

McKinleyville Community Services District



ANNUAL WASTEWATER MANAGEMENT FACILITY MONITORING & DISCHARGE REPORT FOR 2015

NPDES No. CA0024490
WDID No. 1B820840HUM

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February 12, 2016

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 2015**

The McKinleyville Community Services District operates the wastewater collection, treatment, and disposal facilities that serve 6391 customer units in the unincorporated area of McKinleyville in Northern Humboldt County. The system operates under Order Number WQ 2011-0008-DWQ, National Pollution Discharge Elimination System (NPDES) Permit No. CA0024490, WDID No. 1B820840HUM and issued by the California State Water Resources Control Board.

Tables 1 and 2 summarize the existing permit elements for reference.

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	45	65			
	lbs/day	604	873			
Total Suspended Solids	mg/L	83				
	lbs/day	1108				
pH	pH Units				6.5	8.5
Settleable Matter	mg/L	0.1		0.2		
Chlorine Residual	mg/L	0.01		0.02		
Nitrate as Nitrogen	mg/L	10				
4,4'-DDT	ug/L	0.00059		0.0027		
bis(2-ethylhexyl) phthalate	ug/L	1.8		3.6		

Table 2. Summary of Monitoring Location Names and Descriptions.

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
	M-INF	Treatment facility headworks
All	M-001	Chlorine contact chamber following dechlorination
001	M-002	Outfall to the Mad River under the Hammond Trail railroad bridge
002	M-003	Outfall to Mad River percolation ponds
003	M-004	Recycled wastewater irrigation of Lower Fisher Ranch
004	M-005	Discharge to land on Upper Fisher Ranch
005	M-006	Recycled wastewater irrigation of Hiller Storm Water Treatment Wetland
006	M-007	Recycled wastewater irrigation of Pialorsi Ranch
	M-008	Overflow from the Hiller Storm Water Treatment Wetland
	R-001	Mad River at Highway 101 Bridge
	R-002	North bank of Mad River as close as possible to the discharge point under the Hammond Trail Bridge
	W-001	Well M-1 adjacent to Fisher Road
	W-002	Well M-2 on the SW corner of the intersection of School and Fisher Roads
	W-006	Well M-6 south of W-9 and west of W-7
	W-007	Well M-7 in the upper portion of the Fisher parcel
	W-008	Well M-8 400 feet west of the intersection of School and Fisher Roads
	W-009	Well M-9 adjacent to School Road
	W-014	Well down gradient of the Hiller Storm Water Treatment Wetlands
	W-015	Well within the Lower Fisher Ranch irrigation area
	W-016	Well within the Pialorsi Ranch irrigation area

Compliance:

Biochemical Oxygen Demand (BOD) Testing:

Discharge Point 001 requirement for BOD are 45 mg/L, 604 lbs/day and 65% removal for the monthly average and a weekly average limit of 65 mg/L and 873 lbs/day. Discharge Point 002 requirement for BOD is 45 mg/L monthly average and a weekly average limit of 65 mg/L. Discharge Point 003- 006 requirements for BOD are 45 mg/L monthly.

BOD limitations for 2015 were not exceeded.

Total Suspended Solids Testing (TSS):

Discharge Point 001 requirement for TSS is 83 mg/L, 1108 lbs/day and 65% removal for the monthly average. Discharge Points 002- 006 requirements are 83 mg/L for the monthly average.

TSS limitations for 2015 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 230 MPN and are the same for Discharge Point 001- 006. Coliform limitations for Monthly Median and Daily Maximum were in compliance in 2015.

Settleable Matter Testing:

The effluent limitations for settleable Matter testing are listed in Table 1 and are for Discharge Point 001. Settable Matter limitations for 2015 were not exceeded.

Chlorine Residual Testing:

The effluent limitations for Chlorine Residual testing are listed in Tables 1 and are for Discharge Point 001. Residual limitations for 2015 were not exceeded.

Nitrate as Nitrogen Testing:

The effluent limitations for Nitrate as Nitrogen testing are listed in Tables 1 and are for Discharge Point 001 and 002. Nitrate as Nitrogen limitations for 2015 were not exceeded.

4,4'-DDT; bis(2-ethylhexyl) phthalate and carbon tetrachloride Testing:

The effluent limitations for these constituents are Table 1 and are for Discharge Point 001. The limitations for 2015 were in compliance.

Acute Toxicity Monitoring:

The acute toxicity monitoring bioassay criteria for Discharge Point 001 requires a 96-hour fish bioassay test conducted at M-001 in undiluted effluent. Two test species were required, Ceriodaphnia dubia (C.dubia) and Rainbow Trout. The method for conducting this test requires the laboratory maintain the test sample the same pH as when the effluent sample was collected and that ammonia, pH and temperature be recorded on 24-hour intervals and reported with the bioassay test results.

It was determined that the C. dubia was too sensitive to the buffering agent used to maintain the pH and mortality rates were beyond the limits set forth in the permit so pH control of the C. dubia was discontinued. After the first year of testing the most sensitive species was to be determined and continue testing that species only but we have continued to conduct testing on both species.

During the year Pacific EcoRisk conducted the C. dubia testing using MOPS buffering to control the fluctuation of test solution pH over the course of the test. This made it possible to adjust the pH to the initial effluent pH at the time of sampling. This procedure has been working and isn't affecting the already sensitive C. dubia.

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 2015 with the exception of a March test for C. dubia that required follow up testing which was in compliance.

Non-Compliance:

Acute Toxicity Testing

The Requirement for Acute Toxicity testing is a minimum of 70% survival for any one test and median for all tests in one month of 90%. Acute Testing remained in compliance throughout the calendar year for Rainbow Trout and C. dubia remained in compliance from January to December with the exception of November. Please review Table 3 for results.

Table 3 Monthly and Accelerated Testing

Date Collected	Test	Trout Survival	Cerio Survival
1/6/2015		100%	
1/27/2015	Monthly		90%
2/3/2015	Monthly	100%	100%

3/3/2015	Monthly	100%	40%
3/18/2015	Accelerated		100%
4/6/2015	Monthly	95%	90%
12/9/2015	Monthly	85%	100%

Conclusion

It has been a long standing observation that our ammonia levels are high and un-ionized ammonia cause toxicity in the right conditions. Due to the toxicity of the pH buffering agent and the high temperatures required for C. dubia test, pH fluctuations and temperatures far outside those characteristic in our effluent cause unionized ammonia to increase to become toxic.

The District, with concurrence of the Regional Board, has decided to run the acute toxicity as a side by side comparison with the second testing criteria at 20°C for C. dubia along with daily renewal of effluent which is consistent with the method. After running several side by side tests, it was chosen to use the 20°C criteria.

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 M-001 WWMF Effluent. Test species for chronic testing are a vertebrate, the fathead minnow, *Pimephales promelas* (larval survival and growth test), an invertebrate, the water flea, *Ceriodaphnia dubia* (survival and reproduction test), and a plant, the green alga, *Selenastrum capricornutum* (growth test). The District conducted chronic toxicity testing one time during the 2015 discharge season. The testing results for Acute Testing are detailed in Table 4

Table 4 Chronic Toxicity Testing for 2015

Dilution Water	Date	Test Species				
		Flathead minnow		Water flea		Algae
		Survival	Growth	Survival	Reproduction	Growth
Diluted w/ Lab Control Water	January 2015	TUc = 1.3	TUc = 4	TUc = 1.3	TUc = 2	1

Accelerated Monitoring Requirements:

If the result of any chronic toxicity test exceeds the chronic toxicity trigger of 1.0 TUc and the testing meets all test acceptability criteria, the District shall initiate accelerated monitoring. Accelerated monitoring shall consist of four additional effluent samples, one test conducted approximately every week, over a four-week period. Testing shall commence within 14 days of receipt of the sample results of the exceedance of the chronic toxicity effluent limitation. The following protocol was used for accelerated monitoring and the TRE implemented and detailed in a study submitted during the 2009 discharge season.

Conclusion:

It was concluded that the mortality experienced in regular testing and verified in the monitoring study was due to ammonia. Ammonia toxicity has been addressed in the 20 Year Facility Plan and a preferred alternative has been identified for the plant upgrade that will reliably remove ammonia. Design began in early 2013 with construction beginning in February 2016. An interim solution for ammonia removal will also be explored.

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 2005 through 2015. The average BOD in 2015 was 22 mg/L and continues to remain well below 45mg/L, our current limit.

Chart 1 Annual Average BOD Concentrations

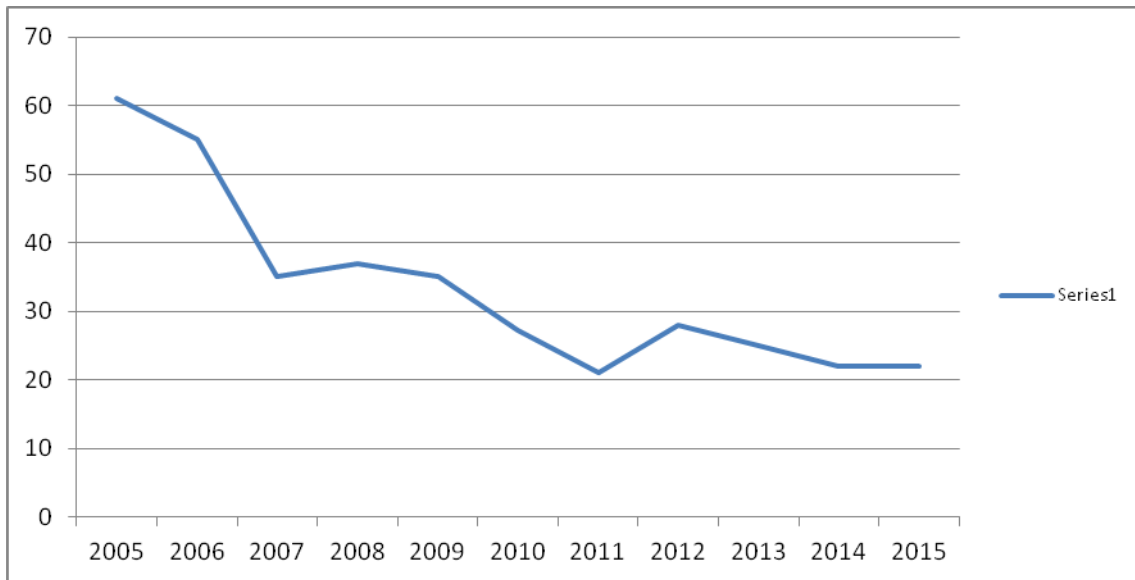


Chart 2 demonstrates average TSS concentration in mg/L from 2005 through 2015. The average TSS in 2015 was below 30 mg/L and is well below the level it was in 2005.

Chart 2 Annual Average TSS Concentrations

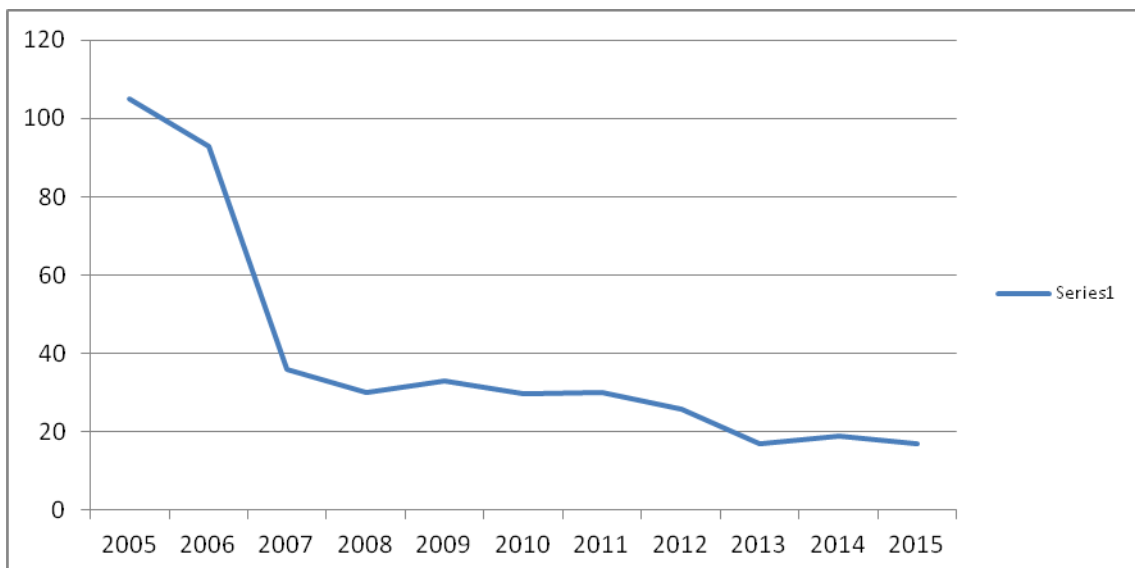
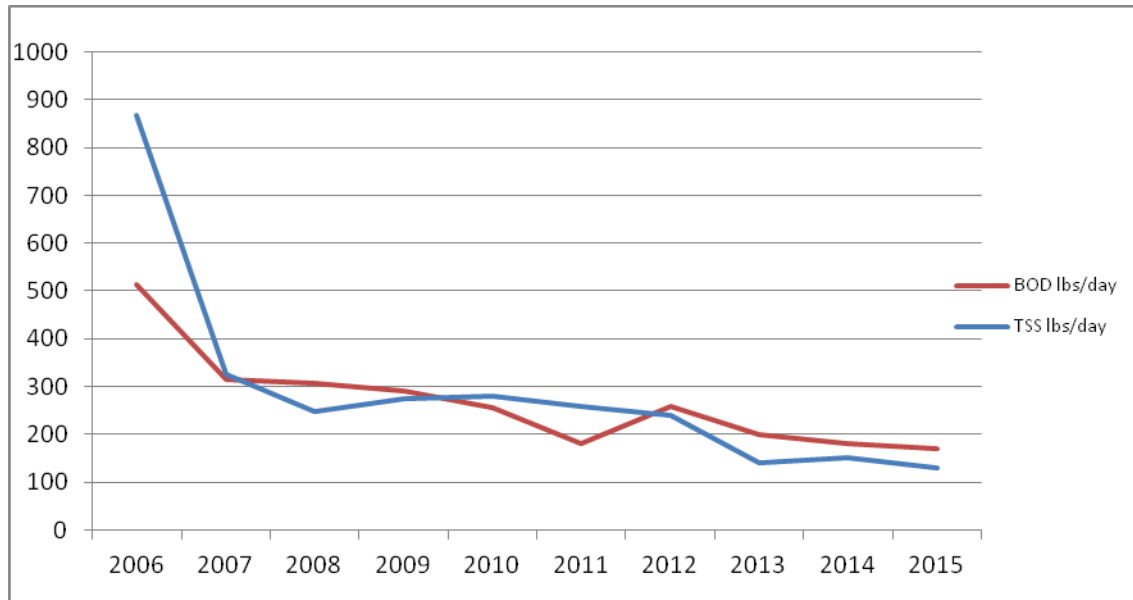


Chart 3 is the product of the flow and the concentration, is identified as mass loading and measured in pounds per day. BOD and TSS continue to trend lower.

Chart 3 Annual Average BOD and TSS Mass Loading



Charts 1-3 demonstrate the downward side of the spike of BOD and TSS from the 2005 treatment marsh upgrade project completion in 2006. From 2006 through 2007 the performance of the treatment process can be demonstrated by the drastic improvement. From 2007 through 2011 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.

Main Area of Concern:

Nitrogen Removal

Ammonia has been identified as the main area of concern as demonstrated through biological testing and the appearance of Nitrate in the ground water adjacent to the irrigation sites. Though our permit does not directly limit ammonia we recognize the importance of addressing the concern. The District is committed to reversing the trend of ammonia toxicity in our effluent stream. The 20 Year Facility Plan directly addresses and is dedicated to the removal by treatment of this constituent. The District is also exploring other interim alternatives that have the potential to augment planned upgrades and are addressed in the WWMF Improvement Project Design.

Summary of Work Completed in 2015

Draining and Preparing Pond 1A for Construction: Attachment 1

To prepare the site for the WWMF upgrade, Pond 1A was pumped into Pond 1B at a slow rate. Once the pumping was completed, staff used heavy equipment to move the remaining sludge that was left over from the 2014 Biosolids removal. The material was relocated to the North end of the pond and sloped to allow rain water to run off the sludge and prevent it from turning into slurry. As the rainfall accumulates at the south end of the pond, it is then pumped over to Pond 1B. The Sludge will be removed as part of the first phase of the upgrade. A time lapse camera has been installed and will take pictures daily to capture the upgrade progress. (Displayed in attachment 1)

Pipe Replacement From Headworks to Pond 1B: Attachment 2

The 12" ac pipe that delivers the influent from the WWMF head works to Pond 1B was collapsing due to years of hydrogen sulfide exposure. The pipe was dug up and replaced with C900 pipe to prevent blockage and future corrosion.

WWMF Upgrade: Attachment 3

In 2013 MCSD contracted Kennedy/ Jenks to design the WWMF upgrade. The Design was completed in 2015 after several rounds of comment between the District and the engineers. Invitation to bidders went out and several were received. The low bidder, which was Auburn Contractors, was awarded the bid. The bids were reviewed by engineers and the State Revolving Fund. After the District received their approval, a notice to proceed was signed. Starting on January 4, 2016, the contractors have 521 days to complete the upgrade. The District has been attending weekly progress meeting discussing schedules and submittals. The contractors should break ground by the middle of March. A layout of the upgrade is provided as Attachment 3.

20 Year Facilities Plan

The District also completed significant work in 2011 on the 20-year facilities plan for the District WWMF. An initial draft of the facilities plan was published in August 2011 for a peer review by Kennedy Jenks. In October 2011 a revised draft was published and circulated for public review and comment. 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.

<http://mckinleyvillecsd.com/document-library/20%20Year%20Facilities%20Plan>

INDEX OF ATTACHMENTS and EXHIBITS

ATTACHMENT 1: Draining and Preparing Pond 1A for Construction **PG 10**

ATTACHMENT 2: Pipe Replacement From Headworks to Pond 1B **PG 14**

ATTACHMENT 3: WWMF Upgrade **PG 16**

EXHIBIT A: Tabular and Graphical Data **PG 17**

Influent and Effluent Monthly Totals
Influent and Effluent Maximum Day

EXHIBIT B: Tabular **PG 19**

CFS, River Dilution, Effluent Flow and Effluent Distribution

EXHIBIT C: Tabular and Graphical Data **PG 24**

Monthly Totals for Effluent Flow and Discharge Disposal Locations
Annual Effluent Distribution Pie Chart
Daily Totals for Effluent Flow and Discharge Disposal Locations

EXHIBIT D: Tabular Data **PG 37**

Monthly Monitoring Report (Permit exceedances highlighted in yellow)

EXHIBIT E: Tabular Data **PG 49**

Influent and Effluent Testing Monthly Averages

EXHIBIT F: Tabular and Graphical Data **PG 62**

30-day Average BOD and NFR Worksheet
30 Day BOD and NFR Maximum, Minimum and Average Chart
BOD and NFR 30 Average Concentration Chart
BOD and NFR 30 Average lbs/day Chart
BOD and NFR 30 Day Average Removal Comparisons
BOD Influent, Effluent and Terminal Pond Comparisons

EXHIBIT G: Tabular and Graphical Data **PG 69**

Monthly Averages for pH, temperature Ionized and Unionized Ammonia
Influent and Effluent Average Total Ammonia Chart
Relationship between Temperature and Ammonia Percent Removal Chart

EXHIBIT H: Tabular Data **PG 72**

Well Monitoring Data
Discharge Data R-001, R-002 and M-001

EXHIBIT I: Tabular Graphical Data PG 62

Pond Sludge Depths
Remaining Sludge Capacity Chart
Monthly/ Annual Averages for Pond Ammonia
Monthly/ Annual Averages for Pond Temperature
Monthly/ Annual Averages for Pond pH
Monthly/ Annual Averages for Pond Dissolved Oxygen
Monthly/ Annual Averages for Pond Level

EXHIBIT J: Tabular and Graphical Data PG 69

Monthly Total Aerator Hours
Monthly Total Aerator Hours versus Ammonia % Removal Chart
Monthly Total Aerator Hours versus Effluent BOD Chart
Monthly Total Aerator Hours versus BOD Percent Removal Chart

EXHIBIT K: Tabular Data PG 73

Monthly Total Electric, Cl₂, SO₂, and Rain Gage Data
TKN, Alkalinity, and Nitrate Special Testing

If you have any questions, please contact this office.

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GREGORY ORSINI, GENERAL MANAGER



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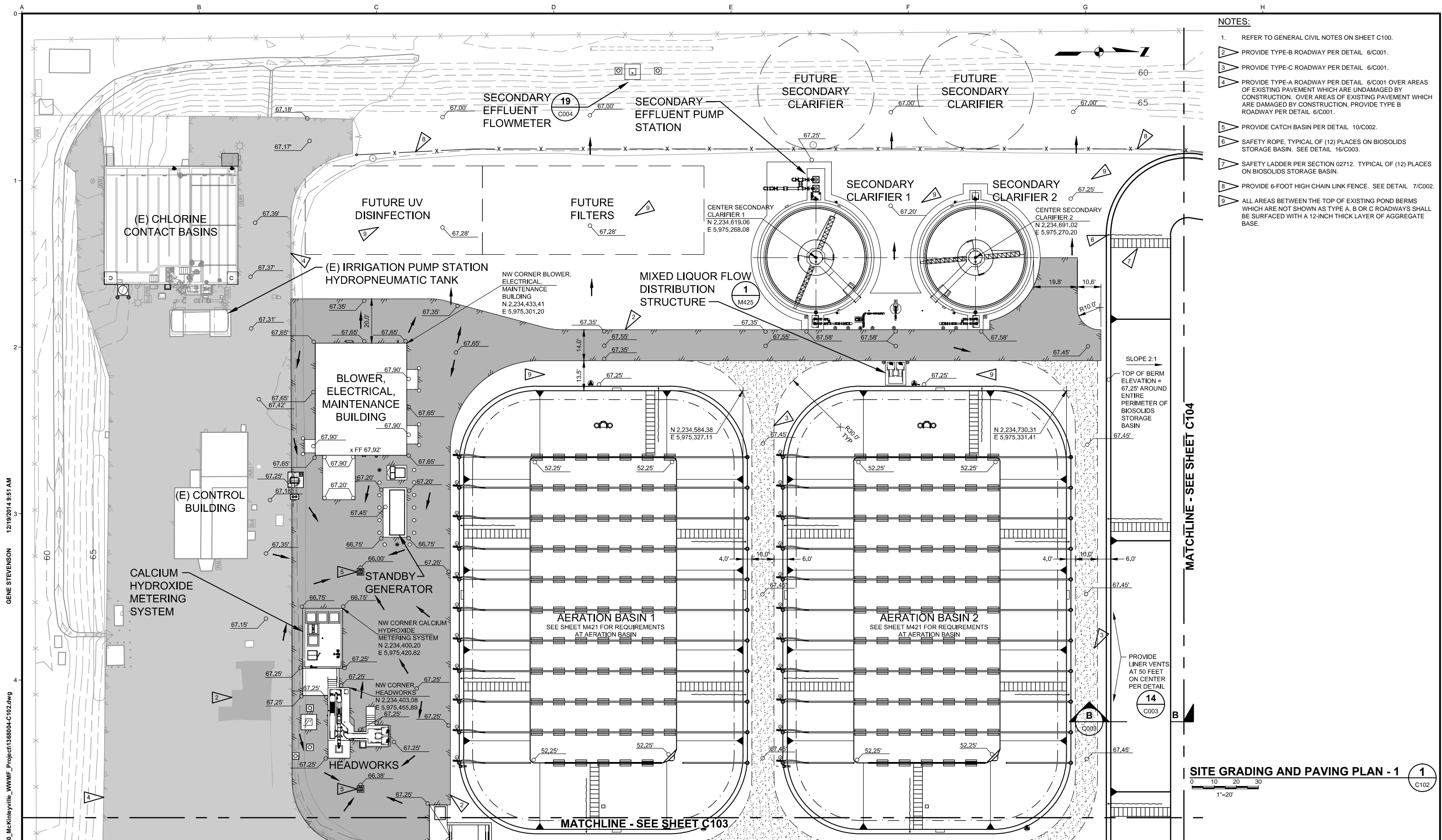
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<div>USE OF DOCUMENTS</div> <div>THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDY/JENKS CONSULTANTS.</div>					<div>SCALES</div> <div><div><div>0</div><div>1"</div></div><div><div>0</div><div>25mm</div></div></div> <div>IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.</div>	<div><div><div><div><div></div><div>WILLIAM A. JENKS</div><div>PROFESSIONAL ENGINEER</div><div>NO. C054215</div><div>EXP. 12-31-15</div><div>CIVIL</div></div><div>STATE OF CALIFORNIA</div></div></div><div>12-19-14</div></div>	DESIGNED	McKINLEYVILLE COMMUNITY SERVICES DISTRICT McKINLEYVILLE, CA	<div>SITE GRADING AND PAVING PLAN - 1</div>	FILE NAME	1368004-C102
	WMH	JOB NO.	1368004.00								
	DRAWN	DATE	DECEMBER 2014								
	GAS	SHEET	OF								
	CHECKED	Kennedy/Jenks Consultants SANTA ROSA, CALIFORNIA	<div>C102</div>								
	RRH										
NO.	REVISION	DATE	BY								

McKinleyville Community Services District
Wastewater Management Facility

Influent and Effluent Flows

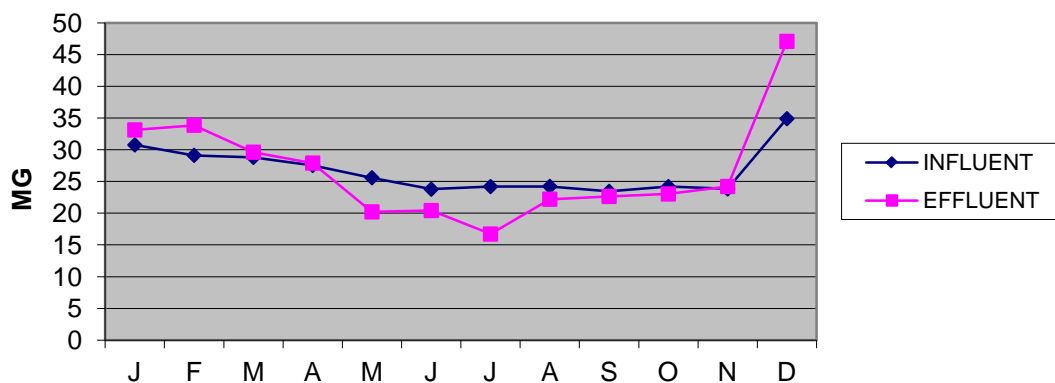
2015

in MGD

DATE INFLUENT FISCHER HILLER EFFLUENT AVERAGE GPM

J	30.753	16.397	14.356	33.120	832
F	29.117	15.148	13.969	33.858	906
M	28.785	15.549	13.236	29.606	706
A	27.514	14.809	12.705	27.895	692
M	25.582	14.222	11.360	20.209	648
J	23.778	10.256	13.522	20.414	715
J	24.187	10.235	13.952	16.712	606
A	24.218	10.166	14.052	22.205	820
S	23.436	9.900	13.536	22.641	871
O	24.192	10.002	14.188	23.028	742
N	23.824	10.115	13.709	24.208	717
D	34.885	16.985	17.900	47.068	1165
Total	320.271	153.784	166.485	320.964	
Average	26.689	12.815	13.874	26.747	785
Maximum	34.885	16.985	17.900	47.068	1165
Minimum	23.436	9.900	11.360	16.712	606

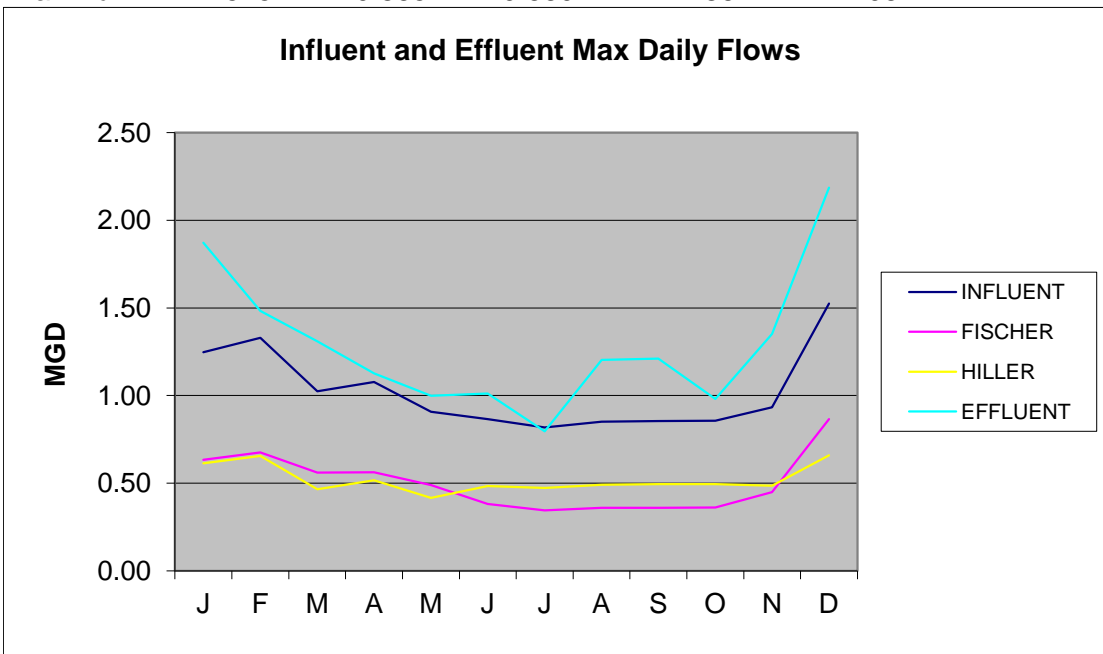
Influent and Effluent Totals 2015



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

2015

DATE	INFLUENT	FISCHER	HILLER	EFFLUENT	MAX GPM
J	1.247	0.633	0.614	1.871	1406
F	1.330	0.675	0.655	1.483	1338
M	1.025	0.560	0.465	1.309	973
A	1.078	0.562	0.516	1.126	923
M	0.907	0.490	0.417	0.998	1325
J	0.865	0.382	0.483	1.012	1530
J	0.818	0.345	0.473	0.796	1253
A	0.851	0.360	0.491	1.204	1706
S	0.854	0.360	0.494	1.211	1571
O	0.857	0.362	0.495	0.981	1554
N	0.934	0.449	0.485	1.352	1160
D	1.525	0.865	0.660	2.186	1540
Maximum	1.525	0.865	0.660	2.186	1706



JANUARY 2015

M-004

RIVER DILUTION

M-005

M-006

DATE	M-INF INFLUENT MGD	M-001 EFFLUENT MGD	EFFLUENT MAXIMUM GPM	M-003 PERK PONDS MGD	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
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1	1.062	1.871	1310			1.871	373	4893	1090	8154
2	1.042	1.517	1302			1.517	338	4394	979	7324
3	1.047	1.070	755			1.070	536	4044	901	6740
4	1.089	1.066	918			1.066	411	3770	840	6284
5	1.011	1.047	737			1.047	477	3515	783	5858
6	0.977	1.045	738			1.045	454	3348	746	5581
7	0.965	1.041	735			1.041	392	2882	642	4803
8	0.948	1.041	735			1.041	363	2666	594	4444
9	0.936	1.040	734			1.040	348	2554	569	4257
10	0.974	1.039	731			1.039	328	2397	534	3995
11	1.027	1.048	734			1.048	267	1957	436	3262
12	0.953	0.510	730			0.510	235	1719	383	2865
13	0.926	0.150	1406			0.150	115	1620	361	2701
14	0.926	0.572	658			0.572	234	1540	343	2566
15	0.910	0.915	647			0.915	226	1463	326	2439
16	0.950	1.013	816			1.013	207	1688	376	2813
17	0.980	1.159	813			1.159	399	3241	722	5401
18	1.247	1.138	806			1.138	1487	11985	2670	19974
19	1.144	1.137	807			1.137	1263	10189	2270	16982
20	1.038	1.147	817			1.147	764	6239	1390	10399
21	1.011	1.145	821			1.145	596	4893	1090	8154
22	0.981	1.136	802			1.136	556	4462	994	7436
23	0.949	1.139	810			1.139	484	3923	874	6538
24	1.002	1.139	802			1.139	445	3568	795	5947
25	1.042	1.141	804			1.141	410	3295	734	5491
26	0.982	1.143	804			1.143	384	3084	687	5139
27	0.935	1.143	801			1.143	363	2909	648	4848
28	0.928	1.141	803			1.141	310	2487	554	4144
29	0.926	1.143	807			1.143	274	2208	492	3681
30	0.896	1.137	807			1.137	229	1845	411	3075
31	0.949	1.147	811			1.147	212	1719	383	2865
TOTAL	30.753	33.120		0.000	0.000	33.120				
AVERAGE	0.992	1.068	832	0.000	0.000	1.068	435	3564	794	5941
MAXIMUM	1.247	1.871	1406	0.000	0.000	1.871	1487	11985	2670	19974
MINIMUM	0.896	0.150	647	0.000	0.000	0.150	115	1463	326	2439
DAYS	31	31	31	0	0					
DAYS WITH NO DISCHARGE TO THE MAD RIVER = 0										

FEBRUARY 2015

M-004

RIVER DILUTION

M-005

M-006

	M-INF	M-001		M-003	M-007	M-002				
DATE	INFLUENT	EFFLUENT	EFFLUENT	PERK	IRRIGATE	RIVER	RIVER	MAXIMUM	RIVER	RIVER
	MGD	MGD	MAXIMUM	PONDS	MGD	MGD	DILUTION	G.P.M.	FLOW IN	FLOW IN
			GPM	MGD			100:1	DISCHARGE	CFS	GPS
								FOR 100:1		

1	0.986	1.140	802			1.140	198	1589	354	2648
2	1.096	1.133	799			1.133	231	1845	411	3075
3	1.055	1.129	787			1.129	1249	9830	2190	16383
4	1.016	1.129	793			1.129	691	5476	1220	9127
5	1.062	1.132	799			1.132	573	4578	1020	7631
6	1.330	1.282	1037			1.282	1528	15845	3530	26408
7	1.300	1.448	1021			1.448	8880	90670	20200	151116
8	1.251	1.483	1049			1.483	4450	46681	10400	77802
9	1.181	0.681	1062			0.681	3161	33575	7480	55958
10	1.113	0.000	0	ashed CCB		0.000	0	37390	8330	62317
11	1.088	0.993	1338			0.993	2016	26976	6010	44961
12	1.060	1.431	1008			1.431	1768	17820	3970	29700
13	1.035	1.423	998			1.423	1367	13645	3040	22742
14	1.053	1.410	989			1.410	1080	10683	2380	17805
15	1.057	1.415	1002			1.415	869	8708	1940	14513
16	1.033	1.414	995			1.414	753	7496	1670	12493
17	0.966	1.412	992			1.412	647	6419	1430	10698
18	0.968	1.406	988			1.406	572	5656	1260	9426
19	0.950	1.403	986			1.403	510	5027	1120	8379
20	0.931	1.398	995			1.398	465	4623	1030	7705
21	0.959	1.395	998			1.395	405	4044	901	6740
22	1.025	1.390	990			1.390	381	3770	840	6284
23	0.947	1.265	985			1.265	362	3568	795	5947
24	0.902	1.143	842			1.143	401	3375	752	5626
25	0.914	1.105	778			1.105	437	3402	758	5671
26	0.929	1.104	775			1.104	439	3402	758	5671
27	0.941	1.098	773			1.098	402	3111	693	5184
28	0.969	1.096	777			1.096	410	3187	710	5312

TOTAL	29.117	33.858		0.000	0.000	33.858				
AVERAGE	1.040	1.209	906	0.000	0.000	1.209	1223	13657	3043	22761
MAXIMUM	1.330	1.483	1338	0.000	0.000	1.483	8880	90670	20200	151116
MINIMUM	0.902	0.000	0	0.000	0.000	0.000	0	1589	354	2648
DAYS	28	27	27	0	0					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 1

April 2015

M-004

RIVER DILUTION

M-005

M-006

M-007

DATE	INFLUENT MGD	EFFLUENT MGD	EFFLUENT MAXIMUM GPM	PERK PONDS MGD	IRRIGATE MGD	RIVER MGD	RIVER DILUTION 100:1	MAXIMUM G.P.M. DISCHARGE FOR 100:1	RIVER FLOW IN CFS	RIVER FLOW IN GPS
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1	0.923	1.056	923			1.056	218	2011	448	3351
2	0.920	0.896	637			0.896	293	1867	416	3112
3	0.900	0.898	636			0.898	280	1782	397	2970
4	0.921	0.898	649			0.898	260	1688	376	2813
5	0.967	0.903	647			0.903	259	1679	374	2798
6	0.959	0.550	668			0.550	281	1876	418	3127
7	1.078	0.000	0	Washed CCB		0.000		4327	964	7212
8	0.966	0.774	878			0.774	700	6149	1370	10249
9	0.949	1.126	822			1.126	531	4363	972	7272
10	0.923	1.082	759			1.082	454	3447	768	5745
11	0.933	1.084	765			1.084	376	2877	641	4795
12	1.006	1.083	768			1.083	363	2787	621	4646
13	0.956	1.080	765			1.080	322	2460	548	4100
14	0.942	1.081	772			1.081	361	2787	621	4646
15	0.929	1.067	762			1.067	318	2419	539	4032
16	0.909	1.059	755			1.059	285	2150	479	3583
17	0.887	1.063	751			1.063	267	2002	446	3337
18	0.896	1.060	753			1.060	249	1876	418	3127
19	0.955	1.058	755			1.058	233	1760	392	2933
20	0.905	1.056	745			1.056	225	1679	374	2798
21	0.879	1.052	747			1.052	214	1598	356	2663
22	0.876	1.034	734			1.034	216	1584	353	2641
23	0.886	1.012	726			1.012	211	1531	341	2551
24	0.866	0.793	590			0.793	252	1486	331	2476
25	0.868	0.866	619			0.866	239	1477	329	2461
26	0.917	0.876	621			0.876	243	1508	336	2514
27	0.873	0.883	625			0.883	228	1423	317	2371
28	0.845	0.887	628			0.887	214	1347	300	2244
29	0.841	0.885	626			0.885	196	1225	273	2042
30	0.839	0.733	628	0.224		0.509	177	1109	247	1848

TOTAL	27.514	27.895		0.224	0.000	27.671				
AVERAGE	0.917	0.930	692	0.000	0.000	0.922	292	2209	492	3682
MAXIMUM	1.078	1.126	923	0.224	0.000	1.126	700	6149	1370	10249
MINIMUM	0.839	0.000	0	0.224	0.000	0.000	177	1109	247	1848
DAYS	30	29	30	1	0					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 1 1

MCKINLEYVILLE COMMUNITY SERVICES DISTRICT										
WASTEWATER MANAGEMENT FACILITY										
RIVER CFS - EFFLUENT FLOWS -					RIVER DILUTION					
					M-004					
					M-005					
DECEMBER 2015					M-006					
	M-INF	M-001		M-003	M-007	M-002				
DATE	INFLUENT	EFFLUENT	EFFLUENT	PERK	IRRIGATE	RIVER	RIVER	MAXIMUM	RIVER	RIVER
	MGD	MGD	MAXIMUM	PONDS	MGD	MGD	DILUTION	G.P.M.	FLOW IN	FLOW IN
			GPM	MGD			100:1	DISCHARGE	CFS	GPS
								FOR 100:1		

DECEMBER 2015											
	M-INF	M-001		M-003	M-007	M-002					
DATE	INFLUENT	EFFLUENT	EFFLUENT	PERK	IRRIGATE	RIVER	RIVER	MAXIMUM	RIVER	RIVER	
	MGD	MGD	MAXIMUM	PONDS	MGD	MGD	DILUTION	G.P.M.	FLOW IN	FLOW IN	
			GPM	MGD			100:1	DISCHARGE	CFS	GPS	
								FOR 100:1			

DATE	M-INF INFLUENT MGD	M-001 EFFLUENT MGD	EFFLUENT MAXIMUM GPM	M-003 PERK PONDS MGD	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
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1	0.775	1.542	1082		1.542					
2	0.792	1.524	1206		1.524					
3	0.850	1.477	1038		1.477					
4	0.836	1.132	1030	0.424	0.708					
5	0.837	0.756	533	0.756						
6	0.896	0.738	519	0.738						
7	0.821	0.992	848	0.296		0.696	521	4417	984	7361
8	0.810	0.954	842			0.954	301	2532	564	4219
9	0.968	0.834	655			0.834	685	4489	1000	7481
10	0.961	0.849	726			0.849	2387	17326	3860	28877
11	1.089	1.203	1091			1.203	1823	19884	4430	33141
12	1.094	1.552	1089			1.552	1521	16563	3690	27605
13	1.525	1.643	1224			1.643	2886	35325	7870	58875
14	1.230	1.695	1240			1.695	2052	25450	5670	42417
15	1.088	1.664	1179			1.664	1020	12029	2680	20049
16	1.021	1.663	1176			1.663	702	8259	1840	13765
17	1.045	1.291	1161			1.291	599	6957	1550	11596
18	1.345	1.575	1540			1.575	1055	16249	3620	27081
19	1.332	2.186	1538			2.186	1976	30388	6770	50646
20	1.270	2.028	1540			2.028	968	14902	3320	24837
21	1.411	1.895	1423			1.895	1025	14588	3250	24313
22	1.389	1.904	1389			1.904	4847	67329	15000	112215
23	1.322	2.060	1500			2.060	3591	53863	12000	89772
24	1.467	2.106	1479			2.106	2692	39814	8870	66356
25	1.406	2.111	1492			2.111	2163	32273	7190	53788
26	1.267	2.133	1504			2.133	1322	19884	4430	33141
27	1.254	2.137	1497			2.137	956	14319	3190	23864
28	1.259	1.631	1491			1.631	864	12882	2870	21470
29	1.177	1.043	758			1.043	1457	11042	2460	18403
30	1.219	1.291	1176			1.291	828	9740	2170	16234
31	1.129	1.459	1141			1.459	724	8259	1840	13765

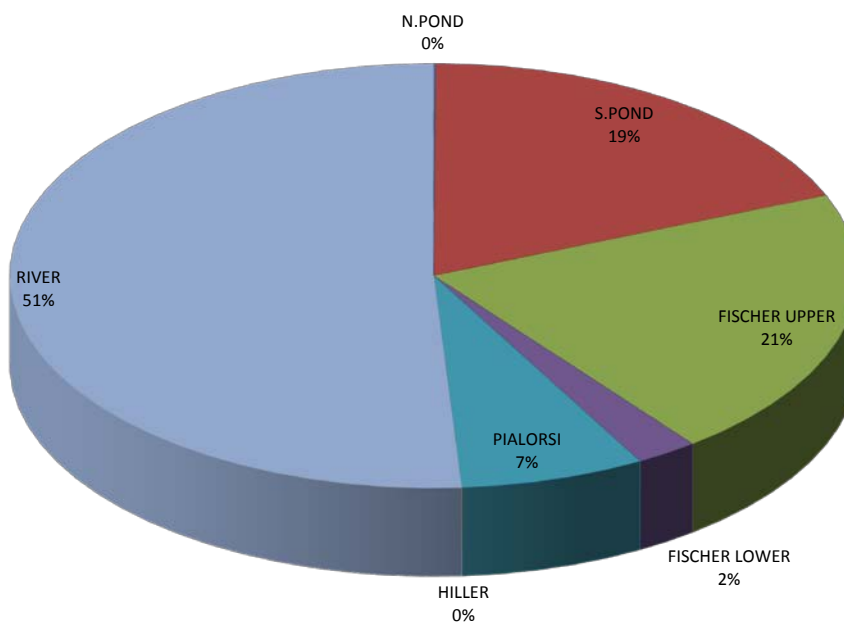
TOTAL	34.885	47.068		2.214	5.251	39.603				
AVERAGE	1.125	1.518	1165	0.554	1.313	1.584	1559	19951	4445	33251
MAXIMUM	1.525	2.186	1540	0.756	1.542	2.186	4847	67329	15000	112215
MINIMUM	0.775	0.738	519	0.296	0.708	0.696	301	2532	564	4219
DAYS	31	31	31	4	4					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 6

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL TOTALS 2015

Discharge Monitoring DATE	M-INF INFLUENT MGD	M-001 EFFLUENT MGD	002 M-003 TN.POND MGD	002 M-003 S.POND MGD	004 M-005 FISCHER MGD	003 M-004 FISCHER MGD	006 M-007 PIALORSI MGD	005 M-006 HILLER MGD	001 M-002 IRRIGATE MGD	001 M-002 RIVER MGD
					UPPER	LOWER			TOTAL	
									MGD	
JANUARY	30.8	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.1
FEBRUARY	29.1	33.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.9
MARCH	28.8	29.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.6
APRIL	27.5	27.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	27.7
MAY	25.6	20.2	0.0	9.4	9.8	0.0	0.9	0.0	10.8	0.0
JUNE	23.8	20.4	0.0	7.4	9.2	0.9	2.9	0.0	13.0	0.0
JULY	24.2	16.7	0.0	6.0	6.1	0.4	4.3	0.0	10.7	0.0
AUGUST	24.2	22.2	0.0	8.5	7.2	3.3	3.1	0.0	13.7	0.0
SEPTEMBER	23.4	22.6	0.0	5.5	9.9	2.4	4.9	0.0	17.1	0.0
OCTOBER	24.2	23.0	0.0	10.8	7.6	0.5	4.2	0.0	12.2	0.0
NOVEMBER	23.8	24.2	0.0	10.3	11.5	0.1	2.3	0.0	13.9	0.0
DECEMBER	34.9	47.1	0.0	2.2	5.3	0.0	0.0	0.0	5.3	39.6
Totals	320.3	321.0	0.2	60.2	66.5	7.6	22.6	0.0	96.7	163.9

Effluent Distribution



McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY EFFLUENT DISCHARGE DISPOSAL

JANUARY 2015

Discharge Monitoring	M-INF		M-001		002 M-003		002 M-003		004 M-005		003 M-004		006 M-007		005 M-006		001 M-002	
	DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD						
	1	1.062	1.871	1310							0.000	1.871						
	2	1.042	1.517	1302							0.000	1.517						
	3	1.047	1.070	755							0.000	1.070						
	4	1.089	1.066	918							0.000	1.066						
	5	1.011	1.047	737							0.000	1.047						
	6	0.977	1.045	738							0.000	1.045						
	7	0.965	1.041	735							0.000	1.041						
	8	0.948	1.041	735							0.000	1.041						
	9	0.936	1.040	734							0.000	1.040						
	10	0.974	1.039	731							0.000	1.039						
	11	1.027	1.048	734							0.000	1.048						
	12	0.953	0.510	730							0.000	0.510						
	13	0.926	0.150	1406							0.000	0.150						
	14	0.926	0.572	658							0.000	0.572						
	15	0.910	0.915	647							0.000	0.915						
	16	0.950	1.013	816							0.000	1.013						
	17	0.980	1.159	813							0.000	1.159						
	18	1.247	1.138	806							0.000	1.138						
	19	1.144	1.137	807							0.000	1.137						
	20	1.038	1.147	817							0.000	1.147						
	21	1.011	1.145	821							0.000	1.145						
	22	0.981	1.136	802							0.000	1.136						
	23	0.949	1.139	810							0.000	1.139						
	24	1.002	1.139	802							0.000	1.139						
	25	1.042	1.141	804							0.000	1.141						
	26	0.982	1.143	804							0.000	1.143						
	27	0.935	1.143	801							0.000	1.143						
	28	0.928	1.141	803							0.000	1.141						
	29	0.926	1.143	807							0.000	1.143						
	30	0.896	1.137	807							0.000	1.137						
	31	0.949	1.147	811							0.000	1.147						
TOTAL		30.753	33.120		0.000	0.000	0.000	0.000	0.000	0.000	0.000	33.120						
AVERAGE		0.992	1.068	832	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.068						
MAXIMUM		1.247	1.871	1406	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.871						
MINIMUM		0.896	0.150	647	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.150						
DAYS		31	31		0	0	0	0	0	0	0	31						
DAYS WITH NO DISCHARGE = 0																		

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL

FEBRUARY 2015

Discharge Monitoring				002	002	004	003	006	005			001
	M-INF	M-001		M-003	M-003	M-005	M-004	M-007	M-006			M-002
	DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	0.986	1.140	802								0.000	1.140
2	1.096	1.133	799								0.000	1.133
3	1.055	1.129	787								0.000	1.129
4	1.016	1.129	793								0.000	1.129
5	1.062	1.132	799								0.000	1.132
6	1.330	1.282	1037								0.000	1.282
7	1.300	1.448	1021								0.000	1.448
8	1.251	1.483	1049								0.000	1.483
9	1.181	0.681	1062								0.000	0.681
10	1.113	0.000	0	Wahsed CCB							0.000	0.000
11	1.088	0.993	1338								0.000	0.993
12	1.060	1.431	1008								0.000	1.431
13	1.035	1.423	998								0.000	1.423
14	1.053	1.410	989								0.000	1.410
15	1.057	1.415	1002								0.000	1.415
16	1.033	1.414	995								0.000	1.414
17	0.966	1.412	992								0.000	1.412
18	0.968	1.406	988								0.000	1.406
19	0.950	1.403	986								0.000	1.403
20	0.931	1.398	995								0.000	1.398
21	0.959	1.395	998								0.000	1.395
22	1.025	1.390	990								0.000	1.390
23	0.947	1.265	985								0.000	1.265
24	0.902	1.143	842								0.000	1.143
25	0.914	1.105	778								0.000	1.105
26	0.929	1.104	775								0.000	1.104
27	0.941	1.098	773								0.000	1.098
28	0.969	1.096	777								0.000	1.096
TOTAL	29.117	33.858		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	33.858
AVERAGE	1.040	1.209	906	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.209
MAXIMUM	1.330	1.483	1338	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.483
MINIMUM	0.902	0.000	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DAYS	28	28		0	0	0	0	0	0	0	0	27

DAYS WITH NO DISCHARGE = 1

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL

MARCH 2015

Discharge Monitoring	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002	
	DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
	1	1.010	1.093	781							0.000	1.093
	2	0.941	1.088	768							0.000	1.088
	3	0.903	1.094	781							0.000	1.094
	4	0.902	0.983	779							0.000	0.983
	5	0.889	0.861	614							0.000	0.861
	6	0.864	0.862	614							0.000	0.862
	7	0.906	0.866	616							0.000	0.866
	8	0.959	0.870	617							0.000	0.870
	9	0.906	0.340	612							0.000	0.340
	10	0.900	0.000	0	Washed CCB						0.000	0.000
	11	0.871	0.613	671							0.000	0.613
	12	0.885	0.922	655							0.000	0.922
	13	0.868	0.914	647							0.000	0.914
	14	0.886	0.868	641							0.000	0.868
	15	0.975	0.913	647							0.000	0.913
	16	0.919	0.911	647							0.000	0.911
	17	0.877	0.905	645							0.000	0.905
	18	0.862	0.895	647							0.000	0.895
	19	0.863	0.886	631							0.000	0.886
	20	0.858	0.879	625							0.000	0.879
	21	0.912	0.874	628							0.000	0.874
	22	1.025	0.867	614							0.000	0.867
	23	1.017	0.870	620							0.000	0.870
	24	0.962	1.136	919							0.000	1.136
	25	0.976	1.309	926							0.000	1.309
	26	0.981	1.308	916							0.000	1.308
	27	0.960	1.308	919							0.000	1.308
	28	0.977	1.307	921							0.000	1.307
	29	1.021	1.295	918							0.000	1.295
	30	0.960	1.282	904							0.000	1.282
	31	0.950	1.287	973							0.000	1.287
TOTAL	28.785	29.606		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	29.606
AVERAGE	0.929	0.955	706	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.955
MAXIMUM	1.025	1.309	973	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.309
MINIMUM	0.858	0.000	0	0.000	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	0	30
DAYS WITH NO DISCHARGE = 1												

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL

APRIL 2015

Discharge Monitoring				002	002	004	003	006	005			001
	M-INF	M-001		M-003	M-003	M-005	M-004	M-007	M-006			M-002
	DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	0.923	1.056	923							0.000	1.056	
2	0.920	0.896	637							0.000	0.896	
3	0.900	0.898	636							0.000	0.898	
4	0.921	0.898	649							0.000	0.898	
5	0.967	0.903	647							0.000	0.903	
6	0.959	0.550	668							0.000	0.550	
7	1.078	0.000	0	Washed CCB						0.000	0.000	
8	0.966	0.774	878							0.000	0.774	
9	0.949	1.126	822							0.000	1.126	
10	0.923	1.082	759							0.000	1.082	
11	0.933	1.084	765							0.000	1.084	
12	1.006	1.083	768							0.000	1.083	
13	0.956	1.080	765							0.000	1.080	
14	0.942	1.081	772							0.000	1.081	
15	0.929	1.067	762							0.000	1.067	
16	0.909	1.059	755							0.000	1.059	
17	0.887	1.063	751							0.000	1.063	
18	0.896	1.060	753							0.000	1.060	
19	0.955	1.058	755							0.000	1.058	
20	0.905	1.056	745							0.000	1.056	
21	0.879	1.052	747							0.000	1.052	
22	0.876	1.034	734							0.000	1.034	
23	0.886	1.012	726							0.000	1.012	
24	0.866	0.793	590							0.000	0.793	
25	0.868	0.866	619							0.000	0.866	
26	0.917	0.876	621							0.000	0.876	
27	0.873	0.883	625							0.000	0.883	
28	0.845	0.887	628							0.000	0.887	
29	0.841	0.885	626							0.000	0.885	
30	0.839	0.733	628	0.224						0.000	0.509	
TOTAL	27.514	27.895		0.224	0.000	0.000	0.000	0.000	0.000	0.000	27.671	
AVERAGE	0.917	0.930	692	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.922	
MAXIMUM	1.078	1.126	923	0.224	0.000	0.000	0.000	0.000	0.000	0.000	1.126	
MINIMUM	0.839	0.000	0	0.224	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
DAYS	30	29		1	0	0	0	0	0	0	29	
DAYS WITH NO DISCHARGE = 1												

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL

MAY 2015

Discharge Monitoring				002	002	004	003	006	005		001	
	M-INF	M-001		M-003	M-003	M-005	M-004	M-007	M-006		M-002	
	DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	0.824	0.634	453		0.634					0.000	0.000	
2	0.849	0.638	451		0.638					0.000	0.000	
3	0.907	0.637	451		0.637					0.000	0.000	
4	0.843	0.652	1325		0.244	0.408				0.408	0.000	
5	0.816	0.662	591			0.662				0.662	0.000	
6	0.847	0.695	600			0.695				0.695	0.000	
7	0.825	0.712	637			0.712				0.712	0.000	
8	0.800	0.664	644		0.246	0.418				0.418	0.000	
9	0.841	0.445	316		0.445					0.000	0.000	
10	0.867	0.436	311		0.436					0.000	0.000	
11	0.840	0.280	1132		0.180	0.100				0.100	0.000	
12	0.827	0.000	0		Washed CCB						0.000	0.000
13	0.839	0.486	1231			0.486				0.486	0.000	
14	0.825	0.862	858			0.862				0.862	0.000	
15	0.803	0.856	723		0.339	0.517				0.517	0.000	
16	0.848	0.628	452		0.628					0.000	0.000	
17	0.885	0.590	421		0.590					0.000	0.000	
18	0.825	0.755	889		0.227	0.413		0.115		0.528	0.000	
19	0.807	0.998	897			0.720		0.278		0.998	0.000	
20	0.799	0.899	897			0.683		0.216		0.899	0.000	
21	0.801	0.776	851			0.776				0.776	0.000	
22	0.799	0.692	623		0.327	0.365				0.365	0.000	
23	0.792	0.585	419		0.585					0.000	0.000	
24	0.786	0.576	408		0.576					0.000	0.000	
25	0.859	0.575	406		0.575					0.000	0.000	
26	0.807	0.577	670		0.225	0.352				0.352	0.000	
27	0.806	0.752	777			0.632		0.120		0.752	0.000	
28	0.775	0.913	1016			0.696		0.217		0.913	0.000	
29	0.784	0.736	577		0.413	0.323				0.323	0.000	
30	0.795	0.751	529		0.751					0.000	0.000	
31	0.861	0.747	527		0.747					0.000	0.000	
TOTAL	25.582	20.209		0.000	9.443	9.820	0.000	0.946	0.000	10.766	0.000	
AVERAGE	0.825	0.652	648	0.000	0.472	0.517	0.000	0.189	0.000	0.347	0.000	
MAXIMUM	0.907	0.998	1325	0.000	0.751	0.862	0.000	0.278	0.000	0.998	0.000	
MINIMUM	0.775	0.000	0	0.000	0.180	0.000	0.000	0.115	0.000	0.000	0.000	
DAYS	31	30		0	20	18	0	5	0	18	0	
DAYS WITH NO DISCHARGE = 1												

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL

JUNE 2015

Discharge Monitoring				002	002	004	003	006	005			001
	M-INF	M-001		M-003	M-003	M-005	M-004	M-007	M-006			M-002
	DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	0.816	0.308	526		0.308						0.000	0.000
2	0.807	0.000	0	Washed CCB							0.000	0.000
3	0.808	0.489	1189			0.309		0.180			0.489	0.000
4	0.785	0.716	799			0.468		0.248			0.716	0.000
5	0.773	0.903	716		0.555	0.228		0.120			0.348	0.000
6	0.808	1.012	712		1.012						0.000	0.000
7	0.865	1.005	711		1.005						0.000	0.000
8	0.817	0.795	763		0.131	0.534		0.130			0.664	0.000
9	0.792	0.781	805			0.514		0.267			0.781	0.000
10	0.804	0.832	867			0.524		0.308			0.832	0.000
11	0.794	0.783	679			0.508		0.275			0.783	0.000
12	0.810	0.806	762		0.349	0.295		0.162			0.457	0.000
13	0.788	0.358	448		0.358						0.000	0.000
14	0.837	0.000	0	Drained Pond. No discharge							0.000	0.000
15	0.795	0.592	1530			0.592					0.592	0.000
16	0.781	0.850	788			0.850					0.850	0.000
17	0.778	0.833	872			0.652		0.181			0.833	0.000
18	0.763	0.900	806			0.558		0.342			0.900	0.000
19	0.784	0.895	970		0.280	0.383	0.034	0.198			0.615	0.000
20	0.763	0.504	359		0.504						0.000	0.000
21	0.809	0.485	342		0.485						0.000	0.000
22	0.797	0.567	772		0.200	0.217	0.150				0.367	0.000
23	0.785	0.754	927			0.484	0.270				0.754	0.000
24	0.780	0.856	837			0.581	0.275				0.856	0.000
25	0.772	0.753	842			0.625	0.128				0.753	0.000
26	0.763	0.752	706		0.427	0.325					0.325	0.000
27	0.760	0.765	547		0.765						0.000	0.000
28	0.787	0.743	521		0.743						0.000	0.000
29	0.780	0.675	854		0.281	0.215	0.045	0.134			0.394	0.000
30	0.777	0.702	799			0.369		0.333			0.702	0.000
TOTAL	23.778	20.414		0.000	7.403	9.231	0.902	2.878	0.000		13.011	0.000
AVERAGE	0.793	0.680	715	0.000	0.463	0.462	0.129	0.221	0.000		0.434	0.000
MAXIMUM	0.865	1.012	1530	0.000	1.012	0.850	0.275	0.342	0.000		0.900	0.000
MINIMUM	0.760	0.000	0	0.000	0.000	0.215	0.000	0.120	0.000		0.000	0.000
DAYS	30	29		0	15	20	6	13	0		20	0
DAYS WITH NO DISCHARGE = 2												

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY EFFLUENT DISCHARGE DISPOSAL

JULY 2015

Discharge Monitoring				002	002	004	003	006	005			001
	M-INF	M-001		M-003	M-003	M-005	M-004	M-007	M-006			M-002
	DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	0.797	0.700	783			0.425		0.275		0.700	0.000	
2	0.778	0.707	873		0.292	0.233	0.036	0.146		0.415	0.000	
3	0.774	0.532	374		0.532					0.000	0.000	
4	0.755	0.528	373		0.528					0.000	0.000	
5	0.807	0.526	369		0.526					0.000	0.000	
6	0.813	0.582	735		0.199	0.199	0.054	0.130		0.383	0.000	
7	0.795	0.708	737			0.374	0.056	0.278		0.708	0.000	
8	0.801	0.658	726			0.441	0.037	0.180		0.658	0.000	
9	0.779	0.648	733			0.441	0.063	0.144		0.648	0.000	
10	0.768	0.796	644		0.419	0.170	0.045	0.162		0.377	0.000	
11	0.767	0.761	537		0.761					0.000	0.000	
12	0.818	0.748	526		0.748					0.000	0.000	
13	0.795	0.272	522			0.272				0.272	0.000	
14	0.769	0.000	0	Washed CCB						0.000	0.000	
15	0.768	0.492	1253			0.306	0.052	0.134		0.492	0.000	
16	0.773	0.796	810			0.430	0.060	0.306		0.796	0.000	
17	0.757	0.339	533			0.183		0.156		0.339	0.000	
18	0.758	0.000	0	Shut down						0.000	0.000	
19	0.793	0.000	0	Shut down						0.000	0.000	
20	0.787	0.328	1220			0.189		0.139		0.328	0.000	
21	0.768	0.590	723			0.329		0.261		0.590	0.000	
22	0.778	0.624	693			0.361		0.263		0.624	0.000	
23	0.770	0.562	728			0.305		0.257		0.562	0.000	
24	0.774	0.669	723		0.314	0.197		0.158		0.355	0.000	
25	0.763	0.569	402		0.569					0.000	0.000	
26	0.810	0.562	398		0.562					0.000	0.000	
27	0.790	0.493	664		0.215	0.135		0.143		0.278	0.000	
28	0.779	0.606	644			0.299		0.307		0.606	0.000	
29	0.782	0.607	729			0.290		0.317		0.607	0.000	
30	0.768	0.603	667			0.262		0.341		0.603	0.000	
31	0.753	0.706	673		0.309	0.234		0.163		0.397	0.000	
TOTAL	24.187	16.712		0.000	5.974	6.075	0.403	4.260	0.000	10.738	0.000	
AVERAGE	0.780	0.539	606	0.000	0.373	0.289	0.050	0.213	0.000	0.346	0.000	
MAXIMUM	0.818	0.796	1253	0.000	0.761	0.441	0.063	0.341	0.000	0.796	0.000	
MINIMUM	0.753	0.000	0	0.000	0.000	0.135	0.036	0.130	0.000	0.000	0.000	
DAYS	31	28		0	13	21	8	20	0	21	0	
DAYS WITH NO DISCHARGE = 3												

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL

AUGUST 2015

Discharge Monitoring				002	002	004	003	006	005			001
	M-INF	M-001		M-003	M-003	M-005	M-004	M-007	M-006			M-002
	DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	0.754	0.567	402		0.567						0.000	0.000
2	0.797	0.554	392		0.554						0.000	0.000
3	0.778	0.503	684		0.218	0.117	0.168				0.285	0.000
4	0.764	0.660	678			0.255	0.240	0.165			0.660	0.000
5	0.780	0.633	892			0.249	0.136	0.248			0.633	0.000
6	0.771	0.550	557			0.255	0.125	0.170			0.550	0.000
7	0.773	0.743	917		0.318	0.237	0.060	0.128			0.425	0.000
8	0.761	0.579	407		0.579						0.000	0.000
9	0.799	0.578	407		0.578						0.000	0.000
10	0.790	0.630	939		0.220	0.223	0.067	0.120			0.410	0.000
11	0.756	0.872	891			0.528	0.096	0.248			0.872	0.000
12	0.777	0.848	908			0.472	0.132	0.244			0.848	0.000
13	0.785	0.640	973			0.363	0.097	0.180			0.640	0.000
14	0.770	0.798	968		0.402	0.203	0.065	0.128			0.396	0.000
15	0.765	0.729	515		0.729						0.000	0.000
16	0.808	0.723	512		0.723						0.000	0.000
17	0.788	0.268	522		0.228	0.040					0.040	0.000
18	0.771	0.758	1706			0.470	0.168	0.120			0.758	0.000
19	0.771	1.204	1081			0.709	0.246	0.249			1.204	0.000
20	0.761	0.883	1245			0.514	0.189	0.180			0.883	0.000
21	0.767	0.750	1242		0.348	0.296	0.068	0.038			0.402	0.000
22	0.773	0.621	438		0.621						0.000	0.000
23	0.813	0.618	435		0.618						0.000	0.000
24	0.793	0.931	1171		0.228	0.174	0.363	0.166			0.703	0.000
25	0.787	1.129	1116			0.405	0.480	0.244			1.129	0.000
26	0.768	0.865	1176			0.355	0.210	0.300			0.865	0.000
27	0.769	0.878	1175			0.629	0.195	0.054			0.878	0.000
28	0.757	0.803	1232		0.293	0.397	0.075	0.038			0.510	0.000
29	0.815	0.532	376		0.532						0.000	0.000
30	0.851	0.524	371		0.524						0.000	0.000
31	0.806	0.834	1086		0.200	0.353	0.161	0.120			0.634	0.000
TOTAL	24.218	22.205		0.000	8.480	7.244	3.341	3.140	0.000	13.725		0.000
AVERAGE	0.781	0.716	820	0.000	0.446	0.345	0.167	0.165	0.000	0.443		0.000
MAXIMUM	0.851	1.204	1706	0.000	0.729	0.709	0.480	0.300	0.000	1.204		0.000
MINIMUM	0.754	0.268	371	0.000	0.200	0.040	0.060	0.038	0.000	0.000		0.000
DAYS	31	30		0	19	21	20	19	0	20		

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL

SEPTEMBER 2015

Discharge Monitoring	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002	
	DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	0.767	1.046	1114			0.565	0.189	0.292		1.046	0.000	
2	0.769	1.007	1103			0.623	0.106	0.278		1.007	0.000	
3	0.762	1.054	1127			0.601	0.168	0.285		1.054	0.000	
4	0.761	0.865	1161		0.209	0.415	0.068	0.173		0.656	0.000	
5	0.757	0.391	278		0.391					0.000	0.000	
6	0.757	0.393	279		0.393					0.000	0.000	
7	0.846	0.395	281		0.395					0.000	0.000	
8	0.774	0.712	1287		0.152	0.203	0.192	0.165		0.560	0.000	
9	0.778	1.121	1049			0.711	0.126	0.284		1.121	0.000	
10	0.762	0.917	965			0.534	0.096	0.287		0.917	0.000	
11	0.755	0.904	1204		0.302	0.394	0.036	0.172		0.602	0.000	
12	0.781	0.546	387		0.546					0.000	0.000	
13	0.854	0.537	397		0.537					0.000	0.000	
14	0.803	0.777	1087		0.214	0.262	0.144	0.157		0.563	0.000	
15	0.783	1.041	1124			0.581	0.156	0.304		1.041	0.000	
16	0.791	1.080	1097			0.606	0.162	0.312		1.080	0.000	
17	0.803	0.984	1085			0.516	0.159	0.309		0.984	0.000	
18	0.758	0.814	1175		0.233	0.330	0.072	0.179		0.581	0.000	
19	0.770	0.434	311		0.434					0.000	0.000	
20	0.842	0.430	306		0.430					0.000	0.000	
21	0.786	0.222	1064		0.156	0.066				0.066	0.000	
22	0.777	0.562	1571			0.342	0.095	0.125		0.562	0.000	
23	0.773	1.211	1134			0.710	0.193	0.308		1.211	0.000	
24	0.753	1.077	1139			0.576	0.198	0.303		1.077	0.000	
25	0.756	0.921	1002		0.215	0.474	0.060	0.172		0.706	0.000	
26	0.779	0.387	275		0.387					0.000	0.000	
27	0.843	0.384	275		0.384					0.000	0.000	
28	0.782	0.604	871		0.149	0.136	0.155	0.164		0.455	0.000	
29	0.755	0.946	1082			0.641		0.305		0.946	0.000	
30	0.759	0.879	897			0.580		0.299		0.879	0.000	
TOTAL	23.436	22.641		0.000	5.527	9.866	2.375	4.873	0.000	17.114	0.000	
AVERAGE	0.781	0.755	871	0.000	0.325	0.470	0.132	0.244	0.000	0.570	0.000	
MAXIMUM	0.854	1.211	1571	0.000	0.546	0.711	0.198	0.312	0.000	1.211	0.000	
MINIMUM	0.753	0.222	275	0.000	0.149	0.066	0.036	0.125	0.000	0.000	0.000	
DAYS	30	30		0	17	21	18	20	0	21	0	
DAYS WITH NO DISCHARGE = 0												

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL

OCTOBER 2015

Discharge Monitoring	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002	
	DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
	1	0.754	0.930	974			0.669		0.261		0.930	0.000
	2	0.741	0.882	967		0.412	0.322		0.148		0.470	0.000
	3	0.795	0.746	528		0.746					0.000	0.000
	4	0.832	0.738	525		0.738					0.000	0.000
	5	0.793	0.803	1034		0.260	0.292	0.072	0.179		0.543	0.000
	6	0.756	0.907	973			0.568	0.081	0.258		0.907	0.000
	7	0.771	0.832	891			0.572		0.260		0.832	0.000
	8	0.754	0.828	793			0.563		0.265		0.828	0.000
	9	0.740	0.981	786		0.475	0.371		0.135		0.506	0.000
	10	0.776	0.904	633		0.904					0.000	0.000
	11	0.841	0.899	632		0.899					0.000	0.000
	12	0.801	0.891	625		0.891					0.000	0.000
	13	0.769	0.738	821		0.319	0.294		0.125		0.419	0.000
	14	0.771	0.674	720			0.419		0.255		0.674	0.000
	15	0.759	0.578	631			0.321		0.257		0.578	0.000
	16	0.750	0.763	793		0.410	0.216		0.137		0.353	0.000
	17	0.799	0.750	526		0.750					0.000	0.000
	18	0.853	0.741	530		0.741					0.000	0.000
	19	0.789	0.281	552		0.198	0.083				0.083	0.000
	20	0.766	0.420	1554			0.215	0.078	0.127		0.420	0.000
	21	0.764	0.670	689			0.323	0.083	0.264		0.670	0.000
	22	0.753	0.546	677			0.287		0.259		0.546	0.000
	23	0.741	0.754	840		0.411	0.210		0.133		0.343	0.000
	24	0.786	0.741	525		0.741					0.000	0.000
	25	0.857	0.730	519		0.730					0.000	0.000
	26	0.777	0.700	780		0.265	0.187	0.076	0.172		0.435	0.000
	27	0.757	0.665	666			0.322	0.077	0.266		0.665	0.000
	28	0.808	0.660	789			0.391		0.269		0.660	0.000
	29	0.776	0.862	818			0.599		0.263		0.862	0.000
	30	0.755	0.799	776		0.326	0.329		0.143		0.472	0.000
	31	0.808	0.615	436		0.615					0.000	0.000
TOTAL		24.192	23.028		0.000	10.831	7.553	0.467	4.176	0.000	12.196	0.001
AVERAGE		0.780	0.743	742	0.000	0.570	0.360	0.078	0.209	0.000	0.393	0.000
MAXIMUM		0.857	0.981	1554	0.000	0.904	0.669	0.083	0.269	0.000	0.930	0.000
MINIMUM		0.740	0.281	436	0.000	0.198	0.083	0.072	0.125	0.000	0.000	0.000
DAYS		31	31		0	19	21	6	20	0	21	0
DAYS WITH NO DISCHARGE = 0												

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY EFFLUENT DISCHARGE DISPOSAL

NOVEMBER 2015

Discharge Monitoring	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002	
	DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	0.884	0.603	427		0.603					0.000	0.000	
2	0.656	0.634	637		0.204	0.430				0.430	0.000	
3	0.457	0.701	616			0.576		0.125		0.701	0.000	
4	0.683	0.868	860			0.611		0.257		0.868	0.000	
5	0.764	0.956	866			0.692		0.264		0.956	0.000	
6	0.758	0.823	753		0.420	0.263		0.140		0.403	0.000	
7	0.783	0.752	539		0.752					0.000	0.000	
8	0.870	0.745	533		0.745					0.000	0.000	
9	0.813	0.821	780		0.258	0.376	0.058	0.129		0.563	0.000	
10	0.810	0.820	884			0.499	0.061	0.260		0.820	0.000	
11	0.804	1.000	887			0.813		0.187		1.000	0.000	
12	0.756	1.106	1044			0.841		0.265		1.106	0.000	
13	0.743	0.941	746		0.262	0.547		0.132		0.679	0.000	
14	0.799	0.465	336		0.465					0.000	0.000	
15	0.934	0.464	349		0.464					0.000	0.000	
16	0.819	0.209	355			0.209				0.209	0.000	
17	0.798	0.251	1160			0.251				0.251	0.000	
18	0.833	0.722	807			0.593		0.129		0.722	0.000	
19	0.813	1.021	811			0.759		0.262		1.021	0.000	
20	0.806	0.944	810		0.433	0.376		0.135		0.511	0.000	
21	0.820	0.786	555		0.786					0.000	0.000	
22	0.854	0.784	556		0.784					0.000	0.000	
23	0.806	1.018	935		0.283	0.735				0.735	0.000	
24	0.855	1.352	961			1.352				1.352	0.000	
25	0.833	1.081	966		0.441	0.640				0.640	0.000	
26	0.841	0.788	566		0.788					0.000	0.000	
27	0.769	0.784	564		0.784					0.000	0.000	
28	0.799	0.783	562		0.783					0.000	0.000	
29	0.857	0.782	559		0.782					0.000	0.000	
30	0.807	1.204	1081		0.285	0.919				0.919	0.000	
TOTAL	23.824	24.208		0.000	10.322	11.482	0.119	2.285	0.000	13.886	0.000	
AVERAGE	0.794	0.807	717	0.000	0.543	0.604	0.060	0.190	0.000	0.000	0.000	
MAXIMUM	0.934	1.352	1160	0.000	0.788	1.352	0.061	0.265	0.000	1.352	0.000	
MINIMUM	0.457	0.209	336	0.000	0.204	0.209	0.058	0.125	0.000	0.000	0.000	
DAYS	30	30		0	19	19	2	12	0	14	0.000	
DAYS WITH NO DISCHARGE = 0												

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL

DECEMBER 2015

Discharge Monitoring				002	002	004	003	006	005			001
	M-INF	M-001		M-003	M-003	M-005	M-004	M-007	M-006			M-002
	DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	0.775	1.542	1082			1.542				1.542	0.000	
2	0.792	1.524	1206			1.524				1.524	0.000	
3	0.850	1.477	1038			1.477				1.477	0.000	
4	0.836	1.132	1030		0.424	0.708				0.708	0.000	
5	0.837	0.756	533		0.756					0.000	0.000	
6	0.896	0.738	519		0.738					0.000	0.000	
7	0.821	0.992	848		0.296					0.000	0.696	
8	0.810	0.954	842							0.000	0.954	
9	0.968	0.834	655							0.000	0.834	
10	0.961	0.849	726							0.000	0.849	
11	1.089	1.203	1091							0.000	1.203	
12	1.094	1.552	1089							0.000	1.552	
13	1.525	1.643	1224							0.000	1.643	
14	1.230	1.695	1240							0.000	1.695	
15	1.088	1.664	1179							0.000	1.664	
16	1.021	1.663	1176							0.000	1.663	
17	1.045	1.291	1161							0.000	1.291	
18	1.345	1.575	1540							0.000	1.575	
19	1.332	2.186	1538							0.000	2.186	
20	1.270	2.028	1540							0.000	2.028	
21	1.411	1.895	1423							0.000	1.895	
22	1.389	1.904	1389							0.000	1.904	
23	1.322	2.060	1500							0.000	2.060	
24	1.467	2.106	1479							0.000	2.106	
25	1.406	2.111	1492							0.000	2.111	
26	1.267	2.133	1504							0.000	2.133	
27	1.254	2.137	1497							0.000	2.137	
28	1.259	1.631	1491							0.000	1.631	
29	1.177	1.043	758							0.000	1.043	
30	1.219	1.291	1176							0.000	1.291	
31	1.129	1.459	1141							0.000	1.459	
TOTAL	34.885	47.068		0.000	2.214	5.251	0.000	0.000	0.000	5.251	39.603	
AVERAGE	1.125	1.518	1165	0.000	0.554	1.313	0.000	0.000	0.000	0.169	1.278	
MAXIMUM	1.525	2.186	1540	0.000	0.756	1.542	0.000	0.000	0.000	1.542	2.186	
MINIMUM	0.775	0.738	519	0.000	0.296	0.708	0.000	0.000	0.000	0.000	0.000	
DAYS	31	31		0	4	4	0	0	0	4	25	
DAYS WITH NO DISCHARGE = 0												

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: JANUARY

YEAR: 2015

DATE	INFLUENT FLOW	EFFLUENT FLOW	EFFLUENT MAXIMUM	RIVER	INFLUENT MONITORING		(C°)		B.O.D.	NFR	EFFLUENT MONITORING				3X5
	M.G.D.	M.G.D.	GPM	CFS	B.O.D.	N.F.R.	pH	TEMP	mg/L	mg/L	AMMONIA	CL ₂ RES.	RIVER CL ₂ RES	SETTLEABLE SOLIDS	TOTAL COLIFORM
1	1.062	1.871	1310	1090			7.6	10.4				1.9	0.00		
2	1.042	1.517	1302	979			7.6	9.8			30.0	2.1	0.00	<0.1	
3	1.047	1.070	755	901			7.7	9.9				1.5	0.00		
4	1.089	1.066	918	840			7.4	10.2				2.9	0.00		
5	1.011	1.047	737	783			7.1	11.1			26.0	3.3	0.00		<1.8
6	0.977	1.045	738	746			7.3	9.7			32.0	2.8	0.00		
7	0.965	1.041	735	642			7.1	10.4			32.0	2.9	0.00		
8	0.948	1.041	735	594			7.1	10.7			32.0	2.8	0.00		
9	0.936	1.040	734	569	210	190	7.2	10.5	11	11	36.0	1.8	0.00	<0.1	
10	0.974	1.039	731	534			7.1	12.0				1.0	0.00		
11	1.027	1.048	734	436			7.2	12.9				0.4	0.00		
12	0.953	0.510	730	383			6.8	12.9			32.0	0.6	0.00		4.5
13	0.926	0.150	1406	361			7.1	12.3			30.0	1.1	0.00		
14	0.926	0.572	658	343			7.1	11.3			28.0	1.0	0.00		
15	0.910	0.915	647	326			7.1	12.5			30.0	0.8	0.00		
16	0.950	1.013	816	376	310	290	7.2	11.7	13	14	36.0	2.2	0.00	<0.1	
17	0.980	1.159	813	722			7.1	12.4				1.7	0.00		
18	1.247	1.138	806	2670			7.0	12.7				1.5	0.00		
19	1.144	1.137	807	2270			7.0	13.0			26.0	4.0	0.00		<1.8
20	1.038	1.147	817	1390			7.0	12.9			30.0	4.5	0.00		
21	1.011	1.145	821	1090			7.2	12.8			30.0	2.6	0.00		
22	0.981	1.136	802	994			7.1	12.1			30.0	2.2	0.00		
23	0.949	1.139	810	874	280	280	7.1	11.4	12	8.6	32.0	2.4	0.00	<0.1	
24	1.002	1.139	802	795			7.1	11.8				2.6	0.00		
25	1.042	1.141	804	734			7.2	11.8				2.4	0.00		
26	0.982	1.143	804	687			7.0	12.4			32.0	2.0	0.00		<1.8
27	0.935	1.143	801	648			7.1	12.5			28.0	1.4	0.00		
28	0.928	1.141	803	554			6.9	11.8			34.0	1.2	0.00		
29	0.926	1.143	807	492			7.1	12.2			32.0	1.7	0.00		
30	0.896	1.137	807	411	260	200	6.9	12.0	13	5.8	30.0	1.3	0.00	<0.1	
31	0.949	1.147	811	383			7.1	11.8				2.1	0.00		

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
1/31/2015	230	56.0	ND	210

Semi-Annual Tests	Value in ug/l
Bis phthalate	DNQ
alph-BHC	ND
4,4' -DDT	ND
carbon tetrachloride	ND

Quarterly Tests	Value in ug/l
Dichlorobromomethane	DNQ
Bromoform	ND
Chlorodibromomethane	ND
Chloroform	0.64

SPILLS:						
None to report						
	BOD	BOD	BOD	NFR	NFR	NFR
	mg/L	LBS/DAY	% Removal	mg/L	LBS/DAY	% Removal
30 DAY AVERAGE	12	111	95	10	88	96

ACUTE TOXICITY	
DATE	% Survival
Rainbow Trout 1/6/2015	100%
C. dubia 1/27/2015	90%

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	1.3
C. Dubia	1.3
Algae	1
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
4.5

SIGNATURE: _____

REMARKS: There was an exceedance on the Chronic Toxicity testing.

Indicates Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: FEBRUARY

YEAR: 2015

DATE	INFLUENT FLOW	EFFLUENT FLOW	EFFLUENT MAXIMUM	RIVER CFS	INFLUENT MONITORING		EFFLUENT MONITORING									3X5
	M.G.D.	M.G.D.	GPM		B.O.D. mg/L	N.F.R. mg/L	pH	(C°) TEMP	B.O.D. mg/L	NFR mg/L	AMMONIA	CL₂ RES.	RIVER CL₂ RES	SETTLEABLE SOLIDS	TOTAL COLIFORM	
1	0.986	1.140	802	354			6.9	12.4				1.3	0.00			
2	1.096	1.133	799	411			7.0	12.4			34	0.3	0.00		<1.8	
3	1.055	1.129	787	2190			6.9	13.1			32	1.0	0.00			
4	1.016	1.129	793	1220			6.9	13.3			36	0.1	0.00			
5	1.062	1.132	799	1020			6.8	13.8			36	1.6	0.00			
6	1.330	1.282	1037	3530	280	240	6.9	14.1	14	7.6	34	0.7	0.00	<0.1		
7	1.300	1.448	1021	20200			7.0	14.5				2.4	0.00			
8	1.251	1.483	1049	10400			6.9	14.9				0.6	0.00			
9	1.181	0.681	1062	7480			6.5	14.5			32	1.3	0.00		<1.8	
10	1.113	0.000	0	8330	Washed CCB											
11	1.088	0.993	1338	6010			6.8	12.9			36	0.5	0.00			
12	1.060	1.431	1008	3970			6.7	13			36	3.1	0.00			
13	1.035	1.423	998	3040	240	210	6.8	13	14	8.8	36	5.0	0.00	<0.1		
14	1.053	1.410	989	2380			7.0	12.9				2.4	0.00			
15	1.057	1.415	1002	1940			6.9	13.3				3.0	0.00			
16	1.033	1.414	995	1670			6.7	12.9				2.6	0.00			
17	0.966	1.412	992	1430			6.8	13.1			36	2.2	0.00		<1.8	
18	0.968	1.406	988	1260			6.9	14.0			30	1.7	0.00			
19	0.950	1.403	986	1120			6.9	13.3			32	0.9	0.00			
20	0.931	1.398	995	1030	330	520	6.8	13.3	15	9.2	36	1.2	0.00	<0.1		
21	0.959	1.395	998	901			6.8	13.2				0.8	0.00			
22	1.025	1.390	990	840			6.8	13.0				1.4	0.00			
23	0.947	1.265	985	795			6.7	12.5			36	4.0	0.00		<1.8	
24	0.902	1.143	842	752			6.9	12.3			30	5.4	0.00			
25	0.914	1.105	778	758			6.8	11.8			32	3.5	0.00			
26	0.929	1.104	775	758			6.8	12.2			32	2.0	0.00			
27	0.941	1.098	773	693	320	260	6.9	12.6	13	6.4	32	3.2	0.00	<0.1		
28	0.969	1.096	777	710			7.1	13.2				1.9	0.00			

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
2/28/2014	250	34.0	ND	210

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	N/A
Bromoform	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

SPILLS:						
None to report						
BOD	BOD	BOD	NFR	NFR	NFR	
mg/L	LBS/DAY	% Removal	mg/L	LBS/DAY	% Removal	
14	152	95	8	88	97	

30 DAY AVERAGE

ACUTE TOXICITY	
DATE	% Survival
2/4/2015	100%
2/4/2015	100%

Rainbow Trout
C. dubia

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS:

 Indicates Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: MARCH

YEAR: 2015

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		(C°)		B.O.D.	NFR	EFFLUENT MONITORING				3X5 TOTAL COLIFORM
					B.O.D. mg/L	N.F.R. mg/L	pH	TEMP	mg/L	mg/L	AMMONIA	CL ₂ RES.	RIVER CL ₂ RES	SETTLABLE SOLIDS	
1	1.010	1.093	781	605			7.1	12.8				0.6	0.00		
2	0.941	1.088	768	559			7.1	12.9			28	1.0	0.00		<1.8
3	0.903	1.094	781	457			6.9	12.4			36	0.9	0.00		
4	0.902	0.983	779	383			6.8	12.5			32	2.4	0.00		
5	0.889	0.861	614	365			7	12.8			30	4	0.00		
6	0.864	0.862	614	339	320	250	6.8	12.6	11	6.2	32	1.5	0.00	<0.1	
7	0.906	0.866	616	329			7.1	13.0				0.7	0.00		
8	0.959	0.870	617	315			7.0	13.4				0.8	0.00		
9	0.906	0.340	612	296			6.9	13.0			32	2.9	0.00		<1.8
10	0.900	0.000	0	286			Washed CCB								
11	0.871	0.613	671	283			6.8	13.5			34	1.0	0.00		
12	0.885	0.922	655	280			6.7	13.2			36	0.9	0.00		
13	0.868	0.914	647	259	350	230	6.7	13.6	20	10	32	6.5	0.00	<0.1	
14	0.886	0.868	641	253			6.8	13.9				2.4	0.00		
15	0.975	0.913	647	247			7.0	14.6				2.2	0.00		
16	0.919	0.911	647	319			6.9	14.5			28	2.2	0.00		<1.8
17	0.877	0.905	645	293			6.8	14.1			32	2.0	0.00		
18	0.862	0.895	647	262			6.8	13.5			32	2.4	0.00		
19	0.863	0.886	631	242			6.9	13.9			34	1.7	0.00		
20	0.858	0.879	625	324	290	310	6.8	13.9	16	6.8	36	1.5	0.00	<0.1	
21	0.912	0.874	628	334			7.0	14.4				1.8	0.00		
22	1.025	0.867	614	343			6.9	15.0				2.5	0.00		
23	1.017	0.870	620	556			6.9	14.4			30	3.5	0.00		<1.8
24	0.962	1.136	919	2010			6.9	14.6			32	4.0	0.00		
25	0.976	1.309	926	2130			6.9	14.3			36	2.6	0.00		
26	0.981	1.308	916	1200			6.9	14.9			36	1.9	0.00		
27	0.960	1.308	919	823	340	310	6.8	15.0	15	11	34	1.5	0.00	<0.1	
28	0.977	1.307	921	626			6.9	14.9				0.8	0.00		
29	1.021	1.295	918	523			6.9	15.1				0.2	0.00		
30	0.960	1.282	904	471			6.8	15.3			34	1.6	0.00		4.5
31	0.950	1.287	973	452			6.8	15.5			32	1.5	0.00		

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
3/31/2015	240	25.0	ND	190

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	N/A
Bromoform	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

SPILLS:						
None to report						
BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal	
16	128	95	8	73	97	

ACUTE TOXICITY	
DATE	% Survival
3/3/2015	100%
3/3/2015	40%
3/18/2015	100%

Rainbow Trout
C. dubia

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly MEDIAN
<1.8
Daily Maximum
4.5

SIGNATURE: _____

REMARKS:

 Indicates Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: APRIL

YEAR: 2015

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING						EFFLUENT MONITORING					3X5 TOTAL COLIFORM
					B.O.D. mg/L	N.F.R. mg/L	pH	(C°) TEMP	B.O.D. mg/L	NFR mg/L	AMMONIA	CL ₂ RES.	RIVER CL ₂ RES	SETTLABLE SOLIDS		
1	0.923	1.056	923	448			7.3	15.7			32	3.5	0.00			
2	0.920	0.896	637	416			7.1	14.5			36	2.3	0.00			
3	0.900	0.898	636	397	400	360	6.9	14.3	11	12	40	3.4	0.00	<0.1		
4	0.921	0.898	649	376			6.8	14.2				4.0	0.00			
5	0.967	0.903	647	374			6.9	14.3				2.6	0.00			
6	0.959	0.550	668	418			6.9	16.1			34	4.2	0.00			<1.8
7	1.078	0.000	0	964	Washed CCB											
8	0.966	0.774	878	1370			6.8	13.8			32	2.7	0.00			
9	0.949	1.126	822	972			6.8	13.6			34	3.7	0.00			
10	0.923	1.082	759	768	300	320	6.8	14.3	10	7.2	32	8.0	0.00	<0.1		
11	0.933	1.084	765	641			7.0	14.8				2.7	0.00			
12	1.006	1.083	768	621			7.0	14.1				2.1	0.00			
13	0.956	1.080	765	548			6.9	14.0			34	0.9	0.00			<1.8
14	0.942	1.081	772	621			6.9	13.9			34	3.2	0.00			
15	0.929	1.067	762	539			6.9	13.9			34	1.9	0.00			
16	0.909	1.059	755	479			7.0	14.2			32	1.0	0.00			
17	0.887	1.063	751	446	260	280	6.9	14.8	12	8	36	1.7	0.00	<0.1		
18	0.896	1.060	753	418			6.8	15.3				2.4	0.00			
19	0.955	1.058	755	392			6.9	16.0				2.6	0.00			
20	0.905	1.056	745	374			6.9	15.6			36	2.2	0.00			2
21	0.879	1.052	747	356			7.0	15.5			34	2.5	0.00			
22	0.876	1.034	734	353			6.9	15.2			34	0.5	0.00			
23	0.886	1.012	726	341			6.9	15.0			34	2.2	0.00			
24	0.866	0.793	590	331	280	520	7.0	15.2	13	16	36	8.7	0.00	<0.1		
25	0.868	0.866	619	329			6.8	15.2				3.7	0.00			
26	0.917	0.876	621	336			7.0	15.4				4.0	0.00			
27	0.873	0.883	625	317			6.9	15.5			38	0.1	0.00			
28	0.845	0.887	628	300			6.9	16.1			36	0.3	0.00			<1.8
29	0.841	0.885	626	273			6.9	16.3			32	1.4	0.00			
30	0.839	0.733	628	247			6.8	15.9			32	0.8	0.00			

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
4/30/2015	240	35.0	ND	210

Semi-Annual Tests		Value in ug/l
Bis phthalate		N/A
alph-BHC		N/A
4,4' -DDT		N/A
carbon tetrachloride		N/A

Quarterly Tests		Value in ug/l
Dichlorobromomethane		DNQ
Bromoform		DNQ
Chlorodibromomethane		ND
Chloroform		0.89

SPILLS:						
None to report						
30 DAY AVERAGE						
BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal	
12	91	96	11	83	97	

ACUTE TOXICITY	
DATE	% Survival
Rainbow Trout C. dubia	4/6/2015 95%
	4/6/2015 90%

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
2

SIGNATURE: _____

REMARKS:

 Indicates Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: MAY

YEAR: 2015

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		EFFLUENT MONITORING									3X5 TOTAL COLIFORM
					B.O.D. mg/L	N.F.R. mg/L	pH	(C°) TEMP	B.O.D. mg/L	NFR mg/L	AMMONIA	CL ₂ RES.	RIVER CL ₂ RES	SETTLABLE SOLIDS		
1	0.824	0.634	453		340	290	6.9	15.7	16	14	36	4.0		<0.1		
2	0.849	0.638	451													
3	0.907	0.637	451													
4	0.843	0.652	1325				6.7	15.7			32	3.8				<1.8
5	0.816	0.662	591				6.7	16.0			32	4.1				
6	0.847	0.695	600				6.5	15.9			24	3.5				
7	0.825	0.712	637				6.8	15.6			34	4.1				
8	0.800	0.664	644		440	440	6.8	15.6	15	12	36	4.2		<0.1		
9	0.841	0.445	316													
10	0.867	0.436	311													
11	0.840	0.280	1132				6.8	16.0			36	4.8				<1.8
12	0.827	0.000	0				Washed CCB									
13	0.839	0.486	1231				6.8	15.9			34	4.7				
14	0.825	0.862	858				6.6	16.1			32	3.7				
15	0.803	0.856	723		290	240	6.7	16.5	18	9.2	34	6.7		<0.1		
16	0.848	0.628	452													
17	0.885	0.590	421													
18	0.825	0.755	889				7.1	17.6			34	5.0				<1.8
19	0.807	0.998	897				6.8	17.4			36	3.6				
20	0.799	0.899	897				7.1	17.6			36	4.7				
21	0.801	0.776	851				7.1	17.5			34	4.2				
22	0.799	0.692	623		270	200	6.9	17.8	31	33	34	3.1		<0.1		
23	0.792	0.585	419													
24	0.786	0.576	408													
25	0.859	0.575	406													
26	0.807	0.577	670				6.8	17.4			34	3.1				<1.8
27	0.806	0.752	777				6.9	17.4			34	2.9				
28	0.775	0.913	1016				7.0	17.5			36	2.2				
29	0.784	0.736	577		250	180	6.9	17.6	34	43	36	4.8		<0.1		
30	0.795	0.751	529													
31	0.861	0.747	527													

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
5/31/2015	260	35.0	ND	210

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	N/A
Bromoform	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

SPILLS:						
None to report						
	BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal
30 DAY AVERAGE	23	137	92	22	132	90

ACUTE TOXICITY	
DATE	% Survival
Rainbow Trout	N/A
C. dubia	N/A

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS:

 Indicates Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: JUNE

YEAR: 2015

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		(C°)		B.O.D.	NFR	EFFLUENT MONITORING				3X5 TOTAL COLIFORM
					B.O.D. mg/L	N.F.R. mg/L	pH	TEMP	mg/L	mg/L	AMMONIA	CL ₂ RES.	RIVER CL ₂ RES	SETTLABLE SOLIDS	
1	0.816	0.308	526				6.9	17.5			36	3.8			<1.8
2	0.807	0.000	0				Washed CCB								
3	0.808	0.489	1189				7.0	17.8			34	8.9			
4	0.785	0.716	799				6.9	17.8			36	0.1			
5	0.773	0.903	716		330	300	6.8	18.1	38	47	32	3.9		<0.1	
6	0.808	1.012	712												
7	0.865	1.005	711												
8	0.817	0.795	763				7.0	18.5			32	7.3			<1.8
9	0.792	0.781	805				6.9	19.3			38	2.7			
10	0.804	0.832	867				7.0	19.2			30	2.8			
11	0.794	0.783	679				7.0	19.0			36	9.2			
12	0.810	0.806	762		360	240	7.1	19.5	45	51	32	6.1		<0.1	
13	0.788	0.358	448												
14	0.837	0.000	0		No discharge. Drained Pond										
15	0.795	0.592	1530				7.0	18.6			32	10.1			
16	0.781	0.850	788				7.1	19.0			38	8.3			<1.8
17	0.778	0.833	872				7.2	18.6			32	4.9			
18	0.763	0.900	806				7.2	18.5			34	5.1			
19	0.784	0.895	970		290	330	7.2	18.8	38	45	32	4.8		<0.1	
20	0.763	0.504	359												
21	0.809	0.485	342												
22	0.797	0.567	772				7.3	19.4			34	3.5			<1.8
23	0.785	0.754	927				7.3	18.1			36	3.7			
24	0.780	0.856	837				6.7	17.2			36	6.9			
25	0.772	0.753	842				6.8	18.3			34	3.5			
26	0.763	0.752	706		340	220	6.8	18.9	31	20	32	4.6		<0.1	
27	0.760	0.765	547												
28	0.787	0.743	521												
29	0.780	0.675	854				6.8	19.8			36	2.4			<1.8
30	0.777	0.702	799				6.8	19.4			34	1.8			

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
6/30/2015	300	35.0	ND	250

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	N/A
Bromoform	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

SPILLS:						
None to report						
50 gallon sewer spill reported on CIWQS and OES. Complete spill was recovered						
BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal	
36	248	89	41	290	85	30 DAY AVERAGE

ACUTE TOXICITY	
DATE	% Survival
Rainbow Trout	N/A
C. dubia	N/A
	N/A

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS:

 Indicates Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: JULY

YEAR: 2015

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		EFFLUENT MONITORING									3X5 TOTAL COLIFORM
					B.O.D. mg/L	N.F.R. mg/L	pH	(C°) TEMP	B.O.D. mg/L	NFR mg/L	AMMONIA	CL ₂ RES.	RIVER CL ₂ RES	SETTLABLE SOLIDS		
1	0.797	0.700	783				6.8	19.4			36	2.6				
2	0.778	0.707	873		260	200	6.7	19.5	26	17	36	3.1		<0.1		
3	0.774	0.532	374													
4	0.755	0.528	373													
5	0.807	0.526	369													
6	0.813	0.582	735				6.9	19.3			36	3.2				<1.8
7	0.795	0.708	737				6.8	19.3			36	3.7				
8	0.801	0.658	726				6.9	19.3			34	3.6				
9	0.779	0.648	733				6.8	19.4			36	3.6				
10	0.768	0.796	644		590	320	6.6	19.6	42	6.4	32	4.7		<0.1		
11	0.767	0.761	537													
12	0.818	0.748	526													
13	0.795	0.272	522				6.8	19.7			32	4.9				<1.8
14	0.769	0.000	0				Washed CCB									
15	0.768	0.492	1253				6.9	19.6			36	8.2				
16	0.773	0.796	810				6.9	19.5			34	5.4				
17	0.757	0.339	533		280	230	6.8	19.7	21	11	36	5.9		<0.1		
18	0.758	0.000	0													
19	0.793	0.000	0													
20	0.787	0.328	1220				7.1	20.7			32	7.2				
21	0.768	0.590	723				6.9	19.0			36	7.6				<1.8
22	0.778	0.624	693				6.9	19.0			34	5.2				
23	0.770	0.562	728				6.9	19.6			34	4.8				
24	0.774	0.669	723		320	240	6.9	19.4	21	14	32	3.8		<0.1		
25	0.763	0.569	402													
26	0.810	0.562	398													
27	0.790	0.493	664				6.8	20.5			32	3.4				<1.8
28	0.779	0.606	644				7.0	19.9			32	2.5				
29	0.782	0.607	729				6.8	20.0			32	1.8				
30	0.768	0.603	667				6.9	19.9			32	2.1				
31	0.753	0.706	673		240	260	6.7	19.5	18	13	32	4.7		<0.1		

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
7/31/2015	320	27.0	ND	250

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	ND
Bromoform	ND
Chlorodibromomethane	ND
Chloroform	DNQ

SPILLS:						
None to report						
	BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal
30 DAY AVERAGE	28	152	93	10	51	96

ACUTE TOXICITY	
DATE	% Survival
Rainbow Trout	N/A
C. dubia	N/A
	N/A

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS:

 Indicates Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: AUGUST

YEAR: 2015

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		(C°)		B.O.D.	NFR	EFFLUENT MONITORING		RIVER	SETTLABLE	3X5
					B.O.D. mg/L	N.F.R. mg/L	pH	TEMP	mg/L	mg/L	AMMONIA	CL ₂ RES.	CL ₂ RES	SOLIDS	TOTAL COLIFORM
1	0.754	0.567	402												
2	0.797	0.554	392												
3	0.778	0.503	684				6.8	20.4			32	5.1			<1.8
4	0.764	0.660	678				6.9	20.4			34	2.6			
5	0.780	0.633	892				6.8	20.3			34	3.5			
6	0.771	0.550	557				6.9	19.5			32	3.3			
7	0.773	0.743	917		280	280	6.8	19.8	17	9.2	32	3.1		<0.1	
8	0.761	0.579	407												
9	0.799	0.578	407												
10	0.790	0.630	939				7.0	19.5			36	5.1			<1.8
11	0.756	0.872	891				7.0	19.9			32	2.0			
12	0.777	0.848	908				7.0	20.1			36	3.7			
13	0.785	0.640	973				7.0	20.0			34	4.0			
14	0.770	0.798	968		380	170	6.9	20.4	29	16	32	4.0		<0.1	
15	0.765	0.729	515												
16	0.808	0.723	512												
17	0.788	0.268	522				7.0	19.7			36	4.8			<1.8
18	0.771	0.758	1706				7.0	18.8			30	10.0			
19	0.771	1.204	1081				7.0	19.1			34	1.7			
20	0.761	0.883	1245				6.9	19.4			32	7.5			
21	0.767	0.750	1242		300	250	6.9	19.0	20	14	34	4.8		<0.1	
22	0.773	0.621	438												
23	0.813	0.618	435												
24	0.793	0.931	1171				6.9	19.0			32	4.2			<1.8
25	0.787	1.129	1116				7.1	19.0			36	3.8			
26	0.768	0.865	1176				7.0	18.8			36	5.7			
27	0.769	0.878	1175				7.0	18.6			34	2.7			
28	0.757	0.803	1232		340	340	7.1	19.3	16	15	34	2.9		<.01	
29	0.815	0.532	376												
30	0.851	0.524	371												
31	0.806	0.834	1086				7.0	19.6			34	1.2			<1.8

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
8/31/2015	320	39.0	ND	250

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	N/A
Bromoform	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

SPILLS:						
None to report						
	BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal
30 DAY AVERAGE	21	133	94	14	88	94

ACUTE TOXICITY	
DATE	% Survival
Rainbow Trout	N/A
C. dubia	N/A
	N/A

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS:

 Indicates Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: SEPTEMBER

YEAR: 2015

DATE	INFLUENT FLOW	EFFLUENT FLOW	EFFLUENT MAXIMUM	RIVER CFS	INFLUENT MONITORING		(C°)		B.O.D.	NFR	EFFLUENT MONITORING				3X5 TOTAL COLIFORM
	M.G.D.	M.G.D.	GPM		B.O.D. mg/L	N.F.R. mg/L					AMMONIA	CL ₂ RES.	RIVER CL ₂ RES	SETTLABLE SOLIDS	
1	0.767	1.046	1114				6.9	19.6			34	2.7			
2	0.769	1.007	1103				7.0	19.8			36	3.8			
3	0.762	1.054	1127				7.0	19.4			36	4.1			
4	0.761	0.865	1161		400	340	6.9	19.5	24	10	40	4.9		<0.1	
5	0.757	0.391	278												
6	0.757	0.393	279												
7	0.846	0.395	281												
8	0.774	0.712	1287				7.0	19.0			36	5.6			<1.8
9	0.778	1.121	1049				7.1	18.7			34	5.4			
10	0.762	0.917	965				7.1	18.4			32	5.6			
11	0.755	0.904	1204		250	230	7.0	18.8	23	9.6	32	5.6		<0.1	
12	0.781	0.546	387												
13	0.854	0.537	397												
14	0.803	0.777	1087				7.1	18.6			32	5.3			<1.8
15	0.783	1.041	1124				7.0	17.7			32	4.8			
16	0.791	1.080	1097				7.1	17.7			34	6.0			
17	0.803	0.984	1085				7.3	17.9			38	4.9			
18	0.758	0.814	1175		220	240	7.2	17.6	17	20	34	4.4		<0.1	
19	0.770	0.434	311												
20	0.842	0.430	306												
21	0.786	0.222	1064				7.2	17.7			36	2.4			<1.8
22	0.777	0.562	1571				7.3	17.3			26	0.9			
23	0.773	1.211	1134				7.1	17.2			32	2.1			
24	0.753	1.077	1139				7.1	17.3			32	6.1			
25	0.756	0.921	1002		260	250	7.2	17.1	24	12	34	5.6		<0.1	
26	0.779	0.387	275												
27	0.843	0.384	275												
28	0.782	0.604	871				7.1	16.8			32	4.4			<1.8
29	0.755	0.946	1082				7.0	17.0			32	2.3			
30	0.759	0.879	897				7.1	17.2			34	3.7			

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
9/30/2015	310	45.0	ND	290

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	N/A
Bromoform	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

SPILLS:						
None to report						
BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal	
22	162	92	13	93	95	

30 DAY AVERAGE

ACUTE TOXICITY	
DATE	% Survival
Rainbow Trout	N/A
C. dubia	N/A

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS:

 Indicates Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: OCTOBER

YEAR: 2015

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		(C°)		B.O.D.	NFR	EFFLUENT MONITORING		RIVER	SETTLABLE	3X5
					B.O.D. mg/L	N.F.R. mg/L	pH	TEMP	mg/L	mg/L	AMMONIA	CL ₂ RES.	CL ₂ RES	SOLIDS	TOTAL COLIFORM
1	0.754	0.930	974				7.1	17			34	3.7			
2	0.741	0.882	967		220	270	7.1	17.4	13	18	32	3.3		<0.1	
3	0.795	0.746	528												
4	0.832	0.738	525												
5	0.793	0.803	1034				7.3	16.8			36	3.6			<1.8
6	0.756	0.907	973				6.8	17.1			34	2.8			
7	0.771	0.832	891				7.1	17.0			34	3.1			
8	0.754	0.828	793				7.1	16.8			30	2.9			
9	0.740	0.981	786		270	230	7.1	17.2	28	19	34	2.8		<0.1	
10	0.776	0.904	633												
11	0.841	0.899	632												
12	0.801	0.891	625												
13	0.769	0.738	821				7.1	17			30	3.5			<1.8
14	0.771	0.674	720				7.1	16.8			30	2.6			
15	0.759	0.578	631				7.1	17.1			30	1.9			
16	0.750	0.763	793		190	220	7.0	17.0	18	34	32	2.7		<0.1	
17	0.799	0.750	526												
18	0.853	0.741	530												
19	0.789	0.281	552				7.1	17.5			36	0.8			<1.8
20	0.766	0.420	1554				6.9	17.5			34	8.7			
21	0.764	0.670	689				7.1	16.8			32	0.2			
22	0.753	0.546	677				7.0	16.6			28	2.8			
23	0.741	0.754	840		240	260	7.1	16.3	26	18	32	3.1		<0.1	
24	0.786	0.741	525												
25	0.857	0.730	519												
26	0.777	0.700	780				6.9	16.4			32	3.7			<1.8
27	0.757	0.665	666				6.9	16.3			34	3.3			
28	0.808	0.660	789				7.0	16.7			30	3.4			
29	0.776	0.862	818				6.9	16.1			34	3.7			
30	0.755	0.799	776		270	210	7.1	15.8	17	12	32	3.2		<0.1	
31	0.808	0.615	436												

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
10/31/2015	320	39.0	ND	310

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	DNQ
Bromoform	ND
Chlorodibromomethane	ND
Chloroform	1.24

SPILLS:						
None to report						
BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal	
20	143	91	20	139	91	

30 DAY AVERAGE

ACUTE TOXICITY	
DATE	% Survival
	N/A
	N/A

Rainbow Trout
C. dubia

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS:

 Indicates Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: NOVEMBER

YEAR: 2015

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		(C°)		B.O.D.	NFR	EFFLUENT MONITORING		RIVER	SETTLABLE	3X5
					B.O.D. mg/L	N.F.R. mg/L	pH	TEMP	mg/L	mg/L	AMMONIA	CL ₂ RES.	CL ₂ RES	SOLIDS	TOTAL COLIFORM
1	0.884	0.603	427												
2	0.656	0.634	637				7.0	16.4			32	2.3			<1.8
3	0.457	0.701	616				7.1	15.3			34	2.8			
4	0.683	0.868	860				7.0	14.7			34	2.2			
5	0.764	0.956	866				7.0	14.5			32	5.2			
6	0.758	0.823	753		240	220	7.0	14.2	21	15	32	5.2		<0.1	
7	0.783	0.752	539												
8	0.870	0.745	533												
9	0.813	0.821	780				7.0	14.0			32	7.4			<1.8
10	0.810	0.820	884				7.2	13.1			34	5.9			
11	0.804	1.000	887				7.1	12.8				5.6			
12	0.756	1.106	1044				7.2	13.0			32	6.2			
13	0.743	0.941	746		300	240	7.0	12.8	24	12	34	8.7		<.01	
14	0.799	0.465	336												
15	0.934	0.464	349												
16	0.819	0.209	355				7.1	11.8			32	4.0			<1.8
17	0.798	0.251	1160				7.1	13.9			30	6.0			
18	0.833	0.722	807				7.1	13.5			34	0.2			
19	0.813	1.021	811				7.2	13.0			36	8.1			
20	0.806	0.944	810		330	250	7.2	13.3	34	13	32	7.2		<.01	
21	0.820	0.786	555												
22	0.854	0.784	556												
23	0.806	1.018	935				7.4	13.2			36	6.0			<1.8
24	0.855	1.352	961		270	240	7.3	13.0	20	13	34	8.1			
25	0.833	1.081	966				7.3	11.8			34	6.2		<.01	
26	0.841	0.788	566												
27	0.769	0.784	564												
28	0.799	0.783	562												
29	0.857	0.782	559												
30	0.807	1.204	1081				7.1	10.8			34	7.4			

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
11/30/2015	340	34.0	ND	280

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	N/A
Bromoform	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

SPILLS:						
None to report						
BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal	
25	206	91	13	112	94	

30 DAY AVERAGE

ACUTE TOXICITY	
DATE	% Survival
	N/A
	N/A

Rainbow Trout
C. dubia

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS:

 Indicates Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: DECEMBER

YEAR: 2015

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		(C°)		B.O.D.	NFR	EFFLUENT MONITORING		RIVER	SETTLABLE	3X5
					B.O.D. mg/L	N.F.R. mg/L	pH	TEMP	mg/L	mg/L	AMMONIA	CL ₂ RES.	CL ₂ RES	SOLIDS	TOTAL COLIFORM
1	0.775	1.542	1082				7.0	10.9			32	6.5			
2	0.792	1.524	1206				7.2	11.3			36	6.7			
3	0.850	1.477	1038				7.3	12.5			34	5.8			
4	0.836	1.132	1030		270	190	7.1	11.3	38	31	34	5.7		<0.1	
5	0.837	0.756	533												
6	0.896	0.738	519												
7	0.821	0.992	848	984	Started discharge to River		7.2	13.2			32	2.8	0.00		<1.8
8	0.810	0.954	842	564			7.1	13.7			34	6.9	0.00		
9	0.968	0.834	655	1000			7.2	13.7			32	1.6	0.00		
10	0.961	0.849	726	3860			7.1	13.0			34	1.4	0.00		
11	1.089	1.203	1091	4430	250	160	7.0	13.0	19	15	32	2.0	0.00	<.01	
12	1.094	1.552	1089	3690			7.4	12.4				0.2	0.00		
13	1.525	1.643	1224	7870			7.2	12.2				0.5	0.00		
14	1.230	1.695	1240	5670			7.4	12.2			32	2.0	0.00		<1.8
15	1.088	1.664	1179	2680			7.2	11.0			32	2.8	0.00		
16	1.021	1.663	1176	1840			7.3	10.6			32	2.4	0.00		
17	1.045	1.291	1161	1550			7.4	11.0			32	3.0	0.00		
18	1.345	1.575	1540	3620	170	220	7.2	12.1	40	41	34	2.1	0.00	<.01	
19	1.332	2.186	1538	6770			7.3	11.2				3.8	0.00		
20	1.270	2.028	1540	3320			7.3	10.7				3.4	0.00		
21	1.411	1.895	1423	3250			7.4	11.8			28	3.3	0.00		<1.8
22	1.389	1.904	1389	15000	160	96	7.3	11.1	29	23	32	3.3	0.00		
23	1.322	2.060	1500	12000			7.4	11.3			32	3.0	0.00	<0.1	
24	1.467	2.106	1479	8870			7.6	11.2				1.6	0.00		
25	1.406	2.111	1492	7190			7.5	11.3				0.9	0.00		
26	1.267	2.133	1504	4430			7.1	11.0				1.5	0.00		
27	1.254	2.137	1497	3190			7.0	10.5				1.8	0.00		
28	1.259	1.631	1491	2870			6.9	10.6			28	2.8	0.00		2
29	1.177	1.043	758	2460	180	160	7.0	10.3	28	30	28	2.2	0.00		
30	1.219	1.291	1176	2170			7.3	9.9			28	0.7	0.00		
31	1.129	1.459	1141	1840			7.4	9.6			28	1.5	0.00	<0.1	

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
12/31/2015	290	44.0	ND	250

Semi-Annual Tests	Value in ug/l
Bis phthalate	Lab error
alph-BHC	ND
4,4' -DDT	ND
carbon tetrachloride	ND

Quarterly Tests	Value in ug/l
Dichlorobromomethane	N/A
Bromoform	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

SPILLS:						
None to report						
	BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal
30 DAY AVERAGE	31	376	84	28	337	83

ACUTE TOXICITY	
DATE	% Survival
12/9/2015	85%
12/9/2015	100%

Rainbow Trout
C. dubia

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
TUc	

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
2

SIGNATURE: _____

REMARKS: Lab error on EPA 625 SVOCs. A new sample was sent overnight and they had error in that sample also. La
We have sent a 3rd sample but have not received results.

Indicates Permit Exceedance

McKinleyville Community Services District

Wastewater Management Facility

Influent & Effluent Testing

pH, Temperature, Ammonia, CL½ Res,

Settleable Solids, BOD, NFR =

pH, mg/L, ° C

AVERAGE ANNUAL 2015

Date	INFLUENT			AMMONIA		UN-IONIZED		BOD	NFR	EFFLUENT			S.S.	AMMONIA		UN-IONIZED		NTU	CL½ Res	River CL½ Res	Coliform 3x5	BOD	NFR
	pH	Temp	S.S	mg/L	NH3 (mg/L)					pH	Temp	D.O.		mg/L	NH3 (mg/L)								
JANUARY	8.0	16.2	28.0	44.9	2.195			265	240	7.1	11.7	5.0	<0.1	30.9	0.118			42.8	2.0	0.0	1.2	12	10
FEBRUARY	7.9	16.0	17.0	42.7	1.399			293	308	6.8	13.2	5.0	<0.1	33.8	0.072			33.7	2.0	0.0	<1.8	14	8
MARCH	7.9	16.3	22.3	41.4	1.582			325	275	6.9	13.9	5.1	<0.1	32.8	0.078			39.9	2.0	0.0	<1.8	16	9
APRIL	8.0	17.2	29.8	46.3	2.920			310	370	6.9	14.9	4.8	<0.1	34.4	0.107			53.4	2.7	0.0	<1.8	12	11
MAY	8.1	18.8	27.0	46.1	3.334			318	270	6.8	16.7	3.4	<0.1	33.9	0.110			56.5	4.1	0.0	<1.8	23	22
JUNE	8.0	19.7	27.3	47.0	2.668			330	273	7.0	18.6	3.2	<0.1	34.1	0.175			68.6	5.0	0.0	<1.8	38	41
JULY	8.0	20.9	31.0	45.9	2.514			338	250	6.8	19.6	3.6	<0.1	33.9	0.129			67.3	4.4	0.0	<1.8	26	12
AUGUST	8.1	21.5	33.5	45.9	3.097			325	260	7.0	19.6	3.5	<0.1	33.6	0.149			46.1	4.1	0.0	<1.8	21	14
SEPTEMBER	8.2	21.3	35.5	46.6	3.860			283	265	7.1	18.1	3.6	<0.1	33.7	0.192			38.1	4.3	0.0	<1.8	22	13
OCTOBER	8.2	20.5	28.2	43.3	4.043			238	238	7.0	16.8	3.0	<0.1	32.4	0.155			56.6	3.1	0.0	<1.8	20	20
NOVEMBER	8.0	18.2	23.0	43.0	2.647			285	238	7.1	13.4	3.2	<0.1	33.2	0.149			57.9	5.5	0.0	<1.8	25	13
DECEMBER	7.7	15.7	17.9	34.2	1.328			206	165	7.2	11.5	4.0	<0.1	31.7	0.186			44.9	2.8	0.0	<1.8	31	28
MEDIAN																							
Average	8.0	18.5	26.7	43.9	2.632			293	263	7.0	15.7	4.0	<0.1	33.2	0.135			50.5	3.5	0.0	<1.8	22	17
Maximum	8.2	21.5	35.5	47.0	4.043			338	370	7.2	19.6	5.1	<0.1	34.4	0.192			68.6	5.5	0.0	2	38	41
Minimum	7.7	15.7	17.0	34.2	1.328			206	165	6.8	11.5	3.0	<0.1	30.9	0.072			33.7	2.0	0.0	<1.8	12	8

**McKinleyville Community Services District
Wastewater Management Facility**

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

JANUARY 2015

INFLUENT								EFFLUENT								AMMONIA				UN-IONIZED		River		Coliform		
Date	pH	Temp	S.S	mg/L	NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	NH3 (mg/L)	NTU	CL2 Res	CL2 Res	3x5	BOD	NFR							
1	8.3	16.1						7.6	10.4	5.3				36.8	1.9	0.00										
2	8.3	15.8	18.0	48.0	3.564			7.6	9.8	5.4	<0.1	30.0	0.296	34.5	2.1	0.00										
3	7.9	14.9						7.7	9.9	6.0				37.8	1.5	0.00										
4	7.8	15.8						7.4	10.2	5.6				38.4	2.9	0.00										
5	8.1	16.6		44.0	2.205			7.1	11.1	4.6		26.0	0.090	32.1	3.3	0.00	<1.8									
6	8.0	16.1		42.0	1.457			7.3	9.7	4.6		32.0	0.160	35.1	2.8	0.00										
7	7.8	15.4		34.0	0.816			7.1	10.4	4.3		32.0	0.105	32.7	2.9	0.00										
8	8.0	15.5		48.0	1.600			7.1	10.7	3.5		32.0	0.108	36.2	2.8	0.00										
9	8.2	16.7	28.0	48.0	3.107	210	190	7.2	10.5	3.4	<0.1	36.0	0.155	37.7	1.8	0.00		11	11							
10	7.9	16.4						7.1	12.0	3.5				40.7	1.0	0.00										
11	7.9	16.4						7.2	12.9	4.3				41.3	0.4	0.00										
12	8.1	17.1		48.0	2.490			6.8	12.9	5.7		32.0	0.064	41.4	0.6	0.00	4.5									
13	8.0	16.1		44.0	1.526			7.1	12.3	7.2		30.0	0.114	57.5	1.1	0.00										
14	8.3	16.7		48.0	3.792			7.1	11.3	5.4		28.0	0.099	43.6	1.0	0.00										
15	7.9	17.4		48.0	1.580			7.1	12.5	4.7		30.0	0.116	50.5	0.8	0.00										
16	7.9	16.4	27.0	44.0	1.348	310	290	7.2	11.7	3.6	<0.1	36.0	0.171	45.9	2.2	0.00		13	14							
17	7.7	16.1						7.1	12.4	4.2				44.9	1.7	0.00										
18	7.7	15.9						7.0	12.7	3.1				48.8	1.5	0.00										
19	7.8	16.1		44.0	1.113			7.0	13.0	4.3		26.0	0.073	48.3	4.0	0.00	<1.8									
20	8.1	16.7		46.0	2.321			7.0	12.9	5.0		30.0	0.083	48.2	4.5	0.00										
21	8.2	16.3		44.0	2.771			7.2	12.8	4.3		30.0	0.154	47.0	2.6	0.00										
22	8.1	16.5		46.0	2.289			7.1	12.1	4.7		30.0	0.112	45.4	2.2	0.00										
23	8.1	16.6	35.0	44.0	2.205	280	280	7.1	11.4	3.6	<0.1	32.0	0.114	45.4	2.4	0.00		12	8.6							
24	7.2	14.7						7.1	11.8	7.0				43.9	2.6	0.00										
25	7.4	15.1						7.2	11.8	7.3				43.5	2.4	0.00										
26	8.3	16.8		48.0	3.817			7.0	12.4	4.9		32.0	0.086	44.8	2.0	0.00	<1.8									
27	8.3	16.8		48.0	3.817			7.1	12.5	5.3		28.0	0.108	44.8	1.4	0.00										
28	7.7	15.7		40.0	0.798			6.9	11.8	6.4		34.0	0.075	44.6	1.2	0.00										
29	8.0	16.6		48.0	1.726			7.1	12.2	6.0		32.0	0.121	44.3	1.7	0.00										
30	7.9	16.1	32.0	38.0	1.139	260	200	6.9	12.0	6.7	<0.1	30.0	0.067	45.0	1.3	0.00		13	5.8							
31	8.3	15.9						7.1	11.8	5.5				44.9	2.1	0.00										
																	MEDIAN									
Average	8.0	16.2	28	44.9	2.195	265	240	7.1	11.7	5.0	<0.1	30.9	0.118	42.8	2.0	0.00	1.2	12	9.9							
Maximum	8.3	17.4	35	48.0	3.817	310	290	7.7	13.0	7.3	<0.1	36.0	0.296	57.5	4.5	0.00	4.5	13	14.0							
Minimum	7.2	14.7	18	34.0	0.798	210	190	6.8	9.7	3.1	<0.1	26.0	0.064	32.1	0.4	0.00	<1.8	11	5.8							

**McKinleyville Community Services District
Wastewater Management Facility**

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

FEBRUARY 2015

INFLUENT								EFFLUENT								River			
Date	pH	Temp	S.S	AMMONIA mg/L	UN-IONIZED NH ₃ (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA mg/L	UN-IONIZED NH ₃ (mg/L)	NTU	CL ₂ Res	CL ₂ Res	Coliform 3x5	BOD	NFR
1	7.7	15.9						6.9	12.4	6.5				46.0	1.3	0.00			
2	7.9	16.5		44.0	1.358			7.0	12.4	6.9		34.0	0.091	46.9	0.3	0.00	<1.8		
3	8.1	16.7		44.0	2.221			6.9	13.1	6.1		32.0	0.078	39.0	1.0	0.00			
4	8.1	17.3		44.0	2.315			6.9	13.3	6.3		36.0	0.089	42.2	0.1	0.00			
5	7.9	16.3		40.0	1.217			6.8	13.8	6.0		36.0	0.078	38.9	1.6	0.00			
6	7.8	16.5	15	38.0	0.989	280	240	6.9	14.1	7.0	<0.1	34.0	0.089	39.1	0.7	0.00		14	7.6
7	8.1	16.5						7.0	14.5	4.6				33.4	2.4	0.00			
8	7.7	17.0						6.9	14.9	5.2				37.3	0.6	0.00			
9	8.0	17.1		46.0	1.713			6.5	14.5	4.8		32.0	0.032	36.4	1.3	0.00	<1.8		
10	8.2	16.4		44.0	2.790			Washed CCB											
11	8	15.7		44.0	1.483			6.8	12.9	5.2		36.0	0.072	48.3	0.5	0.00			
12	7.6	15.8		40.0	0.620			6.7	13.0	4.7		36.0	0.059	32.6	3.1	0.00			
13	7.9	15.8	12	40.0	1.173	240	210	6.8	13.0	5.2	<0.1	36.0	0.073	32.5	5.0	0.00		14	8.8
14	7.6	15.3						7.0	12.9	4.0				34.3	2.4	0.00			
15	7.6	16.4						6.9	13.3	4.1				39.1	3.0	0.00			
16	7.8	15.8						6.7	12.9	4.1				36.1	2.6	0.00			
17	8.0	16.3		48.0	1.689			6.8	13.1	4.8		36.0	0.073	36.5	2.2	0.00	<1.8		
18	7.9	16.8		48.0	1.513			6.9	14.0	4.7		30.0	0.079	35.2	1.7	0.00			
19	7.8	15.9		44.0	1.096			6.9	13.3	4.2		32.0	0.079	33.9	0.9	0.00			
20	7.8	15.9	22	42.0	1.046	330	520	6.8	13.3	4.7	<0.1	36.0	0.075	30.7	1.2	0.00		15	9.2
21	7.2	14.9						6.8	13.2	4.5				28.7	0.8	0.00			
22	7.7	15.6						6.8	13.0	4.7				26.0	1.4	0.00			
23	7.5	14.8		40.0	0.397			6.7	12.5	4.5		36.0	0.057	22.4	4.0	0.00	<1.8		
24	8.0	16.1		44.0	1.526			6.9	12.3	4.6		30.0	0.069	20.3	5.4	0.00			
25	8.1	15.7		40.0	1.882			6.8	11.8	4.6		32.0	0.059	21.2	3.5	0.00			
26	7.6	14.8		40.0	0.570			6.8	12.2	4.6		32.0	0.061	23.3	2.0	0.00			
27	7.8	15.2	19	42.0	0.991	320	260	6.9	12.6	5.0	<0.1	32.0	0.075	23.5	3.2	0.00		13	6.4
28	8.4	16.3						7.1	13.2	4.5				25.3	1.9	0.00			
																	MEDIAN		
Average	7.9	16.0	17	42.7	1.399	293	308	6.8	13.2	5.0	<0.1	33.8	0.072	33.7	2.0	0.00	<1.8	14	8.0
Maximum	8.4	17.3	22	48.0	2.790	330	520	7.1	14.9	7.0	<0.1	36.0	0.091	48.3	5.4	0.00	<1.8	15	9.2
Minimum	7.2	14.8	12	38.0	0.397	240	210	6.5	11.8	4.0	<0.1	30.0	0.032	20.3	0.1	0.00	<1.8	13	6.4

**McKinleyville Community Services District
Wastewater Management Facility**

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

MARCH 2015

INFLUENT								EFFLUENT								River			
Date	pH	Temp	S.S	mg/L	NH ₃ (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	NH ₃ (mg/L)	NTU	CL ₂ Res	CL ₂ Res	3x5	BOD	NFR
1	7.3	14.9						7.1	12.8	3.9				28.7	0.6	0.00			
2	7.6	15.5		36.0	0.544			7.1	12.9	3.8		28.0	0.111	28.3	1.0	0.00	<1.8		
3	8.1	15.9		42.0	2.004			6.9	12.4	4.2		36.0	0.083	31.6	0.9	0.00			
4	7.9	14.9		42.0	1.153			6.8	12.5	3.7		32.0	0.063	28.7	2.4	0.00			
5	8.1	17.1		42.0	2.179			7.0	12.8	4.6		30.0	0.069	27.8	4.0	0.00			
6	7.6	15.2	20	40.0	0.588	320	250	6.8	12.6	4.2	<0.1	32.0	0.063	33.7	1.5	0.00		11	6.2
7	7.7	15.6						7.1	13.0	3.9				34.3	0.7	0.00			
8	8.1	16.0						7.0	13.4	4.3				35.1	0.8	0.00			
9	8.1	16.8		48.0	2.439			6.9	13.0	5.2		32.0	0.077	32.9	2.9	0.00	<1.8		
10	8.3	17.0		44.0	3.546			Washed CCB											
11	8.0	16.7		38.0	1.376			6.8	13.5	5.2		34.0	0.072	43.8	1.0	0.00			
12	7.8	16.5		40.0	1.041			6.7	13.2	4.3		36.0	0.060	38.1	0.9	0.00			
13	8.1	17.4	30	44.0	2.332	350	230	6.7	13.6	5.6	<0.1	32.0	0.055	31.8	6.5	0.00		20	10
14	7.9	16.3						6.8	13.9	5.2				34.5	2.4	0.00			
15	8.1	17.1						7.0	14.6					39.4	2.2	0.00			
16	7.9	17.1		48.0	1.545			6.9	14.5	5.2		28.0	0.076	40.7	2.2	0.00	<1.8		
17	8.0	16.7		38.0	1.375			6.8	14.1	5.2		32.0	0.071	40.5	2.0	0.00			
18	7.9	16.0		42.0	1.250			6.8	13.5	4.2		32.0	0.067	40.3	2.4	0.00			
19	7.7	16.4		44.0	0.926			6.9	13.9	3.6		34.0	0.088	42.6	1.7	0.00			
20	7.5	15.4	15	40.0	0.424	290	310	6.8	13.9	5.8	<0.1	36.0	0.078	43.6	1.5	0.00		16	6.8
21	8.0	16.0						7.0	14.4	7.4				44.3	1.8	0.00			
22	7.7	16.3						6.9	15.0	7.0				45.4	2.5	0.00			
23	7.9	16.6		38.0	1.181			6.9	14.4	4.7		30.0	0.081	47.6	3.5	0.00	<1.8		
24	7.8	15.5		24.0	0.580			6.9	14.6	5.5		32.0	0.088	47.3	4.0	0.00			
25	7.7	16.4		40.0	0.841			6.9	14.3	5.4		36.0	0.096	45.9	2.6	0.00			
26	7.7	16.6		38.0	0.811			6.9	14.9	6.2		36.0	0.101	45.5	1.9	0.00			
27	7.9	16.7	24	46.0	1.439	340	310	6.8	15.0	5.9	<0.1	34.0	0.080	47.0	1.5	0.00		15	11
28	7.5	15.9						6.9	14.9	5.7				50.4	0.8	0.00			
29	7.8	16.4						6.9	15.1	5.6				52.4	0.2	0.00			
30	8.1	17.4		48.0	2.544			6.8	15.3	6.8		34.0	0.083	48.9	1.6	0.00	4.5		
31	8.4	17.4		48.0	4.695			6.8	15.5	4.7		32.0	0.079	46.4	1.5	0.00			
																	MEDIAN		
Average	7.9	16.3	22.3	41.4	1.582	325	275	6.9	13.9	5.1	<0.1	32.8	0.078	39.9	2.0	0.00	<1.8	16	9
Maximum	8.4	17.4	30.0	48.0	4.695	350	310	7.1	15.5	7.4	<0.1	36.0	0.111	52.4	6.5	0.00	4.5	20	11
Minimum	7.3	14.9	15.0	24.0	0.424	290	230	6.7	12.4	3.6	<0.1	28.0	0.055	27.8	0.2	0.00	<1.8	11	6

**McKinleyville Community Services District
Wastewater Management Facility**

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

APRIL 2015

INFLUENT								EFFLUENT								River			
Date	pH	Temp	S.S	AMMONIA mg/L	UN-IONIZED NH ₃ (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA mg/L	UN-IONIZED NH ₃ (mg/L)	NTU	CL ₂ Res	CL ₂ Res	Coliform 3x5	BOD	NFR
1	7.9	15.8		44.0	1.291			7.3	15.7	6.3		32.0	0.251	26.7	3.5	0.00			
2	7.7	15.3		42.0	0.881			7.1	14.5	7.7		36.0	0.161	60.3	2.3	0.00			
3	7.8	15.6	26	44.0	1.072	400	360	6.9	14.3	6.7	<0.1	40.0	0.107	45.0	3.4	0.00		11	12
4	7.5	15.8						6.8	14.2	6.8				42.7	4.0	0.00			
5	8.0	16.5						6.9	14.3	6.4				45.1	2.6	0.00			
6	8.2	16.8		48.0	3.128			6.9	16.1	6.1		34.0	0.104	43.8	4.2	0.00			
7	8.1	16.9		44.0	2.225			ccb shutdown for cleaning									<1.8		
8	8.0	17.2		42.0	1.576			6.8	13.8	5.9		32.0	0.070	53.0	2.7	0.00			
9	8.1	17.0		46.0	2.369			6.8	13.6	6.3		34.0	0.073	36.6	3.7	0.00			
10	8.2	17.4	25	48.0	3.261	300	320	6.8	14.3	6.1	<0.1	32.0	0.072	35.8	8.0	0.00		10	7.2
11	8.3	17.5						7.0	14.8	4.1				38.7	2.7	0.00			
12	7.5	15.7						7.0	14.1	4.0				43.8	2.1	0.00			
13	8.0	17.2		46.0	1.726			6.9	14.0	4.4		34.0	0.089	45.9	0.9	0.00	<1.8		
14	8.3	17.5		44.0	3.672			6.9	13.9	4.6		34.0	0.088	43.8	3.2	0.00			
15	8.2	17.4		50.0	3.397			6.9	13.9	5.3		34.0	0.088	45.4	1.9	0.00			
16	8.3	17.8		44.0	3.747			7.0	14.2	4.9		32.0	0.099	49.1	1.0	0.00			
17	8.2	18.0	38	48.0	3.400	260	280	6.9	14.8	3.9	<0.1	36.0	0.100	45.4	1.7	0.00		12	8
18	7.9	16.3						6.8	15.3	3.6				48.9	2.4	0.00			
19	7.9	15.9						6.9	16.0	4.0				62.9	2.6	0.00			
20	8.0	18.1		48.0	1.921			6.9	15.6	4.6		36.0	0.107	62.1	2.2	0.00	2.0		
21	8.1	18.0		50.0	2.762			7.0	15.5	3.5		34.0	0.116	65.4	2.5	0.00			
22	8.2	18.1		46.0	3.280			6.9	15.2	4.1		34.0	0.098	70.6	0.5	0.00			
23	8.2	18.1		48.0	3.422			6.9	15.0	3.7		34.0	0.096	64.2	2.2	0.00			
24	8.4	18.3	30	50.0	5.204	280	520	7.0	15.2	4.5	<0.1	36.0	0.120	58.9	8.7	0.00		13	16
25	7.4	16.0						6.8	15.2	3.2				57.9	3.7	0.00			
26	7.7	16.7						7.0	15.4	3.4				58.9	4.0	0.00			
27	8.2	18.1		46.0	3.280			6.9	15.5	3.9		38.0	0.112	69.4	0.1	0.00			
28	8.3	18.8		48.0	4.388			6.9	16.1	3.6		36.0	0.110	74.5	0.3	0.00	<1.8		
29	8.3	18.5		48.0	4.296			6.9	16.3	3.5		32.0	0.100	77.1	1.4	0.00			
30	8.3	18.5		44.0	3.938			6.8	15.9	3.7		32.0	0.081	78.1	0.8	0.00			
																	MEDIAN		
Average	8.0	17.2	29.8	46.3	2.920	310	370	6.9	14.9	4.8	<0.1	34.4	0.107	53.4	2.7	0.00	<1.8	12	11
Maximum	8.4	18.8	38.0	50.0	5.204	400	520	7.3	16.3	7.7	<0.1	40.0	0.251	78.1	8.7	0.00	2.0	13	16
Minimum	7.4	15.3	25.0	42.0	0.881	260	280	6.8	13.6	3.2	<0.1	32.0	0.070	26.7	0.1	0.00	<1.8	10	7

**McKinleyville Community Services District
Wastewater Management Facility**

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR = pH, mg/L, ° C MAY 2015

INFLUENT								EFFLUENT								AMMONIA		UN-IONIZED		River		Coliform		
Date	pH	Temp	S.S	mg/L	NH ₃ (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	NH ₃ (mg/L)	NTU	CL ₂ Res	CL ₂ Res		3x5	BOD	NFR				
1	8.2	18.6	23.0	46.0	3.401	340	290	6.9	15.7	3.3	<0.1	36.0	0.107	64.6	4.0				16	14				
2																								
3																								
4	8.2	18.5		50.0	3.670			6.7	15.7	3.6		32.0	0.065	56.6	3.8			<1.8						
5	8.2	18.9		42.0	6.171			6.7	16.0	3.3		32.0	0.067	52.8	4.1									
6	8.2	18.7		44.0	3.276			6.5	15.9	3.4		24.0	0.049	51.6	3.5									
7	8.2	18.7		48.0	3.574			6.8	15.6	4		34.0	0.085	51.4	4.1									
8	8.2	18.6	24.0	44.0	3.252	440	440	6.8	15.6	3.0	<0.1	36.0	0.090	51.0	4.2				15	12				
9																								
10																								
11	8.3	18.6		50.0	4.507			6.8	16.0	3.6		36.0	0.092	62.4	4.8			<1.8						
12	8.3	18.7		44.0	3.994				Washed CCB															
13	8.2	19.1		48.0	3.675			6.8	15.9	3.3		34.0	0.087	41.4	4.7									
14	8.3	18.9		48.0	4.418			6.6	16.1	4.5		32.0	0.052	51.5	3.7									
15	7.8	17.5	26.0	36.0	4.348	290	240	6.7	16.5	2.5	<0.1	34.0	0.074	49.9	6.7				18	9.2				
16																								
17																								
18	8.3	18.8		48.0	4.388			7.1	17.6	2.8		34.0	0.193	55.1	5.0			<1.8						
19	8.0	19.0		46.0	1.965			6.8	17.4	3.4		36.0	0.103	53.0	3.6									
20	7.6	17.9		36.0	0.651			7.1	17.6	3.5		36.0	0.205	54.0	4.7									
21	8.1	19.4		48.0	2.930			7.1	17.5	3.2		34.0	0.192	59.2	4.2									
22	8.1	19.5	30.0	50.0	3.073	270	200	6.9	17.8	3.2	<0.1	34.0	0.119	60.7	3.1				31	33				
23																								
24																								
25																								
26	8.0	19.4		48.0	2.110			6.8	17.4	3.5		34.0	0.134	67.3	3.1			<1.8						
27	8.0	19.3		48.0	2.100			6.9	17.4	2.9		34.0	0.115	61.8	2.9									
28	8.0	19.2		48.0	2.080			7.0	17.5	4.5		36.0	0.142	58.4	2.2									
29	8.1	19.6	32.0	50.0	3.099	250	180	6.9	17.6	2.9	<0.1	36.0	0.124	70.8	4.8				34	43				
																		MEDIAN						
Average	8.1	18.8	27.0	46.1	3.334	318	270	6.8	16.7	3.4	<0.1	33.9	0.110	56.5	4.1	0.0		<1.8	23	22				
Maximum	8.3	19.6	32.0	50.0	6.171	440	440	7.1	17.8	4.5	<0.1	36.0	0.205	70.8	6.7	0.0		<1.8	34	43				
Minimum	7.6	17.5	23.0	36.0	0.651	250	180	6.5	15.6	2.5	<0.1	24.0	0.049	41.4	2.2	0.0		<1.8	15					

McKinleyville Community Services District

Wastewater Management Facility

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

JUNE 2015

INFLUENT								EFFLUENT								AMMONIA		UN-IONIZED		River		Coliform		
Date	pH	Temp	S.S	mg/L	NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	NH3 (mg/L)	NTU	CL ₂ Res	CL ₂ Res	3x5	BOD	NFR					
1	7.7	18.5		40.0	0.976			6.9	17.5	3.5		36.0	0.122	68.1	3.8		<1.8							
2	8.4	19.6		50.0	4.832				Washed CCB															
3	8.1	19.9		50.0	3.157			7.0	17.8	3.0		34.0	0.137	68.6	8.9									
4	8.2	19.5		48.0	3.775			6.9	17.8	2.7		36.0	0.126	64.0	0.1									
5	8.1	20.0	25.0	46.0	2.923	330	300	6.8	18.1	2.9	<0.1	32.0	0.096	56.3	3.9			38	47					
6																								
7																								
8	8.0	19.9		48.0	2.185			7.0	18.5	2.8		32.0	0.136	66.2	7.3		<1.8							
9	7.7	19.3		44.0	1.137			6.9	19.3	3.1		38.0	0.148	66.5	2.7									
10	8.1	20.1		44.0	2.816			7.0	19.2	3.4		30.0	0.134	66.9	2.8									
11	7.7	18.1		48.0	1.140			7.0	19.0	3.1		36.0	0.158	53.9	9.2									
12	7.9	20.1	34.0	44.0	1.757	360	240	7.1	19.5	3.0	<0.1	32.0	0.208	58.9	6.1			45	51					
13																								
14																								
15	8.1	19.7		50.0	3.115			7.0	18.6	2.8		32.0	0.137	51.7	10.1									
16	8.0	19.4		48.0	2.110			7.1	19.0	3.2		38.0	0.237	59.5	8.3		<1.8							
17	8.1	19.6		48.0	2.970			7.2	18.6	3.5		32.0	0.252	53.8	4.9									
18	8.2	19.4		50.0	3.910			7.2	18.5	3.1		34.0	0.266	59.0	5.1									
19	8.1	19.8	23.0	48.0	3.010	290	330	7.2	18.8	3.1	<0.1	32.0	0.256	59.2	4.8			38	45					
20																								
21																								
22	8.0	20.0		46.0	2.109			7.3	19.4	3.1		34.0	0.346	58.3	3.5		<1.8							
23	8.2	19.9		50.0	4.037			7.3	18.1	2.9		36.0	0.388	88.6	3.7									
24	8.1	20.1		48.0	3.071			6.7	17.2	3.3		36.0	0.082	79.7	6.9									
25	8.1	20.1		44.0	2.186			6.8	18.3	3.2		34.0	0.104	83.5	3.5									
26	8.1	20.2	27.0	46.0	2.963	340	220	6.8	18.9	3.9	<0.1	32.0	0.102	89.7	4.6			31	20					
27																								
28																								
29	7.9	20.3		48.0	1.945			6.8	19.8	3.5		36.0	0.123	93.9	2.4		<1.8							
30	8.1	20.5		46.0	3.024			6.8	19.4	3.1		34.0	0.112	95.0	1.8									
																	MEDIAN							
Average	8.0	19.7	27.3	47.0	2.668	330	273	7.0	18.6	3.2	<0.1	34.1	0.175	68.6	5.0	0.0	<1.8	38	41					
Maximum	8.4	20.5	34.0	50.0	4.832	360	330	7.3	19.8	3.9	<0.1	38.0	0.388	95.0	10.1	0.0	1.8	45	51					
Minimum	7.7	18.1	23.0	40.0	0.976	290	220	6.7	17.2	2.7	<0.1	30.0	0.082	51.7	0.1	0.0	<1.8	31	20					

McKinleyville Community Services District
Wastewater Management Facility

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

JULY 2015

INFLUENT								EFFLUENT								River		Coliform		
Date	pH	Temp	S.S	AMMONIA mg/L	UN-IONIZED NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA mg/L	UN-IONIZED NH3 (mg/L)	NTU	CL ₂ Res	CL ₂ Res	3x5	BOD	NFR	
1	7.8	20.5		46.0	1.595			6.8	19.4	2.9		36.0	0.119	91.8	2.6					
2	8.1	20.7	28	50.0	3.330	260	200	6.7	19.5	3.2	<0.1	36.0	0.097	88.7	3.1			26	17	
3																				
4																				
5																				
6	8.1	20.5		48.0	3.155			6.9	19.3	3.4		36.0	0.140	84.5	3.2		<1.8			
7	8.0	20.6		40.0	1.914			6.8	19.3	3.1		36.0	0.118	77.1	3.7					
8	8.0	20.6		48.0	2.300			6.9	19.3	2.9		34.0	0.133	74.5	3.6					
9	8.2	20.9		46.0	3.961			6.8	19.4	3.4		36.0	0.119	79.9	3.6					
10	6.8	19.0	18	38.0	0.122	590	320	6.6	19.6	3.3	<0.1	32.0	0.067	78.0	4.7			42	6.4	
11																				
12																				
13	8.0	21.1		50.0	2.477			6.8	19.7	3.4		32.0	0.108	75.8	4.9		<1.8			
14	8.1	21.1		48.0	3.283			Washed CCB												
15	8.0	20.8		48.0	2.330			6.9	19.6	2.8		36.0	0.144	78.5	8.2					
16	7.9	21.1		50.0	2.143			6.9	19.5	4.4		34.0	0.135	68.1	5.4					
17	8.0	21.1	45	48.0	2.378	280	230	6.8	19.7	3.4	<0.1	36.0	0.122	69.2	5.9			21	11	
18																				
19																				
20	7.9	21.0		48.0	2.042			7.1	20.7	6.5		32.0	0.288	68.1	7.2					
21	8.0	20.8		48.0	2.330			6.9	19.0	3.0		36.0	0.137	47.0	7.6		<1.8			
22	8.1	20.9		44.0	2.970			6.9	19.0	3.5		34.0	0.130	49.3	5.2					
23	8.0	21.1		44.0	2.180			6.9	19.6	4.2		34.0	0.136	53.1	4.8					
24	8.1	21.2	25	48.0	3.303	320	240	6.9	19.4	3.4	<0.1	32.0	0.126	57.9	3.8			21	14	
25																				
26																				
27	8.1	21.5		44.0	3.092			6.8	20.5	3.9		32.0	0.115	50.1	3.4		<1.8			
28	8.0	21.3		42.0	2.110			7.0	19.9	3.7		32.0	0.151	61.7	2.5					
29	8.0	21.4		42.0	2.125			6.8	20.0	3.5		32.0	0.110	57.0	1.8					
30	8.2	21.3		50.0	4.421			6.9	19.9	3.6		32.0	0.130	52.5	2.1					
31	7.9	21.3	41	40.0	1.738	240	260	6.7	19.5	3.5	<0.1	32.0	0.086	49.9	4.7			18	13	
																	MEDIAN			
Average	8.0	20.9	31	45.9	2.514	338	250	6.8	19.6	3.6	<0.1	33.9	0.129	67.3	4.4	0.0	<1.8	26	12.3	
Maximum	8.2	21.5	45	50.0	4.421	590	320	7.1	20.7	6.5	<0.1	36.0	0.288	91.8	8.2	0.0	<1.8	42	17.0	
Minimum	6.8	19.0	18	38.0	0.122	240	200	6.6	19.0	2.8	<0.1	32.0	0.067	47.0	1.8	0.0	<1.8	18	6.4	

McKinleyville Community Services District
Wastewater Management Facility

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

August 2015

INFLUENT								EFFLUENT								AMMONIA		UN-IONIZED		River		Coliform		
Date	pH	Temp	S.S	mg/L	NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	NH3 (mg/L)	NTU	CL ₂ Res	CL ₂ Res	3x5	BOD	NFR					
1																								
2																								
3	8.0	21.6		42.0	2.154			6.8	20.4	3.6		32.0	0.114	52.2	5.1		<1.8							
4	7.9	21.5		46.0	2.027			6.9	20.4	2.9		34.0	0.144	50.5	2.6									
5	8.0	21.5		46.0	2.343			6.8	20.3	3.2		34.0	0.120	48.8	3.5									
6	8.1	21.1		48.0	3.283			6.9	19.5	3.3		32.0	0.127	48.3	3.3									
7	8.1	21.3	22.0	44.0	3.051	280	280	6.8	19.8	3.6	<0.1	32.0	0.109	46.9	3.1			17		9.2				
8																								
9																								
10	8.0	21.5		50.0	2.547			7.0	19.5	4.4		36.0	0.165	44.8	5.1		<1.8							
11	8.0	21.6		44.0	2.257			7.0	19.9	3.0		32.0	0.151	46.6	2.0									
12	8.0	21.5		44.0	2.241			7.0	20.1	3.3		36.0	0.172	47.3	3.7									
13	8.1	21.9		44.0	3.175			7.0	20.0	3.3		34.0	0.162	48.6	4.0									
14	8.0	21.8	31.0	42.0	2.183	380	170	6.9	20.4	3.4	<0.1	32.0	0.135	46.0	4.0			29		16				
15																								
16																								
17	8.1	21.3		48.0	3.328			7.0	19.7	3.3		36.0	0.167	46.5	4.8		<1.8							
18	8.2	21.4		48.0	4.344			7.0	18.8	5.7		30.0	0.131	36.0	10.0									
19	8.0	21.3		44.0	2.211			7.0	19.1	3.5		34.0	0.151	38.4	1.7									
20	8.1	21.6		50.0	3.537			6.9	19.4	3.7		32.0	0.126	42.3	7.5									
21	8.1	21.2	41.0	48.0	3.305	300	250	6.9	19.0	3.5	<0.1	34.0	0.129	46.4	4.8			20		14				
22																								
23																								
24	8.2	21.7		40.0	3.632			6.9	19.0	3.3		32.0	0.122	45.1	4.2		<1.8							
25	8.1	21.4		50.0	3.490			7.1	19.0	3.1		36.0	0.225	43.5	3.8									
26	8.2	21.5		48.0	4.301			7.0	18.8	3.3		36.0	0.157	45.2	5.7									
27	8.2	21.3		48.0	4.244			7.0	18.6	3.8		34.0	0.146	46.1	2.7									
28	8.1	21.9	40.0	50.0	3.608	340	340	7.1	19.3	3.2	<.01	34.0	0.218	46.5	2.9			16		15				
29																								
30																								
31	8.2	22.3		40.0	3.776			7.0	19.6	3.6		34.0	0.157	52.0	1.2		<1.8							
																	MEDIAN							
Average	8.1	21.5	33.5	45.9	3.097	325	260	7.0	19.6	3.5	<0.1	33.6	0.149	46.1	4.1	0.0	<1.8	21		14				
Maximum	8.2	22.3	41.0	50.0	4.344	380	340	7.1	20.4	5.7	<0.1	36.0	0.225	52.2	10.0	0.0	<1.8	29		16				
Minimum	7.9	21.1	22.0	40.0	2.027	280	170	6.8	18.6	2.9	<0.1	30.0	0.109	36.0	1.2	0.0	<1.8	16		9.2				

**McKinleyville Community Services District
Wastewater Management Facility**

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

SEPTEMBER 2015

INFLUENT								EFFLUENT								AMMONIA				UN-IONIZED		River		Coliform		
Date	pH	Temp	S.S	mg/L	NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	NH3 (mg/L)	NTU	CL ₂ Res	CL ₂ Res	3x5	BOD	NFR							
1	8.1	21.9		50.0	3.608			6.9	19.6	3.1		34.0	0.136	41.9	2.7											
2	8.2	22.0		50.0	4.628			7.0	19.8	3.4		36.0	0.169	45.1	3.8											
3	8.2	21.7		48.0	4.358			7.0	19.4	3.3		36.0	0.164	50.8	4.1											
4	8.2	21.8	33.0	50.0	4.569	400	340	6.9	19.5	2.9	<0.1	40.0	0.158	53.0	4.9			24	10							
5																										
6																										
7																										
8	7.7	22.0		44.0	1.380			7.0	19.0	3.5		36.0	0.159	43.2	5.6		<1.8									
9	8.2	21.7		44.0	3.995			7.1	18.7	3.3		34.0	0.208	34.7	5.4											
10	7.8	21.4		40.0	1.477			7.1	18.4	3.7		32.0	0.192	33.8	5.6											
11	8.0	21.7	33.0	44.0	2.272	250	230	7.0	18.8	3.7	<0.1	32.0	0.139	31.0	5.6			23	9.6							
12																										
13																										
14	8.2	20.9		46.0	3.961			7.1	18.6	2.8		32.0	0.195	35.1	5.3		<1.8									
15	8.2	21.0		46.0	3.985			7.0	17.7	3.0		32.0	0.128	35.9	4.8											
16	8.1	21.2		50.0	3.443			7.1	17.7	4.5		34.0	0.195	34.6	6.0											
17	8.4	21.3		50.0	6.330			7.3	17.9	3.4		38.0	0.353	30.7	4.9											
18	8.2	21.2	46.0	44.0	3.864	220	240	7.2	17.6	3.0	<0.1	34.0	0.251	21.4	4.4			17	20							
19																										
20																										
21	8.1	21.2		48.0	3.305			7.2	17.7	5.2		36.0	0.268	40.2	2.4		<1.8									
22	8.3	21.1		50.0	5.304			7.3	17.3	7.2		26.0	0.231	24.1	0.9											
23	8.2	21.0		48.0	3.466			7.1	17.2	4.3		32.0	0.176	40.7	2.1											
24	8.1	21.2		50.0	3.443			7.1	17.3	4.2		32.0	0.178	39.2	6.1											
25	8.3	20.7	30.0	48.0	4.965	260	250	7.2	17.1	2.8	<0.1	34.0	0.242	40.1	5.6			24	12							
26																										
27																										
28	8.2	21.1		42.0	3.663			7.1	16.8	3.4		32.0	0.171	42.7	4.4		<1.8									
29	8.2	20.6		44.0	3.718			7.0	17.0	3.5		32.0	0.122	40.9	2.3											
30	8.4	21.3		42.0	5.317			7.1	17.2	2.2		34.0	0.188	41.2	3.7											
																	MEDIAN									
Average	8.2	21.3	35.5	46.6	3.860	283	265	7.1	18.1	3.6	<0.1	33.7	0.192	38.1	4.3	0.0	<1.8	22	13							
Maximum	8.4	22.0	46.0	50.0	6.330	400	340	7.3	19.8	7.2	<0.1	40.0	0.353	53.0	6.1	0.0	<1.8	24	20							
Minimum	7.7	20.6	30.0	40.0	1.380	220	230	6.9	16.8	2.2	<0.1	26.0	0.122	21.4	0.9	0.0	<1.8	17	9.6							

**McKinleyville Community Services District
Wastewater Management Facility**

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

OCTOBER 2014

INFLUENT								EFFLUENT								AMMONIA		UN-IONIZED		River		Coliform		
Date	pH	Temp	S.S	mg/L	NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	NH3 (mg/L)	NTU	CL ₂ Res	CL ₂ Res	3x5	BOD	NFR					
1	8.2	20.6		44.0	3.716			7.1	17.0	3		34.0	0.185	49.2	3.7									
2	8.4	21.1	22.0	46.0	5.746	220	270	7.1	17.4	3.2	<0.1	32.0	0.179	48.1	3.3			13	18					
3																								
4																								
5	8.3	20.8		46.0	4.788			7.3	16.8	2.9		36.0	0.308	46.6	3.6		<1.8							
6	8.4	20.9		44.0	5.427			6.8	17.1	3.2		34.0	0.095	46.5	2.8									
7	8.3	20.9		50.0	5.236			7.1	17.0	3		34.0	0.185	46.8	3.1									
8	8.3	20.7		44.0	4.552			7.1	16.8	2.9		30.0	0.161	47.9	2.9									
9	8.2	21.1	38.0	44.0	3.838	270	230	7.1	17.2	3.1	<0.1	34.0	0.188	50.1	2.8			28	19					
10																								
11																								
12																								
13	8.2	20.7		40.0	3.401			7.1	17.0	3.7		30.0	0.163	51.4	3.5		<1.8							
14	8.3	20.9		38.0	3.979			7.1	16.8	2.8		30.0	0.161	50.1	2.6									
15	8.2	21.0		42.0	3.639			7.1	17.1	3.0		30.0	0.164	55.6	1.9									
16	8.3	20.5	37.0	48.0	4.904	190	220	7.0	17.0	2.9	<0.1	32.0	0.122	58.9	2.7			18	34					
17																								
18																								
19	7.7	19.8		44.0	1.182			7.1	17.5	2.2		36.0	0.203	65.6	0.8		<1.8							
20	8.3	20.1		44.0	4.383			6.9	17.5	4.9		34.0	0.116	57.1	8.7									
21	8.2	20.8		46.0	3.936			7.1	16.8	2.7		32.0	0.171	73.5	0.2									
22	7.1	18.9		32.0	0.199			7.0	16.6	2.7		28.0	0.103	67.3	2.8									
23	8.3	20.2	20	46.0	4.612	240	260	7.1	16.3	2.8	<0.1	32.0	0.165	65.3	3.1			26	18					
24																								
25																								
26	8.5	20.7		40.0	5.611			6.9	16.4	2.8		32.0	0.101	63.9	3.7		<1.8							
27	8.2	20.3		42.0	3.481			6.9	16.3	2.5		34.0	0.106	61.6	3.3									
28	8.1	20.4		40.0	2.612			7.0	16.7	3.0		30.0	0.111	65.6	3.4									
29	8.3	19.9		44.0	4.327			6.9	16.1	2.7		34.0	0.104	59.6	3.7									
30	8.4	19.9	24.0	46.0	5.334	270	210	7.1	15.8	2.6	<0.1	32.0	0.159	57.2	3.2			17	12					
																	MEDIAN							
Average	8.2	20.5	28.2	43.3	4.043	238	238	7.0	16.8	3.0	<0.1	32.4	0.155	56.6	3.1	0.0		20	20					
Maximum	8.5	21.1	38.0	50.0	5.746	270	270	7.3	17.5	4.9	<0.1	36.0	0.308	73.5	8.7	0.0		28	34					
Minimum	7.1	18.9	20.0	32.0	0.199	190	210	6.8	15.8	2.2	<0.1	28.0	0.095	46.5	0.2	0.0		13	12					

**McKinleyville Community Services District
Wastewater Management Facility**

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

NOVEMBER 2015

INFLUENT								EFFLUENT								River			
Date	pH	Temp	S.S	AMMONIA mg/L	UN-IONIZED NH ₃ (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA mg/L	UN-IONIZED NH ₃ (mg/L)	NTU	CL ₂ Res	CL ₂ Res	Coliform 3x5	BOD	NFR
1																			
2	8.3	20.3		48	4.843			7.0	16.4	3.9		32.0	0.119	63.0	2.3		<1.8		
3	8.3	19.9		44	4.327			7.1	15.3	2.5		34.0	0.162	58.7	2.8				
4	8.4	19.2		46	5.097			7.0	14.7	3.1		34.0	0.109	55.6	2.2				
5	7.4	17.8		36	0.394			7.0	14.5	2.8		32.0	0.101	50.7	5.2				
6	7.8	18.8	30	42	1.286	240	220	7.0	14.2	3.0	<0.1	32.0	0.098	54.9	5.2			21	15
7																			
8																			
9	7.9	18.4		44	1.556			7.0	14.0	3.0		32.0	0.097	57.9	7.4		<1.8		
10	8.3	18.4		48	4.267			7.2	13.1	3.2		34.0	0.179	54.8	5.9				
11	8.2	17.4						7.1	12.8	3.7				53.8	5.6				
12	7.9	17.7		42	1.412			7.2	13.0	2.8		32.0	0.167	50.4	6.2				
13	8.4	19.4	27	48	5.390	300	240	7.0	12.8	2.3	<.01	34.0	0.094	48.5	8.7			24	12
14																			
15																			
16	7.5	16.8		36	0.424			7.1	11.8	3.5		32.0	0.117	52.3	4.0		<1.8		
17	8.5	18.8		42	5.219			7.1	13.9	5.6		30.0	0.129	53.9	6.0				
18	8.1	18.5		40	2.292			7.1	13.5	2.5		34.0	0.142	59.1	0.2				
19	7.9	18.0		42	1.442			7.2	13.0	3.0		36.0	0.188	55.7	8.1				
20	8.3	18.9	20	48	4.418	330	250	7.2	13.3	2.9	<.01	32.0	0.171	56.7	7.2			34	13
21																			
22																			
23	7.6	17.5		44	0.774			7.4	13.2	3.8		36.0	0.280	69.1	6.0		<1.8		
24	7.7	17.3		38	0.853	270	240	7.3	13.0	3.1		34.0	0.219	72.3	8.1			20	13
25	8.2	17.2	13	44	2.948			7.3	11.8	3.0	<.01	34.0	0.200	71.5	6.2				
26																			
27																			
28																			
29																			
30	7.7	16.1		34	0.700			7.1	10.8	3.7		34.0	0.116	61.5	7.4				
Average	8.0	18.2	23	43	2.647	285	238	7.1	13.4	3.2	<0.1	33.2	0.149	57.9	5.5	0.00	<1.8	25	13
Maximum	8.5	20.3	30	48	5.390	330	250	7.4	16.4	5.6	<0.1	36.0	0.280	72.3	8.7	0.00	<1.8	34	15
Minimum	7.4	16.1	13	34	0.394	240	220	7.0	10.8	2.3	<0.1	30.0	0.094	48.5	0.2	0.00	<1.8	20	12

**McKinleyville Community Services District
Wastewater Management Facility**

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

DECEMBER 2015

INFLUENT								EFFLUENT								AMMONIA				UN-IONIZED		River		Coliform			
Date	pH	Temp	S.S	mg/L	NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	NH3 (mg/L)	NTU	CL ₂ Res	CL ₂ Res		3x5	BOD	NFR							
1	7.0	15.9		34.0	0.119			7.0	10.9	3.6		32.0	0.770	50.8	6.5												
2	8.4	18.2		48.0	4.960			7.2	11.3	3.8		36.0	0.165	36.9	6.7												
3	8.0	17.6		42.0	1.622			7.3	12.5	4.7		34.0	0.211	35.6	5.8												
4	8.0	16.8	24.0	40.0	1.458	270	190	7.1	11.3	4.6	<0.1	34.0	0.120	34.2	5.7				38		31						
5																											
6																											
7	8.0	17.5		40.0	1.534			7.2	13.2	4.1		32.0	0.170	45.7	2.8	0.00		<1.8									
8	8.3	18.7		42.0	3.812			7.1	13.7	3.4		34.0	0.144	28.7	6.9	0.00											
9	7.8	17.5		36.0	1.007			7.2	13.7	3.9		32.0	0.176	35.0	1.6	0.00											
10	8.0	16.9		36.0	1.321			7.1	13.0	3.1		34.0	0.136	46.7	1.4	0.00											
11	8.1	16.4	15.0	40.0	1.977	250	160	7.0	13.0	3.7	<.01	32.0	0.089	51.4	2.0	0.00			19		15						
12	8.1	16.3						7.4	12.4	4.0				54.1	0.2	0.00											
13	7.1	14.6						7.2	12.2	3.9				51.2	0.5	0.00											
14	7.9	15.3		34.0	0.962			7.4	12.2	3.5		32.0	0.213	49.5	2.0	0.00		<1.8									
15	7.9	15.3		36.0	1.018			7.2	11.0	3.9		32.0	0.144	49.8	2.8	0.00											
16	8.1	15.4		36.0	1.659			7.3	10.6	3.3		32.0	0.171	46.7	2.4	0.00											
17	8.0	16.1		34.0	1.180			7.4	11.0	4.1		32.0	0.210	47.3	3.0	0.00											
18	8.2	16.2	20.0	40.0	2.501	170	220	7.2	12.1	4.9	<.01	34.0	0.166	54.0	2.1	0.00			40		41						
19	7.6	14.9						7.3	11.2	4.0				44.5	3.8	0.00											
20	7.2	14.5						7.3	10.7	3.4				39.7	3.4	0.00											
21	7.7	15.3		30.0	0.580			7.4	11.8	5.0		28.0	0.195	32.6	3.3	0.00		<1.8									
22	7.7	15.0		36.0	0.678	160	96	7.3	11.1	3.8		32.0	0.178	31.9	3.3	0.00			29		23						
23	7.3	14.1	7.5	20.0	0.140			7.4	11.3	3.6	<0.1	32.0	0.215	45.2	3.0	0.00											
24	7.7	14.0						7.6	11.2	4.5				53.6	1.6	0.00											
25	7.5	14.8						7.5	11.3	3.8				57.9	0.9	0.00											
26	7.4	15.1						7.1	11.0	3.3				57.8	1.5	0.00											
27	7.5	13.8						7.0	10.5	4.0				54.1	1.8	0.00											
28	6.8	13.8		12.0	0.026			6.9	10.6	3.7		28.0	0.057	47.9	2.8	0.00		2									
29	7.8	14.7		22.0	0.501	180	160	7.0	10.3	5.3		28.0	0.064	40.0	2.2	0.00			28		30						
30	7.4	14.5		28.0	0.237			7.3	9.9	4.5		28.0	0.142	39.0	0.7	0.00											
31	7.7	14.7	23.0	32.0	0.591			7.4	9.6	3.9	<0.1	28.0	0.165	39.1	1.5	0.00											
																		MEDIAN									
Average	7.7	15.7	17.9	34.2	1.328	206	165	7.2	11.5	4.0	<0.1	31.7	0.186	44.9	2.8	0.0			31		28						
Maximum	8.4	18.7	24.0	48.0	4.960	270	220	7.6	13.7	5.3	<0.1	36.0	0.770	57.9	6.9	0.0			40		41						
Minimum	6.8	13.8	7.5	12.0	0.026	160	96	6.9	9.6	3.1	<0.1	28.0	0.057	28.7	0.2	0.0			19		15						

Waste Water Management Facility 30 Day Average BOD & TSS Work Sheet 2015

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD	BOD	BOD	TSS	TSS	TSS
							mg/L	lbs/day	% Removal	mg/L	lbs/day	% Removal
6/5/2015	0.773	0.903	330	28	300	47	28	211	92	47	354	84
6/12/2015	0.810	0.806	360	45	240	51	45	302	88	51	343	79
6/19/2015	0.784	0.895	290	38	330	45	38	284	87	45	336	86
6/26/2015	0.763	0.752	340	31	220	20	31	194	91	20	125	91
							36	248	89	41	290	85
												Monthly Avg.

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD	BOD	BOD	TSS	TSS	TSS							
							mg/L	lbs/day	% Removal	mg/L	lbs/day	% Removal							
							8/7/2015	0.773	0.743	280	17	280	9	17	105	94	9	57	97
							8/14/2015	0.770	0.798	380	29	170	16	29	193	92	16	106	91
							8/21/2015	0.767	0.750	300	20	250	14	20	125	93	14	88	94
							8/28/2015	0.757	0.803	340	16	340	15	16	107	95	15	100	96
							21	133	94	14	88	94	Monthly Avg.						

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD	BOD	BOD	TSS	TSS	TSS
							mg/L	lbs/day	% Removal	mg/L	lbs/day	% Removal
10/2/2015	0.741	0.882	220	13	270	18	13	96	94	18	132	93
10/9/2015	0.740	0.981	270	28	230	19	28	229	90	19	155	92
10/16/2015	0.750	0.763	190	18	220	34	18	115	91	34	216	85
10/23/2015	0.741	0.754	240	26	260	18	26	163	89	18	113	93
10/30/2015	0.755	0.799	270	17	210	12	17	113	94	12	80	94
							22	143	91	20	139	91

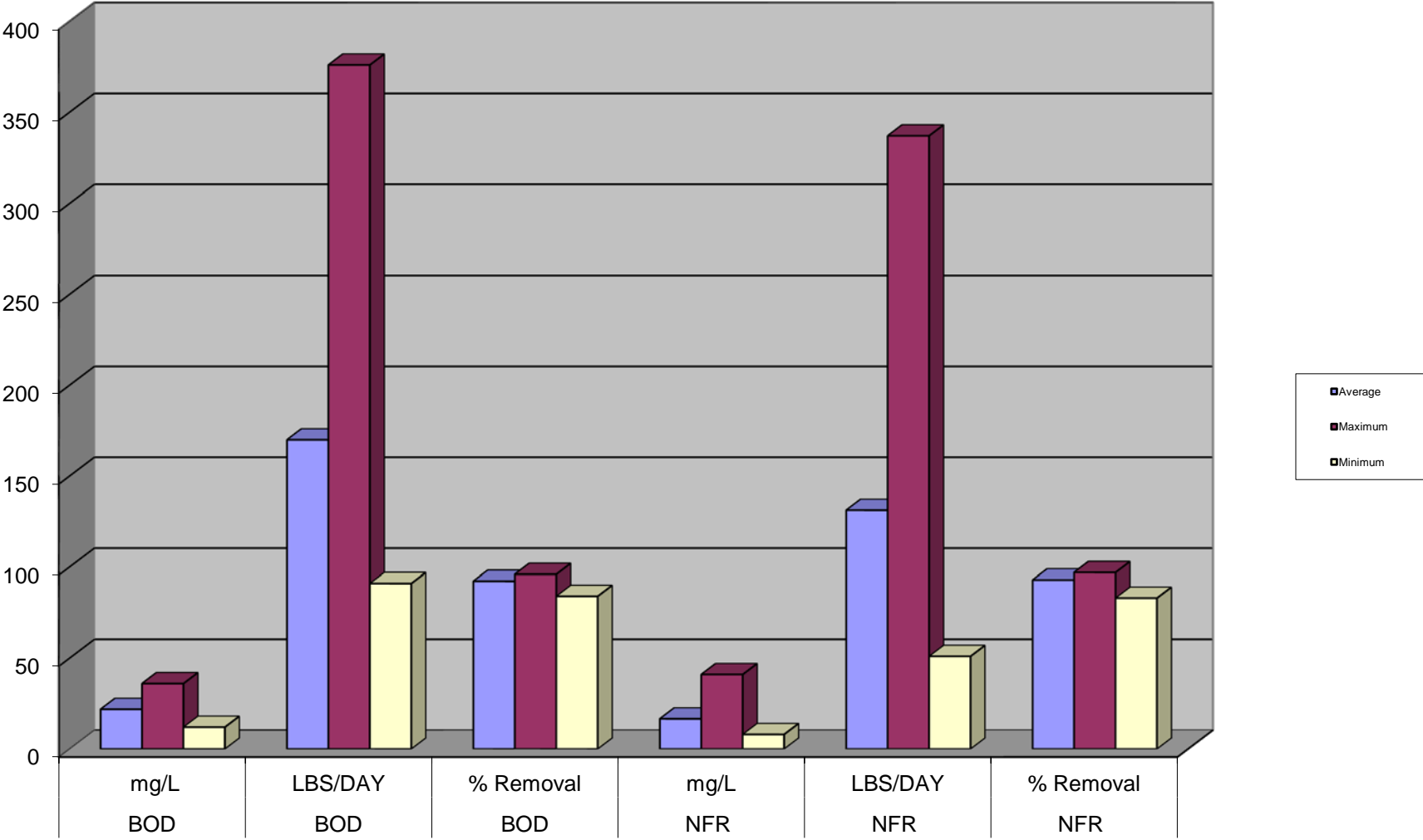
Monthly Avg.

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD	BOD	BOD	TSS	TSS	TSS
							mg/L	lbs/day	% Removal	mg/L	lbs/day	% Removal
12/4/2015	0.836	1.132	270	38	190	31	38	359	86	31	293	84
12/11/2015	1.089	1.203	250	16	160	15	16	161	94	15	150	91
12/18/2015	1.345	1.575	170	40	220	41	40	525	76	41	539	81
12/22/2015	1.389	1.904	160	29	96	23	29	461	82	23	365	76
12/28/2015	1.259	1.631	180	28	160	30	28	381	84	30	408	81
							31	376	84	28	337	83

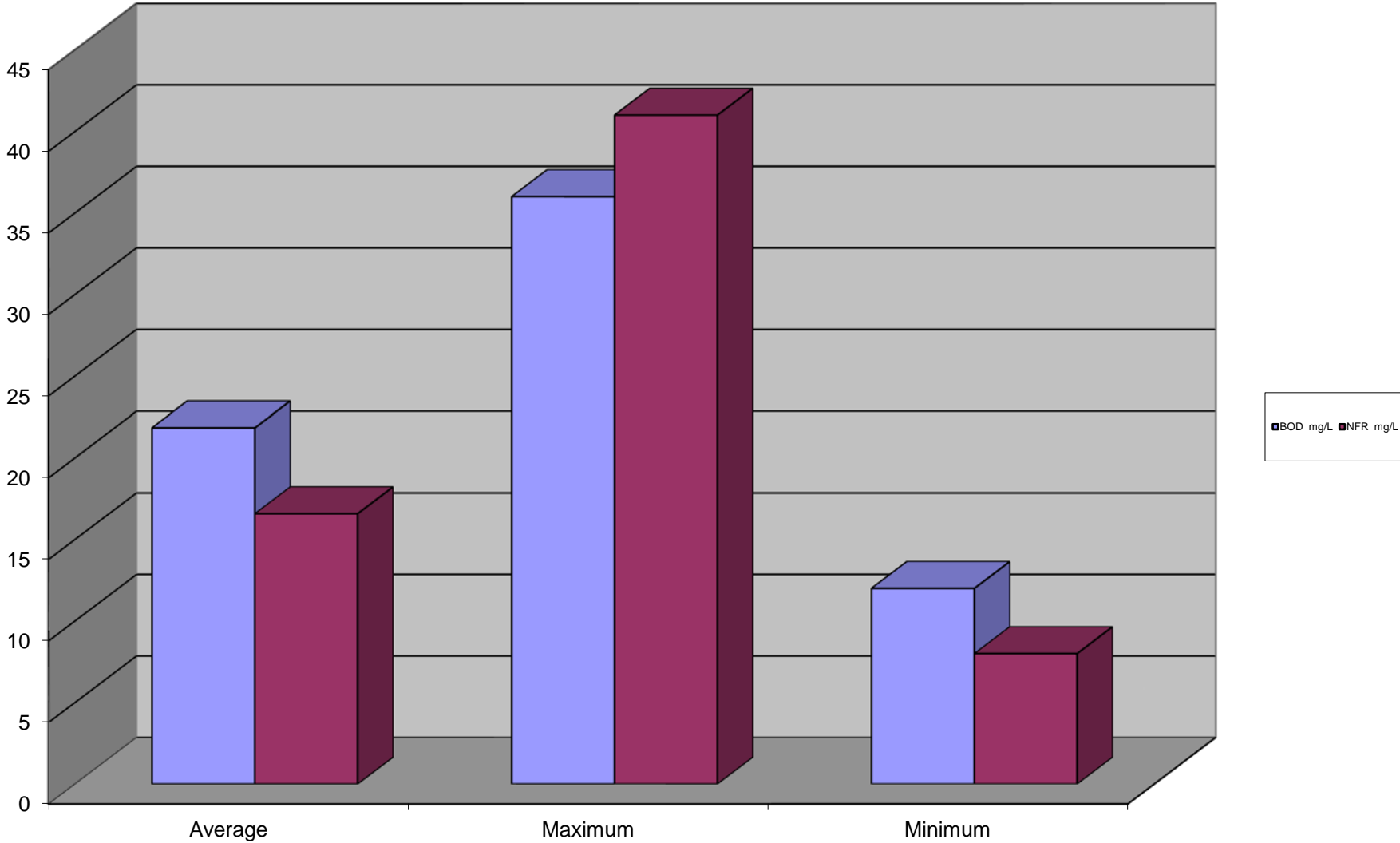
Monthly Avg.

2015 BOD & NFR 30 Day Average						
Average, Maximum and Minimum Totals						
Month	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal
January	12	111	95	10	88	96
February	14	152	95	8	88	97
March	16	128	95	9	73	97
April	12	91	96	11	83	97
May	23	137	92	22	132	90
June	36	248	89	41	290	85
July	28	152	93	10	51	96
August	21	133	94	14	88	94
September	22	162	92	13	93	95
October	22	143	91	20	139	91
November	25	206	91	13	112	94
December	31	376	84	28	337	83
Average	22	170	92	17	131	93
Maximum	36	376	96	41	337	97
Minimum	12	91	84	8	51	83

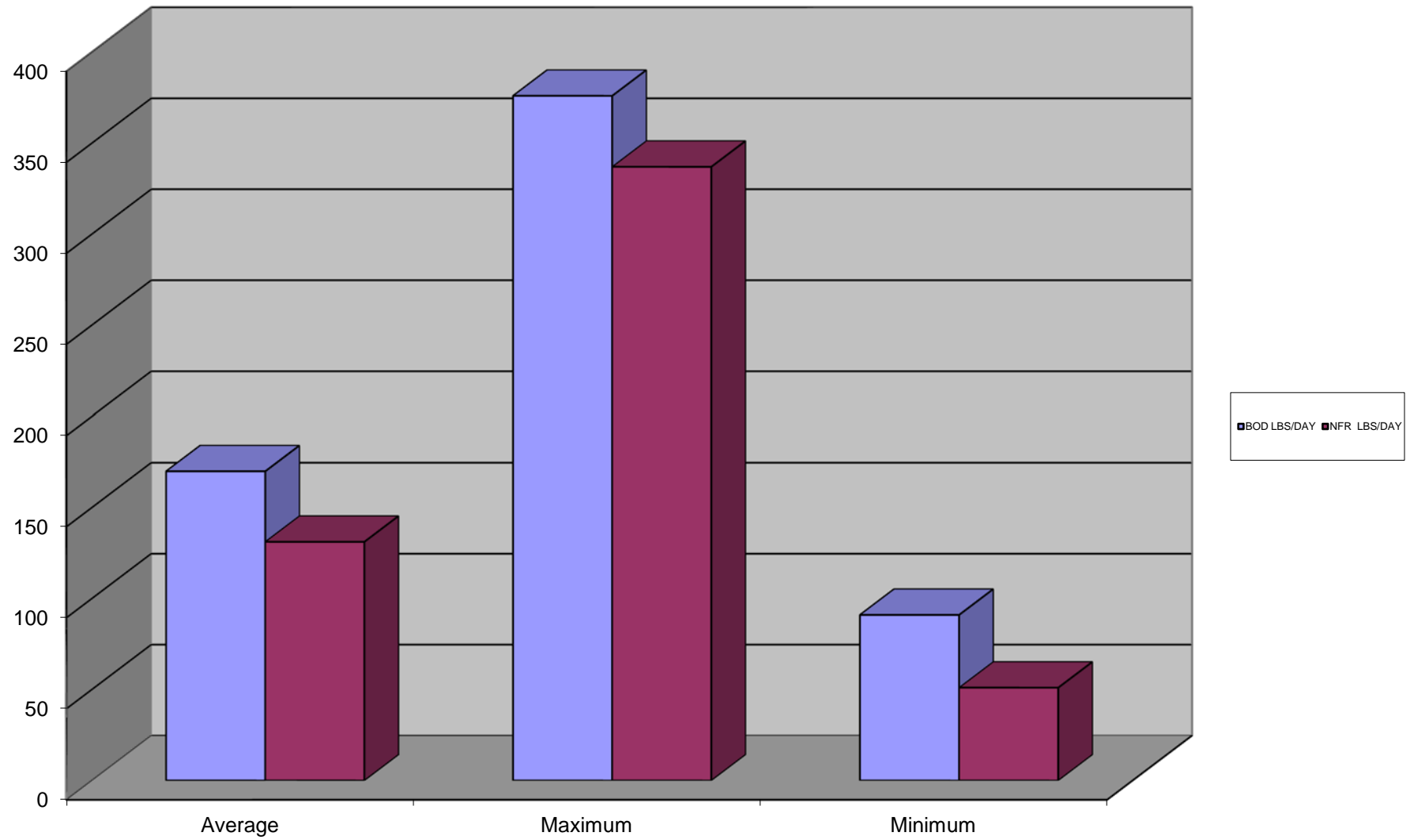
30 Day BOD & NFR
Maximum, Minimum, and Average



BOD & NFR 30 DAY AVERAGE mg/L



BOD & NFR 30 DAY AVERAGE LBS/DAY

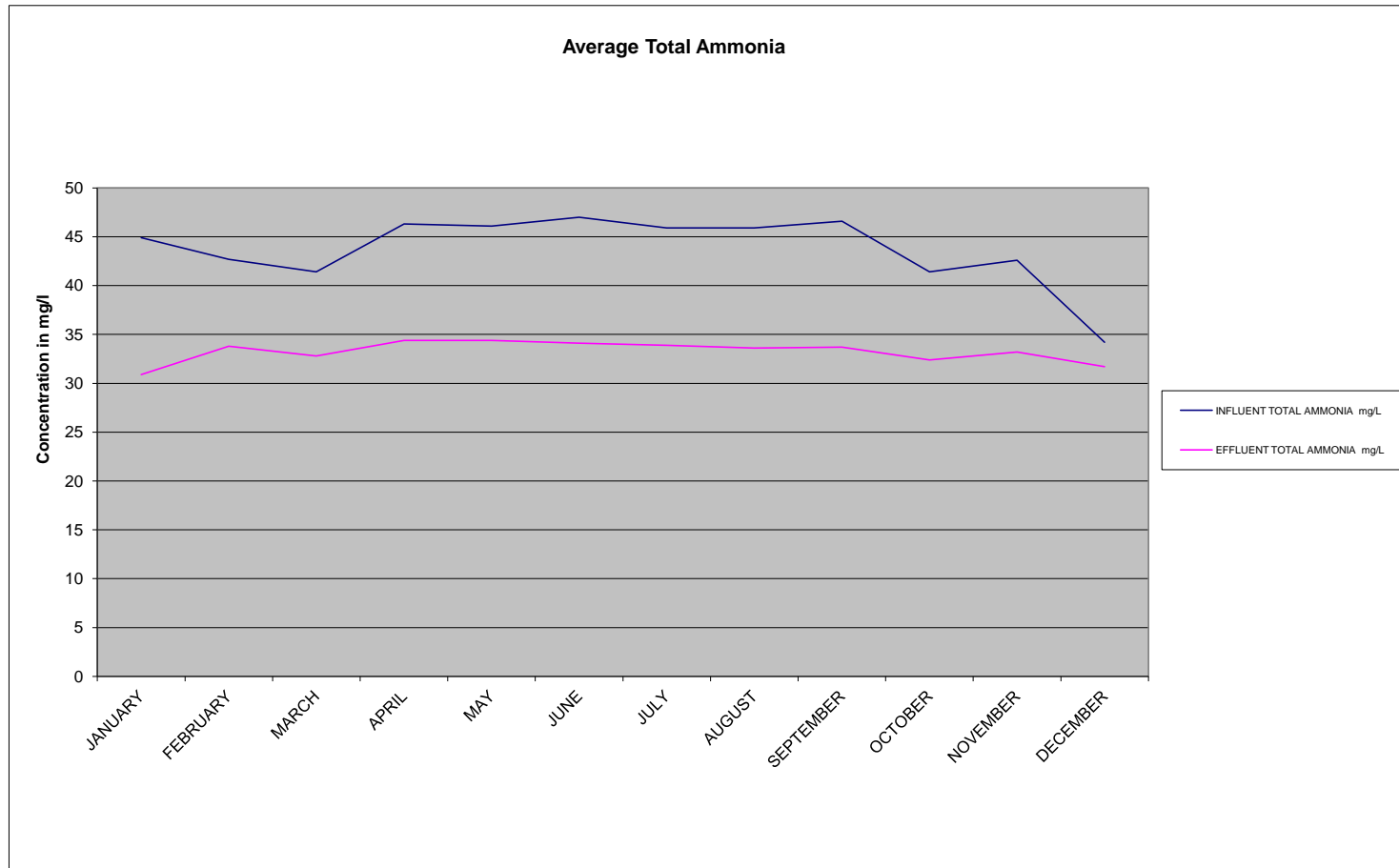


McKinleyville Community Services District
Wastewater Management Facility
2015 Influent, Terminal Pond, and Effluent BOD

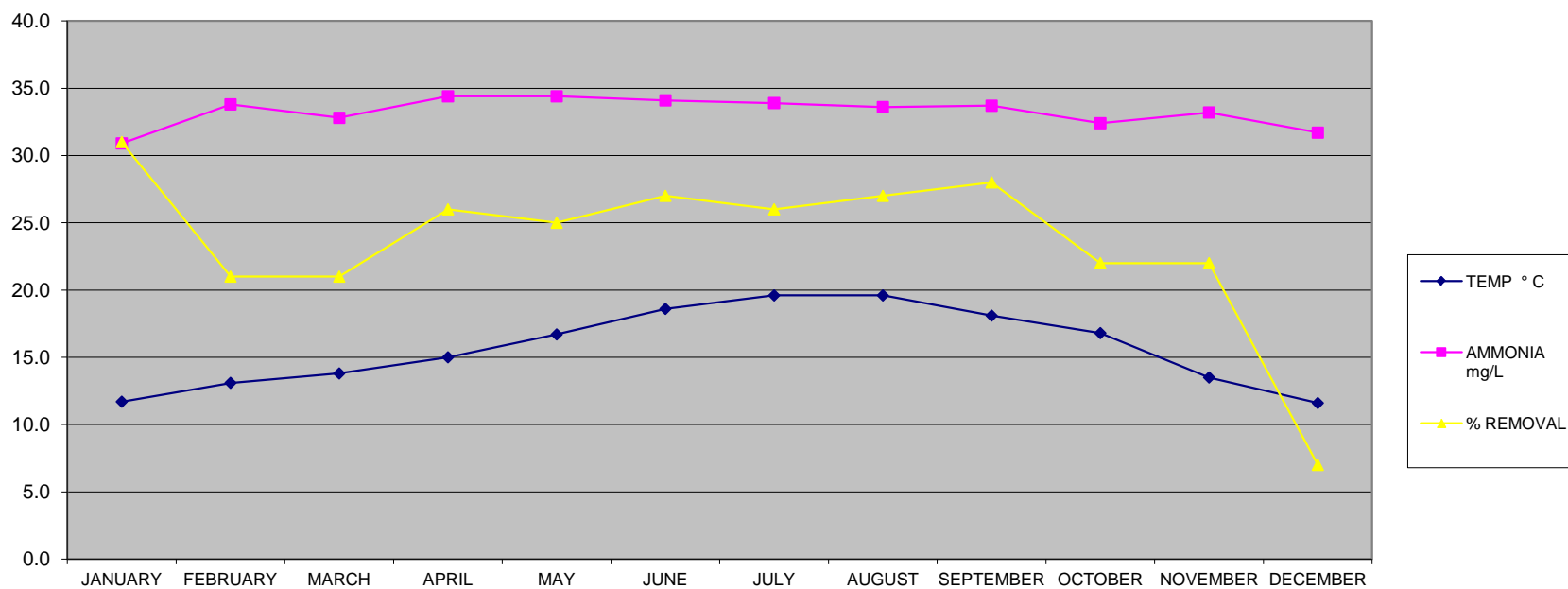
MONTH		INFLUENT	EFFLUENT	POND 4	POND 5
		BOD	BOD	BOD	BOD
January	1/9/2015	210	11		13
	1/16/2015	310	13		18
	1/23/2015	280	12		15
	1/30/2015	260	13		15
February	2/6/2015	280	14		14
	2/13/2015	240	14		15
	2/20/2015	330	15		23
	2/27/2015	320	13		17
March	3/6/2015	320	11		14
	3/13/2015	350	20		17
	3/20/2015	290	16		21
	3/27/2015	340	15		17
April	4/3/2015	400	11		18
	4/10/2015	300	10		15
	4/17/2015	260	12		16
	4/24/2015	280	13		20
May	5/1/2015	340	16		21
	5/8/2015	440	15		21
	5/15/2015	290	18		24
	5/22/2015	270	31		29
	5/29/2015	250	34		40
June	6/5/2015	330	38		96
	6/12/2015	360	45	76	
	6/19/2015	290	38	73	
	6/26/2015	340	31		66
July	7/2/2015	260	26		61
	7/10/2015	590	42		140
	7/17/2015	280	21		61
	7/24/2015	320	21		34
	7/31/2015	240	18		42
August	8/7/2015	280	17		48
	8/14/2015	380	29		31
	8/21/2015	300	20		39
	8/28/2015	340	16		25
September	9/4/2015	400	24		26
	9/11/2015	250	23		23
	9/18/2015	220	17		24
	9/25/2015	260	24		44
October	10/2/2015	220	13		50
	10/9/2015	270	28		43
	10/16/2015	190	18		37
	10/23/2015	240	26		24
	10/30/2015	270	17		35
November	11/6/2015	240	21		20
	11/13/2015	300	24		28
	11/20/2015	330	34		22
	11/24/2015	270	20		23
December	12/4/2015	270	38		20
	12/11/2015	250	19		30
	12/18/2015	170	40		19
	12/22/2015	160	29		16
	12/28/2015	180	28		31
Average		292	22	0	31
Maximum		590	45	76	140
Minimum		160	10	73	13

**McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITIES INFLUENT & EFFLUENT
AVERAGE AMMONIA, TEMPERATURE, pH, CALCULATED UN-IONIZED NH₃**

ANNUAL MONTHLY AVERAGE 2015									
DATE	pH	TEMP ° C	INFLUENT TOTAL AMMONIA mg/L	UN-IONIZED NH ₃ (mg/L)	pH	TEMP ° C	EFFLUENT TOTAL AMMONIA mg/L	UN-IONIZED NH ₃ (mg/L)	% REMOVAL
JANUARY	8.1	16.4	45	2.166	7.1	11.7	31	0.118	31
FEBRUARY	7.9	16.1	43	1.399	6.8	13.1	34	0.072	21
MARCH	7.9	16.4	41	1.582	6.9	13.8	33	0.078	21
APRIL	8.1	17.5	46	2.871	6.9	15.0	34	0.107	26
MAY	8.1	18.8	46	3.184	6.8	16.7	34	0.110	25
JUNE	8.0	19.7	47	2.688	7.0	18.6	34	0.175	27
JULY	8.0	20.9	46	2.514	6.8	19.6	34	0.126	26
AUGUST	8.1	21.5	46	3.097	7.0	19.6	34	0.149	27
SEPTEMBER	8.2	21.3	47	3.858	7.1	18.1	34	0.192	28
OCTOBER	8.2	20.5	41	4.043	7.0	16.8	32	0.155	22
NOVEMBER	8.0	18.3	43	2.647	7.1	13.5	33	0.149	22
DECEMBER	7.8	16.0	34	1.328	7.2	11.6	32	0.186	7
AVERAGE	8.0	18.6	43.8	2.615	7.0	15.7	33.2	0.135	24
MAXIMUM	8.2	21.5	47.0	4.043	7.2	19.6	34.4	0.192	31
MINIMUM	7.8	16.0	34.2	1.328	6.8	11.6	30.9	0.072	7



Relationship Between Temperature and Removal of Monthly Averages



McKINLEYVILLE COMMUNITY SERVICES DISTRICT
MONITORING WELL DATA 2015

Location	W-001		W-002		W-006		W-007		W-008		W-009		W-014		W-015		W-016	
Quarter	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS
January	ND	130	2.2	84	24	330	24	310	9.2	180	15	220	1.5	100	ND	510	ND	6200
April	12	210	3.2	110	24	330	27	360	6.8	150	20	290	1.8	100	ND	780	ND	6200
July	13		4		23		21		16		18		2.3		ND		ND	
October	23	300	4.8	110	26	340	30	340	26	330	25	310	2.3	87	0.13	650	ND	6200
AVERAGE	0.0	213.3	3.6	101.3	24.3	333.3	25.5	336.7	14.5	220.0	19.5	273.3	2.0	95.7	0.1	646.7	ND	6200.0
MAXIMUM	23.0	300.0	4.8	110.0	26.0	340.0	30.0	360.0	26.0	330.0	25.0	310.0	2.3	100.0	0.1	780.0	ND	6200.0
MINIMUM	12.0	130.0	2.2	84.0	23.0	330.0	21.0	310.0	6.8	150.0	15.0	220.0	1.5	87.0	0.1	510.0	0.0	6200.0

McKinleyville Community Services District
River Monitoring 2015

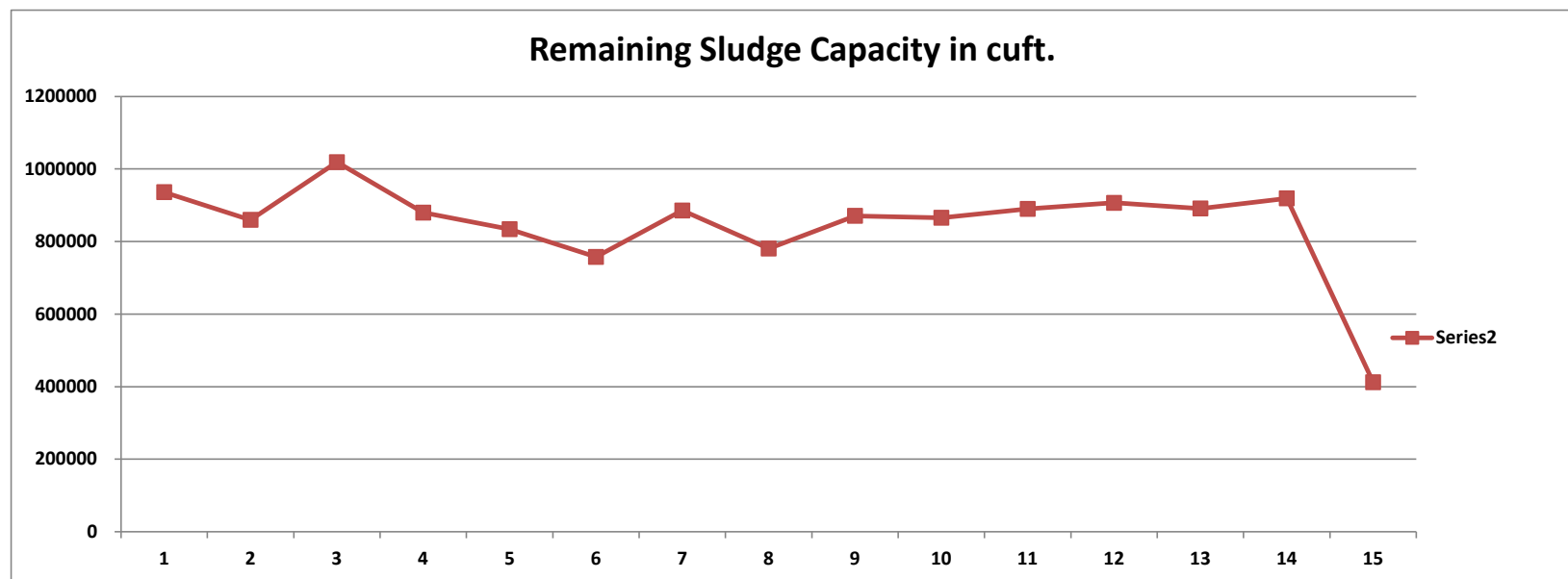
Upstream R-001											
Month	Date	Time	CFS	Temp	pH	D.O.	NTU	Conductivity	Ammonia	Hardness	TDS
January	1/5/2015	14:00	783	12.8	7.2	10.9	15.3	70.8	0.22	67	86
February	2/4/2015	1505	1220	12.8	7.2	10.9	15.3	70.8	0.12	58	93
March	3/3/2015	1425	457	12.4	7.4	11.4	4.43	81.9	ND	73	100
April	4/1/2015	1420	448	14.6	7.9	8.0	4.58	86.5	ND	77	100
May	5/1/2015	1450	267	20.7	8.0	9.9	1.06	120.8	ND		120
June	6/9/2015	0935	47	21.5	8.0	9.4	0.87	146.2	ND		120
July	07/09/15	1045	51	18.7	8.4	9.2	0.74	137.4	ND		140
August	8/10/2015	1110	47	23.4	8.5	8.4	0.52	201.0	ND		130
September	9/8/2015	1315	35	26.3	7.5	7.2	0.74	198.5	ND		140
October	10/5/2015	1055	37	12.5	7.9	10.0	0.79	264.0	ND		135
November	11/4/2015	0910	69	13.9	7.8	8.9	0.35	141.0	ND		130
December	12/8/2015	1130	564	12.2	7.7	9.9	12.9	99.2	ND	71	100
Average				16.8	7.8	9.5	4.8	134.8	ND	69	116
Maximum				26.3	8.5	11.4	15.3	264.0	ND	77	140
Minimum				12.2	7.2	7.2	0.4	70.8	ND	58	86

Downstream R-002											
Month	Date	Time	CFS	Temp	pH	D.O.	NTU	Conductivity	Ammonia	Hardness	TDS
January	1/5/2015	14:20	783	13.1	7.2	12.6	16.5	68.4	1.10	68	90
February	2/4/2015	1445	1220	13.1	7.2	12.6	16.5	68.4	0.28	58	96
March	03/03/15	1415	457	12.1	6.9	10.7	7.49	124.7	3.60	76	130
April	4/1/2015	1400	448	14.4	7.8	8	5.41	102.0	ND	77	110
May	5/1/2015	1425	267	20.9	7.6	8.8	1.54	183.2	0.44		130
June	6/9/2015	0920	47	20.4	7.6	8.6	1.16	382.0	ND		310
July	07/09/15	1030	51	18.4	7.7	8.3	0.9	948.00	ND		890
August	8/10/2015	1125	47	21.5	7.6	8.3	1.42	2.4	ND		2,200
September	9/8/2015	1335	35	21.9	7.3	8.7	1.83	3.13	ND		2,300
October	10/5/2015	1025	37	13.6	7.4	7.2	1.68	3.2	ND		2500
November	11/4/2015	0925	69	12.9	7.2	7.6	1.45	659.0	ND		550
December	12/8/2015	1110	564	12.8	7.6	10.9	16.9	110.4	0.13	71	110
Average				16.3	7.4	9.4	6.1	221.2	1.11	70	785
Maximum				21.9	7.8	12.6	16.9	948.0	3.60	77	2500
Minimum				12.1	6.9	7.2	0.9	2.4	0.13	58	90

WWMF M-001											
Month	Date	Time	CFS	Temp	pH	D.O.	NTU	Conductivity	Ammonia	Hardness	TDS
January	1/5/2015	14:50	783	14.1	6.9	4.5	40.3	382.0	56		230
February	2/4/2015	1530	1220	14.1	6.9	4.5	40.3	382.0	34		250
March	3/3/2015	1440	457	13.2	6.9	3.2	32.2	345.0	25		240
April	4/1/2015	1330	448	15.3	7.0	3.8	37.4	362.0	35		240
May	5/1/2015	1600	267	15.7	6.9	3.3	64.6	426.0	35		260
June	6/9/2015	1000	47	19.3	6.9	3.1	66.5	464.0	35		300
July	07/09/15	1120	51	19.4	6.8	3.4	79.9	464.0	27		320
August	8/10/2015	1030	47	20.0	7.6	3.1	44.8	462.0	39		320
September	9/8/2015	1100	35	19.0	7.0	3.5	43.2	627.0	45		310
October	10/5/2015	1130	37	11.5	7.1	3.5	45	691.0	39		320
November	11/4/2015	0950	69	14.7	7.0	3.1	55.6	564.0	34		340
December	12/8/2015	1145	564	13.7	7.1	3.4	28.7	491.0	44		290
Average				15.8	7.0	3.5	48.2	471.7	37	0	285
Maximum				20.0	7.6	4.5	79.9	691.0	56	0	340
Minimum				11.5	6.8	3.1	28.7	345.0	25	0	230

FEBRUARY 2015

POND 1 A				POND 1 B		
	CENTER	SOUTH	NORTH	CENTER	SOUTH	NORTH
1	Pond Drained For Construction			12	9	14
2				12	20	21
3				13	15	19
4				10	14	8
5				8	13	10
6				9	12	8
7				8	16	6
8				5	13	0
9				5	12	18
10				6	14	18
11				8	20	6
12				7	16	18
13				7	18	12
14				7	12	13
15				9	21	18
16				7	15	10
17				7	19	0
18				9	12	11
19				11	19	4
20				12	12	11
21				14	14	19
22				17	18	12
23				13	18	12
24				8	13	10
AVERAGE	0	0	0	9	15	12
MAXIMUM	0	0	0	17	21	21
MINIMUM	0	0	0	5	9	0
ALL				POND A POND B		
AVERAGE	ALL	0		AVERAGE	0	12
MAXIMUM	ALL	0		MAXIMUM	0	20
MINIMUM	ALL	0		MINIMUM	0	5
POND 1A	-	CUFT		AVERAGE POND 1A =	0.0	Ft. DEPTH
POND 1B	100,593	CUFT		AVERAGE POND 1B =	1.0	Ft. DEPTH
TOTAL 100,593 CUFT						
CAPACITY	POND A = 0 CUFT POND B = 501,225 CUFT					
REMAINING	POND A = 0 CUFT POND B = 412,118 CUFT					
TOTAL SLUDGE CAPACITY 501,225 CUFT						
TOTAL REMAINING SLUDGE CAPACITY 412,118 CUFT						



McKinleyville Community Services District
Wastewater Management Facility
Pond Ammonia Levels in mg/L
Annual Averages 2015

Date		Pond A	Pond B	Pond 2	Pond 3	Pond 4	Pond 5
January		drained	31.0	32.0	34.0	33.0	33.0
February		drained	32.0	32.0	34.0	34.0	35.0
March		drained	33.0	32.0	33.0	34.0	34.0
April		drained	33.0	33.0	33.0	34.0	36.0
May		drained	32.0	33.0	35.0	35.0	36.0
June		drained	32.0	34.0	34.0	34.0	37.0
July		drained	32.0	32.0	32.0	35.0	35.0
August		drained	30.0	33.0	33.0	33.0	34.0
September		drained	31.0	34.0	36.0	35.0	36.0
October		drained	31.0	32.0	32.0	32.0	32.0
November		drained	33.0	34.0	36.0	36.0	36.0
December		drained	29.0	29.0	30.0	31.0	31.0
Average		drained	31.6	32.5	33.5	33.8	34.6
Minimum		0.0	29.0	29.0	30.0	31.0	31.0
Maximum		0.0	33.0	34.0	36.0	36.0	37.0

McKinleyville Community Services District
Wastewater Management Facility
Pond Temperatures in C
Annual Averages 2015

								Average
Date		Pond A	Pond B	Pond 2	Pond 3	Pond 4	Pond 5	Pond Temp.
January		drained	13.3	12.7	12.1	11.6	11.4	12.2
February		drained	14.6	14.3	14.0	13.7	13.4	14.0
March		drained	15.4	15.3	15.0	14.7	14.1	14.9
April		drained	16.5	16.7	16.2	15.9	14.9	16.0
May		drained	18.0	18.4	18.0	17.7	16.6	17.7
June		drained	20.0	20.4	20.0	19.5	18.3	19.7
July		drained	21.5	21.8	21.5	21.0	19.7	21.1
August		drained	20.9	21.2	20.9	20.4	19.7	20.6
September		drained	19.6	19.7	19.3	18.9	18.2	19.1
October		drained	18.0	17.9	17.6	17.3	16.8	17.5
November		drained	14.6	14.2	13.6	13.5	13.4	13.8
December		drained	12.4	11.7	11.3	11.2	11.2	11.6
Average		drained	17.1	17.0	16.6	16.3	15.6	
Minimum		0.0	12.4	11.7	11.3	11.2	11.2	
Maximum		0.0	21.5	21.8	21.5	21.0	19.7	

McKinleyville Community Services District
Wastewater Management Facility
Pond pH
Annual Averages 2015

								Average
Date		Pond A	Pond B	Pond 2	Pond 3	Pond 4	Pond 5	Pond pH
January		drained	7.3	7.3	7.3	7.3	7.2	7.3
February		drained	7.2	7.3	7.3	7.3	7.2	7.3
March		drained	7.3	7.4	7.5	7.3	7.2	7.3
April		drained	7.5	7.6	7.5	7.3	7.2	7.4
May		drained	7.5	7.6	7.5	7.3	7.1	7.4
June		drained	7.5	7.7	7.6	7.3	7.1	7.5
July		drained	7.6	7.7	7.7	7.3	7.1	7.5
August		drained	7.5	7.7	7.7	7.4	7.2	7.5
September		drained	7.5	7.7	7.7	7.5	7.2	7.5
October		drained	7.4	7.6	7.7	7.5	7.3	7.5
November		drained	7.0	7.2	7.3	7.5	7.4	7.5
December		drained	7.2	7.3	7.3	7.3	7.2	7.3
Average		drained	7.4	7.5	7.5	7.4	7.2	
Minimum		0.0	7.0	7.2	7.3	7.3	7.1	
Maximum		0.0	7.6	7.7	7.7	7.5	7.4	

McKinleyville Community Services District
Wastewater Management Facility
Pond Dissolved Oxygen in mg/L
Annual Averages 2015

								Average
Date		Pond A	Pond B	Pond 2	Pond 3	Pond 4	Pond 5	Pond D.O.
January		drained	3.0	3.4	6.4	5.4	3.0	4.2
February		drained	3.4	4.1	6.4	4.5	3.1	4.3
March		drained	3.7	4.3	7.2	4.8	2.9	4.6
April		drained	5.3	5.5	6.0	4.5	2.9	4.8
May		drained	3.9	3.8	5.4	3.4	1.5	3.6
June		drained	2.1	2.7	4.8	2.8	1.2	2.8
July		drained	1.7	2.9	4.5	3.0	1.1	2.7
August		drained	1.6	3.2	4.3	3.1	1.2	2.7
September		drained	2.8	3.7	5.3	3.1	0.8	3.1
October		drained	1.6	3.0	5.1	3.3	0.9	2.8
November		drained	2.3	3.6	5.0	3.0	1.1	3.0
December		drained	1.8	2.4	5.4	3.1	1.3	2.8
Average		drained	2.8	3.6	5.5	3.7	1.8	
Minimum		0.0	1.6	2.4	4.3	2.8	0.8	
Maximum		0.0	5.3	5.5	7.2	5.4	3.1	

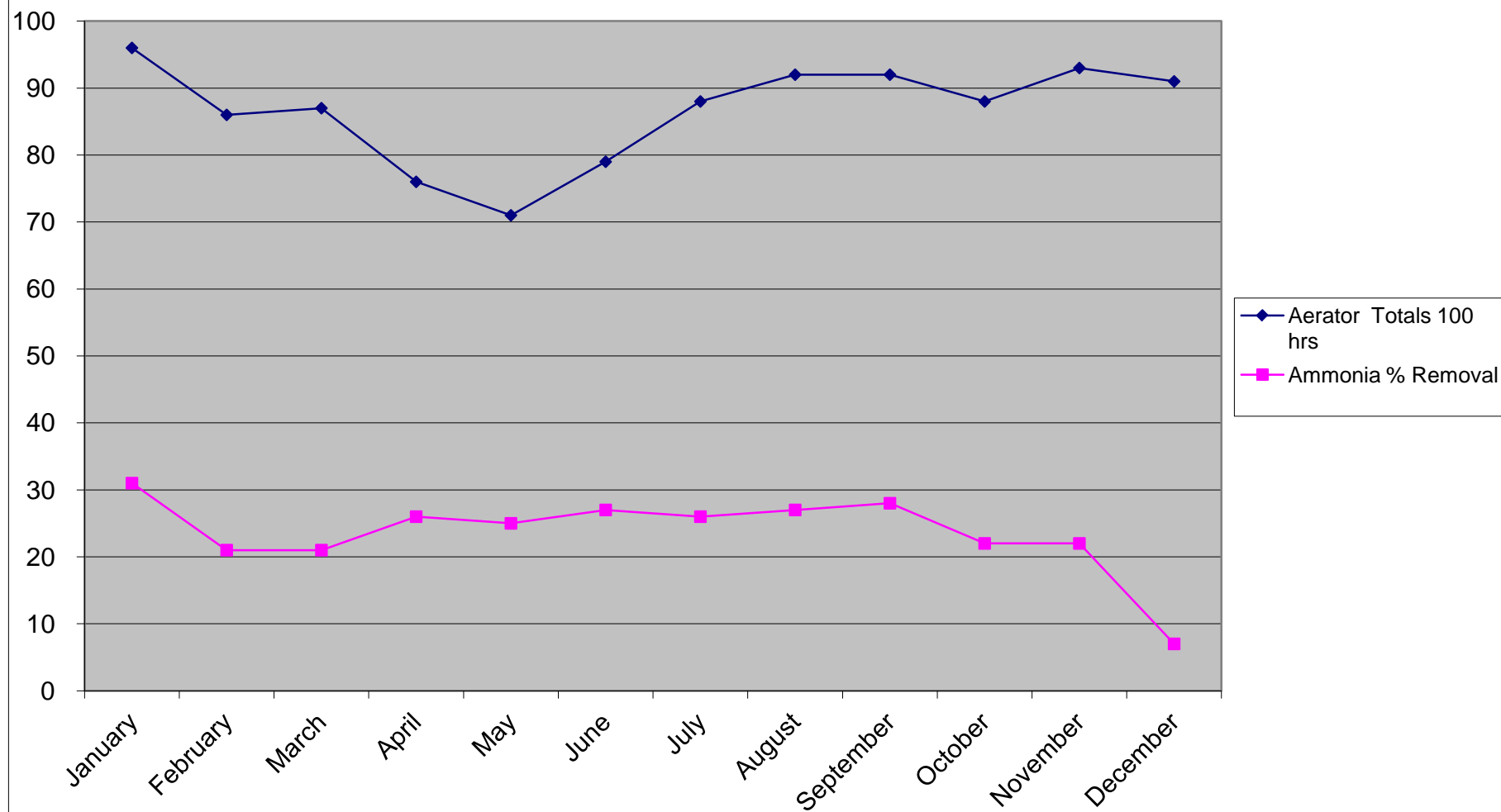
McKinleyville Community Services District
Wastewater Management Facility
Pond Depths, Elevation in Feet Above Sea Level
Annual Averages 2015

								Average
Date		Pond A	Pond B	Pond 2	Pond 3	Pond 4	Pond 5	Pond Depth
January		drained	62.1	61.9	61.6	61.4	61.0	61.6
February		drained	62.4	62.1	61.8	61.5	60.9	61.8
March		drained	62.0	61.8	61.6	61.4	60.9	61.5
April		drained	62.2	61.7	61.4	61.3	60.7	61.4
May		drained	62.2	61.5	61.2	61.2	60.9	61.4
June		drained	62.2	61.4	61.2	61.1	60.8	61.4
July		drained	62.1	61.4	61.2	61.2	61.1	61.1
August		drained	62.6	61.8	61.5	61.5	61.3	61.7
September		drained	62.3	61.5	61.2	61.2	60.9	61.4
October		drained	62.0	61.3	61.1	61.0	60.7	61.2
November		drained	62.4	61.6	61.3	61.2	61.0	61.5
December		drained	62.5	62.0	61.4	61.1	60.7	61.5
Average		drained	62.3	61.7	61.4	61.3	60.9	
Minimum		0.0	62.0	61.3	61.1	61.0	60.7	
Maximum		0.0	62.6	62.1	61.8	61.5	61.3	

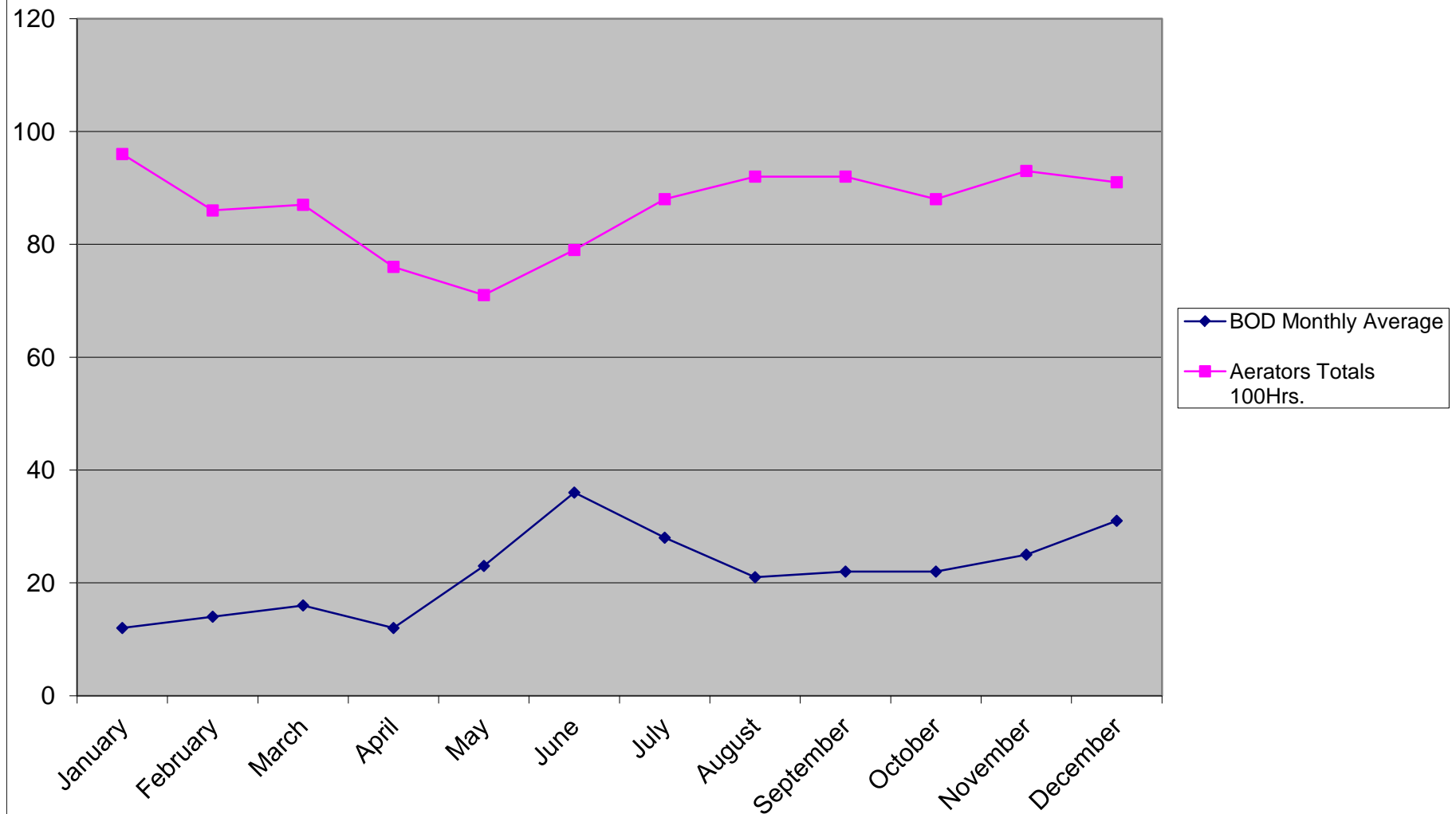
McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
ANNUAL TOTAL AERATOR HOURS 2015

DATE	Pond B			Pond B							Pond			Totals
	1A	2A	4A	1B	2B	3B	4B	5B	3-A	3-B	2-A	2-B	4-A	
January	743.9	743.9	743.8	743.8	743.9	743.9	743.8	743.9	743.9	743.9	743.9	743.9	743.8	9670.3
February	664.5	664.5	664.5	664.6	664.5	664.5	664.5	666.5	666.5	666.5	666.5	666.5	664.5	8648.6
March	670.4	670.4	670.4	670.4	670.4	670.4	670.4	670.5	670.4	670.4	670.5	670.5	670.4	8715.5
April	503.8	470.0	504.6	671.9	671.7	655.3	671.8	535.2	573.1	573.1	573.0	535.2	671.8	7610.5
May	374.2	373.3	375.3	743.9	743.9	743.9	744.0	403.0	495.6	495.6	495.6	403.0	744.0	7135.3
June	537.8	536.9	433.8	625.2	720.0	719.9	719.9	552.4	599.4	599.4	599.4	552.4	719.9	7916.4
July	739.6	737.7	603.9	739.7	182.4	737.7	739.6	737.8	739.3	739.3	739.2	737.8	720.1	8894.1
August	333.2	743.6	743.6	743.6	743.6	743.6	743.6	743.5	743.6	743.6	743.6	743.5	743.6	9256.2
September	677.8	716.3	716.1	716.3	716.3	716.4	716.3	716.4	717.9	717.9	718.0	716.4	716.3	9278.4
October	695.9	696.0	696.0	466.7	696.0	695.9	696.0	696.1	694.4	694.4	696.0	696.1	744.0	8863.5
November	718.8	719.8	718.8	680.4	719.8	719.9	718.8	719.9	719.9	719.9	720.0	719.9	719.8	9315.7
December	745.0	745.0	745.0	745.0	217.1	745.0	745.0	742.5	742.5	742.5	742.5	742.5	745.0	9144.6
TOTAL	7404.9	7817.4	7615.8	8211.5	7489.6	8556.4	8573.7	7927.7	8106.5	8106.5	8108.2	7927.7	8603.2	104449.1
AVERAGE	617.1	651.5	634.7	624.1	624.1	713.0	714.5	660.6	675.5	675.5	675.7	660.6	716.9	8704.1
MAXIMUM	745.0	745.0	745.0	743.9	743.9	745.0	745.0	743.9	743.9	743.9	743.9	743.9	745.0	9670.3
MINIMUM	333.2	373.3	375.3	182.4	182.4	655.3	664.5	403.0	495.6	495.6	495.6	403.0	664.5	7135.3

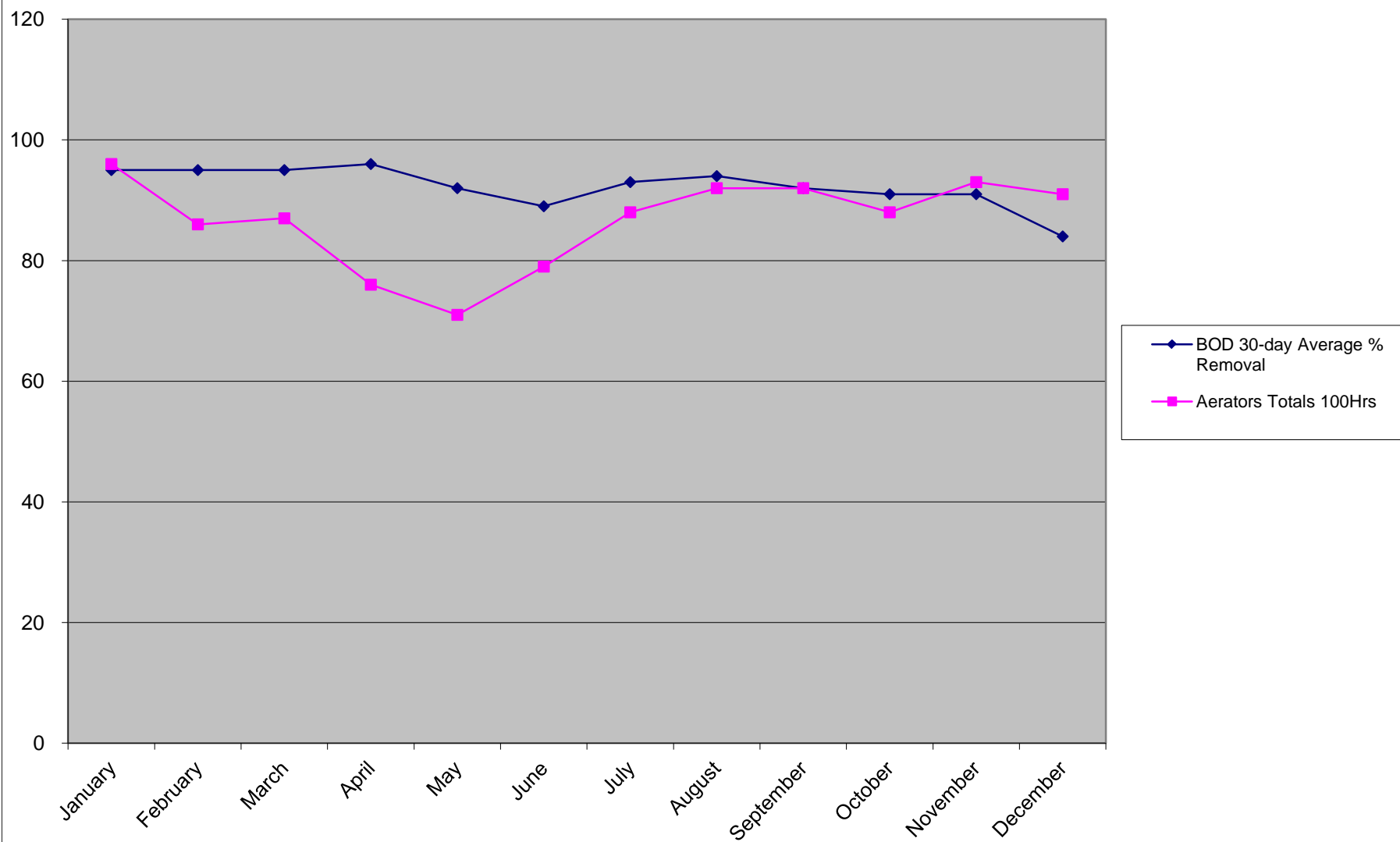
Aerator Hours Versus Ammonia Percent Removal



Aerator Hours Versus Effluent BOD



Aerator Hours Versus BOD 30-day Average % Removal



MCKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
ELECTRIC, CL₂, SO₂, WATER and RAIN DATA
ANNUAL 2015

DATE	PG&E kw Hours	CL ₂ USAGE lbs.	SO ₂ USAGE lbs.	RAIN inches
JANUARY	40560	1938	993	3.20
FEBRUARY	36240	5203	1226	6.50
MARCH	19920	5208	1027	5.90
APRIL	35600	5754	1166	3.60
MAY	36800	4258	6	0.20
JUNE	40080	3056	0	0.00
JULY	44320	3328	0	0.20
AUGUST	45760	3370	0	1.00
SEPTEMBER	47040	3207	0	0.70
OCTOBER	43280	3253	0	2.40
NOVEMBER	46400	3300	0	8.00
DECEMBER	42480	3029	1242	16.50

TOTAL	478480	44904	5660	48.2
AVERAGE	39873	3742	472	4.02
MAXIMUM	47040	5754	1242	16.50
MINIMUM	19920	1938	0	0.00

WWMF WATER METER			
DATE	LOW	HIGH	CU.FT.
START	39876	105982	
END	43567	114160	

SPECIAL TESTING

	INFLUENT				EFFLUENT			
DATE	TKN Grab	TKN Comp.	ALKALINITY	NITRATE	TKN Grab	TKN Comp.	ALKALINITY	NITRATE
1/9/2015	77	79	280	ND	40	39	200	ND
1/16/2015	74	83	270	ND	38	41	190	ND
1/23/2015	48	54	300	ND	30	31	200	ND
1/30/2015	95	74	310	ND	44	39	200	ND
2/6/2015	74	75	240	ND	38	40	190	ND
2/13/2015	79	62	240	ND	37	32	200	ND
2/20/2015	89	73	280	ND	38	41	180	ND
2/27/2015	82	83	200	ND	44	37	190	ND
3/6/2015	93	78	250	ND	48	41	190	ND
3/13/2015	46	57	190	ND	24	34	180	ND
3/20/2015	57	51	310	ND	32	28	200	ND
3/27/2015	61	66	210	ND	43	40	200	ND
4/3/2015	85	52	300	ND	34	32	200	ND
4/10/2015	82	74	300	ND	54	41	190	ND
4/17/2015	85	100	290	ND	54	71	200	ND
4/24/2015	83	92	310	ND	48	56	210	ND
5/1/2015	75	57	280	ND	43	42	200	0.16
5/8/2015	110	77	360	ND	46	48	210	ND
5/15/2015	83	52	330	ND	42	40	220	ND
5/22/2015	87	51	320	ND	45	42	230	ND
5/29/2015	92	59	360	ND	47	45	230	ND
6/5/2015	79	55	300	ND	43	44	230	ND
6/12/2015	87	57	330	ND	47	44	240	ND
6/19/2015	97	53	310	ND	48	47	240	ND
6/26/2015	88	63	340	ND	46	45	240	ND
7/2/2015	66	62	280	ND	46	45	240	ND
7/10/2015	82	60	330	ND	55	53	250	ND
7/17/2015	89	63	340	ND	54	50	250	ND
7/24/2015	49	58	230	ND	45	44	260	ND
7/31/2015	80	58	330	ND	42	44	240	ND
8/7/2015	69	54	360	ND	34	33	250	ND
8/14/2015	72	45	360	ND	37	35	260	ND
8/21/2015	74	59	350	ND	42	39	260	ND
8/28/2015	74	67	380	ND	45	42	270	ND
9/4/2015	76	73	350	ND	42	41	270	ND
9/11/2015	69	62	340	ND	37	38	270	ND
9/18/2015	93	56	360	ND	45	45	280	ND
9/25/2015	120	410	60	ND	55	45	270	ND

10/2/2015	81	52	350	ND	42	39	270	ND
10/9/2015	84	67	340	ND	44	43	270	ND
10/16/2015	93	55	340	ND	42	40	260	ND
10/23/2015	91	56	350	ND	46	44	260	ND
10/30/2015	89	66	350	ND	52	46	260	ND
11/6/2015	94	65	380	ND	52	46	260	ND
11/13/2015	85	55	340	ND	48	49	260	ND
11/20/2015	76	54	300	ND	46	46	250	ND
11/24/2015	74	64	280	ND	47	44	250	ND
12/4/2015	83	73	320	ND	52	49	240	ND
12/11/2015	86	75	250	ND	50	50	230	ND
12/18/2015	60	37	210	ND	38	35	220	ND
12/22/2015	44	38	190	ND	36	33	200	ND
12/29/2015	49	200	38	ND	38	33	180	ND