0	7.3	6.9	6.9	6.9	6.9	305	131	130	126	55	0.07	0.09	1.53

	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	1.54	1.5	2.4	2.1	2.3	1.1	1.3			0.8/0.8	4'/2'	4'/2'
2	1.14	1.1	1.9	1.7	2.4	1.4	1.5	5.9	3.3	0.8/0.8	6'/3'	5'/2.5'
3							1.8			0.8/0.8		
4							1.8			0.8/0.8		
5	2.37	1.6	1.3	1.6	2.2	1.6	1.7			0.8/0.8	2.5'/1'	3'/1'
6	2.11	1.7	1.2	1.5	2.1	1.7	2.0			0.8/0.8	3'/1'	3'/1'
7	2.08	1.6	1.5	2.0	2.1	1.8	2.2			0.8/0.8	3'/1'	3'/1.5'
8	1.49	1.2	1.5	1.7	1.8	1.2	1.5			0.8/0.8	4'/2'	4'/2'
9	1.05	1.1	2.3	2.5	2.1	1.7	1.6	9.5	3.8	0.8/0.8	4'/2.5'	4'/1.5'
10							1.8			0.8/0.8		
11							1.4			0.8/0.8		
12	1.74	1.1	1.4	1.8	2.1	1.6	1.8			0.8/0.8	6'/3'	5'/2.5'
13	1.48	1.4	1.8	1.5	1.3	1.2	1.4			0.8/0.8	6'/3'	4'/2'
14	1.76	1.1	1.1	1.4	1.4	1.2	1.4			0.8/0.8	4'/2'	4'/2'
15	1.71	1.2	1.0	1.4	1.5	1.3	1.5			0.8/0.8	4'/2'	5'/2.5'
16	0.98	1.2	1.4	1.8	1.7	1.8	1.2	9.6	4.3	0.8/0.8	5"/2'	4'/1.5'
17							1.6			0.8/0.8		
18							1.6			0.8/0.8		
19	1.66	1.2	1.9	1.8	1.7	1.2	1.2			0.8/0.8	5'/2.5'	5'/2'
20	2.15	1.7	1.9	1.8	1.3	1.4	1.9			0.8/0.8	5'/2'	4.5'/2'
21	3.10	0.8	1.1	1.2	1.2	1.7	1.9			0.8/0.8	4'/2'	4.5'/2'
22	2.82	1.1	0.9	1.2	1.2	2.2	1.8			0.8/0.8	4'/2'	4'/2'
23	2.68	1.0	1.0	1.9	1.6	2.0	1.4	9.6	6.3	0.8/0.8	3.5'/2'	4'/2'
24							1.7			0.8/0.8		
25							2.0			0.8/0.8		
26	2.58	1.3	0.9	0.9	1.4	2.3	1.9			0.8/0.8	3'/1'	3'/1'
27	2.40	0.8	0.9	0.8	1.2	1.5	1.8			0.8/0.8	4'/2'	3'/2'
28	2.62	0.9	0.8	1.0	1.7	1.6	1.6			0.8/0.8	3'/2'	4'/2'
29	2.44	1.0	1.6	1.1	1.1	1.7	1.7			0.8/0.8	3'/1.5'	3'/1.5'
30	2.60	1.6	1.1	1.3	1.1	1.6	1.7	10.0	5.0	0.8/0.8	3'/1'	3'/1'
Minimum	0.98	0.8	0.8	0.8	1.1	1.1	1.2	5.9	3.3			
Maximum	3.10	1.7	2.4	2.5	2.4	2.3	2.2	10.0	6.3			
Average	2.02	1.2	1.4	1.5	1.7	1.6	1.7	8.9	4.5			

Month	May	Year	2021	McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids
1		0.925	0.000	0.034	80	370											
2		0.964	0.000	0.034	80	370											
3	C	0.933	0.305	0.034	80	370	335	4.6	2.8	2202	2136	2085	1879	4088	450		90
4	O	0.913	0.895	0.034	80	370	567	3.0	2.0	2124	2231	2091	1883	4494	450		90
5	O	0.884	0.887	0.034	80	370	203	2.6	0.8	2220	2134	2115	1885	4554	450		89
6	O	0.854	0.866	0.034	80	370	381	3.2	0.4	2317	2126	2116	1906	4444	450		90
7	C	0.845	0.783	0.034	80	390	218	3.2	2.6	2204	2119	2202	1983	4356	450	18	90
8	C	0.861	0.740	0.034	80	390											
9	C	0.886	0.730	0.034	80	390											
10	C	0.878	0.926	0.034	80	390	417	2.8	2.2	2217	2197	2075	1870	4652	430		90
11	C	0.853	0.976	0.034	80	390	230	1.6	0.6	2288	2176	2156	1947	4326	430		90
12	O	0.852	1.000	0.032	80	390	273	3.0	1.2	2214	2196	2144	1942	4678	450		91
13	O	0.855	1.000	0.032	80	390	306	5.4	1.2	2203	2085	2105	1896	5178	440		90
14	O	0.851	0.839	0.032	80	330	252	1.8	1.6	2267	2121	2157	1944	4910	460	15	90
15	O	0.856	0.763	0.032	80	330											
16	O	0.893	0.761	0.032	80	330											
17	O	0.863	0.984	0.032	80	330	285	3.6	0.8	2253	2193	2172	1958	4816	480		90
18	O	0.842	0.960	0.031	80	330	249	2.0	0.6	2312	2185	2035	1808	5334	430		89
19	C	0.837	0.993	0.030	80	330	217	0.6	0.2	2381	2200	2150	1918	4662	460		89
20	C	0.845	0.974	0.030	80	330	160	2.4	0.4	2269	2163	2064	1843	4286	460		89
21	C	0.815	0.653	0.030	80	230	171	1.2	4.2	2312	2144	2131	1915	4618	490	7	90
22	C	0.860	0.346	0.030	80	230											
23	C	0.896	0.344	0.030	80	230											
24	C	0.852	0.818	0.030	80	230	325	3.2	0.8	2298	2223	2273	2039	4778	530		90
25	O	0.838	0.934	0.030	80	230	264	4.0	1.2	2424	2298	2274	2041	5882	540		90
26	O	0.841	0.956	0.030	80	230	368	3.4	0.8	2346	2206	2358	2116	5214	530		90
27	O	0.835	0.935	0.030	80	230	142	2.0	1.2	2452	2314	2291	2045	5162	520		89
28	O	0.823	0.802	0.030	80	300	322	2.0	0.8	2401	2379	2308	2080	6004	530	20	90
29	O	0.802	0.755	0.030	80	300											
30	O	0.794	0.747	0.030	80	300											
31	C	0.877	0.748	0.030	80	300											
Minimum		0.794	0.000	0.030	80	230	142	0.6	0.2	2124	2085	2035	1808	4088	430	7	89
Maximum		0.964	1.000	0.034	80	390	567	5.4	4.2	2452	2379	2358	2116	6004	540	20	91
Average		0.862	0.755	0.032	80	325	284	2.8	1.3	2285	2191	2165	1945	4822	472	15	90

	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity
1		2854																	
2		2975																	
3	2607	2879	57886	1159	12	216	49	0.057	7.9	6.9	7.3	6.8	6.8	6.7	7.0	340	140	140	140
4	4317	2817	58113	1274	22	215	45	0.056	8.1	7.1	7.3	6.8	6.9	6.9	6.8	420	140	140	140
5	1497	2728	58100	1291	19	213	44	0.054	7.4	7.1	7.3	6.9	6.9	6.9	6.8	260	140	140	160
6	2714	2635	59287	1260	23	213	46	0.052	8.2	7.0	7.3	6.9	6.9	6.9	7.0	360	140	160	140
7	1536	2748	57686	1235	21	204	46	0.052	7.5	7.0	7.4	6.9	6.9	6.9	6.9	240	120	140	120
8		2800							7.9		7.4								
9		2882							7.5		7.3								
10	3053	2856	58900	1319	22	207	44	0.057	7.8	7.0	7.3	6.9	6.9	7.0	7.0	340	140	140	140
11	1636	2774	59568	1227	13	199	48	0.053	8.1	7.0	7.3	6.9	6.9	6.9	7.0	340	140	140	140
12	1940	2771	58847	1248	25	210	46	0.053	8.0	7.0	7.2	6.9	6.9	6.9	7.0	300	140	140	140
13	2182	2781	57219	1382	45	209	40	0.055	8.0	7.1	7.1	6.8	6.9	6.9	7.0	320	140	140	160
14	1789	2342	58553	1310	13	213	44	0.045	8.0	7.2	7.3	6.9	6.9	6.9	7.1	340	140	160	140
15		2356							7.9		7.1								
16		2458							7.4		7.2								
17	2051	2375	59327	1285	30	221	45	0.045	7.9	7.1	7.3	7.0	7.0	7.0	6.8	340	140	140	140
18	1749	2317	60008	1379	16	211	43	0.048	8.0	7.1	7.3	6.9	7.0	7.0	7.0	340	140	140	140
19	1515	2304	61129	1166	5	214	52	0.045	7.7	7.1	7.3	6.9	7.0	7.0	7.0	260	160	140	120
20	1128	2326	59141	1072	19	223	54	0.047	7.6	7.1	7.2	7.1	7.0	7.0	7.1	260	140	140	160
21	1162	1563	59461	1155	7	230	51	0.031	7.4	7.1	7.2	6.9	6.9	7.0	7.1	260	140	140	140
22		1650							7.5		7.3								
23		1719							7.4		7.1								
24	2309	1634	60328	1195	22	233	50	0.030	7.9	7.1	7.2	7.0	7.0	7.1	7.1	280	160	160	160
25	1845	1607	63010	1472	31	237	42	0.030	8.0	7.1	7.2	7.0	7.0	7.0	7.1	320	140	140	140
26	2581	1613	60742	1305	27	225	46	0.029	8.2	7.1	7.2	7.0	7.0	7.0	7.1	440	160	160	160
27	989	1602	63598	1292	16	227	49	0.029	7.5	7.1	7.2	6.9	6.9	7.0	7.1	240	160	160	160
28	2210	2059	63784	1502	13	230	42	0.037	7.7	7.0	7.2	7.0	7.0	6.9	7.0	320	140	140	140
29		2007							7.8		7.0								
30		1987							8.2		7.2								
31		2194							8.0		7.1								
Minimum	989	1563	57219	1072	5	199	40	0.032	7.4	6.9	7.0	6.8	6.8	6.7	6.8	240	120	140	120
Maximum	4317	2975	63784	1502	45	237	54	0.053	8.2	7.2	7.4	7.1	7.0	7.1	7.1	440	160	160	160
Average	2040	2342	59734	1277	20	218	46	0.045	7.8	7.1	7.2	6.9	6.9	6.9	7.0	316	143	145	144

	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1														0.8/0.8		
2														0.8/0.8		
3	62	0.04	0.19	0.01	0.82	0.9	1.1	1.2	1.5	1.2	1.7			0.8/0.8	3'/1'	3'/1'
4	80	0.19	0.51	0.02	0.00	1.3	0.8	1.1	1.3	0.7	0.8			0.8/0.8	3'/2'	3'/2'
5	44	0.17	0.30	0.02	0.00	0.2	0.8	1.1	1.1	1.1	0.7			0.8/0.8	3'/1.5'	3'/2'
6	66	0.22	0.49	0.00	0.00	0.9	0.7	1.2	1.1	0.7	0.6			0.8/0.8	4'/2'	4'/2'
7	44	0.20	0.13	0.00	0.00	1.0	1.0	1.2	1.2	0.6	0.5	2.8	5.4	0.8/0.8	3'/1'	3'/1'
8											0.5			0.8/0.8		
9											0.4			0.8/0.8		
10	50	0.29	0.28	0.10	0.02	1.2	1.1	1.2	1.2	0.8	0.3			0.8/0.8	3.5'/1.5'	3'/2'
11	52	0.36	0.21	0.00	0.00	1.1	0.7	1.2	0.9	0.8	0.5			0.8/0.8	3'/2'	4'/2'
12	56	0.27	0.12	0.00	0.00	0.8	0.9	1.1	1.1	0.6	0.6			0.8/0.8	4'/2'	4'/1'
13	54	0.17	0.65	0.00	0.00	1.0	0.6	1.4	1.0	0.6	0.6			0.8/0.8	4'/2'	4'/1.5'
14	42	0.05	0.43	0.00	0.00	1.2	1.0	1.7	1.0	1.4	0.5	4.0	5.2	0.8/0.8	4'/1.5'	3'/1.5'
15											0.5			0.8/0.8		
16											0.4			0.8/0.8		
17	58	0.44	0.14	0.00	0.00	1.0	0.9	1.1	1.0	0.8	0.4			0.8/0.8	4'/1'	4'/1.5'
18	62	0.01	0.21	0.03	0.00	1.6	0.6	0.9	1.0	0.9	0.5			0.8/0.8	3'/1'	3'/1'
19	44	0.02	0.36	0.01	0.00	1.2	0.6	0.8	0.8	0.8	0.5			0.8/0.8	4'/1'	3'/1'
20	34	0.14	0.27	0.00	0.00	0.6	0.5	1.0	0.9	0.6	0.6			0.8/0.8	3'/1'	3'/1'
21	40	0.05	0.39	0.02	0.00	1.2	0.7	1.2	0.8	0.6	0.6	2.1	3.1	0.8/0.8	3'/1'	3'/1'
22											0.6			0.8/0.8		
23											0.7			0.8/0.8		
24	52	0.23	0.14	0.00	0.00	1.2	0.7	0.7	0.8	0.7	0.6			0.8/0.8	4'/2'	4'/2'
25	54	0.04	0.09	0.02	0.00	1.1	0.5	0.7	0.7	0.6	0.6			0.8/0.8	5'/2.5'	4'/2'
26	56	0.02	0.19	0.04	0.00	0.9	0.5	0.8	0.8	0.6	0.6			0.8/0.8	5'/2.5'	4'/2'
27	32	0.03	0.08	0.00	0.00	1.3	0.6	0.7	0.5	0.7	0.7			0.8/0.8	5'/3'	4'/2'
28	58	0.04	0.00	0.00	0.00	1.0	0.7	1.0	1.1	1.0	0.9	2.9	5.2	0.8/0.8	4'/2'	4'/2.5'
29											0.7			0.8/0.8		
30											0.6			0.8/0.8		
31											0.5			0.8/0.8		
Minimum	32	0.01	0.00	0.00	0.00	0.2	0.5	0.7	0.5	0.6	0.3	2.1	3.1			
Maximum	80	0.44	0.65	0.10	0.82	1.6	1.1	1.7	1.5	1.4	1.7	4.0	5.4			
Average	52	0.15	0.26	0.01	0.04	1.0	0.8	1.1	1.0	0.8	0.6	3.0	4.7			

Month June Year 2021 McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff
1	C	0.845	0.968	0.030	80	300	427	3.8	1.2	2378	2306	2418	2159	5378	500		89	3009	2114	62503	1346	31
2	O	0.834	0.991	0.030	80	300	264	6.4	1.2	2399	2328	2359	2096	5530	520		89	1836	2087	63077	1384	53
3	O	0.822	0.984	0.030	80	300	119	1.6	5.4	2439	2329	2331	2080	5822	520		89	816	2057	63624	1457	13
4	O	0.828	0.827	0.030	80	210	438	1.6	1.2	2365	2372	2246	1994	5474	550	6	89	3025	1450	63211	1370	11
5	C	0.838	0.765	0.030	80	210													1468			
6	C	0.868	0.760	0.030	80	210													1520			
7	C	0.861	0.939	0.030	80	210	459	4.0	0.2	2404	2309	2365	2091	5258	520		88	3296	1508	62890	1316	31
8	C	0.837	0.969	0.030	80	210	261	4.0	1.2	2435	2334	2343	2062	5188	530		88	1822	1466	63638	1298	32
9	C	0.836	0.968	0.030	80	210	427	2.6	1.2	2480	2275	2347	2086	4950	560		89	2977	1464	63451	1238	21
10	C	0.824	0.971	0.030	80	210	265	7.0	1.2	2503	2302	2290	2021	5738	530		88	1821	1443	64118	1436	57
11	R	0.832	0.862	0.030	80	260	173	1.0	0.8	2429	2306	2293	2044	5708	570	22	89	1200	1804	63184	1428	7
12	O	0.862	0.821	0.030	80	260													1869			
13	R	0.932	0.820	0.030	80	260													2021			
14	C	0.905	0.977	0.030	80	260	364	1.2	0.4	2266	2357	2367	2135	4240	550		90	2747	1962	61689	1061	10
15	C	0.842	0.978	0.030	80	260	301	1.0	0.8	2317	2368	2350	2115	4868	560		90	2114	1826	62517	1218	8
16	O	0.856	0.988	0.030	80	260	530	4.0	0.6	2479	2360	2299	1949	4920	570		85	3784	1856	64572	1231	33
17	O	0.838	0.960	0.030	80	260	327	3.0	1.0	2194	2310	2288	2023	5002	560		88	2285	1817	60101	1252	24
18	C	0.864	0.835	0.030	80	230	368	1.0	1.8	2321	2410	2310	2079	4644	560	18	90	2652	1657	63130	1162	7
19	O	0.801	0.770	0.030	80	230													1536			
20	O	0.844	0.766	0.030	80	230													1619			
21	O	0.844	0.740	0.029	80	230	299	15.2	0.4	2463	2373	2417	2148	5666	540		89	2105	1619	64532	1370	94
22	O	0.828	0.804	0.030	80	230	262	3.0	0.4	2480	2337	2430	2156	6192	550		89	1809	1588	64278	1549	20
23	O	0.834	0.790	0.030	80	230	362	1.0	0.6	2533	2331	2397	2134	5744	530		89	2518	1600	64905	1437	7
24	O	0.826	0.781	0.030	80	230	428	2.8	0.8	2573	2266	2412	2146	5722	530		89	2948	1584	64572	1432	18
25	C	0.813	0.636	0.030	80	220	276	1.6	0.8	2495	2248	2313	2059	5372	500	22	89	1871	1492	63291	1344	8
26	O	0.816	0.636	0.030	80	220													1497			
27	O	0.858	0.635	0.030	80	220													1574			
28	O	0.834	0.244	0.030	80	220	339	13.2	1.8	2592	2399	2432	2152	5312	520		88	2358	1530	66600	1329	27
29	O	0.813	0.000	0.030	80	220	212	2.6		2456	2453	2485	2192	5564	490		88	1437	1492	65506	1392	0
30	O	0.824	0.000	0.030	80	220	326	6.8		2553	2419	2437	2156	6478	490		88	2240	1512	66346	1621	0
Minimum		0.801	0.000	0.029	80	210	119	1.0	0.2	2194	2248	2246	1949	4240	490	6	85	816	1443	60101	1061	0
Maximum		0.932	0.991	0.030	80	300	530	15.2	5.4	2592	2453	2485	2192	6478	570	22	90	3784	2114	66600	1621	94
Average		0.842	0.773	0.030	80	237	329	4.0	1.2	2434	2341	2360	2094	5399	534	17	89	2303	1668	63715	1349	23

	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L
1	207	45	0.037	8.0	7.1	7.3	7.0	7.0	7.1	7.0	380	140	180	160	50	0.20	0.50	0.00	0.00
2	220	44	0.037	7.8	7.2	7.2	7.0	7.0	7.0	7.1	400	160	180	160	52	0.05	0.39	0.00	0.00
3	223	43	0.037	7.3	7.1	7.1	7.0	7.0	7.0	7.1	320	160	180	160	36	0.02	0.18	0.00	0.00
4	245	46	0.027	7.8	7.1	7.1	7.0	7.0	7.0	7.0	320	140	160	160	62	0.24	0.37	0.00	0.00
5				7.7		7.2													
6				7.7		7.0													
7	220	47	0.027	8.0	7.1	7.3	6.8	6.9	6.9	7.0	400	140	160	180	74	0.21	0.63	0.00	0.00
8	226	48	0.027	8.0	7.1	7.2	6.9	7.0	7.0	7.1	340	140	140	140	58	0.01	0.22	0.02	0.02
9	239	50	0.026	8.0	6.9	7.2	7.0	7.0	7.0	7.0	340	140	140	140	42	0.18	0.39	0.09	0.08
10	231	43	0.027	8.1	7.2	7.2	7.0	7.1	7.1	7.1	400	140	160	160	62	0.05	0.23	0.04	0.03
11	249	44	0.033	7.4	7.0	7.2	6.9	6.9	6.9	7.0	400	160	160	160	42	0.03	0.19	0.01	0.03
12				8.0		7.3													
13				8.4		7.2													
14	232	58	0.034	7.8	6.9	7.1	6.8	6.8	6.8	6.8	240	120	100	100	50	1.93	1.71	0.01	0.00
15	238	51	0.032	7.5	7.0	7.1	6.9	6.9	6.9	6.9	280	120	120	120	44	0.58	0.40	0.00	0.00
16	248	51	0.036	8.0	7.1	7.0	7.0	7.0	7.0	7.0	400	140	140	140	66	0.00	0.00	0.00	0.00
17	245	47	0.034	8.0	7.0	7.0	7.0	7.0	7.0	7.0	360	140	140	140	55	0.00	0.00	0.01	0.00
18	242	54	0.030	8.1	7.1	7.2	7.0	7.0	7.0	7.0	380	140	140	140	68	0.00	0.01	0.00	0.00
19				8.1		7.1													
20				7.4		7.2													
21	223	44	0.028	7.9	7.0	7.1	7.0	7.0	7.1	7.1	360	140	160	180	58	0.06	0.42	0.06	0.14
22	226	41	0.028	7.7	7.0	7.1	6.8	6.9	6.9	7.1	340	140	180	160	44	0.03	0.05	0.02	0.01
23	221	45	0.028	7.7	7.1	7.2	6.9	7.0	7.0	7.1	360	160	160	160	52	0.04	0.06	0.03	0.01
24	220	45	0.028	7.8	7.1	7.2	7.0	7.0	7.0	7.1	360	140	160	160	62	0.33	0.05	0.02	0.00
25	216	47	0.027	7.8	7.2	7.2	7.2	7.1	7.1	7.1	360	160	160	160	34	0.08	0.30	0.02	0.00
26				7.3		7.2													
27				7.8		7.3													
28	214	49	0.027	8.1	7.1	7.5	7.0	7.0	7.0	7.1	400	180	180	180	60	0.09	0.32	1.07	2.30
29	197	47	0.025	7.8	7.2		7.0	7.0	7.0	7.1	340	140	160	160	48	0.19	0.32	0.01	
30	201	41	0.026	8.1	7.1		7.0	7.0	7.0	7.1	380	180	160	160	70	0.02	0.07	0.01	
Minimum	197	41	0.028	7.3	6.9	7.0	6.8	6.8	6.8	6.8	240	120	100	100	34	0.00	0.00	0.00	0.00
Maximum	249	58	0.036	8.4	7.2	7.5	7.2	7.1	7.1	7.1	400	180	180	180	74	1.93	1.71	1.07	2.30
Average	227	47	0.030	7.8	7.1	7.2	7.0	7.0	7.0	7.0	357	146	155	154	54	0.20	0.31	0.06	0.13

	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	1.1	0.4	0.8	0.8	0.7	0.5			0.8/0.8	5'/3'	5'/2.5'
2	1.2	0.6	1.0	0.7	0.7	0.7			0.8/0.8	4'/2'	5'/3.5'
3	1.2	0.3	0.7	0.7	0.8	0.9			0.8/0.8	4'/2'	5'/3'
4	1.5	0.5	1.0	0.9	0.7	0.7	2.3	2.5	0.8/0.8	4'/2'	5'/3'
5						0.7			0.8/0.8		
6						0.6			0.8/0.8		
7	1.0	0.7	0.9	0.9	0.7	0.6			0.8/0.8	4'/1.5'	4'/2'
8	1.0	0.5	1.0	0.9	0.7	0.7			0.8/0.8	4'/2'	4'/2'
9	1.0	0.6	0.8	0.8	0.7	0.6			0.8/0.8	4.5'/2'	4.5'/2.5'
10	0.9	0.6	0.9	0.9	0.9	0.9			0.8/0.8	5'/3'	5'/3'
11	0.8	0.4	1.0	0.9	0.8	0.8	2.9	2.7	0.8/0.8	5'/3'	5'/3'
12						1.0			0.8/0.8		
13						1.0			0.8/0.8		
14	9.7	9.7	1.8	2.3	0.6	0.9			0.8/0.8	5.5'/3'	6'/3'
15	6.7	7.1	3.8	2.5	0.8	0.9			0.8/0.8	6'/3'	6.5'/3'
16	1.1	1.6	1.5	1.5	2.9	0.9			0.8/0.8	5'/3'	5.5'/3'
17	1.1	1.7	1.5	1.2	1.4	1.0			0.8/0.8	5'/2'	6'/3'
18	1.3	2.0	1.8	2.4	1.2	1.2	2.2	3.9	0.8/0.8	5.5'/2'	6.5'/2.5'
19						0.8			0.8/0.8		
20						0.9			0.8/0.8		
21	0.9	0.5	0.9	0.9	4.6	0.8			0.8/0.8	4'/1'	3'/1'
22	0.8	0.6	0.7	0.9	0.8	0.8			0.8/0.8	5'/2'	6'/2'
23	0.8	0.4	0.8	0.6	0.7	0.6			0.8/0.8	4'/2'	4'/2'
24	0.8	1.0	0.6	0.7	0.9	0.7			0.8/0.8	5'/3'	5'/3'
25	0.8	0.5	0.4	0.9	0.7	0.6	2.1	3.2	0.8/0.8	5'/3'	5'/3'
26						1.3			0.8/0.8		
27						1.6			0.8/0.8		
28	0.6	0.5	0.6	0.6	3.6	1.5			0.8/0.8	5'/2'	5'/2'
29	0.3	0.6	0.6		0.6				0.8/0.8	5'/2'	5'/2'
30	0.9	0.7	0.7		1.8				0.8/0.8	4'/2'	4'/2'
Minimum	0.3	0.3	0.4	0.6	0.6	0.5	2.1	2.5	0.8/0.8		
Maximum	9.7	9.7	3.8	2.5	4.6	1.6	2.9	3.9	0.8/0.8		
Average	1.6	1.4	1.1	1.1	1.2	0.9	2.4	3.1	0.8/0.8		

Month	July	Year	2021	McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	O	0.825	0.583	0.030	80	210	214	1.6	0.4	2617	2475	2490	2197	6538	500		88	1472	1445	67948	1636	8	201	41	0.025	7.3	7.2	7.8	7.2	7.2	7.2	7.2	340	160	160	160	56	0.00	0.02	0.00	0.24	0.9	0.7	1.5	0.2	0.5	0.7			0.8/0.8	5'/4'	6'/4'
2	O	0.803	0.783	0.030	80	200	357	5.0	3.2	2471	2347	2492	2211	6110	490	6	89	2391	1339	64291	1529	33	197	41	0.023	7.4	7.3	8.1	7.1	7.2	7.1	7.2	380	160	160	160	76	0.10	0.26	0.86	2.20	1.0	0.7	0.8	0.6	1.5	1.8	4.8	3.3	0.8/0.8	5'/3'	6'/4'
3	O	0.795	0.723	0.030	80	200													1326							7.4		7.7																		1.1			0.8/0.8		
4	O	0.785	0.722	0.030	80	200													1309							7.4		7.5																		0.9			0.8/0.8		
5	O	0.858	0.719	0.030	80	200													1431							7.4		7.3																		1.0			0.8/0.8		
6	O	0.820	0.589	0.030	80	200	151	7.8	2.2	2516	2334	2418	2134	5936	480		88	1033	1368	64718	1485	38	199	42	0.024	7.4	7.3	7.4	7.0	7.0	7.1	7.1	280	160	160	180	38	0.05	0.26	1.25	1.38	1.1	0.7	0.8	0.8	1.2	1.8			0.8/0.8	6'/3'	5'/2'
7	O	0.840	0.801	0.030	80	200	293	5.0	0.8	2666	2462	2525	2225	5606	500		88	2053	1401	68428	1403	33	198	48	0.024	7.1	7.1	7.7	7.0	7.1	7.0	7.1	360	160	160	160	62	0.01	0.00	1.00	0.31	0.9	0.5	0.7	0.7	2.2	0.7			0.8/0.8	5'/3'	5'2'
8	O	0.816	0.815	0.030	80	200	324	1.4	2.2	2532	2357	2515	2208	5914	540		88	2205	1361	65239	1480	10	215	44	0.023	7.3	7.2	8.2	7.1	7.1	7.1	7.1	360	180	160	180	64	0.00	0.01	1.55	1.88	1.0	0.6	0.7	0.6	1.0	1.6			0.8/0.8	5'/2'	5'/2'
9	O	0.806	0.816	0.030	80	190	178	1.8	0.4	2588	2390	2399	2115	5810	490	15	88	1197	1277	66426	1454	12	204	45	0.023	7.3	7.2	7.3	7.1	7.1	7.1	7.2	260	180	180	180	42	0.05	0.05	0.00	0.60	1.0	0.6	0.6	0.6	0.6	0.6	2.7	5.0	0.8/0.8	5'/3'	5'/2'
10	O	0.809	0.815	0.030	80	190													1282							7.2		7.4																		2.2			0.8/0.8		
11	O	0.851	0.816	0.030	80	190													1348							7.1		7.6																		1.8			0.8/0.8		
12	O	0.827	0.870	0.030	80	190	352	4.0	2.6	2567	2311	2330	2045	5792	470		88	2428	1310	65092	1449	29	202	44	0.024	7.4	7.4	8.0	7.0	7.0	7.0	7.1	400	180	160	160	74	0.00	0.02	3.84	3.98	0.8	0.6	0.7	0.6	1.9	1.9			0.8/0.8	5'/2'	5'/2'
13	O	0.808	0.740	0.031	80	190	309	4.4	2.2	2947	2662	2633	2302	5814	540		87	2082	1280	74846	1503	27	205	49	0.021	7.4	7.2	7.8	7.0	7.0	7.0	7.0	340	160	160	160	56	0.00	0.00	4.00	5.12	0.8	0.8	0.7	0.4	2.6	2.3			0.8/0.8	5.5'/2'	5'/2'
14	O	0.804	0.715	0.034	80	190	247	5.0	2.4	2525	2358	2415	2103	6462	490		87	1656	1274	65159	1832	30	203	35	0.023	7.3	7.3	7.6	7.0	7.0	7.0	7.1	320	160	160	160	58	0.00	0.00	4.22	4.02	1.1	0.5	0.6	0.7	1.8	1.5			0.8/0.8	4'/2'	5'/2'
15	O	0.806	0.864	0.034	80	190	389	2.6	2.6	2485	2355	2521	2229	6176	450		88	2615	1277	64585	1751	19	179	36	0.021	7.4	7.2	8.1	7.0	7.1	7.1	7.1	420	180	160	160	76	0.20	0.06	3.48	4.04	0.8	0.6	0.7	0.7	1.4	1.5			0.8/0.8	4'/2.5'	4'/2'
16	O	0.794	0.703	0.034	80	300	257	5.8	3.4	2584	2309	2424	2121	6252	470	11	88	1702	1987	65292	1773	34	194	36	0.035	7.4	7.3	7.9	7.2	7.2	7.1	7.2	240	160	160	160	36	0.01	0.03	2.64	1.98	1.3	1.0	0.9	1.0	1.4	1.6	5.6	2.9	0.8/0.8	4'/2.5'	3'/1.5
17	O	0.791	0.547	0.034	80	300													1979							7.5		8.4																		0.7			0.8/0.8		
18	O	0.830	0.539	0.034	80	300													2077							7.4		7.8																		0.7			0.8/0.8		
19	O	0.821	0.787	0.034	80	300	314	1.2	0.8	2451	2278	2383	2101	6024	480		88	2150	2054	63104	1708	8	201	37	0.037	7.2	7.1	7.7	7.0	7.0	7.0	7.0	300	160	160	160	58	0.00	0.00	1.88	1.44	1.2	1.4	1.0	1.2	0.8	0.5			0.8/0.8	4.5'/2.5'	5'/3'
20	O	0.807	0.952	0.034	80	300	93	3.6	1.6	2451	2235	2598	2265	6136	540		87	626	2019	62530	1740	29	208	35	0.033	7.3	7.3	7.4	7.1	7.1	7.1	7.0	320	160	160	160	42	0.02	0.04	2.60	2.82	1.0	0.5	0.6	0.6	0.6	0.6			0.8/0.8	5'/3'	4'/2'
21	O	0.825	1.110	0.034	80	300	422	3.0	1.8	2440	2321	2603	2292	6794	450		88	2904	2064	63531	1927	28	173	33	0.034	7.3	7.3	8.1	7.0	7.1	6.9	7.2	360	180	160	160	72	0.02	0.03	2.54	3.06	0.8	0.5	0.6	0.6	1.2	1.7			0.8/0.8	5'/3'	5'/2'
22	O	0.810	1.164	0.034	80	300	237	10.0	3.0	2405	2228	2549	2215	5800	470		87	1601	2027	61823	1645	97	184	35	0.034	7.2	7.2	7.9	7.0	7.0	7.0	6.9	360	160	160	160	56	0.00	0.00	2.98	3.06	1.2	0.9	0.9	0.8	3.3	1.9			0.8/0.8	3'/2'	2.5'/1.5'
23	C	0.801	0.795	0.034	80	380	399	1.8	1.8	2678	2229	2325	2032	5792	410	14	87	2665	2539	65479	1642	12	176	40	0.047	7.4	7.1	8.0	7.0	7.0	7.0	7.0	380	160	160	160	68	0.02	0.10	2.42	2.56	1.0	0.6	0.5	0.6	1.0	1.9	0.0	3.4	0.8/0.8	5'/3'	5'/2'
24	C	0.802	0.549	0.034	80	380													2542							7.4		7.7																		1.0			0.8/0.8		
25	O	0.834	0.549	0.034	80	380													2643							7.4		7.8																		0.7			0.8/0.8		
26	C	0.818	0.663	0.034	80	380	339	4.2	0.6	2338	2174	2343	2053	6152	400		88	2313	2592	60208	1744	23	171	34	0.047	7.4	7.3	8.1	7.1	7.1	7.1	7.2	400	160	160	160	88	0.06	0.07	0.56	0.90	1.2	0.7	0.6	0.6	1.0	0.7			0.8/0.8	4'/2.5'	4'/2'
27	R	0.799	1.168	0.033	80	380	135	5.2	2.0	2461	2273	2391	2090	5466	440		87	900	2532	63170	1504	51	184	41	0.045	7.2	6.9	7.4	6.9	6.9	6.9	6.9	260	160	160	140	40	0.00	0.22	1.32	1.84	1.5	1.3	1.5	1.4	1.7	1.2			0.8/0.8	3.5'/1.5'	3'/1'
28	O	0.798	1.154	0.034	80	380	339	2.0	1.0	2328	2258	2424	2137	6634	400		88	2256	2529	61196	1881	19	165	32	0.044	7.1	7.0	7.7	6.9	7.0	7.0	7.2	300	140	140	140	52	0.04	0.05	1.36	0.86	1.0	0.8	1.0	0.6	1.2	1.0			0.8/0.8	4'/1.5'	3'/1'
29	O	0.801	1.010	0.034	80	380	150	4.2	1.8	2289	2164	2434	2132	6338	400		88	1002	2539	59421	1797	35	164	32	0.045	7.2	7.2	7.4	7.0	7.0	7.1	7.2	320	160	140	140	36	0.05	0.04	3.02	4.04	0.9	0.3	0.9	0.6	1.4	1.7			0.8/0.8	4'/1.5'	4'/1.5'
30	O	0.784	0.740	0.034	80	200	191	5.4	3.6	2353	1989	2376	2077	6178	390	15	87	1249	1308	57940	1752	33	164	32	0.024	7.3	7.2	7.9	7.0	7.0	7.0	7.1	360	140	140	140	56	0.00	0.00	3.92	3.74	1.0	0.8	0.9	0.8	1.4	1.6	3.6	4.8	0.8/0.8	4'/1'	4'/1'
31	O	0.791	0.544	0.034	80	200													1319							7.3		7.4																		0.9			0.8/0.8		
Minimum		0.784	0.539	0.030	80	190	93	1.2	0.4	2289	1989	2325	2032	5466	390	6	87	626	1274	57940	1403	8	164	32	0.023	7.1	6.9	7.3	6.9	6.9	6.9	6.9	240	140	140	140	36	0.00	0.00	0.00	0.24	0.8	0.3	0.5	0.2	0.5	0.5	0.0	2.9			
Maximum		0.858	1.168	0.034	80	380	422	10.0	3.6	2947	2662	2633	2302	6794	540	15	89	2904	2643	74846	1927	97	215	49	0.043	7.5	7.4	8.4	7.2	7.2	7.2	7.2	420	180	180	180	88	0.20	0.26	4.22	5.12	1.5	1.4	1.5	1.4	3.3	2.3	5.6	5.0			
Average		0.812	0.785	0.032	80	261	271	4.0	1.9	2509	2310	2457	2156	6082	467	12	88	1833	1767	64306	1649	29	190	39	0.031	7.3	7.2	7.7	7.0	7.1	7.0	7.1	336	163	158	159	57	0.03	0.06	2.16	2.38	1.0	0.7	0.8	0.7	1.4	1.3	3.3	3.9			

Month August Year 2021 McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	O	0.824	0.544	0.034	80	200													1374							8.0		7.4																			0.8			0.8/0.8		
2	O	0.820	0.801	0.034	80	200	393	5.4	1.0	2395	2226	2343	2056	6238	380		88	2688	1368	61663	1769	36	162	34	0.025	7.9	7.3	7.4	7.2	7.2	7.1	7.1	360	160	160	160	36	0.02	0.01	1.56	0.72	1.2	0.8	0.9	0.6	0.7	0.9			0.8/0.8	5'/2.5'	4'/1.5'
3	O	0.805	0.846	0.034	80	200	271	3.0	1.2	2408	2251	2743	2412	7400	470		88	1819	1343	62170	2098	21	171	29	0.021	7.9	7.2	7.4	7.2	7.2	7.1	7.1	380	180	160	180	58	0.02	0.03	1.52	1.76	1.2	1.5	1.2	0.7	0.9	1.2			0.8/0.8	5'/2'	4'/1'
4	O	0.810	0.879	0.034	80	200	263	3.4	1.4	2433	2187	2832	2478	7088	520		88	1777	1351	61649	2010	25	184	30	0.020	7.8	7.4	7.4	7.2	7.2	7.1	7.2	340	180	180	180	50	0.00	0.00	0.76	0.44	0.9	1.4	1.5	0.8	1.0	1.0			0.8/0.8	4'/2'	4'/1'
5	O	0.804	0.852	0.033	80	200	284	2.0	0.6	2392	2191	2341	2048	6670	390		87	1904	1341	61156	1836	14	167	33	0.025	7.9	7.3	7.3	7.1	7.1	7.0	7.1	360	160	160	160	50	0.02	0.03	0.50	0.58	0.8	1.3	1.3	0.7	1.1	1.0			0.8/0.8	5'/2.5'	3'/1'
6	O	0.810	0.720	0.034	80	360	137	4.2	2.6	2316	2203	2412	2115	5422	410	10	88	925	2432	60302	1537	25	170	39	0.043	7.6	7.2	7.3	7.0	7.0	7.1	7.1	340	160	160	160	40	0.13	0.02	3.96	4.12	1.9	0.6	1.3	0.5	1.2	1.0	6.9	5.5	0.8/0.8	5'/2'	3'/1'
7	O	0.809	0.661	0.034	80	360													2429							8.4		7.4																			1.3			0.8/0.8		
8	O	0.864	0.660	0.034	80	360													2594							8.4		7.4																			1.5			0.8/0.8		
9	O	0.827	0.903	0.034	80	360	318	2.6	0.8	2330	2207	2258	1982	5464	420		88	2193	2483	60542	1549	20	186	39	0.047	8.1	7.2	7.3	7.1	7.1	7.0	7.7	400	180	160	160	68	0.11	0.30	0.88	1.18	1.4	0.8	0.8	0.6	0.9	1.0			0.8/0.8	5'/1.5'	3'/1'
10	O	0.806	0.905	0.034	80	360	143	3.0	1.0	2383	2238	2573	2251	6556	430		87	961	2420	61663	1859	23	167	33	0.040	7.5	7.2	7.2	7.0	7.0	7.0	7.1	300	160	160	160	42	0.08	0.03	1.40	0.96	0.7	0.8	0.9	0.7	1.3	1.2			0.8/0.8	4'/1'	4'/2'
11	C	0.815	0.861	0.034	80	360	226	3.0	1.4	2433	225	2326	2017	6336	430		87	1536	2447	35468	1797	22	185	20	0.045	7.9	7.4	7.2	7.1	7.1	7.1	7.2	300	140	160	160	40	0.05	0.08	1.92	1.08	0.9	1.1	1.3	0.9	0.9	1.0			0.8/0.8	3.5'/1'	3'/1'
12	O	0.813	0.879	0.034	80	360	245	2.8	1.6	2396	2282	2500	2185	6460	410		87	1661	2441	62423	1832	21	164	34	0.042	8.3	7.1	7.4	7.1	7.1	7.0	7.2	400	180	160	160	68	0.01	0.11	4.08	4.08	0.8	0.7	1.2	0.8	1.3	1.4			0.8/0.8	3'/1'	3'/1'
13	O	0.800	0.765	0.034	80	230	134	3.6	1.4	2414	2304	2544	2220	5678	450	5	87	894	1535	62957	1610	23	177	39	0.026	7.4	7.3	7.5	7.1	7.1	7.2	7.2	340	160	160	160	34	0.03	0.03	3.98	4.00	1.1	0.8	0.5	0.8	1.7	1.5	5.5	4.8	0.8/0.8	3.5'/1.5'	4'/1'
14	O	0.817	0.738	0.034	80	230													1567							7.8		7.1																			1.4			0.8/0.8		
15	O	0.859	0.735	0.034	80	230													1648							7.5		7.1																			1.7			0.8/0.8		
16	O	0.832	0.928	0.034	80	230	301	4.8	1.8	2457	2248	2425	2103	5050	420		87	2089	1596	62784	1432	37	173	43	0.028	7.6	7.3	7.4	7.1	7.1	7.1	7.2	360	160	160	160	48	0.00	0.00	3.22	3.92	1.0	0.7	1.0	0.7	1.2	1.3			0.8/0.8	4'/1'	3'/1'
17	O	0.813	0.894	0.034	80	230	470	4.0	1.8	2431	2216	2256	1971	6060	380		87	3187	1559	62010	1718	30	168	35	0.030	8.1	7.3	7.3	7.1	7.1	7.1	7.2	400	200	180	180	66	0.01	0.02	5.28	5.10	1.0	0.7	0.9	0.6	1.2	1.2			0.8/0.8	3'/1.5'	4'/1.5'
18	O	0.806	0.869	0.034	80	230	358	3.8	1.8	2257	2288	2418	2107	5688	380		87	2406	1546	60648	1613	28	157	37	0.027	8.2	7.4	7.5	7.1	7.1	7.1	7.2	440	220	180	180	70	0.05	0.11	3.04	3.24	0.8	0.7	0.8	0.7	1.6	1.3			0.8/0.8	3'/1'	4'/1'
19	O	0.800	0.862	0.034	80	230	299	2.8	0.8	2478	2312	2374	2059	7462	380		87	1995	1535	63918	2116	20	160	30	0.028	7.9	7.4	7.4	7.1	7.2	7.1	7.2	360	200	180	180	56	0.02	0.05	1.04	1.90	1.2	0.8	0.9	0.6	0.7	1.0			0.8/0.8	3'/1.5'	4'/1.5'
20	O	0.808	0.743	0.034	80	340	201	4.4	1.6	2384	2307	2370	2068	4924	390	12	87	1354	2291	62597	1396	27	165	44	0.042	7.9	7.3	7.3	7.1	7.1	7.0	7.0	380	180	180	180	60	0.02	0.05	2.12	2.88	1.2	1.0	0.8	0.8	1.0	1.3	6.2	6.5	0.8/0.8	4'/1'	4'/1'
21	C	0.805	0.740	0.034	80	340													2283							7.8		7.2																			1.4			0.8/0.8		
22	O	0.836	0.735	0.034	80	340													2371							7.6		7.3																			1.5			0.8/0.8		
23	C	0.818	0.927	0.013	80	340	437	3.0	1.4	2470	2500	2427	2126	5222	400		88	2981	2320	66320	566	23	165	113	0.041	8.2	7.2	7.2	7.0	7.1	7.1	7.1	380	180	180	180	68	0.04	0.03	1.80	2.72	1.1	0.6	0.7	0.7	1.2	1.6			0.8/0.8	3'/2/	5'/2'
24	O	0.813	0.896	0.000	80	340	316	3.0	1.8	2615	2485	2412	2103	6834	410		87	2143	2305	68054	0	22	170	3036	0.041	7.7	7.3	7.3	7.1	7.0	7.0	7.1	380	160	160	160	50	0.01	0.00	1.66	2.36	0.8	0.5	0.8	0.7	1.1	1.5			0.8/0.8	3'/1.5'	4'/2'
25	O	0.798	0.885	0.022	80	340	274	3.2	0.8	2542	2485	2502	2167	6972	420		87	1824	2263	67080	1279	24	168	51	0.039	7.9	7.1	7.0	7.1	7.1	7.0	7.1	400	160	180	180	68	0.02	0.05	2.26	2.96	0.9	0.7	0.9	0.8	1.1	1.4			0.8/0.8	3'/1.5'	3'/1'
26	C	0.792	0.886	0.034	80	340	338	6.2	2.2	2486	2284	2522	2189	6056	430		87	2233	2246	63651	1717	46	170	36	0.038	7.3	7.0	7.1	7.0	7.1	7.0	6.9	320	180	160	160	44	0.02	0.10	3.82	5.20	0.8	0.7	0.9	1.2	1.9	1.8			0.8/0.8	4'/2'	3.5'/1'
27	O	0.805	0.774	0.034	80	260	506	6.4	1.4	2596	2460	2414	2120	5776	420	8	88	3397	1746	67467	1638	41	174	40	0.031	7.6	7.1	7.2	7.0	7.0	7.0	7.1	340	160	160	160	50	0.01	0.29	3.22	3.88	1.2	0.4	0.8	0.7	1.2	1.2	6.8	5.0	0.8/0.8	4'/1'	3'/1'
28	O	0.822	0.769	0.034	80	260													1782							7.3		7.2																			1.5			0.8/0.8		
29	O	0.893	0.765	0.034	80	260													1936							7.3		7.2																			1.7			0.8/0.8		
30	O	0.824	1.020	0.034	80	260	342	2.4	1.4	2745	2617	2512	2185	5326	420		87	2350	1787	71551	1510	20	167	47	0.031	8.1	7.2	7.4	7.1	7.0	7.1	7.1	380	180	180	180	72	0.37	0.19	1.34	2.38	1.1	0.6	0.8	0.6	0.7	1.0			0.8/0.8	4.5'/2'	4'/2'
31	C	0.800	0.971	0.034	80	260	229	4.2	2.4	2752	2409	2470	2169	5290	420		88	1528	1735	68868	1500	34	170	45	0.030	8.0	7.3	7.4	7.0	7.0	7.0	7.2	360	180	180	180	52	0.29	0.50	3.30	4.08	0.9	0.5	1.0	0.8	1.1	1.3			0.8/0.8	4'/2'	3'/1'
Minimum		0.792	0.544	0.000	80	200	134	2.0	0.6	2257	225	2256	1971	4924	380	5	87	894	1341	35468	0	14	157	20	0.025	7.3	7.0	7.0	7.0	7.0	7.0	6.9	300	140	160	160	34	0.00	0.00	0.50	0.44	0.7	0.4	0.5	0.5	0.7	0.8	5.5	4.8			
Maximum		0.893	1.020	0.034	80	360	506	6.4	2.6	2752	2617	2832	2478	7462	520	12	88	3397	2594	71551	2116	46	186	3036	0.039	8.4	7.4	7.5	7.2	7.2	7.2	7.7	440	220	180	180	72	0.37	0.50	5.28	5.20	1.9	1.5	1.5	1.2	1.9	1.8	6.9	6.5			
Average		0.818	0.820	0.032	80	284	295	3.7	1.5	2460	2224	2453	2142	6090	417	9	87	1993	1938	62497	1563	26	170	177	0.034	7.8	7.3	7.3	7.1	7.1	7.1	7.2	365	174	168	169	54	0.06	0.09	2.39	2.71	1.0	0.8	1.0	0.7	1.1	1.3	6.4	5.5			

Month	September	Year	2021	McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	O	0.817	0.964	0.034	80	260	349	5.8	2.4	2496	2316	2747	2396	5614	430		87	2378	1772	64211	1592	47	157	39	0.028	8.4	7.1	7.4	7.1	7.0	7.1	7.2	440	180	160	180	80	0.05	0.09	3.32	5.16	0.9	0.7	0.9	0.7	1.8	2.0				0.8/0.8	4'/1.5'	4'/1'
2	O	0.819	0.954	0.034	80	260	143	3.8	2.0	2535	2427	2525	2194	5114	440		87	977	1776	66213	1450	30	174	45	0.030	7.5	7.3	7.3	7.1	7.1	7.1	7.1	280	200	180	180	40	0.26	0.33	3.00	3.58	0.8	0.6	0.8	0.6	1.4	2.2				0.8/0.8	5'/2'	4'/2'
3	O	0.811	0.813	0.034	80	250	221	3.4	2.2	2591	2528	2512	2195	5102	440	18	87	1495	1691	68308	1447	23	175	46	0.029	7.9	7.1	7.4	7.1	7.0	7.0	7.2	340	180	180	180	54	0.08	0.06	3.16	5.44	0.9	0.6	1.1	0.6	1.7	1.9	4.8	4.3	0.8/0.8	4'/2'	4'/1.5'
4	O	0.821	0.758	0.034	80	250													1712							7.7		7.3																		2.4			0.8/0.8		
5	C	0.838	0.757	0.034	80	250													1747							7.6		7.3																		2.2			0.8/0.8		
6	O	0.899	0.754	0.034	80	250													1874							7.7		7.2																		2.3			0.8/0.8		
7	O	0.805	0.900	0.012	80	250	232	5.6	2.6	2617	2566	2537	2201	6468	440		87	1558	1678	69162	647	42	173	100	0.029	7.8	7.2	7.3	7.1	7.1	7.0	7.1	360	160	160	160	52	0.03	0.09	2.52	4.24	1.4	0.9	0.8	1.1	1.1	1.6				0.8/0.8	OFF	12'/10'
8	O	0.806	0.826	0.000	80	250	431	3.8	1.8	2784	2607	2529	2200	6448	450		87	2897	1681	71938	0	26	178	2748	0.029	8.3	7.2	7.3	7.1	7.0	6.9	7.1	420	180	180	180	82	0.08	0.03	2.78	3.62	1.2	1.1	0.7	0.5	1.0	1.4				0.8/0.8	OFF	7'/4'
9	O	0.806	0.795	0.022	80	250	322	10.0	3.0	2786	2650	2658	2287	6142	480		86	2164	1681	72538	1127	66	181	61	0.028	7.8	7.3	7.3	7.1	7.0	7.0	7.0	360	180	160	160	62	0.28	0.03	2.16	3.12	0.9	0.7	0.4	0.4	2.0	1.4				0.8/0.8	OFF	5'/2.5'
10	O	0.794	0.716	0.034	80	260	198	4.0	2.8	2743	2696	2596	2260	5720	460	18	87	1311	1722	72578	1622	24	177	44	0.029	7.3	7.3	7.3	7.1	7.1	7.1	7.1	320	180	160	160	36	0.16	0.09	2.48	4.52	1.4	0.6	0.8	0.5	1.0	1.5	4.5	5.3	0.8/0.8	4'/2'	3'/1'
11	O	0.815	0.719	0.034	80	260													1767							7.8		7.3																		2.0			0.8/0.8		
12	O	0.877	0.719	0.034	80	260													1902							8.3		7.2																		2.1			0.8/0.8		
13	O	0.827	0.873	0.034	80	260	396	8.4	3.0	2690	2709	2598	2252	5470	460		87	2731	1793	72044	1551	61	177	45	0.030	8.4	7.1	7.4	7.1	7.1	7.1	7.1	460	180	180	180	78	0.07	0.09	1.40	5.10	1.1	1.0	0.6	0.8	1.3	1.9				0.8/0.8	4'/2'	4'/1'
14	O	0.813	0.851	0.012	80	260	354	3.0	0.8	2786	2681	2529	2185	3128	440		86	2400	1763	72952	313	21	174	218	0.030	8.3	7.1	7.3	7.1	7.1	7.1	7.1	380	180	180	180	74	0.27	0.27	0.04	0.16	1.0	0.6	0.9	0.6	0.5	0.7				0.8/0.8	41'/13'	OFFLINE
15	O	0.809	0.840	0.000	80	260	285	16.2	3.6	2550	2421	2516	2199	11238	420		87	1923	1754	66333	0	113	167	584	0.030	7.9	7.4	7.3	7.2	7.1	6.7	7.1	360	200	180	180	64	0.08	0.29	0.58	4.06	0.9	0.6	0.6	0.6	1.8	1.8				0.8/0.8	10'/9'	OFFLINE
16	O	0.793	0.723	0.000	80	260	464	5.8	2.4	2760	2716	2618	2278	10738	450		87	3069	1720	73072	0	35	172	2089	0.028	8.4	7.3	7.3	7.0	7.0	6.7	7.1	440	180	180	180	80	0.00	0.15	2.88	4.64	0.9	0.6	0.6	0.6	1.4	1.7				0.8/0.8	10'/8'	OFFLINE
17	C	0.790	0.709	0.019	80	290	300	5.8	2.0	2799	2711	2779	2394	6216	480	16	86	1977	1911	73525	985	34	173	72	0.030	8.0	7.2	7.2	7.0	7.0	6.8	7.1	380	180	180	160	62	0.31	0.16	2.52	4.02	0.9	0.7	0.7	0.5	1.3	1.6	5.3	5.2	0.8/0.8	7'/2.5'	7'/3'
18	R	0.840	0.708	0.034	80	290													2032							7.5		7.3																		1.5			0.8/0.8		
19	O	0.883	0.711	0.034	80	290													2136							7.8		7.3																		2.0			0.8/0.8		
20	C	0.831	0.884	0.034	80	290	218	5.8	2.2	2996	2914	2807	2442	5888	480		87	1511	2010	78863	1670	43	171	46	0.031	7.8	7.3	7.2	7.0	7.1	6.9	7.1	380	180	180	180	60	0.12	0.10	1.86	3.74	0.9	0.7	0.8	0.6	1.3	2.7				0.8/0.8	6'/3'	5'/2'
21	C	0.789	0.795	0.034	80	290	308	3.0	0.8	2822	2669	2684	2327	6102	460		87	2027	1908	73272	1730	20	171	42	0.031	8.0	7.2	7.4	7.1	7.1	7.0	7.1	340	180	180	180	56	0.26	0.54	1.32	1.44	1.0	0.4	0.7	0.6	0.7	1.2				0.8/0.8	6'/3'	4'/2'
22	C	0.794	0.834	0.034	80	290	291	3.8	1.2	2934	2834	2797	2426	6902	460		87	1927	1920	76968	1957	26	164	39	0.030	7.9	7.1	7.0	7.0	7.0	6.9	7.1	360	180	180	180	48	0.00	0.27	1.30	1.00	1.1	0.6	0.8	0.6	0.8	0.9				0.8/0.8	4'/2'	4'/2'
23	O	0.796	0.837	0.034	80	290	373	4.2	2.4	2867	2791	2781	2445	6702	480		88	2476	1925	75500	1900	29	173	39	0.030	8.2	7.2	7.4	7.0	7.0	6.9	7.0	400	180	180	180	74	0.10	0.28	3.54	4.76	1.0	0.7	0.9	0.8	1.3	1.7				0.8/0.8	6'/3'	4'/2'
24	C	0.793	0.760	0.034	80	280	161	5.0	3.0	2869	2688	2704	2353	6704	460	17	87	1065	1852	74153	1901	32	170	38	0.029	7.4	7.3	7.3	7.1	7.0	6.9	7.1	340	180	180	180	40	0.00	0.24	2.50	5.34	1.1	0.7	1.2	0.8	1.2	1.5	4.5	6.1	0.8/0.8	5'/2'	4'/2'
25	O	0.810	0.751	0.034	80	280													1892							8.1		7.2																		2.5			0.8/0.8		
26	O	0.863	0.745	0.034	80	280													2015							7.5		7.2																		2.5			0.8/0.8		
27	C	0.830	0.889	0.034	80	280	129	3.4	2.0	2803	2830	2737	2403	6546	460		88	893	1938	75167	1856	25	168	40	0.030	7.4	7.2	7.2	7.0	7.0	7.1	7.0	320	180	180	180	46	0.11	0.09	1.86	2.46	1.3	0.8	0.5	0.7	1.5	1.9				0.8/0.8	4'/2'	4'/2'
28	C	0.814	0.886	0.034	80	280	312	4.0	1.6	2823	2744	2736	2394	7118	480		88	2118	1901	74286	2018	30	175	36	0.030	7.3	7.1	7.4	7.1	7.0	6.9	7.0	300	180	180	180	38	0.33	0.43	2.92	4.56	1.3	0.9	0.9	0.7	2.0	2.7				0.8/0.8	4.5'/1'	4'/1'
29	C	0.807	0.858	0.034	80	280	269	5.2	2.0	2806	2742	2719	2358	6252	460		87	1810	1885	74033	1773	37	169	41	0.030	7.7	7.1	7.1	7.0	7.0	7.0	7.0	280	160	160	160	58	0.00	0.08	2.44	5.12	1.3	0.9	1.4	1.1	2.7	4.2				0.8/0.8	3'/1'	3'/1'
30	C	0.784	0.852	0.034	80	280	227	5.4	1.2	2786	2781	2720	2380	6228	460		88	1484	1831	74286	1766	38	169	41	0.029	7.5	7.1	7.1	7.0	7.0	7.0	7.0	260	160	160	160	46	0.00	0.00	2.16	3.96	0.7	1.0	1.0	1.2	2.5	2.6				0.8/0.8	3'/1'	3'/1'
Minimum		0.784	0.708	0.000	80	250	129	3.0	0.8	2496	2316	2512	2185	3128	420	16	86	893	1678	64211	0	20	157	36	0.029	7.3	7.1	7.0	7.0	7.0	6.7	7.0	260	160	160	160	36	0.00	0.00	0.04	0.16	0.7	0.4	0.4	0.4	0.5	0.7	4.5	4.3					
Maximum		0.899	0.964	0.034	80	290	464	16.2	3.6	2996	2914	2807	2445	11238	480	18	88	3069	2136	78863	2018	113	181	2748	0.033	8.4	7.4	7.4	7.2	7.1	7.1	7.2	460	200	180	180	82	0.33	0.54	3.54	5.44	1.4	1.1	1.4	1.2	2.7	4.2	5.3	6.1					
Average		0.819	0.806	0.028	80	270	285	5.5	2.1	2754	2668	2659	2313	6469	457	17	87	1914	1840	72352	1300	38	172	307	0.030	7.8	7.2	7.3	7.1	7.0	7.0	7.1	358	179	174	174	59	0.12	0.18	2.23	3.81	1.0	0.7	0.8	0.7	1.4	2.0	4.8	5.2					

Month	October	Year	2021	McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	O	0.787	0.772	0.034	80	350	221	4.8	3.2	2800	2703	2560	2228	6170	440	13	87	1451	2297	73432	1750	32	172	41	0.039	7.8	7.1	7.2	6.9	7.0	7.0	6.9	300	160	160	160	42	0.01	0.09	1.59	2.66	2.0	1.3	1.0	1.1	2.2	2.3	4.6	4.6	0.8/0.8	3.5'/2'	3'/1.5'
2	O	0.795	0.738	0.034	80	350													2321								7.7		7.1																		2.1			0.8/0.8		
3	O	0.854	0.731	0.034	80	350													2493								7.7		7.2																		1.7			0.8/0.8		
4	O	0.803	0.891	0.034	80	350	314	3.2	1.0	2902	2658	2546	2238	6066	440		88	2103	2344	74193	1720	21	173	43	0.039	7.8	7.1	7.2	7.0	7.0	7.0	7.1	340	180	180	160	60	0.02	0.77	0.05	0.29	1.6	0.6	1.2	0.8	1.2	1.3			0.8/0.8	3'/1'	3'/1'
5	C	0.787	0.860	0.034	80	350	252	4.2	1.2	2808	2643	2628	2301	6270	450		88	1654	2297	72738	1778	28	171	40	0.037	8.0	7.2	7.2	7.0	7.0	7.0	7.1	360	160	180	160	68	0.08	0.69	1.34	1.52	1.3	0.6	1.1	1.0	2.0	2.3			0.8/0.8	3'/1'	3'/1'
6	O	0.793	0.849	0.034	80	350	325	3.4	1.8	2794	2561	2461	2158	6380	440		88	2149	2315	71457	1809	22	179	39	0.040	7.8	7.2	7.3	7.1	7.1	7.0	7.1	380	160	160	160	64	0.00	0.31	0.06	1.64	1.2	0.5	1.3	1.0	1.3	1.5			0.8/0.8	5'/3'	4'/2'
7	O	0.790	0.830	0.034	80	350	184	2.8	1.2	3139	2577	2554	2233	5950	430		87	1212	2306	76274	1687	18	168	45	0.039	7.9	7.3	7.3	7.1	7.1	7.0	7.0	360	160	160	160	66	0.34	0.35	0.01	0.22	1.6	1.2	0.9	0.7	0.8	1.1			0.8/0.8	5'/1.5'	4'/1'
8	C	0.773	0.796	0.034	80	260	284	4.2	2.2	2592	2475	2644	2341	5812	440	12	89	1831	1676	67614	1648	27	166	40	0.027	7.8	7.3	7.3	7.1	7.1	7.0	7.2	380	160	160	160	68	0.03	0.12	1.50	2.56	1.0	1.1	1.3	0.9	1.8	1.9	4.0	2.8	0.8/0.8	4'/1'	3'/1'
9	C	0.804	0.883	0.034	80	260													1743								7.9		7.2																		1.9			0.8/0.8		
10	C	0.845	0.820	0.034	80	260													1832								8.4		7.3																		1.5			0.8/0.8		
11	C	0.812	0.815	0.034	80	260													1761								7.9		7.2																		1.7			0.8/0.6		
12	C	0.802	0.916	0.034	80	260	156	3.4	1.0	2667	2551	2501	2188	5086	440		87	1043	1739	69629	1442	23	176	48	0.030	7.6	7.2	7.4	7.0	7.1	7.1	7.1	340	180	160	160	50	0.05	0.37	1.17	1.70	1.1	1.1	1.2	0.8	0.9	1.1			0.8/0.8	4'/2'	3'/1'
13	C	0.791	0.906	0.034	80	260	243	5.0	4.8	2679	2562	2585	2284	5710	480		88	1603	1715	69936	1619	33	186	42	0.028	7.9	7.2	7.3	7.1	7.1	7.0	7.1	340	160	160	160	70	0.01	0.01	1.96	5.64	1.4	1.1	1.6	1.5	2.6	1.8			0.8/0.8	3.5'/1'	3.5'/1.5'
14	C	0.783	0.863	0.034	80	260	325	4.0	1.0	2627	2633	2497	2199	5452	430		88	2122	1698	70189	1546	26	172	45	0.029	8.1	7.2	7.3	7.1	7.0	7.0	7.0	380	200	160	160	48	0.02	0.39	1.50	3.00	1.2	0.7	1.3	0.8	1.4	1.4			0.8/0.8	4'/1'	4'/1'
15	C	0.792	0.769	0.034	80	280	333	5.1	1.4	2616	2468	2514	2225	6104	440	10	89	2200	1849	67841	1731	34	175	38	0.031	8.1	7.2	7.2	7.0	7.0	7.0	7.1	380	180	160	160	78	0.01	0.05	2.10	1.62	1.1	0.9	1.3	1.0	1.0	1.1	4.3	4.4	0.8/0.8	4'/2'	4'/2'
16	C	0.792	0.738	0.034	80	280													1849								8.1		7.4																		1.1			0.8/0.8		
17	S	0.874	0.744	0.034	80	280													2041								8.0		7.4																		1.0			0.8/0.8		
18	C	0.811	0.897	0.034	80	280	366	3.2	1.0	2805	2586	2533	2233	6370	420		88	2476	1894	71938	1806	22	166	39	0.032	8.1	7.2	7.3	7.0	7.0	7.0	7.1	400	180	160	160	76	0.03	0.04	0.47	0.96	1.7	1.0	1.7	1.1	1.0	1.1			0.8/0.8	5'/2.5'	4'/2'
19	O	0.786	0.886	0.034	80	280	302	3.0	0.8	2772	2527	2598	2294	6064	430		88	1980	1835	70710	1720	20	166	41	0.030	7.4	7.2	7.3	7.0	7.0	7.0	6.9	320	180	160	160	46	0.08	0.58	0.25	0.60	2.6	2.3	2.8	1.4	1.5	1.1			0.8/0.8	4'/2'	4'/2'
20	C	0.820	0.966	0.034	80	280	257	2.8	3.0	2642	2602	2444	2151	5300	450		88	1758	1915	69976	1503	19	184	46	0.033	7.4	7.0	7.1	7.0	7.0	7.0	6.9	380	180	160	180	58	0.40	1.31	3.80	3.38	4.9	4.7	3.9	0.6	2.0	2.0			0.8/0.8	5'/2'	5'/1.5'
21	S	0.833	0.837	0.034	80	280	326	3.0	2.0	2549	2460	2519	2217	6438	450		88	2265	1945	66840	1826	21	179	36	0.033	7.8	7.1	7.2	7.0	7.0	7.0	7.1	340	160	160	140	64	0.00	0.08	2.17	3.84	4.2	5.3	5.4	2.4	2.1	2.1			0.8/0.8	4'/2'	4'/1.5'
22	O	0.855	0.748	0.034	80	240	283	5.2	2.0	2499	2464	2529	2245	8036	420	6	89	2018	1711	66226	2279	37	166	29	0.029	8.1	7.1	7.2	7.0	7.0	6.9	7.0	320	160	160	160	56	0.79	0.94	2.31	1.95	8.5	9.0	7.0	2.3	1.2	1.3	4.5	3.1	0.8/0.8	4'/2'	4'/2'
23	R	0.842	0.777	0.034	80	240													1685								7.9		7.2																		2.6			0.8/0.6		
24	R	0.951	0.772	0.034	80	240													1904								7.9		7.2																		2.2			0.8/0.8		
25	R	0.890	0.843	0.034	80	240	319	4.6	2.8	2716	2592	2513	2212	5510	450		88	2368	1781	70830	1562	34	179	44	0.030	7.8	7.1	7.2	6.9	6.9	6.9	6.9	340	140	160	140	56	0.04	0.02	1.68	3.38	3.8	4.8	4.8	2.5	1.2	1.8			0.8/0.8	4'/2.5'	5'/2.5'
26	R	0.855	0.809	0.028	80	240	279	4.4	2.6	2702	2543	2496	2184	5978	450		88	1989	1711	69989	1396	31	180	49	0.029	7.9	7.1	7.3	7.0	7.0	6.9	7.0	360	180	160	160	54	0.02	0.20	1.62	3.30	2.9	3.5	3.6	1.2	0.9	2.0			0.8/0.8	4'/2'	4'/2'
27	R	0.850	0.819	0.034	80	240	308	4.6	2.8	2663	2492	2569	2262	5470	430		88	2183	1701	68788	1551	33	167	43	0.028	8.0	7.0	7.1	6.9	6.9	6.9	6.8	320	160	160	140	58	0.10	0.32	1.82	3.34	3.0	3.7	3.8	1.9	1.5	2.1			0.8/0.8	4'/2'	3'/1.5'
28	C	0.816	0.831	0.034	80	240	310	5.0	3.2	2716	2664	2636	2355	5548	430		89	2110	1633	71791	1573	34	163	45	0.026	7.9	7.1	7.3	7.0	7.0	7.0	7.0	380	180	160	160	62	0.15	0.18	1.26	2.94	1.9	2.9	3.3	1.7	0.7	1.9			0.8/0.8	4'/2'	4'/2'
29	O	0.797	0.686	0.034	80	240	340	3.8	2.8	2680	2638	2564	2274	5698	430	12	89	2260	1595	70963	1616	25	168	43	0.026	7.9	7.1	7.2	7.0	7.0	6.9	7.0	360	180	160	160	62	0.00	0.39	1.68	3.76	1.8	1.8	2.4	1.5	1.0	1.9	4.2	2.6	0.8/0.8	4'/2'	5'/3'
30	S	0.860	0.642	0.034	80	240													1721								7.2		7.1																		2.5			0.8/0.8		
31	S	0.853	0.636	0.034	80	240													1707								7.5		7.3																		2.5			0.8/0.8		
Minimum		0.773	0.636	0.028	80	240	156	2.8	0.8	2499	2460	2444	2151	5086	420	6	87	1043	1595	66226	1396	18	163	29	0.028	7.2	7.0	7.1	6.9	6.9	6.9	6.8	300	140	160	140	42	0.00	0.01	0.01	0.22	1.0	0.5	0.9	0.6	0.7	1.0	4.0	2.6					
Maximum		0.951	0.966	0.034	80	350	366	5.2	4.8	3139	2703	2644	2355	8036	480	13	89	2476	2493	76274	2279	37	186	49	0.040	8.4	7.3	7.4	7.1	7.1	7.1	7.2	400	200	180	180	78	0.79	1.31	3.80	5.64	8.5	9.0	7.0	2.5	2.6	2.6	4.6	4.6					
Average		0.822	0.809	0.034	80	274	286	4.0	2.1	2718	2570	2545	2241	5971	440	11	88	1939	1904	70568	1678	27	173	42	0.032	7.8	7.2	7.2	7.0	7.0	7.0	7.0	354	170	162	158	60	0.11	0.36	1.42	2.42	2.4	2.4	2.5	1.3	1.4	1.7	4.3	3.5					

Month	November	Year	2021	McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	R	0.918	1.200	0.034	80	240	290	4.0	2.8	2664	2388	2525	2233	5190	440		88	2220	1837	67414	1472	40	174	45	0.031	7.8	7.1	7.3	7.0	6.9	6.9	7.1	360	160	160	160	60	0.10	0.73	1.64	2.30	1.5	0.6	1.1	1.5	1.9	2.8			0.8/0.8	4'/2'	3'/1'
2	C	0.849	1.326	0.034	80	240	276	1.6	5.6	2655	2427	2626	2347	5222	460		89	1954	1699	67814	1481	18	175	45	0.027	7.7	7.1	7.0	7.0	7.0	6.9	7.0	320	160	160	180	50	0.03	0.55	2.02	3.04	1.6	1.0	1.6	1.1	1.1	3.6			0.8/0.8	4'/2'	4'/2'
3	O	0.840	1.302	0.034	80	240	349	1.6	3.4	2582	2397	2563	2282	5022	450		89	2445	1681	66440	1424	17	176	46	0.028	8.3	7.1	6.9	7.0	7.0	7.0	7.0	460	180	160	160	76	0.14	0.32	1.72	2.74	1.2	0.9	1.6	1.1	1.0	2.7			0.8/0.8	3'/1'	4'/2'
4	R	0.869	1.298	0.034	80	240	300	1.8	4.4	2660	2477	2498	2225	5826	450		89	2174	1739	68548	1652	19	180	41	0.029	7.7	7.1	7.0	6.9	7.0	7.0	7.0	320	180	160	160	58	0.00	0.61	1.40	2.06	1.7	0.9	1.6	1.2	1.3	3.6			0.8/0.8	4'/2'	3'/1'
5	R	0.865	1.289	0.034	80	290	287	0.8	2.0	2489	2517	2546	2248	4862	470	8	88	2070	2092	66800	1379	9	185	48	0.035	7.3	6.8	6.9	7.0	7.0	7.0	7.0	300	160	160	160	34	0.03	0.24	0.66	1.70	1.7	1.3	2.0	1.3	1.3	1.9	2.1	3.0	0.8/0.8	4'/2'	4'/2'
6	R	0.899	1.288	0.034	80	290													2174							7.3		7.0																		1.8			0.8/0.8		
7	O	0.964	1.290	0.034	80	290													2332							7.5		7.1																		1.6			0.8/0.8		
8	O	0.840	1.203	0.034	80	290	147	2.4	1.6	2504	2516	2494	2210	5230	470		89	1030	2032	66987	1483	24	188	45	0.034	7.6	7.1	7.1	7.0	7.0	7.0	7.0	260	160	160	160	46	0.45	0.38	0.50	1.56	1.1	1.5	1.8	1.3	1.0	1.3			0.8/0.8	4'/2'	5'/2'
9	O	0.882	1.247	0.034	80	290	442	3.4	1.4	2434	2562	2532	2264	5120	440		89	3251	2133	66667	1452	35	174	45	0.035	8.3	7.1	6.8	6.9	6.9	6.9	6.9	420	180	160	160	78	0.07	0.23	1.76	1.38	1.2	1.9	1.9	1.4	1.2	1.3			0.8/0.8	5'/2.5'	5'/2.5'
10	O	0.843	1.254	0.034	80	290	294	3.0	2.4	2504	2597	2598	2312	5488	460		89	2067	2039	68068	1556	31	177	43	0.033	8.1	7.1	6.9	7.0	6.9	7.0	6.9	320	160	160	160	58	0.35	0.34	1.66	2.74	1.6	1.9	2.1	1.4	1.0	1.9			0.8/0.8	6'/3'	6'/3'
11	C	0.864	1.258	0.034	80	290													2090							7.4		7.0																		1.6			0.8/0.8		
12	C	0.818	1.253	0.034	80	290	323	1.0	2.0	2559	2543	2503	2224	5238	440	16	89	2204	1978	68081	1485	10	176	46	0.033	7.9	7.1	6.9	6.9	6.9	7.0	6.9	340	160	160	160	62	0.63	0.42	1.22	2.60	2.2	3.1	3.4	1.9	0.6	1.6	0.0	2.2	0.8/0.8	5'/2'	5'/2'
13	C	0.840	1.144	0.034	80	290													2032							7.8		6.8																		1.8			0.8/0.8		
14	F	0.890	1.153	0.034	80	290													2153							7.4		6.9																		1.7			0.8/0.8		
15	C	0.859	1.112	0.034	80	290	173	3.2	1.6	2595	2555	2527	2252	5284	420		89	1239	2078	68722	1498	30	166	45	0.035	7.6	7.0	7.0	6.9	6.9	7.0	6.9	280	140	140	140	46	0.25	0.42	1.42	2.24	0.7	3.0	2.6	2.4	0.4	1.6			0.8/0.8	4'/2'	5'/3'
16	C	0.860	1.080	0.034	80	290	215	1.2	1.4	2543	2501	2503	2229	5300	450		89	1542	2080	67307	1503	11	180	45	0.035	7.9	7.1	7.1	6.9	7.0	7.0	6.9	280	140	140	140	50	0.31	0.50	1.16	2.36	2.9	4.0	3.4	1.9	1.0	1.7			0.8/0.8	4'/2'	4'/2'
17	C	0.831	1.081	0.034	80	290	332	1.2	0.8	2579	2512	2578	2280	5832	450		88	2301	2010	67934	1654	11	175	41	0.033	8.3	7.0	7.1	6.9	7.0	7.0	6.9	460	140	140	140	90	0.22	0.40	1.02	2.12	5.3	7.1	5.8	2.3	0.4	0.8			0.8/0.8	5'/3'	4'/2'
18	O	0.819	1.082	0.034	80	290	300	0.8	1.8	2485	2450	2651	2350	5914	450		89	2049	1981	65853	1677	7	170	39	0.032	8.0	6.9	7.0	6.9	6.9	6.9	6.9	340	160	140	140	70	0.26	0.58	1.26	2.18	6.4	7.8	7.9	3.4	0.3	0.9			0.8/0.8	4'/2'	5'/3'
19	C	0.807	1.082	0.034	80	300	100	1.2	1.2	2617	2471	2495	2224	5538	440	14	89	673	2019	67894	1570	11	176	43	0.034	7.6	7.0	7.1	6.9	6.9	6.9	6.8	280	160	140	140	40	0.07	0.29	1.42	2.60	6.8	8.7	8.2	4.1	0.3	0.8	3.1	2.1	0.8/0.8	4'/2'	4'/2'
20	C	0.846	1.086	0.034	80	300													2117							7.6		7.0																		0.7			0.8/0.8		
21	C	0.859	1.053	0.034	80	300													2149							7.5		7.1																		2.1			0.8/0.8		
22	C	0.827	1.046	0.034	80	300	260	2.2	1.0	2634	2554	2473	2190	5768	430		89	1793	2069	69229	1636	19	174	42	0.035	7.9	6.8	7.2	6.8	6.8	6.8	6.9	320	140	140	140	58	0.10	0.28	1.72	3.24	9.1	9.2	7.6	5.5	1.3	1.6			0.8/0.8	5'/3'	4'/2'
23	C	0.824	1.027	0.034	80	300	253	1.8	1.4	2707	2548	2535	2239	6270	450		88	1739	2062	70123	1778	15	178	39	0.035	8.1	6.9	6.9	6.9	6.9	6.9	6.9	320	120	120	120	60	0.00	0.35	1.14	2.90	7.4	9.4	9.5	4.5	0.6	1.4			0.8/0.8	5'/1'	5'/1'
24	C	0.832	0.948	0.034	80	510	265	2.0	0.8	2629	2419	2472	2188	5816	470	18	89	1839	3539	67361	1649	16	190	41	0.061	7.6	6.9	7.0	6.9	6.9	6.8	6.9	280	140	120	120	38	0.79	1.30	1.39	2.78	5.4	8.0	9.1	6.6	0.8	0.9	3.8	2.2	0.8/0.8	5'/1'	5'/1.5'
25	C	0.852	0.892	0.034	80	510													3624							7.9		7.0																		1.5			0.8/0.8		
26	C	0.788	0.886	0.034	80	510													3352							7.8		7.2																		1.3			0.8/0.8		
27	C	0.808	0.875	0.034	80	510													3437							7.6		6.9																		1.5			0.8/0.8		
28	F	0.862	0.702	0.034	80	510													3666							8.2		7.2																		1.6			0.8/0.8		
29	F	0.817	0.624	0.034	80	510	226	1.2	1.0	2791	2527	2563	2286	5328	450		89	1540	3475	70963	1511	6	176	47	0.057	7.5	7.1	7.1	7.0	7.0	7.0	6.9	280	160	140	140	46	0.32	0.53	1.50	4.00	1.2	1.0	1.1	1.4	0.6	1.7			0.8/0.8	4'/1.5'	3'/1'
30	C	0.805	0.628	0.034	80	510	307	4.8	1.6	2711	2491	2473	2213	5640	450		89	2061	3424	69415	1599	25	182	43	0.058	7.7	7.0	6.9	7.0	7.0	7.0	7.0	340	140	140	140	76	0.04	0.25	1.69	3.86	1.1	1.9	2.0	1.5	1.5	1.6			0.8/0.8	4'/1'	4'/2'
Minimum		0.788	0.624	0.034	80	240	100	0.8	0.8	2434	2388	2472	2188	4862	420	8	88	673	1681	65853	1379	6	166	39	0.029	7.3	6.8	6.8	6.8	6.8	6.8	6.8	260	120	120	120	34	0.00	0.23	0.50	1.38	0.7	0.6	1.1	1.1	0.3	0.7	0.0	2.1					
Maximum		0.964	1.326	0.034	80	510	442	4.8	5.6	2791	2597	2651	2350	6270	470	18	89	3251	3666	70963	1778	40	190	48	0.058	8.3	7.1	7.3	7.0	7.0	7.0	7.1	460	180	160	180	90	0.79	1.30	2.02	4.00	9.1	9.4	9.5	6.6	1.9	3.6	3.8	3.0					
Average		0.849	1.090	0.034	80	336	270	2.1	2.0	2597	2497	2534	2252	5468	449	14	89	1905	2370	67980	1550	19	177	44	0.039	7.8	7.0	7.0	6.9	6.9	6.9	6.9	331	155	147	148	58	0.22	0.46	1.38	2.55	3.2	3.9	3.9	2.4	0.9	1.7	2.3	2.4					

Month	December	Year	2021	McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	C	0.805	0.619	0.034	80	290	260	1.4	1.4	2780	2566	2734	2443	5638	440		89	1746	1947	71337	1599	7	161	44	0.030	7.9	7.1	7.1	6.9	6.9	6.9	6.9	300	160	140	140	66	0.57	0.85	1.58	3.84	1.0	2.4	2.5	1.4	0.6	1.8				0.8/0.8	4'/1'	4'/1'
2	O	0.788	0.709	0.034	80	290	246	5.4	2.8	2791	2498	2502	2240	6178	440		90	1617	1906	70576	1752	32	176	40	0.032	8.0	7.1	7.1	6.9	6.9	6.9	6.9	360	160	140	160	68	0.49	0.92	1.20	3.38	2.2	4.5	3.9	2.5	0.5	1.9				0.8/0.8	5'/2.5'	5'/2'
3	O	0.783	0.758	0.034	80	200	275	1.4	2.0	2630	2397	2539	2255	6008	450	7	89	1796	1306	67080	1704	9	177	39	0.022	8.2	7.0	7.0	6.9	6.9	6.9	6.9	360	160	140	140	66	0.17	0.42	0.38	2.14	4.3	7.1	5.7	3.2	0.5	1.6	2.4	2.4	0.8/0.8	4'/1'	4'/1'
4	O	0.802	0.766	0.034	80	200													1338							7.9		7.1																		2.1			0.8/0.8		
5	O	0.866	0.758	0.034	80	200													1444							7.6		7.1																		1.7			0.8/0.8		
6	O	0.819	0.751	0.034	80	200	354	2.2	2.8	2664	2503	2641	2355	5582	460		89	2418	1366	68948	1583	14	174	43	0.022	8.0	7.0	7.1	6.9	6.9	6.9	7.1	360	140	140	140	70	0.32	0.35	0.38	1.68	7.2	2.9	7.0	4.1	0.4	2.1				0.8/0.8	5'/3'	5'/2'
7	O	0.829	0.908	0.034	80	200	306	1.6	3.2	2471	2870	2595	2315	5698	450		89	2116	1383	71270	1616	12	173	44	0.022	8.2	7.0	7.2	7.0	6.9	6.9	6.9	380	140	140	140	72	0.09	0.45	0.32	1.54	1.5	4.4	3.9	2.9	0.5	2.1				0.8/0.8	5'/2.5'	3'/1'
8	O	0.806	1.063	0.034	80	200	304	1.8	2.0	2598	2624	2602	2305	5624	460		89	2044	1344	69682	1595	16	177	43	0.022	8.0	6.9	7.1	6.9	6.9	6.9	6.9	320	140	140	140	58	0.08	0.24	1.28	1.88	1.9	2.4	2.8	2.5	1.7	1.3				0.8/0.8	5'/1.5'	5'/1'
9	C	0.803	1.061	0.034	80	200	296	2.0	1.8	2731	2471	2439	2178	4974	440		89	1982	1339	69415	1410	18	180	49	0.023	8.1	7.0	7.0	6.9	6.9	6.9	7.0	360	140	140	140	70	0.35	0.17	0.67	1.84	6.7	2.4	2.9	1.6	0.3	2.5				0.8/0.8	3'/1'	5'/2'
10	C	0.784	0.956	0.034	80	260	443	1.4	1.8	2575	2502	2500	2223	5012	440	20	89	2897	1700	67747	1421	11	176	47	0.029	8.1	7.1	7.3	7.0	7.0	7.0	7.1	300	140	140	140	58	0.10	0.09	0.58	1.92	1.1	2.6	1.5	1.0	0.4	2.5	2.6	2.5	0.8/0.8	4.5'/2'	5'/2'
11	O	0.828	0.866	0.034	80	260													1795							8.1		7.0																		2.2			0.8/0.8		
12	R	0.917	0.859	0.034	80	260													1988							7.8		7.2																		2.5			0.8/0.8		
13	R	0.961	0.980	0.035	80	260	355	2.4	3.0	2727	2454	2505	2241	5530	450		89	2845	2084	69135	1614	20	180	42	0.035	8.1	7.1	7.2	7.0	6.9	6.9	7.0	320	160	140	160	58	0.17	0.29	0.00	0.82	1.2	0.5	0.8	1.2	1.0	2.4				0.8/0.8	4'/2'	4'/2'
14	R	0.909	1.058	0.034	80	260	312	2.4	3.0	2699	2392	2472	2210	5410	460		89	2365	1971	67934	1534	21	186	44	0.033	7.5	7.1	7.1	6.9	6.9	7.0	7.0	200	180	160	160	26	0.25	0.66	0.84	1.56	1.5	2.5	1.8	1.4	0.6	2.5				0.8/0.8	5'/2'	4'/1'
15	R	0.897	1.063	0.034	80	260	411	2.6	3.6	2659	2632	2444	2182	5528	460		89	3075	1945	70603	1568	23	188	44	0.033	8.3	7.3	7.2	6.9	6.9	6.9	6.9	400	140	140	140	70	0.03	0.39	0.74	1.86	4.2	6.0	2.5	3.1	0.6	3.2				0.8/0.8	4'/2'	5'/2'
16	R	0.951	1.054	0.034	80	260	304	1.4	2.4	2603	2379	2433	2179	5918	450		90	2411	2062	66480	1678	12	185	39	0.035	8.4	7.0	7.1	6.9	6.9	6.9	6.9	380	120	120	120	72	0.50	0.71	0.52	1.62	6.1	8.3	7.3	4.4	0.5	2.4				0.8/0.8	5'/2.5'	5'/2'
17	C	0.891	1.059	0.034	80	250	167	1.6	2.0	2601	2487	2496	2244	5934	440	12	90	1241	1858	67894	1683	14	176	40	0.031	7.7	7.0	7.0	6.9	6.9	6.9	7.0	220	140	120	120	38	0.16	0.46	0.54	1.42	6.3	8.8	8.0	4.7	0.5	2.5	3.4	2.3	0.8/0.8	4'/1.5'	5'/2'
18	C	0.892	1.055	0.034	80	250													1860							8.4		7.1																		2.8			0.8/0.8		
19	S	0.909	1.058	0.034	80	250													1895							7.4		7.0																		2.7			0.8/0.8		
20	O	0.869	1.064	0.034	80	250	275	1.6	2.8	2767	2536	2579	2318	6050	440		90	1993	1811	70763	1716	14	171	41	0.029	7.5	7.0	7.1	6.9	6.9	6.9	6.9	200	140	140	140	34	0.07	0.07	0.68	1.70	0.4	0.2	2.1	1.6	0.6	2.8				0.8/0.8	4'/2'	6'/3'
21	R	0.873	1.059	0.034	80	250	202	2.4	3.4	2672	2471	2558	2289	6146	450		89	1471	1820	68628	1743	21	176	39	0.030	7.4	7.0	7.0	7.0	6.9	6.8	6.9	220	140	140	160	34	0.80	0.40	1.18	1.90	0.8	0.4	1.5	1.7	0.6	2.7				0.8/0.8	5'/2'	5'/2'
22	C	0.910	1.055	0.035	80	270	168	3.0	3.0	2683	2521	2491	2243	5698	460	20	90	1275	2049	69442	1663	26	185	41	0.034	7.6	7.0	7.1	6.9	6.9	6.9	6.9	220	140	140	140	38	0.05	0.04	1.06	2.02	1.0	1.4	2.0	2.3	0.6	2.5	3.7	0.0	0.8/0.8	5'/2'	4'/2'
23	S	0.988	1.044	0.034	80	270													2225							7.7		7.1																		2.3			0.8/0.8		
24	S	1.012	1.030	0.034	80	270													2279							7.6		7.1																		2.7			0.8/0.8		
25	S	0.952	1.032	0.034	80	270													2144							8.1		7.2																		2.3			0.8/0.8		
26	R	1.022	1.029	0.034	80	270													2301							7.7		7.1																		2.4			0.8/0.8		
27	R	1.076	1.020	0.034	80	270	388	2.2	2.4	2647	2473	2594	2309	5460	460		89	3482	2423	68321	1548	19	177	44	0.039	8.3	6.9	7.1	6.8	6.8	6.8	6.8	340	120	140	120	73	0.01	0.27	1.32	1.76	1.8	3.3	2.7	2.9	1.2	2.6				0.8/0.8	4.5'/2'	5'/1.5'
28	R	1.016	1.028	0.034	80	270	391	3.0	2.6	2713	2484	2521	2250	5600	480		89	3313	2288	69349	1588	26	190	43	0.038	8.3	6.9	6.9	6.8	6.8	6.8	6.8	340	140	120	140	68	0..03	0.02	1.40	1.88	0.8	1.5	1.7	2.3	1.0	2.6				0.8/0.8	5'/2'	5'/2'
29	S	1.034	1.022	0.034	80	340	258	1.4	2.0	2766	2591	2522	2252	6240	450	18	89	2225	2932	71484	1769	12	178	40	0.049	7.7	6.9	7.0	6.9	6.8	6.9	6.9	240	140	140	140	42	0.00	0.04	1.24	1.88	0.7	1.2	0.9	1.8	0.6	2.8	4.2	2.6	0.8/0.8	7'/2.5'	6'/2'
30	S	0.983	1.023	0.034	80	340													2787							7.7		7.0																		3.0			0.8/0.8		
31	S	0.991	1.027	0.034	80	340													2810							8.1		7.0																		2.6			0.8/0.8		
Minimum		0.783	0.619	0.034	80	200	167	1.4	1.4	2471	2379	2433	2178	4974	440	7	89	1241	1306	66480	1410	7	161	39	0.022	7.4	6.9	6.9	6.8	6.8	6.8	6.8	200	120	120	120	26	0.00	0.02	0.00	0.82	0.4	0.2	0.8	1.0	0.3	1.3	2.4	0.0				
Maximum		1.076	1.064	0.035	80	340	443	5.4	3.6	2791	2870	2734	2443	6240	480	20	90	3482	2932	71484	1769	32	190	49	0.045	8.4	7.3	7.3	7.0	7.0	7.0	7.1	400	180	160	160	73	0.80	0.92	1.58	3.84	7.2	8.8	8.0	4.7	1.7	3.2	4.2	2.6				
Average		0.902	0.962	0.034	80	284	301	2.2	2.5	2672	2518	2535	2265	5696	452	15	89	2227	1948	69268	1620	17	178	42	0.032	7.9	7.0	7.1	6.9	6.9	6.9	6.9	306	144	138	141	57	0.23	0.36	0.84	1.93	2.7	3.3	3.2	2.5	0.7	2.4	3.3	2.0				

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
SLUDGE and SOLIDS MONITORING/Feet 2021

	Biosolids Basin			Pond 2	
	CENTER	SOUTH	NORTH	North to South	East to West
1	10.0	9.5	9.0	0.25	0.25
2	10.0	9.5	9.0	0.25	0.25
3	10.0	9.5	9.5	0.00	0.00
4	10.0	10.0	9.0	0.00	0.00
5	10.0	10.0	9.5	0.00	0.25
6	10.0	10.0	9.0	0.25	0.25
7	9.5	10.0	9.5	0.25	0.25
8	9.5	10.0	9.5	0.25	0.50
9	9.5	10.0	9.5	0.25	0.25
10	10.0	10.0	9.5	0.00	0.25
11	0.0	9.5	9.5	0.00	0.25
12	10.0	9.5	9.0	0.00	0.25
13	10.0	9.5	9.0	0.25	0.25
14	10.0	9.5	9.0	0.00	0.00
15	10.0	9.5	9.0	0.00	0.25
16	9.0	10.0	8.5	0.25	0.25
17	9.0	10.0	8.5	0.25	0.25
18	9.0	10.0	8.5	0.00	
19	9.0	10.0	9.5	0.25	
20	9.0	10.0	9.0	0.25	
21	8.0	10.0	8.5	0.25	
22	8.0	9.5	9.0	0.25	
23	8.0	9.5	8.0	0.25	
24	8.0	9.5	8.0	0.25	
25	8.0	9.5	8.0	0.25	
AVERAGE	8.9	9.8	9.0		
MAXIMUM	10.0	10.0	9.5		
MINIMUM	0.0	9.5	8.0		

ALL

AVERAGE	ALL	9.2		AVERAGE		
MAXIMUM	ALL	10.0		MAXIMUM		
MINIMUM	ALL	8.0		MINIMUM		

Biosolids Basin Sludge to date: 5.80 Million Gallons (9.2' depth)
Max Solids Depth=9' (5.68 Million Gallons) .631 Million Gallons of sludge/ft

TOTAL 5.81 MG

CAPACITY Biosolids Basin= 5.80 Million Gallons

REMAINING Capacity in Biosolids Basin= o Million Gallons

Comments: Synagro was contracted to start pumping solids in October 2021.

TOTAL REMAINING SLUDGE CAPACITY (Zero) Million Gallons (zero feet depth')
Excluding the 3' water cap.

Annual Recycling Summary Report

Exhibit C lists disposal site locations, daily volumes, monthly totals and Annual totals. Attached to this report you will find the Annual Recycle Water Production and Use report along with a sample of the daily Irrigation Site Observation Form.

The Recycled Water Production Reports lists volumes of water for each discharge point in acre-feet, total area of application in acres and total nitrogen application rate in lb/acre-month as per the NPDES requirements.

The daily Irrigation Site Observation Form is a template of what staff uses each day that recycled water was discharged at points 003, 004, 005, and 006. During daily inspections, each site is monitored for ponding, flow rate and pipe repairs. Irrigation pipe and flood cells are moved daily keeping in mind that all set-back requirements are met. Best management practices are used to prevent run-off or ponding. If ponding is present, usually cause by pipe disconnecting, it is noted on the daily inspection form and irrigation is shut down to that location until ponding percolates into the ground.

Wells were monitored weekly along with Quarterly samples. (Exhibit H)

The Fischer Ranch is leased to a hay production company that cuts the fodder crop, bails it, and removes it from the property. In 2021 the company removed 3100 tons of hay and 1950 tons of corn from Discharge Point 003 and 004.

Recycled Water Production and Use

Recycled water quality characteristics and precipitation data shall be used to ascertain nitrogen loading rates at each recycled water use site. The following information shall be reported for each use site or use site type.

Parameter	Units	Sample Type	Frequency Sample	Frequency Reporting
Volume of Recycled Water	acre-feet	Meter	Monthly	Annually
Total Area of Application	acres	Observation	Monthly	Annually
Total Nitrogen Application Rate	lbs/acre-month	Calculation	Monthly	Annually

Recycle Water Production and Use		**MAY 2021**				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	.45	36	1.083	79.849	.300
Fischer Lower	003	.45	45	0.000	0.000	0
Pialorsi	006	.45	88	0.000	0.000	0
Hiller	005	.45	25	0.000	0.000	0.000

Recycle Water Production and Use		**JUNE 2021**				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	.25	36	1.033	5.715	.159
Fischer Lower	003	.25	45	0.000	0.000	0.000
Pialorsi	006	.25	88	0.071	0.960	0.011
Hiller	005	.25	25	0.000	0.000	0.000

Recycle Water Production and Use		**JULY 2021**				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	.24	36	0.806	4.282	0.119
Fischer Lower	003	.24	45	0.080	0.533	0.012
Pialorsi	006	.24	88	0.159	2.063	0.023
Hiller	005	.24	25	0.000	0.000	0.000

Recycle Water Production and Use		AUGUST 2021				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	.13	36	1.171	3.369	0.094
Fischer Lower	003	.13	45	0.000	0.000	0.000
Pialorsi	006	.13	88	0.083	0.587	0.007
Hiller	005	.13	25	0.000	0.000	0.000

Recycle Water Production and Use		SEPTEMBER 2021				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	0.37	36	1.038	8.497	0.236
Fischer Lower	003	0.37	45	0.000	0.000	0.000
Pialorsi	006	0.37	88	0.096	1.926	0.022
Hiller	005	0.37	25	0.000	0.000	0.000

Recycle Water Production and Use		OCTOBER 2021				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	0.39	36	1.019	8.797	0.244
Fischer Lower	003	0.39	45	0.000	0.000	0.000
Pialorsi	006	0.39	88	0.058	1.234	0.014
Hiller	005	0.39	25	0.000	0.000	0.000

Recycle Water Production and Use		December 2021				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	1.2	36	0.325	8.636	0.240
Fischer Lower	003	1.2	45	0.000	0.000	0.000
Pialorsi	006	1.2	88	0.000	0.000	0.000
Hiller	005	1.2	25	0.000	0.000	0.000

McKINLEYVILLE COMMUNITY SERVICES DISTRICT

W.W.M.F.

Daily Observations

Perk Pond and Reclamation Sites

DATE:	TIME:	INSPECTION BY:
ODORS: Strength and Type		
1. Hydrogen Sulfide	2. Septic	3. Pond-like "not objectionable
Condition of Roads and Levees:		
Maintenance work to do:		

Perk Pond Observations

Pond	Depth	Color	D.O.	Temp.	pH	CL_2 Res.
North Pond						
South Pond						

Color Guide: DG= Dark Green G= Green LG= Light Green YB=Yellow Brown P=Pink

Remarks: (i.e. seepage, fence conditions, signs, controls structures)

Irrigation Observations

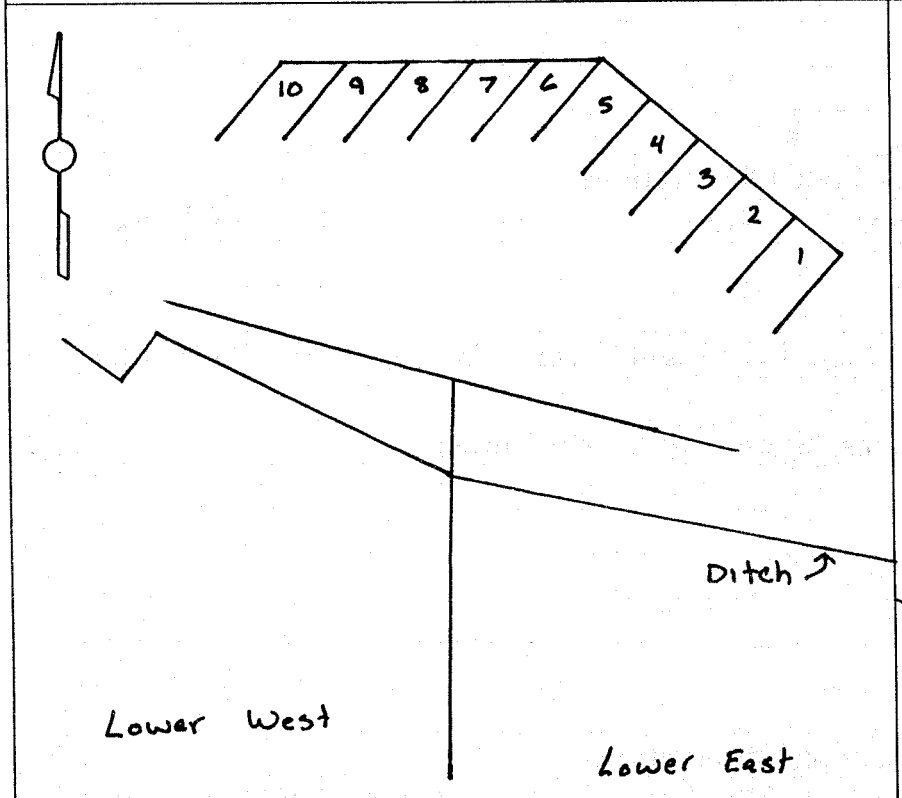
	Fischer Rd.	Hiller East	Flood Cells	Pialorsi Ranch
Irrigation Location				
CL_2 Res.				
Overspray (y/n)				
Ponding (y/n)				
Run-off (y/n)				
Location of cows				
Weather Conditions				
Wind dir. & speed				
Complaints (y/n)				
Compliance (y/n)				
Setback (y/n)				

McKINLEYVILLE C.S.D.
IRRIGATION FIELD LOCATION AND CONDITION REPORT

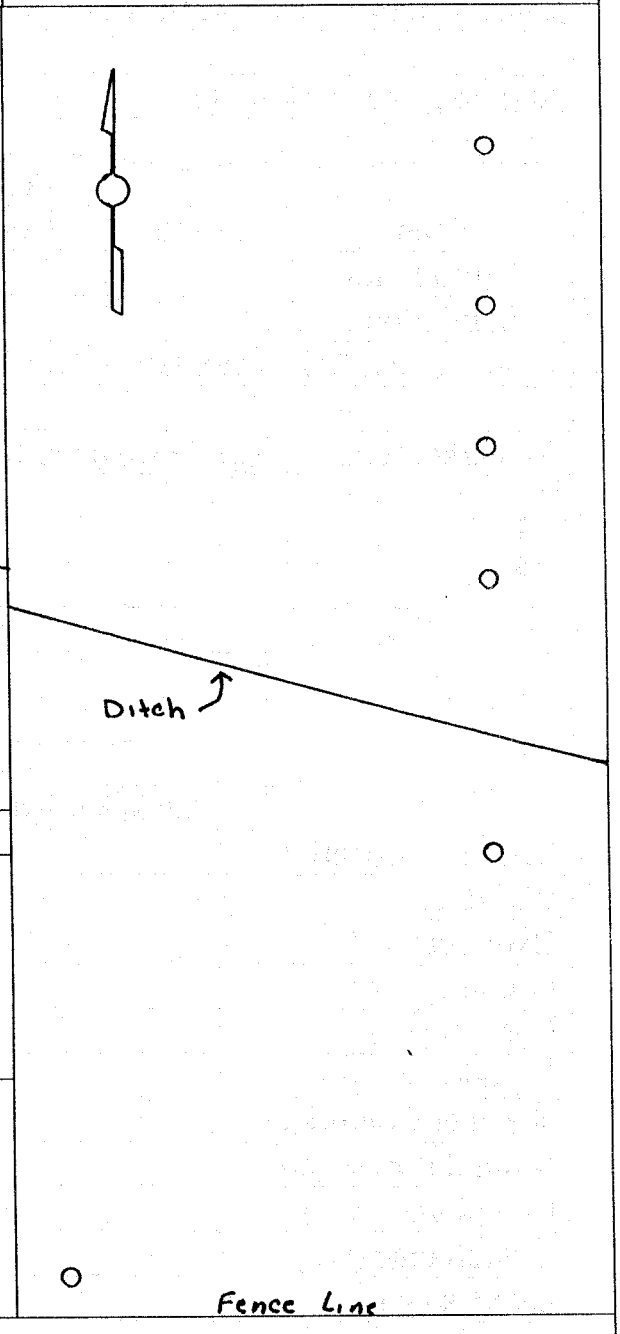
RECLAMATION SITE OBSERVATIONS AND REMARKS

IRRIGATION SITE DIAGRAMS

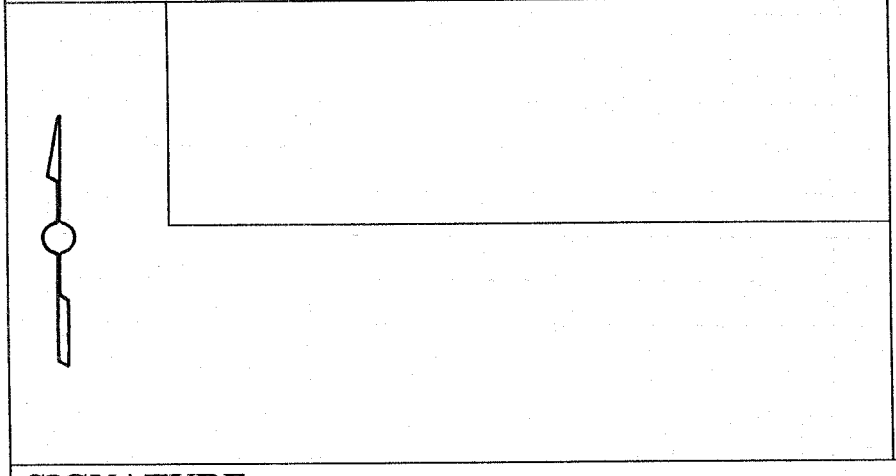
FISCHER ROAD RANCH



HILLER EAST



PIALORSI RANCH



SIGNATURE

McKinleyville Community Services District
Wastewater Management Facility
Micro/2000 Chlorine Analyzer
Calibration Log

Calibration to be conducted bi-weekly unless weekly is warranted

Date	Calibrated by	Remarks
10-21-21	CJ	INSPECTED, ADDED NEW ACETATE BUFFER SOLUTION
10.28.21	SM	INSPECTED, CALIBRATED ANALYZER
11.4.21	SM	INSPECTED ANALYZER
11.11.21	SM	INSPECTED ANALYZER
11.18.21	SM	INSPECTED, CALIBRATED ANALYZER
11.24.21	SM	INSPECTED ANALYZER
12.2.21	SM	MADE KI, ADDED NEW BUFFER SOLUTION,
12.9.21	SM	INSPECTED ANALYZER
12.22.21	SM	Replaced water pump for Cl_2 analyzer
12.30-21	KS	Topped off Acetate Buffer, Cal. w/ 0.0 mg/L & 4.0 mg/L

McKinleyville Community Services District
Wastewater Management Facility
Micro/2000 Chlorine Analyzer
Calibration Log

Calibration to be conducted bi-weekly unless weekly is warranted

Date	Calibrated by	Remarks
1-7-21	JJ	Calibrated / Inspected w/4.3mg/L New Buffer
1-14-21	JJ	Inspected made New KI
1-21-21	JJ	Calibrated / Inspected w/3.6
1-28-21	DS	INSPECTED
2.5.21	DS	CAL + INSPECTION
2-11-21	KS	Topped off KI (New) & Buffer Solutions
2-18-21	JJ	Inspected / Calibrated w/4.2 mg/L
2-25-21	JJ	Inspected
3-4-21	JJ	Inspected/calibaited w/4.1mg/L + New Buffer
3-11-21	JJ	Inspected / made New KI
3-18-21	JJ	Inspected/calibaited w/3.8mg/L
3-26-21	DS	INSPECTED
4-1-21	JJ	Inspected/calibaited w 2.9mg/L + New Buffer
4-8-21	JJ	TAKEN OFFLINE TO ORDER NEW PUMP
5-6-21	DS/SM	CAL, NEW KI, INSPECTED @ 1430
5-13-21	SM/DS	INSPECTED
5-27-21	SM	Inspected / Added buffer
6.10.21	SM	Inspected
6.24.21	SM	Inspected
7.3.21	JJ	Added buffer
7.16.21	SM/DS	Inspected / Calibrated
8.5.21	SM	Added buffer
8.12.21	SM	INSPECTED Calibrated
8.19.21	SM	INSPECTED
8-26-21	CJ	CALIBRATED, INSPECTED, MADE NEW KI SOLUTION @ 1:55pm
9.2.21	SM	Inspected, Added buffer
9.9.21	SM	Inspected,
9.16.21	SM	Inspected
9.23.21	SM	Inspected Added buffer
10-15-21	JJ	made KI

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
1-1-21	JJ	ok
1-2-21	JJ	ok
1-3-21	JJ	ok
1-4-21	JJ	ok
1-5-21	JJ	ok
1-6-21	JJ	ok
1-7-21	JJ	ok
1-8-21	JJ	ok
1-9-21	KS	OK
1-10-21	KS	OK
1-11-21	JJ	ok
1-12-21	JJ	ok
1-13-21	JJ	ok
1-14-21	JJ	ok
1-15-21	JJ	ok
1-16-21	KS	OK
1-17-21	KS	OK
1-18-21	KS	OK
1-19-21	JJ	ok
1-20-21	JJ	ok
1-21-21	DS	ok
1-22-21	JJ	ok
1-23-21	JJ	ok
1-24-21	JT	DS
1-25-21	DS	ok
1-26-21	JJ	ok
1-27-21	JJ	ok
1-28-21	DS	ok
1-29-21	DS	ok
1-30-21	CJ	ok
1-31-21	CJ	ok
2-1-21	DS	ok
2-2-21	DS	ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
2-3-21	DS	ok
2-4-21	DS	ok
2-5-21	DS	ok
2-6-21	DS	ok
2-7-21	DS	ok
2-8-21	KS	ok
2-9-21	KS	ok
2-10-21	KS	ok
2-11-21	KS	ok
2-12-21	KS	ok
2-13-21	CJ	ok
2-14-21	CJ	ok
2-15-21	CJ	ok
2-16-21	JS	ok
2-17-21	JS	ok
2-18-21	JS	ok
2-19-21	JS	ok
2-20-21	CJ	ok
2-21-21	CJ	ok
2-22-21	JS	ok
2-23-21	JS	ok
2-24-21	JS	ok
2-25-21	JS	ok
2-26-21	JS	ok
2-27-21	KS	ok
2-28-21	KS	ok
3-1-21	JS	ok
3-2-21	JS	ok
3-3-21	JS	ok
3-4-21	DS	ok
3-5-21	DS	ok
3-6-21	DS	ok
3-7-21	DS	ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
3-8-21	JS	ok
3-9-21	JS	ok
3-10-21	JS	ok
3-11-21	JS	ok
3-12-21	JS	ok
3-13-21	JS	ok
3-14-21	JS	ok
3-15-21	JS	ok
3-16-21	JS	ok
3-17-21	JS	ok
3-18-21	JS	ok
3-19-21	JS	ok
3-20-21	CJ	ok
3-21-21	CJ	ok
3-22-21	JS	ok
3-23-21	JS	ok
3-24-21	JS	ok
3-25-21	DS	ok
3-26-21	DS	ok
3-27-21	CJ	ok
3-28-21	CJ	ok
3-29-21	JS	ok
3-30-21	JS	ok
3-31-21	JS	ok
4-1-21	JS	ok
4-2-21	JS	ok
4-3-21	KS	ok
4-4-21	KS	ok
4-5-21	DS	ok
4-6-21	DS	ok
4-7-21	DS	ok
4-8-21	JS	ok
4-9-21	JS	ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
4-10-21	DS	OK
4-11-21	DS	OK
4-12-21	JS	OK
4-13-21	JS	OK
4-14-21	JS	OK
4-15-21	JS	OK
4-16-21	JS	OK
4-17-21	KS	OK
4-18-21	KS	OK
4-19-21	JS	OK
4-20-21	JS	OK
4-21-21	JS	OK
4-22-21	DS	OK
4-23-21	DS	OK
4-24-21	CJ	OK
4-25-21	CJ	OK
4-26-21	DS/SM	OK
4-27-21	DS/SM	OK
4-28-21	DS/SM	OK
4-29-21	DS/SM	OK
4-30-21	DS/SM	OK
5-3-21	SM	OK
5-4-21	SM	OK
5-5-21	SM	OK
5-6-21	SM	OK
5-7-21	SM	OK
5-8-21	CJ	OK
5-9-21	CJ	OK
5-10-21	SM	OK
5-11-21	SM	OK
5-12-21	SM	OK
5-13-21	SM	OK
5-14-21	SM	OK

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
5.15.21	SM	OK
5.16.21	SM	OK
5.17.21	SM	OK
5.18.21	SM	OK
5.19.21	SM	OK
5.20.21	SM	OK
5.21.21	SM	OK
5-22-21	JJ	OK
5-23-21	JJ	OK
5.24.21	SM	OK
5.25.21	SM	OK
5.26.21	SM	OK
5.27.21	SM	OK
5.28.21	DS	OK
5.29.21	DS	OK
5-30-21	DS	OK
5-31-21	DS	OK
6.1.21	SM	OK
6.2.21	SM	OK
6.3.21	SM	OK
6.4.21	SM	OK
6.5.21	SM	OK
6.5.21	SM	OK
6.6.21	SM	OK
6.7.21	SM	OK
6.8.21	SM	OK
6.9.21	SM	OK
6.10.21	SM	OK
6.11.21	SM	OK
6.12.21	KS	OK
6.13.21	KS	OK
6.14.21	DS	OK
6.15.21	DS	OK

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
6-16-21	DS	OK
6-17-21	DS	OK
6-18-21	DS	OK
6.19.21	SM	OK
6.20.21	SM	OK
6.21.21	KS	OK
6.22.21	SM	OK
6.23.21	SM	OK
6.24.21	SM	OK
6.25.21	SM	OK
6-26-21	CJ	OK
6-27-21	CJ	OK
6.28.21	SM	OK
6.29.21	SM	OK
6.30.21	SM	OK
7-1-21	CJ	OK
7.2.21	SM	OK
7-3-21	JJ	OK
7-4-21	JJ	OK
7-5-21	JJ	OK
7.6.21	SM	OK
7-7-21	SM	OK
7.8.21	SM	OK
7.9.21	SM	OK
7-10-21	DS	OK
7-11-21	DS	OK
7.12.21	SM	OK
7.13.21	SM	OK
7-14-21	SM	OK
7-15-21	SM	OK
7-16-21	JJ	OK
7-17-21	CJ	OK
7-18-21	CJ	OK

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
7-19-21	DS	Ok
7.20.21	SM	OK
7.21.21	SM	OK
7-22-21	KS	OK
7.23.21	SM	OK
7.24.21	KS	OK
7.25.21	KS	OK
7.26.21	SM	OK
7-27-21	DS	OK
7.28.21	SM	OK
7.29.21	SM	OK
7.30.21	SM	OK
7-31-21	JJ	ok
8-1-21	JJ	ok
8.2-21	SM	OK
8.3.21	SM	OK
8.4.21	SM	OK
8.5.21	SM	OK
8.6.21	SM	OK
8-7-21	CJ	ok
8-8-21	CJ	ok
8.9.21	SM	OK
8.10.21	SM	OK
8.11.21	SM	OK
8.12.21	SM	OK
8.13.21	SM	OK
8.14.21	SM	OK
8.15.21	SM	OK
8.16.21	SM	OK
8.17.21	SM	OK
8.18.21	SM	OK
8.19.21	SM	OK
8.20.21	SM	OK

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
8-21-21	JS	ok
8-22-21	JS	ok
8.23.21	SM	ok
8.24.21	SM	ok
8.25.21	SM	ok
8-26-21	CJ	ok
8.27.21	SM	ok
8.28.21	KS	ok
8.29.21	KS	ok
8.30.21	SM	ok
8.31.21	SM	ok
9.1.21	SM	ok
9.2.21	SM	ok
9.3.21	SM	ok
9.4.21	DS	ok
9.5.21	DS	ok
9.6.21	DS	ok
9.7.21	SM	ok
9.8.21	SM	ok
9.9.21	SM	ok
9.10.21	SM	ok
9-11-21	KS	ok
9-12-21	KS	ok
9.13.21	SM	ok
9.14.21	SM	ok
9.15.21	SM	ok
9.16.21	SM	ok
9.17.21	SM	ok
9-18-21	CJ	ok
9-19-21	CJ	ok
9.20.21	SM	ok
9.21.21	SM	ok
9.22.21	SM	ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
9.23.21	SM	OK
9.24.21	SM	OK
9-25-21	DS	OK
9.26.21	DS	OK
9.27.21	SM	OK
9.28.21	SM	OK
9.29.21	DS	OK
9.30.21	DS	OK
10-1-21	JS	OK
10-2-21	JS	OK
10-3-21	JS	OK
10.4.21	SM	OK
10.5.21	SM	OK
10.6.21	SM	OK
10.7.21	SM	OK
10.8.21	SM	OK
10-9-21	KS	OK
10.10.21	KS	OK
10.11.21	KS	OK
10.12.21	SM	OK
10-13-21	DS	OK
10.14.21	SM	OK
10.15.21	SM	OK
10-16-21	CJ	OK
10-17-21	CJ	OK
10.18.21	SM	OK
10.19.21	SM	OK
10-20-21	CJ	OK
10-21-21	CJ	OK
10.22.21	SM	OK
10.23.21	SM	OK
10.24.21	SM	OK
10-25-21	JS	OK

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
10.26.21	SM	OK
10-27-21	KS	OK
10.28.21	SM	OK
10.29.21	SM	OK
10-31-21	KS	OK
11.1.21	SM	OK
11.2.21	SM	OK
11.3.21	SM	OK
11.4.21	SM	OK
11.5.21	SM	OK
11-6-21	CJ	OK
11-7-21	CJ	OK
11.8.21	SM	OK
11.9.21	SM	OK
11.10.21	SM	OK
11-11-21	CJ	OK
11.12.21	SM	OK
11-13-21	JS	OK
11-14-21	JS	OK
11.15.21	SM	OK
11.16.21	SM	OK
11.17.21	SM	OK
11.18.21	SM	OK
11.19.21	SM	OK
11.20.21	DS	OK
11.21.21	DS	OK
11.22.21	SM	OK
11.23.21	SM	OK
11-24-21	DS	OK
11.25.21	DS	OK
11.26.21	KS	OK
11.27.21	KS	OK
11-28-21	KS	OK

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
11.29.21	SM	ok
11-30-21	DS	ok
12.1-21	SM	ok
12.2.21	SM	ok
12.3.21	SM	ok
12.4.21	SM	ok
12.5.21	SM	ok
12.6.21	SM	ok
12.7.21	SM	ok
12.8.21	DS	ok
12.9.21	SM	ok
12.10.21	SM	ok
12.11.21	DS	ok
12.12.21	DS	ok
12.13.21	SM	ok
12.14.21	SM	ok
12.15.21	SM	ok
12.16.21	SM	ok
12.17.21	SM	ok
12-18-21	CJ	ok
12-19-21	CJ	ok
12.20.21	SM	ok
12.21.21	SM	ok
12.22.22	SM	ok
12.23.21	CJ	ok
12.24.21	CJ	ok
12.25.21	CJ	ok
12.26.21	CJ	ok
12.27.21	KS	ok
12.28.21	KS	ok
12.29.21	KS	ok
12.30.21	KS	ok
12.31.21	KS	ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log

Calibration to be conducted daily

Date	Calibrated by	Remarks

McKinleyville Community Services District
Wastewater Management Facility
Hach Pocket Pro LR Cond Tester
Conductivity Calibration Log

Calibrate before each use

Date	Calibrated by	Remarks
1-4-21	DS	ok @ 147 µS/L
2-1-21	DS	OK
3-1-21	DS	OK
4.5.21	DS	OK
5-3-21	DS	OK
6.1-21	DS	OK
7.6-21	DS	OK
8-2-21	DS	OK
9-1-21	DS	OK
10.4.21	DS	OK
11-1-21	DS	OK
12-1-21	DS	OK

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
1-1-21	JJ	58.2	ok
1-2-21	JJ	58.4	ok
1-3-21	JJ	58.3	ok
1-4-21	JJ	58.0	ok
1-5-21	JJ	58.1	ok
1-6-21	JJ	58.1	ok
1-7-21	JJ	58.1	ok
1-8-21	JJ	58.0	ok
1-9-21	KS	57.8	OK
1-10-21	KS	57.8	OK
1-11-21	JJ	57.8	ok
1-12-21	JJ	57.4	ok
1-13-21	JJ	57.4	ok
1-14-21	JJ	57.5	ok
1-15-21	JJ	57.5	ok
1-16-21	KS	57.4	OK
1-17-21	KS	59.4	OK changed DI Buffers
1-18-21	KS	59.4	OK
1-19-21	JJ	59.6	ok
1-20-21	JJ	59.4	OK
1-21-21	DS	59.0	OK
1-22-21	JJ	58.8	ok
1-23-21	JJ	59.2	ok
1-24-21	JT	59.3	ok
1-25-21	DS	59.2	OK
1-26-21	JJ	58.9	ok
1-27-21	JJ	59.0	ok
1-28-21	DS	58.8	OK
1-29-21	DS	58.7	OK- CHANGE BUFFERS, STORAGE OK, CLEAN PROBE
1-30-21	CJ	59.2	OK
1-31-21	CJ	59.2	OK
2-1-21	DS	59.4	OK

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
2-2-21	DS	59.4	ok
2-3-21	DS	59.2	ok
2-4-21	DS	58.8	ok
2-5-21	DS	59.2	ok
2-6-21	DS	59.1	ok
2-7-21	DS	59.1	ok
2-8-21	KS	59.1	ok
2-9-21	KS	58.7	ok
2-10-21	KS	58.5	ok
2-11-21	KS	58.6	ok
2-12-21	KS	58.5	ok
2-13-21	CJ	58.1	ok
2-14-21	CJ	58.1	ok
2-15-21	CJ	58.3	ok
2-16-21	JS	58.0	ok
2-17-21	JS	58.6	ok
2-18-21	JS	58.5	ok
2-19-21	JS	58.5	ok
2-20-21	CJ	58.2	ok
2-21-21	CJ	57.8	ok
2-22-21	JS	58.3	ok
2-23-21	JS	58.3	ok
2-24-21	JS	58.3	ok
2-25-21	JS	58.3	ok
2-26-21	JS	58.2	ok
2-27-21	KS	58.1	ok
2-28-21	KS	59.2	Cleaned Probe or Changed Buffers
3-1-21	JS	59.3	ok
3-2-21	JS	59.2	ok
3-3-21	JS	59.1	ok
3-4-21	DS	59.0	ok
3-5-21	DS	58.9	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
3-6-21	DS	58.8	OK
3-7-21	DS	58.6	ok
3-8-21	JJ	58.7	ok
3-9-21	JJ	58.6	ok
3-10-21	JJ	58.6	ok
3-11-21	JJ	58.4	ok
3-12-21	JJ	58.4	ok
3-13-21	JJ	58.3	ok
3-14-21	JJ	58.3	ok
3-15-21	JJ	58.3	ok
3-16-21	JJ	58.3	ok Changed pH Buffer/Storage Solution
3-17-21	JJ	59.0	ok
3-18-21	JJ	59.0	ok
3-19-21	JJ	58.9	ok
3-20-21	CJ	58.6	ok
3-21-21	CJ	58.6	ok
3-22-21	JJ	58.8	ok
3-23-21	JJ	58.7	ok
3-24-21	JJ	58.7	ok
3-25-21	DS	58.5	OK
3-26-21	DS	58.6	ok
3-27-21	CJ	58.4	ok
3-28-21	CJ	58.5	ok
3-29-21	JJ	58.5	ok
3-30-21	JJ	58.6	ok
3-31-21	JJ	58.4	ok
4-1-21	JJ	58.1	ok
4-2-21	JJ	58.2	ok
4-3-21	KS	58.1	OK
4-4-21	KS	58.0	OK
4-5-21	RS	58.0	OK
4-6-21	DS	57.9	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
4-7-21	DS	57.9	ok
4-8-21	JS	57.7	OK
4-9-21	JS	57.8	OK
4-10-21	DS	57.5	OK
4-11-21	DS	57.1	ok
4-12-21	JS	57.5	OK
4-13-21	JS	57.4	OK
4-14-21	JS	57.4	OK Changed pH /Buffer / storge solution
4-15-21	JS	58.8	OK
4-16-21	JS	58.7	OK
4-17-21	KS	58.6	OK
4-18-21	KS	58.6	OK
4-19-21	JS	58.7	OK
4-20-21	JS	58.6	OK
4-21-21	JS	58.5	OK
4-22-21	DS	58.6	OK
4-23-21	DS	58.4	OK
4-24-21	CJ	58.2	OK
4-25-21	CJ	58.2	OK
4-26-21	DS	58.3	OK
4-27-21	SM	58.2	OK
4-28-21	SM	58.0	OK
4-29-21	SM	57.9	OK
4-30-21	SM	57.9	OK
5-3-21	SM	57.8	OK
5-4-21	SM	57.8	OK
5-5-21	SM	58.0	OK
5-6-21	SM	58.1	OK
5-7-21	SM	58.3	OK
5-8-21	CJ	58.3	OK
5-9-21	CJ	58.2	OK
5-10-21	SM	57.8	OK

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
5-11-21	SM	58.4	ok
5.12.21	SM	57.8	ok
5.13.21	SM	58.2	ok
5.14-21	SM	57.2	Ok
5.15-21	SM	58.0	ok
5.16.21	SM	57.6	ok
5.17.21	SM	57.8	ok
5.18.21	SM	58.0	ok
5.19.21	SM	57.1	ok
5.20.21	SM	57.2	ok
5.21.21	SM	57.3	ok
5-22-21	JJ	57.9	ok
5-23-21	JJ	57.9	ok
5.24.21	SM	56.9	ok
5.25.21	SM	57.4	Ok
5.26.21	JM	57.1	ok
5.27.21	SM	57.7	OK
5-28-21	DS	57.8	Ok
5-29-21	DS	57.4	Ok
5-30-21	DS	57.4	OK
5-31-21	DS	57.2	Ok
6.1.21	SM	57.3	OK
6.2.21	SM	56.5	OK
6.3.21	SM	57.9	OK
6.4.21	SM	57.6	OK
6.5.21	SM	58.2	OK
6.6.21	SM	58.2	OK
6.7.21	SM	57.8	OK
6.8.21	SM	58.0	OK
6.9.21	SM	57.9	OK
6.10.21	SM	57.9	OK
6.11.21	SM	57.7	OK

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
6-12-21	KS	57.7	OK
6-13-21	KS	57.6	OK
6.14.21	DS	57.6	ok
6.15.21	DS	57.7	OK
6-16-21	DS	57.6	OK
6-17-21	DS	57.5	OK
6 18-21	DS	57.6	OK
6.19.21	SM	57.1	OK
6.20.21	SM	56.6	OK
6-21-21	KS	57.4	OK
6.22.21	SM	57.5	OK
6.23.21	SM	57.4	OK
6.24.21	SM	57.2	OK
6.25.21	SM	57.0	OK
6.26.21	CJ	56.9	OK
6-27-21	CJ	56.9	OK
6.28.21	SM	57.3	OK
6.29.21	SM	57.1	OK
6.30.21	SM	57.1	OK
7-1-21	CJ	56.8	ok
7.2.21	SM	56.9	OK
7-3-21	JJ	56.9	OK
7-4-21	JS	56.8	OK
7-5-21	JS	56.8	OK
7.6.21	SM	56.9	OK
7.7.21	SM	56.8	OK
7.8.21	SM	56.8	OK
7.9.21	SM	56.7	OK
7-10-21	DS	56.7	OK CHANGED BUFFERS
7-11-21	DS	57.7	OK
7.12.21	SM	56.8	OK
7.13.21	SM	57.7	OK

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
7.14.21	SM	57.7	ok
7.15.21	SM	57.6	ok
7-16-21	JS	57.6	ok
7-17-21	CJ	57.3	ok
7-18-21	CJ	57.0	ok
7.19-21	DS	57.5	ok
7.20.21	SM	57.4	ok
7.21	SM	57.2	ok
7.22	KS	57.2	ok
7.23.21	SM	56.9	ok
7-24-21	KS	57.1	ok
7.25.21	KS	57.1	ok
7.26.21	SM	56.9	ok
7.27-21	DS	57.2	ok
7.28.21	SM	56.8	ok
7.29.21	SM	57.0	ok
7.30.21	SM	56.7	ok
7-31-21	JS	56.0	ok
8-1-21	JS	56.0	ok
8.2.21	SM	56.5	ok
8.3.21	SM	56.9	ok
8.4-21	SM	56.4	ok
8.5.21	SM	56.4	ok
8.6.21	SM	56.4	ok
8-7-21	CJ	56.1	ok
8-8-21	CJ	56.1	ok
8.9.21	SM	56.3	ok
8.10.21	SM	56.3	ok
8.11.21	SM	56.2	ok
8.12.21	SM	56.4	ok
8.13.21	SM	56.4	ok
8.14.21	SM	56.2	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
8.15.21	SM	56.2	ok
8.16.21	SM	56.2	ok
8.17.21	SM	56.2	OK
8.18.21	SM	56.3	ok
8.19.21	SM	56.3	ok
8.19.21	SM	56.2	ok
8-21-21	JJ	57.5	ok changed Buffers
8-22-21	JJ	57.6	ok
8.23.21	SM	57.7	ok
8.24.21	SM	57.1	ok
8.25-21	SM	57.2	ok
8-26-21	CJ	57.0	Ok
8.27.21	SM	57.5	ok
8-28-21	KS	57.3	Ok
8-29-21	KS	57.4	Ok
8.30.21	SM	57.3	ok
8.31-21	SM	57.5	ok
9.1.21	SM	57.3	ok
9.2.21	SM	57.2	ok
9.3.21	SM	57.0	ok
9-4-21	DS	57.2	ok
9.5-21	DS	57.4	OK
9-6-21	DS	56.6	ok
9.7.21	SM	56.9	ok
9.8.21	SM	56.9	ok
9.9.21	SM	56.9	ok
9.10.21	SM	56.9	ok
9-11-21	KS	56.9	Ok
9-12-21	KS	56.8	Ok
9.13.21	SM	56.8	ok
9.14.21	SM	56.8	ok
9.15.21	SM	56.4	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
9.16.21	SM	56.3	OK
9.17.21	SM	56.2	OK
9-18-21	CJ	56.3	OK
9-19-21	CJ	56.2	OK
9.20.21	SM	56.6	OK
9.21.21	SM	56.4	OK
9.22.21	SM	56.4	OK
9.23.21	SM	57.0	OK
9.24.21	SM	57.3	OK
9.25.21	DS	57.5	OK
9.26.21	DS	57.4	OK
9.27.21	SM	57.3	OK
9.28.21	SM	57.3	OK
9.29.21	DS	57.6	OK
9-30.21	DS	57.4	OK
10.1-21	JS	57.1	OK
10-2-21	JS	57.4	OK
10-3-21	JS	57.4	OK
10.4.21	SM	57.3	OK
10.5.21	SM	57.3	OK
10.6.21	SM	57.3	OK
10.7.21	SM	57.3	OK
10.8.21	SM	57.0	OK
10-9-21	KS	57.0	OK
10.10.21	KS	57.1	OK
10.11.21	KS	57.0	OK
10.12.21	SM	57.3	OK
10-13-21	DS	57.1	OK
10.14.21	SM	57.0	OK
10.15.21	SM	57.1	OK
10-16-21	CJ	56.4	OK
10-17-21	CJ	56.3	OK

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
10.18.21	SM	57.0	ok
10.19.21	SM	56.5	ok
10-20-21	CJ	56.8	OK
10-21-21	CJ	56.0	OK
10.22.22	SM	56.4	ok
10.23.21	SM	56.4	ok
10.24.21	SM	56.7	ok
10-25-21	JJ	56.7	OK
10.26.21	SM	56.3	ok
10.27.21	KS	56.2	OK
10.28.21	SM	56.3	ok
10.29.21	SM	56.2	ok
10.30.21	KS	57.1	Changed Buffers OK Cleaned Probe overnight
10.31.21	KS	57.4	OK
11.1.21	SM	57.4	ok
11.2.21	SM	57.4	ok
11.3.21	SM	57.3	ok
11.4.21	SM	56.9	ok
11.5.21	SM	57.0	ok
11-6-21	CJ	56.7	OK
11-7-21	CJ	56.8	OK
11.8.21	SM	57.3	ok
11.9.21	SM	57.1	ok
11.10.21	SM	57.1	ok
11-11-21	CJ	57.1	OK
11.12.21	SM	57.1	OK
11-13-21	JJ	56.7	OK
11-14-21	JJ	56.7	OK
11.15.21	SM	56.9	ok
11.16.21	SM	56.7	ok
11.17.21	SM	56.8	ok
11.18.21	SM	56.4	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
11.19.21	SM	56.4	OK
11-20-21	DS	57.4	OK
11-21-21	DS	56.7	OK
11.22.21	SM	56.6	OK
11.23.21	SM	56.4	OK
11-24-21	DS	57.9	OK
11.25.21	DS	58.1	OK
11.26.21	KS	57.9	OK
11.27.21	KS	56.5	OK
11.28.21	KS	57.5	OK
11.29.21	SM	56.7	OK
11.30.21	DS	57.7	OK
12.1.21	SM	57.4	OK
12.2.21	SM	57.4	OK
12.3.21	SM	57.5	OK
12.4.21	SM	57.4	OK
12.5.21	SM	57.4	OK
12.6.21	SM	57.4	OK
12.7.21	SM	57.4	OK
12-8-21	DS	57.2	OK
12.9.21	SM	57.3	OK
12.10.21	SM	57.5	OK
12-11-21	DS	57.3	OK
12-12-21	DS	57.2	OK
12.13.21	SM	57.2	OK
12.14.21	SM	57.2	OK
12.15.21	SM	57.2	OK
12.16.21	SM	57.2	OK
12.17.21	SM	57.1	OK
12-18-21	CJ	56.5	OK
12-19-21	CJ	56.7	OK
12.20.21	SM	56.8	OK

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
12.21.21	SM	56.8	ok
12.22.21	SM	56.8	ok
12-23-21	CJ	56.4	OK
12.24.21	CJ	56.6	ok
12.25.21	CJ	56.4	ok
12.26.21	CJ	56.6	ok
12.27.21	KS	56.7	Ok
12-28-21	KS	56.6	OK
12.29.21	KS	56.6	Ok
12.30.21	KS	56.6	OK
12.31.21	KS	56.6	

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
1-1-21	JS	4°	ok
1-2-21	JS	4°	ok
1-3-21	JS	4°	ok
1-4-21	JS	4°	ok
1-5-21	JS	4°	ok
1-6-21	JS	4°	ok
1-7-21	JS	4°	ok
1-8-21	JS	4°	ok
1-9-21	KS	4°	ok
1-10-21	KS	4°	ok
1-11-21	JS	4°	ok
1-12-21	JS	4°	ok
1-13-21	JS	4°	ok
1-14-21	JS	4°	ok
1-15-21	JS	4°	ok
1-16-21	KS	4°	ok
1-17-21	KS	4°	ok
1-18-21	KS	4°	ok
1-19-21	JS	4°	ok
1-20-21	JS	4°	ok
1-21-21	DS	4°	ok
1-22-21	JS	4°	ok
1-23-21	JS	4°	ok
1-24-21	JS	4°	ok
1-25-21	DS	4°	ok
1-26-21	JS	4°	ok
1-27-21	JS	4°	ok
1-28-21	DS	4°	ok
1-29-21	DS	4°	ok
1-30-21	CJ	3°	ok
1-31-21	CJ	3°	ok
2-1-21	DS	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
2-2-21	DS	4°	ok
2-3-21	DS	4°	ok
2-4-21	DS	4°	ok
2-5-21	DS	4°	ok
2-6-21	DS	4°	ok
2-7-21	DS	4°	ok
2-8-21	KS	4°	ok
2-9-21	KS	4°	ok
2-10-21	KS	4°	ok
2-11-21	KS	4°	ok
2-12-21	KS	4°	ok
2-13-21	CJ	5°	ok
2-14-21	CJ	4°	ok
2-15-21	CJ	4°	ok
2-16-21	JS	4°	ok
2-17-21	JS	4°	ok
2-18-21	JS	4°	ok
2-19-21	JS	4°	ok
2-20-21	CJ	4°	ok
2-21-21	CJ	4°	ok
2-22-21	JS	4°	ok
2-23-21	JS	4°	ok
2-24-21	JS	4°	ok
2-25-21	JS	4°	ok
2-26-21	JS	4°	ok
2-27-21	KS	4°	ok
2-28-21	KS	3°	ok
3-1-21	JS	4°	ok
3-2-21	JS	4°	ok
3-3-21	JS	4°	ok
3-4-21	DS	4°	ok
3-5-21	DS	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
3-6-21	DS	4°	ok
3-7-21	DS	4°	ok
3-8-21	JS	4°	ok
3-9-21	JS	4°	ok
3-10-21	JS	4°	ok
3-11-21	JS	4°	ok
3-12-21	JS	4°	ok
3-13-21	JS	4°	ok
3-14-21	JS	4°	ok
3-15-21	JS	4°	ok
3-16-21	JS	3°	ok
3-17-21	JS	3°	ok
3-18-21	JS	4°	ok
3-19-21	JS	4°	ok
3-20-21	CJ	4°	ok
3-21-21	CJ	4°	ok
3-22-21	JS	4°	ok
3-23-21	JS	4°	ok
3-24-21	JS	4°	ok
3-25-21	DS	4°	ok
3-26-21	DS	4°	ok
3-27-21	CJ	4°	ok
3-28-21	CJ	4°	ok
3-29-21	JS	4°	ok
3-30-21	JS	4°	ok
3-31-21	JS	4°	ok
4-1-21	JS	4°	ok
4-2-21	JS	4°	ok
4-3-21	KS	4°	ok
4-4-21	KS	4°	ok
4-5-21	DS	4°	ok
4-6-21	DS	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
4-7-21	DS	4°	ok
4-8-21	JJ	4°	OK
4-9-21	JJ	4°	OK
4-10-21	DS	4°	ok
4-11-21	DS	4°	ok
4-12-21	JJ	4°	OK
4-13-21	JJ	4°	OK Defrosted
4-14-21	JJ	4°	OK
4-15-21	JJ	4°	OK
4-16-21	JJ	4°	OK
4-17-21	KS	4°	OK
4-18-21	KS	4°	OK
4-19-21	JJ	4°	OK
4-20-21	JJ	4°	OK
4-21-21	JJ	4°	OK
4-22-21	DS	4°	OK
4-23-21	DS	4°	OK
4-24-21	CJ	4°	OK
4-25-21	CJ	4°	OK
4-26-21	DS	4°	OK
4-27-21	SM	4°	OK
4-28-21	SM	4°	OK
4-29-21	SM	4°	OK
4-30-21	SM	4°	OK
5-3-21	SM	4°	OK
5-4-21	SM	4°	OK
5-5-21	SM	4°	ok
5-6-21	SM	4°	OK
5-7-21	SM	4°	OK
5-8-21	CJ	4°	OK
5-9-21	CJ	4°	OK
5-10-21	DS	4°	OK

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
5.11.21	SM	4°	Cold
5.12.21	SM	4°	OK
5.13.21	SM	4°	OK
5.14.21	SM	4°	OK
5.15.21	SM	4°	OK
5-16-21	SM	4°	OK
5.17.21	SM	4°	OK
5.18.21	SM	4°	OK
5.19-21	SM	4°	OK
5.20.21	SM	4°	OK
5.21.21	SM	4°	OK
5-22-21	JS	4°	OK
5-23-21	JS	4°	OK
5.24.21	SM	4°	OK
5.25.21	SM	4°	OK
5.26.21	SM	4°	OK
5.27.21	SM	4°	OK
5-28-21	DS	4°	OK
5-29-21	DS	4°	OK
5-30-21	DS	4°	OK
5-31-21	DS	4°	OK
6.1.21	SM	4°	OK
6.2.21	SM	4°	OK
6.3.21	SM	4°	OK
6.4.21	SM	4°	OK
6.5.21	SM	4°	OK
6.5.21	SM	4°	OK
6.6.21	SM	4°	OK
6.7.21	SM	4°	OK
6.8.21	SM	4°	OK
6.9.21	SM	4°	OK
6.10.21	SM	4°	OK

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
6-11-21	SM	4°	OK
6-12-21	KS	5°	OK Adjusted down.
6-13-21	KS	4°	OK
6-14-21	DS	4°	ok
6-15-21	DS	4°	ok
6-16-21	DS	4°	ok
6-17-21	DS	4°	ok
6-18-21	DS	4°	ok
6-19-21	SM	4°	OK
6-20-21	SM	4°	OK
6-21-21	KS	4°	OK
6-22-21	SM	4°	OK
6-23-21	SM	4°	OK
6-24-21	SM	4°	OK
6-25-21	SM	4°	OK
6-26-21	CJ	4°	ok
6-27-21	CJ	4°	ok
6-28-21	SM	4°	OK
6-29-21	SM	4°	OK
6-30-21	SM	4°	OK
7-1-21	CJ	4°	ok
7-2-21	SM	4°	OK
7-3-21	JS	4°	ok
7-4-21	JS	4°	ok
7-5-21	JS	4°	ok
7-6-21	SM	4°	OK
7-7-21	SM	4°	ok
7-8-21	SM	4°	OK
7-9-21	SM	4°	ok
7-10-21	DS	4°	ok
7-11-21	DS	4°	ok
7-12-21	SM	4°	OK

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
7.13.21	SM	4°	OK
7.14.21	SM	4°	OK
7.15.21	SM	4°	OK
7-16-21	JS	4°	OK
7-17-21	CJ	4°	ok
7-18-21	CJ	5°	OK
7-19-21	DS	4°	OK
7.20.21	SM	4°	ok
7-21-21	SM	4°	OK
7-22-21	KS	4°	OK
7-23-21	SM	4°	OK
7-24-21	KS	4°	OK
7-25-21	KS	5°	OK Adjusted down
7.26.21	SM	4°	OK
7.27.21	DS	4°	OK
7.28.21	SM	4°	OK
7.29.21	SM	4°	OK
7.30.21	SM	4°	OK
7-31-21	JS	4°	ok
8-1-21	JS	4°	OK
8.2.21	SM	4°	OK
8.3.21	SM	4°	OK
8.4.21	SM	4°	OK
8.5.21	SM	4°	OK
8.6.21	SM	4°	OK
8-7-21	CJ	5°	OK
8-8-21	CJ	5°	OK
8.9.21	SM	4°	OK
8.10.21	SM	4°	OK
8.11.21	SM	4°	OK
8.12.21	SM	4°	OK
8.13.21	SM	4°	OK

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
8.14.21	SM	4°	OK
8.15.21	SM	4°	ok
8.16.21	SM	4°	ok
8.17.21	SM	4°	ok
8.18.21	SM	4°	ok
8.19.21	SM	4°	ok
8.20.21	SM	4°	ok
8-21-21	JS	4°	ok
8-22-21	JS	4°	ok
8.23.21	SM	4°	ok
8.24-21	SM	4°	ok
8.25.21	SM	4°	ok
8-26-21	CJ	4°	OK
8.27.21	SM	4°	ok
8.28.21	KS	4°	ok
8.29.21	KS	4°	OK
8.30.21	SM	4°	ok
8.31.21	SM	4°	ok
9.1.21	SM	4°	ok
9.2.21	SM	4°	ok
9.3.21	SM	4°	ok
9.4.21	DS	4°	ok
9.5.21	DS	4°	ok
9.6.21	DS	4°	ok
9.7.21	SM	4°	ok
9.8.21	SM	4°	ok
9.9.21	SM	4°	ok
9.10.21	SM	4°	ok
9.11.21	KS	4°	ok
9.12.21	KS	4°	OK
9.13.21	SM	4°	ok
9.14.21	SM	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
9.15.21	SM	4°	ok
9.16.21	SM	4°	ok
9.17.21	SM	4°	ok
9-18-21	CJ	4°	ok
9-19-21	CJ	4°	ok
9.20.21	SM	4°	ok
9.21.21	SM	4°	ok
9.22.21	SM	4°	ok
9.23.21	SM	4°	ok
9.24.21	SM	4°	ok
9.25.21	DS	4°	ok
9.26.21	DS	4°	ok
9.27.21	SM	4°	ok
9.28.21	SM	4°	ok
9.29.21	DS	4°	ok
9.30.21	DS	4°	ok
10-1-21	JS	4°	ok
10-2-21	JS	4°	ok
10-3-21	JS	4°	ok
10.4.21	SM	4°	ok
10.5.21	SM	4°	ok
10.6.21	SM	4°	ok
10.7.21	SM	4°	ok
10.8.21	SM	4°	ok
10-9-21	KB	4°	ok
10.10.21	KB	4°	ok
10.11.21	KB	4°	ok
10.12.21	SM	4°	ok
10.13.21	DS	4°	ok
10.14.21	SM	4°	ok
10.15.21	SM	4°	ok
10-16-21	CJ	3°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
10-17-21	CJ	3°	OK
10.18.21	SM	4°	OK
10.19.21	SM	4°	OK
10-20-21	CJ	3°	OK
10-21-21	CJ	3°	OK
10.22.21	SM	4°	OK
10.23.21	SM	4°	OK
10.24.21	SM	4°	OK
10-25-21	JJ	4°	OK
10.26.21	SM	4°	OK
10.27.21	KS	4°	OK
10.28.21	SM	4°	OK
10.29.21	SM	4°	OK
10.30.21	KS	4°	OK
10.31.21	KS	4°	OK
11.1.21	SM	4°	OK
11.2.21	SM	4°	OK
11.3.21	SM	4°	OK
11.4.21	SM	4°	OK
11.5.21	SM	4°	OK
11-6-21	CJ	3°	OK
11-7-21	CJ	3°	OK
11.8.21	SM	4°	OK
11.9.21	SM	4°	OK
11.10.21	SM	4°	OK
11-11-21	CJ	3°	OK
11.12.21	SM	4°	OK
11-13-21	JJ	4°	OK
11-14-21	JJ	4°	OK
11.15.21	SM	4°	OK
11.16.21	SM	4°	OK
11.17.21	SM	4°	OK

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
11.18.21	SM	4°	OK
11.19.21	SM	4°	OK
11.20.21	DS	4°	Ok
11.21.21	DS	4°	Ok
11.22.21	SM	4°	OK
11.23.21	SM	4°	OK
11.24.21	DS	4°	Ok
11.25.21	DS	4°	Ok
11.26.21	KS	4°	OK
11.27.21	KS	4°	OK
11.28.21	KS	4°	OK
11.29.21	SM	4°	OK
11.30.21	DS	4°	OK
12.1.21	SM	4°	OK
12.2.21	SM	4°	OK
12.3.21	SM	4°	OK
12.4.21	SM	4°	OK
12.5.21	SM	4°	OK
12.6.21	SM	4°	OK
12.7.21	SM	4°	OK
12.8.21	DS	4°	Ok
12.9.21	SM	4°	OK
12.10.21	SM	4°	OK
12.11.21	DS	4°	Ok
12.12.21	DS	4°	Ok
12.13.21	SM	4°	OK
12.14.21	SM	4°	OK
12.15.21	SM	4°	OK
12.16.21	SM	4°	OK
12.17.21	SM	3°	OK
12-18-21	CJ	3°	OK
12-19-21	CJ	3°	OK

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
12.20.21	SM	3°	ok
12.21.21	SM	3°	ok
12.22.22	SM	3°	ok
12.23.21	CJ	3°	ok
12.24.21	CJ	3°	ok
12.25.21	CJ	3°	ok
12.26.21	CJ	3°	ok
12.27.21	KS	2°	ok Adjusted up
12.28.21	KS	4°	ok
12.29.21	KS	3°	ok
12.30.21	KS	3°	ok
12.31.21	KS	4°	ok

2021 Industrial Discharge Activities

Summary of Compliance

In order to ensure compliance with our NPDES requirement to survey all Industrial Users, the District performed a survey of all non-residential users in 2019. During the District-wide on-site survey process, staff interviewed representatives of each facility concerning their use of the sanitary sewer system. Staff checked for floor drains and other potential sources of accidental discharge to the collection system, as well as chemical use and storage. Industrial users were inspected for processes or procedures that may potentially have an impact on the collection / treatment system and considered for Industrial Discharge Permits. Additionally, any user operating as a food service or other potential fat, oils and grease (FOG) generator was inspected for processes or procedures that could impact the District's collection / treatment system.

MCSD has instituted a requirement that all non-residential customers that sign up for service, whether a new customer or a change of ownership / responsible person, fill out a survey describing discharge quantity, type, and any processes and/or chemicals used in their enterprise. These surveys are reviewed and based upon information provided, inspections of the facilities are conducted.

All industrial users that were determined to require a permit were evaluated for potential for significant impact on the system. These permitted sites were inspected for compliance with individual permits.

Public outreach concerning proper sewer use was achieved through the District's survey for our non-residential user survey as well as an article that was published in the quarterly newsletter and on our website. Public outreach continues throughout the year using the District's Facebook page to post information to the customers.

General Prohibitions and Standards

Below are excerpts from our Rules and Regs. Currently this is the Districts Local Limits until review of the 2020 Local Limits is completed by the State Water Board. Once review is completed, the District will adopt new Local Limits.

Rule 24.09.01 (pg 66-67) spells out our current Local Limits

Rule 24.09.01. - the General Manager is authorized to establish Local Limits pursuant to 40 CFR 403.5(c). The following pollutant limits are established to protect against Pass Through and Interference. No person shall discharge wastewater containing in excess of the following concentrations:

POLLUTANT	DAILY MAXIMUM LIMIT (mg/L)
Copper	0.1300
Lead	0.0055
Molybdenum	0.0047
Nickel	0.0052
Zinc	0.135
bis(2-ethylhexyl) phthalate	0.0235
Oil and Grease (petroleum and vegetable)	100
BOD	354

(a) The above limits apply at the point where the wastewater is discharged to the POTW and apply to instantaneous maximum concentrations. All concentrations for metallic substances are for total metal unless indicated otherwise. The General Manager may impose mass limitations in addition to the concentration-based limitations above.

(b) **Analytical Requirements.** All pollutant analyses, including sampling techniques, to be submitted as part of a wastewater discharge permit application or report shall be performed in accordance with the techniques prescribed in 40 CFR Part 136 and amendments thereto, unless otherwise specified in an applicable categorical Pretreatment Standard. If 40 CFR Part 136 does not contain sampling or analytical techniques for the pollutant in question, or where the EPA determines that the Part 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analyses shall be performed by using validated analytical methods or any other applicable sampling and analytical procedures, including procedures suggested by the General Manager or other parties approved by EPA.

(c) **BMPs.** The General Manager may develop Best Management Practices (BMPs), by ordinance or in individual wastewater discharge permits, or general permits, to implement Local Limits and the requirements of Rule 24.

(d) **Right of Revision.** The MCSD reserves the right to establish, by ordinance or in individual wastewater discharge permits or in general permits, more stringent Standards or Requirements on discharges to the POTW consistent with the purpose of this ordinance.

(e) **Dilution.** No User shall ever increase the use of process water, or in any way attempt to dilute a discharge, as a partial or complete substitute for adequate treatment to achieve compliance with a discharge limitation unless expressly authorized by an applicable Pretreatment Standard or Requirement. The General Manager may impose mass limitations on Users who are using dilution to meet applicable Pretreatment Standards or Requirements or in other cases when the imposition of mass limitations is appropriate.

Rule 24.01 (pg 63-64) contains a list of prohibitions

Rule 24.01. PROHIBITIONS ON DISCHARGES - no User shall introduce or cause to be introduced into the POTW any pollutant or wastewater which causes Pass Through or Interference. This general prohibition applies to all Users of the POTW whether or not they are subject to categorical Pretreatment Standards or any other National, State, or local Pretreatment Standards or Requirements.

No person shall introduce or cause to be introduced into the POTW the following pollutants, substances, or wastewater containing:

(a) pollutants which cause a fire or explosion hazard in the POTW, including, but not limited to, waste streams with a closed-cup flashpoint of less than 140 degrees F (60 degrees C) using the test methods specified in 40 CFR 261.21;

(b) solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in Interference or injury to the treatment works;

(c) pollutants which cause a danger to life or safety of personnel;

(d) pollutants which cause a strong offensive odor or prevention of the effective maintenance or operation of the treatment works;

(e) pollutants which cause air pollution by the release of toxic or malodorous gases or malodorous gas-producing substances;

(f) Pollutants, including oxygen-demanding pollutants (BOD, etc.), released in a discharge at a flow rate and/or pollutant concentration which, either singly or by interaction with other pollutants, will cause Interference with the POTW;

(g) pollutants which cause a the District's effluent or any other product of the treatment process, residues, sludges, or scums, to be unsuitable for reclamation and reuse or to interfere with the reclamation or treatment process;

(h) pollutants which cause a detrimental environmental impact or a nuisance in the Waters of the State or a condition unacceptable to any public agency having regulatory jurisdiction over the District;

(i) any wastewater which imparts color which cannot be removed by the treatment process, such as, but not limited to, dye wastes and vegetable tanning solutions, which consequently imparts color to the treatment plant's effluent thereby violating the MCDS's NPDES permit;

(j) pollutants which cause conditions at or near the District's POTW which violate any statute or any rule, regulation, or ordinance of any public agency or State or Federal regulatory body;
(k) pollutants which cause the District's POTW to be overloaded or cause excessive collection or treatment costs, or may use a disproportionate share of the facilities;
(l) pollutants which cause a pass through of any pollutant;
(m) wastewater having a pH less than 6.5 or more than 8.5, or otherwise causing corrosive structural damage to the POTW or equipment;
(n) wastewater having a temperature greater than 140 degrees F (65 degrees C), or which will inhibit biological activity in the treatment plant resulting in Interference, but in no case wastewater which causes the temperature at the introduction into the treatment plant to exceed 104 degrees F (40 degrees C);
(o) more than 100 mg/l of oil or grease of animal or vegetable origin;
(p) more than 25 mg/L Total Petroleum Hydrocarbons (TPH) as diesel, motor oil, hydraulic oil or gasoline;
(q) petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;
(r) identifiable chlorinated hydrocarbons;
(s) trucked or hauled pollutants, except at discharge points designated by the General Manager in accordance with Rule 24.15 of this ordinance;
(t) substances which, if otherwise disposed of, would be a hazardous waste under 40 CFR Part 261;
(u) medical Wastes, except as specifically authorized by the General Manager in an individual wastewater discharge permit, or a general permit.
(v) any detectable concentration of 4, 4-DDT.

Industrial User	Address	Sig User?	Avg (GPM)	Peak (GPM)	SIC	Pretreatment	Permit?
BMW of Humboldt County	1795 Central Ave.	No	2.5	17 (hose)	5511	Oil/Water Separator for car wash station	Yes
Central Dental Care	1955 Central Ave.	No	1.5	1.5	8021	Wet Vac Filtration for dental operations	Yes
Dr. Johansson, DDS	1661 Pickett Road	No	0 (dry vac)	0	8021	Dry Vac Filtration for dental operation	Yes
Dr. Mellon, DDS	1737 Central Ave.	No	0 (dry vac)	0	8021	Dry Vac Filtration for dental operation	Yes
Humboldt Petroleum - Shell	1606 Central Ave.	No	0 (recycle)	7 (final rinse)	7542	Filtration / Reuse of carwash water with final fresh rinse	Yes
Humboldt Regeneration	2320 Central Ave.	No	5	5	2082	Metering of brewery discharge water - pH balancing as needed	Yes
Humboldt Sanitation	2585 Central Ave.	No	5	5	4953	Oil Water Separator for truck wash station	Yes
Les Schwab Tires	2210 Central Ave.	No	17	17	5531	Oil Water Separator for tire wash rack	Yes
Mickey's Quality Cars	1901 Central Ave.	No	2.5	17 (hose)	5511	Oil/Water Separator for car wash station	Yes
McKinleyville Union School District	2275 Central Ave.	No	2.5	17 (hose)	4151	Filtration system for bus wash station	Yes
Six Rivers Brewery	1300 Central Ave.	Yes	50	50	2082	Metering of brewery discharge water into system	Yes
Steve's Septic Service	1810 Murray Road	Yes	30	70	171107	Polymerized filtration of pumped sewage	Yes
The Auto Spa	1642 Holly Drive	Yes	5	22	7542	Oil/Water Separators for car wash stations	Yes
US Coast Guard - Aviation	1001 Lycoming Ave.	No	15	15	9229	Filtration system for helicopter wash station	Yes
Average flow rate shows the common rate while operations are ongoing							
Peak flow rate shows uncommon flow that may occur intermitently.							