Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

Month: September 2021

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	09/13/21	09/14/21	09/15/21	09/16/21	09/17/21	09/18/21	09/19/21		
FLOW									
Effluent Flow (gal/day)	232,087	239,357	334,051	483,513	274,622	147,593	2,355	244,797	1,713,578
Return Sludge Flow (gal/day)	91,110	89,234	99,230	98,759	113,260	113,480	112,111	102,455	
Belt Press Feed (gal/day)	N/F	25,791	N/F	33,403	24,436			27,877	83,630
Water From River (gal/day)	353,135	339,572	329,605	339,580	256,688	125,718	179,162	274,780	1,923,460
									0
Effluent - River (gal/day)	(121,048)	(100,215)	4,446	143,933	17,934	21,875	(176,807)	(29,983)	(209,882)
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)	1,468	1,390	1,472	1,640	1,520			1,498	
MLVSS, North Lagoon (mg/L)			788					788	
MLSS, South Lagoon (mg/L)								#DIV/0!	
MLVSS, South Lagoon (mg/L)								#DIV/0!	
MLSS, Return Sludge (mg/L)	4,020	3,590	1,750	6,170	7,630			4,632	
MLVSS, Return Sludge (mg/L)			850					850	
Influent TSS (mg/L)		10						10	
Effluent TSS (mg/L)		10						10	
Effluent TSS (lb)		20						20	
% TSS Reduction		100						100	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	250	200	250	300	250			250	
South Lagoon (mL/L)								#DIV/0!	
SLUDGE BLANKET									
North Clarifier (ft)	1	1	1.0	2.0	2.0			1.4	
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)	0.70	0.00	0.00	0.60	0.00	0.02	0.00		1.32
Air Temperature (deg F)	60	54	64	62	60	67	53	60	

Maximum Effluent Daily Flow: 483,513 gal.

Maximum Effluent Temperature: 86

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	09/13/21	09/14/21	09/15/21	09/16/21	09/17/21	09/18/21	09/19/21		
WATER TEMPERATURE									
Raw Influent (deg. F)	106	108	106	96	101			103	
North Lagoon (deg. F)	80	82	86	86	86			84	
South Lagoon (deg. F)								#DIV/0!	
Effluent Temp(deg F)	80	82	84	86	86			84	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	6.11	5.82	5.76	5.71	6.01	5.94	6.24	5.94	
South Lagoon (mg/L)								#DIV/0!	
PH									
Raw Influent	11.20	11.35	10.71	10.96	11.16			11.1	
North Lagoon	8.32	8.35	8.13	8.12	8.20	7..54	7.62	8.12	
South Lagoon								#DIV/0!	
Final Effluent	8.22	8.16	8.21	8.11	8.14	6.86	6.96	7.81	
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	N/F	4.0	N/F	6.0	5.0			5.0	15.0
Polymer Used (lb)	N/F	50.0	N/F	70.0	60.0			60.0	180.0
Total Solids, % Cake	N/F	13.0	N/F	13.0	13.0			13.0	
Cubic Yards of Sludge Wasted	N/F	4.0	N/F	8.0	6.0			6.0	18.0
Dry Tons	N/F	0.20	N/F	0.4	0.3			0.3	0.9
	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	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: 244,797 PH Max: 8.2 PH Min: 6.9

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)