Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

Aug-18

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	08/13/18	08/14/18	08/15/18	08/16/18	08/17/18	08/18/18	08/19/18		
FLOW									
Effluent Flow (gal/day)	346,959	398,062	490,833	518,416	495,883	475,657	155,527	411,620	2,881,337
Return Sludge Flow (gal/day)	302,472	348,283	343,460	343,705	332,955	358,654	324,646	336,311	
Belt Press Feed (gal/day)	49,305	50,993	31,918	41,457	35,011			41,737	208,684
Water From River (gal/day)	480,766	474,580	616,980	601,760	514,980	558,225	672,980	560,039	3,920,271
Water To Bleachery (gal/day)	301,431	322,225	306,194	309,779	240,975	12,981	106,214	228,543	1,599,799
Effluent - River (gal/day)	(133,807)	(76,518)	(126,147)	(83,344)	(19,097)	(82,568)	(517,453)	(148,419)	########
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)	1,900	1,880	1,850	1,740	1,710			1,816	
MLVSS, North Lagoon (mg/L)			1,698					1,698	
MLSS, South Lagoon (mg/L)	1,792	1,790	1,740	1,570	1,870			1,752	
MLVSS, South Lagoon (mg/L)			1,595					1,595	
MLSS, Return Sludge (mg/L)	5,420	5,870	6,220	5,430	3,550			5,298	
MLVSS, Return Sludge (mg/L)			5,610					5,610	
Influent TSS (mg/L)		47						47	
Effluent TSS (mg/L)		31						31	
Effluent TSS (lb)		90						90	
% TSS Reduction		34						34	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	290	290	280	300	300			292	
South Lagoon (mL/L)	290	290	290	300	300			294	
SLUDGE BLANKET									
North Clarifier (ft)	2	5	5.0	5.0	5.0			4.4	
South Clarifier (ft)	0	2	2.0	2.0	1.0			1.4	
SULFIDE									
Effluent Sulfide (mg/L)									
Effluent Sulfide (lb/day)									
	LBS = mg/L*MGD*8.34								
WEATHER									
Rainfall (inches)	0.02	0.90	0.27	0.00	0.00	0.58	0.14		1.91
Air Temperature (deg F)	69	70	69	70	70	72	68	70	

Maximum Effluent Daily Flow: 518,416 gal.

Maximum Effluent Temperature: 96

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	08/13/18	08/14/18	08/15/18	08/16/18	08/17/18	08/18/18	08/19/18		
WATER TEMPERATURE									
Raw Influent (deg. F)	114	112	126	115	111			116	
North Lagoon (deg. F)	92	94	96	96	95			95	
South Lagoon (deg. F)	92	93	96	95	95			94	
Effluent Temp(deg F)	91	93	96	95	94			94	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	6.20	5.61	4.85	5.92	5.97	5.43	6.16	5.73	
South Lagoon (mg/L)	6.14	5.66	4.92	5.86	5.85	6.50	7.09	6.00	
PH									
Raw Influent	11.09	11.18	11.53	11.41	11.21			11.3	
North Lagoon	8.57	8.41	8.45	8.56	8.47			8.49	
South Lagoon	8.54	8.45	8.51	8.53	8.42	8.23	8.42	8.44	
Final Effluent	8.49	8.52	8.58	8.47	8.45	8.44	8.50	8.49	
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	9.0	9.0	5.0	7.0	6.0			7.2	36.0
Polymer Used (lb)	60.0	60.0	40.0	50.0	40.0			50.0	250.0
Total Solids, % Cake	11.0	11.0	11.0	11.0	12.0			11.2	
Cubic Yards of Sludge Wasted	10.0	10.0	5.0	8.0	6.0			7.8	39.0
Dry Tons	0.6	0.60	0.3	0.4	0.3			0.4	2.2
	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	s	ss	s	s				
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: 411,620 PH Max: 8.6 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)