Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

Month: March 2019

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	03/04/19	03/05/19	03/06/19	03/07/19	03/08/19	03/09/19	03/10/19		
FLOW									
Effluent Flow (gal/day)	318,822	176,595	350,163	364,811	320,064	82,122	126,837	248,488	1,739,414
Return Sludge Flow (gal/day)	365,148	362,225	374,686	375,345	387,021	393,099	335,390	370,416	
Belt Press Feed (gal/day)	47,216	50,509	28,692	53,056	51,505			46,196	230,978
Water From River (gal/day)	412,236	293,656	480,251	451,915	314,140	110,167	226,060	326,918	2,288,425
Water To Bleachery (gal/day)	263,847	147,460	330,131	300,730	180,339	11,075	114,435	192,574	1,348,017
Effluent - River (gal/day)	(93,414)	(117,061)	(130,088)	(87,104)	5,924	(28,045)	(99,223)	(78,430)	(549,011)
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)	1,800	1,780	1,684	1,760	1,752			1,755	
MLVSS, North Lagoon (mg/L)			1,512					1,512	
MLSS, South Lagoon (mg/L)								#DIV/0!	
MLVSS, South Lagoon (mg/L)								#DIV/0!	
MLSS, Return Sludge (mg/L)	3,360	3,850	3,910	3,770	3,830			3,744	
MLVSS, Return Sludge (mg/L)			3,550					3,550	
Influent TSS (mg/L)		15						15	
Effluent TSS (mg/L)		11						11	
Effluent TSS (lb)		29						29	
% TSS Reduction		27						27	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	250	250	260	250	250			252	
South Lagoon (mL/L)								#DIV/0!	
SLUDGE BLANKET									
North Clarifier (ft)	3	4	4.0	5.0	5.0			4.2	
South Clarifier (ft)	0	0	0.0	1.0	1.0			0.4	
SULFIDE									
Effluent Sulfide (mg/L)									
Effluent Sulfide (lb/day)									
	LBS = mg/L*MGD*8.34								
WEATHER									
Rainfall (inches)	0.32	0.00	0.00	0.00	0.00	0.00	0.00		0.32
Air Temperature (deg F)	32	12	17	2	18	12	30	18	

Maximum Effluent Daily Flow: 364,811 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	03/04/19	03/05/19	03/06/19	03/07/19	03/08/19	03/09/19	03/10/19		
WATER TEMPERATURE									
Raw Influent (deg. F)	110	93	98	96	93			98	
North Lagoon (deg. F)	80	80	81	78	78			79	
South Lagoon (deg. F)								#DIV/0!	
Effluent Temp(deg F)	78	78	80	78	77			78	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	5.96	5.61	5.56	5.56	5.15	6.97	7.55	6.05	
South Lagoon (mg/L)								#DIV/0!	
PH									
Raw Influent	9.94	11.66	11.51	11.42	11.06			11.1	
North Lagoon	8.10	8.18	8.19	8.52	8.47	8.53	8.58	8.37	
South Lagoon								#DIV/0!	
Final Effluent	8.12	8.20	8.21	8.50	8.40	8.16	8.44	8.29	
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	5.0	7.0	7.0			6.2	31.0
Polymer Used (lb)	60.0	60.0	50.0	70.0	70.0			62.0	310.0
Total Solids, % Cake	11.0	11.0	11.0	11.0	11.0			11.0	
Cubic Yards of Sludge Wasted	8.0	8.0	6.0	8.0	8.0			7.6	38.0
Dry Tons	0.5	0.50	0.4	0.5	0.5			0.5	2.4
	DRY TONS = Cubic yds sludge * 1120 lbs/yd * % Solids/2000								
E. COLIFORM (#/100 mL)									
cfu/100 ml									
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: 248,488 PH Max: 8.5 PH Min: 8.1

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)