Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

Month: April 2020

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	04/06/20	04/07/20	04/08/20	04/09/20	04/10/20	04/11/20	04/12/20		
FLOW									
Effluent Flow (gal/day)	255,937	431,671	401,631	398,082	446,089	26,453	99,650	294,216	2,059,513
Return Sludge Flow (gal/day)	406,561	407,419	406,394	406,295	409,590	411,100	399,936	406,756	
Belt Press Feed (gal/day)	49,299	50,309	40,008	39,716	0			35,866	179,332
Water From River (gal/day)	362,141	448,758	449,941	357,390	91,254	61,903	227,929	285,617	1,999,316
Water To Bleachery (gal/day)	219,922	307,688	313,560	224,998	7,390	0	66,173	162,819	1,139,731
Effluent - River (gal/day)	(106,204)	(17,087)	(48,310)	40,692	354,835	(35,450)	(128,279)	8,600	60,197
COD									
Influent COD (mg/L)									
Effluent COD (mg/L)									
Effluent COD (lb)									
% COD Reduction									
	LBS = mg/L*MGD*8.34								
BOD5									
Final Effluent (mg/L)									
Final Effluent (lb)									
	LBS = mg/L*MGD*8.34								
SUSPENDED SOLIDS									
MLSS, North Lagoon (mg/L)	1,480	1,560	1,400	1,600	1,600			1,528	
MLVSS, North Lagoon (mg/L)			1,120					1,120	
MLSS, South Lagoon (mg/L)								#DIV/0!	
MLVSS, South Lagoon (mg/L)								#DIV/0!	
MLSS, Return Sludge (mg/L)	2,600	2,130	4,830	2,960	3,800			3,264	
MLVSS, Return Sludge (mg/L)			3,830					3,830	
Influent TSS (mg/L)		20						20	
Effluent TSS (mg/L)		5						5	
Effluent TSS (lb)		11						11	
% TSS Reduction		75						75	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	310	240	250	230	210			248	
South Lagoon (mL/L)								#DIV/0!	
SLUDGE BLANKET									
North Clarifier (ft)	2	2	3.0	2.0	2.0			2.2	
South Clarifier (ft)	0	0	0.0	0.0	0.0			0.0	
SULFIDE									
Effluent Sulfide (mg/L)									
Effluent Sulfide (lb/day)									
	LBS = mg/L*MGD*8.34								
WEATHER									
Rainfall (inches)	0.00	0.00	0.00	0.00	0.84	0.04	0.00		0.88
Air Temperature (deg F)	34	30	44	40	36	38	32	36	

Maximum Effluent Daily Flow: 446,089 gal.

Maximum Effluent Temperature: 88

Per 314 CMR Chapter 12.07 (2)

Send to:

Department of Environmental Protection

Attention: Industrial Wastewater Compliance

436 Dwight Street

Springfield, Ma. 01103

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	04/06/20	04/07/20	04/08/20	04/09/20	04/10/20	04/11/20	04/12/20		
WATER TEMPERATURE									
Raw Influent (deg. F)	90	90	110	100	64			91	
North Lagoon (deg. F)	80	80	82	86	80			82	
South Lagoon (deg. F)								#DIV/0!	
Effluent Temp(deg F)	80	80	80	88	80			82	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	5.72	6.72	4.18	2.62	6.18	7.24	7.79	5.78	
South Lagoon (mg/L)								#DIV/0!	
PH									
Raw Influent	12.08	12.07	11.70	11.67	11.98			11.9	
North Lagoon	8.57	8.61	8.61	8.47	8.15	8.04	8.21	8.38	
South Lagoon								#DIV/0!	
Final Effluent	8.34	8.56	8.57	8.47	8.36	8.20	8.18	8.38	
NITROGEN,COPPER, PHOS									
Effluent Total Phoshorus (mg/L)									
Effluent Total Copper (mg/L)									
Effluent Nitrite - N (mg/L)									
Effluent Nitrate - N (mg/L)									
Effluent Nitrogen Tot Kjeldahl (mg/L)									
Effluent Ammonia (mg/L -N)									
Effluent Ammonia (lb)									
BELT PRESS									
Hours Run	7.0	7.0	7.0	6.0	n/f			6.8	27.0
Polymer Used (lb)	90.0	90.0	90.0	80.0	n/f			87.5	350.0
Total Solids, % Cake	12.0	12.0	12.0	13.0	n/f			12.3	
Cubic Yards of Sludge Wasted	10.0	10.0	10.0	10.0	n/f			10.0	40.0
Dry Tons	1.1	1.10	1.1	1.1	n/f			1.1	4.4
	DRY TONS = Cubic yds sludge * 1120 lbs/yd * % Solids/2000								
E. COLIFORM (#/100 mL)									
cfu/100 ml			<10						
MICROSCOPIC EVALUATION									
Floc Size (S/M/L)	**s/m**	**s/m**	**s/m**	**s/m**	**s/m**				
Filamentous Extending (Y/N)	**y**	**y**	**y**	**y**	**y**				
Filamentous Bridging (Y/N)	**y**	**y**	**y**	**y**	**y**				
Higher Life (Y/N)	**y**	**y**	**y**	**y**	**y**				
Pin Floc (Y/N)	**y**	**y**	**y**	**y**	**y**				

Average weekly effluent: 294,216 PH Max: 8.6 PH Min: 8.2

I certify that this information is true and accurate to the best of my knowledge: Name:Keith Gammell Operator Grade: 5 C FULL

Signature: Date: Per 314 CMR Chapter 12.07 (2)