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	04/13/20	04/14/20	04/15/20	04/16/20	04/17/20	04/18/20	04/19/20		
FLOW									
Effluent Flow (gal/day)	312,121	291,152	303,701	287,068	322,779	260,215	106,182	269,031	1,883,218
Return Sludge Flow (gal/day)	404,342	405,451	405,556	406,539	404,875	428,900	378,197	404,837	
Belt Press Feed (gal/day)	40,006	47,651	45,937	34,008	39,282			41,377	206,884
Water From River (gal/day)	392,397	388,685	388,272	407,365	381,184	286,735	225,718	352,908	2,470,356
Water To Bleachery (gal/day)	259,165	256,742	258,821	273,127	246,892	167,392	77,099	219,891	1,539,238
Effluent - River (gal/day)	(80,276)	(97,533)	(84,571)	(120,297)	(58,405)	(26,520)	(119,536)	(83,877)	(587,138)
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)	1,240	1,400	1,360	1,280	1,480			1,352	
MLVSS, North Lagoon (mg/L)			1,264					1,264	
MLSS, South Lagoon (mg/L)								#DIV/0!	
MLVSS, South Lagoon (mg/L)								#DIV/0!	
MLSS, Return Sludge (mg/L)	1,830	2,710	2,500	2,000	3,090			2,426	
MLVSS, Return Sludge (mg/L)			2,210					2,210	
Influent TSS (mg/L)		12						12	
Effluent TSS (mg/L)		16						16	
Effluent TSS (lb)		41						41	
% TSS Reduction		33						33	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	240	240	240	240	230			238	
South Lagoon (mL/L)								#DIV/0!	
SLUDGE BLANKET									
North Clarifier (ft)	2	2	2.0	2.0	2.0			2.0	
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)	0.18	1.08	0.03	0.00	0.00	0.23	0.20		1.72
Air Temperature (deg F)	50	40	38	34	34	32	32	37	

Maximum Effluent Daily Flow: 322,779 gal.

Maximum Effluent Temperature: 80

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	04/13/20	04/14/20	04/15/20	04/16/20	04/17/20	04/18/20	04/19/20		
WATER TEMPERATURE									
Raw Influent (deg. F)	104	98	98	98	102			100	
North Lagoon (deg. F)	76	80	80	80	80			79	
South Lagoon (deg. F)								#DIV/0!	
Effluent Temp(deg F)	78	80	80	80	80			80	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	7.62	4.62	6.08	5.72	4.42	5.30	7.09	5.84	
South Lagoon (mg/L)								#DIV/0!	
PH									
Raw Influent	12.04	12.19	12.15	10.96	12.04			11.9	
North Lagoon	8.58	8.86	8.83	8.61	8.55	8.42	8.13	8.57	
South Lagoon								#DIV/0!	
Final Effluent	8.38	8.76	8.79	8.79	8.45	8.60	8.54	8.62	
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	6.0	6.0	6.0	5.0	5.0			5.6	28.0
Polymer Used (lb)	80.0	80.0	80.0	70.0	70.0			76.0	380.0
Total Solids, % Cake	12.0	12.0	12.0	13.0	13.0			12.4	
Cubic Yards of Sludge Wasted	10.0	10.0	10.0	6.0	6.0			8.4	42.0
Dry Tons	1.1	1.10	1.1	0.8	0.8			1.0	4.9
	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: 269,031 PH Max: 8.8 PH Min: 8.4

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)