Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

month : December, 2017

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE					12/01/17	12/02/17	12/03/17		
FLOW									
Effluent Flow (gal/day)					366,790	308,122	212,458	295,790	887,370
Return Sludge Flow (gal/day)					301,838	303,582	349,848	318,423	
Belt Press Feed (gal/day)								#DIV/0!	0
Water From River (gal/day)					482,760	403,760	356,998	414,506	1,243,518
Water To Bleachery (gal/day)								#DIV/0!	0
Effluent - River (gal/day)	0	0	0	0	(115,970)	(95,638)	(144,540)	(50,878)	(356,148)
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)					1,880			1,880	
MLVSS, North Lagoon (mg/L)								#DIV/0!	
MLSS, South Lagoon (mg/L)					1,860			1,860	
MLVSS, South Lagoon (mg/L)								#DIV/0!	
MLSS, Return Sludge (mg/L)					6,220			6,220	
MLVSS, Return Sludge (mg/L)								#DIV/0!	
Influent TSS (mg/L)								#DIV/0!	
Effluent TSS (mg/L)								#DIV/0!	
Effluent TSS (lb)								#DIV/0!	
% TSS Reduction								#DIV/0!	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)					200			200	
South Lagoon (mL/L)					200			200	
SLUDGE BLANKET									
North Clarifier (ft)					4.0			4.0	
South Clarifier (ft)					0.0			0.0	
SULFIDE									
Effluent Sulfide (mg/L)									
Effluent Sulfide (lb/day)									
	LBS = mg/L*MGD*8.34								
WEATHER									
Rainfall (inches)					0.11	0.00	0.00		0.11
Air Temperature (deg F)					35	30	29	31	

Maximum Effluent Daily Flow: 366,790 gal. Maximum Effluent Temperature: 67

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					12/01/17	12/02/17	12/03/17		
WATER TEMPERATURE									
Raw Influent (deg. F)					89			89	
North Lagoon (deg. F)					68			68	
South Lagoon (deg. F)					67			67	
Effluent Temp(deg F)					67			67	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)					6.55	6.79	7.15	6.83	
South Lagoon (mg/L)					7.22	7.82	8.07	7.70	
PH									
Raw Influent					11.43			11.4	
North Lagoon					8.49			8.49	
South Lagoon					8.51	8.36	8.53	8.47	
Final Effluent					8.40	8.49	8.50	8.46	
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								#DIV/0!	0.0
Polymer Used (lb)								#DIV/0!	0.0
Total Solids, % Cake								#DIV/0!	
Cubic Yards of Sludge Wasted								#DIV/0!	0.0
Dry Tons								#DIV/0!	0.0
	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				
Filamentous Extending (Y/N)					y				
Filamentous Bridging (Y/N)					y				
Higher Life (Y/N)					y				
Pin Floc (Y/N)					y				

Average weekly effluent: 295,790 PH Max: 8.5 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)

Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

month : December, 2017

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	12/04/17	12/05/17	12/06/17	12/07/17	12/08/17	12/09/17	12/10/17		
FLOW									
Effluent Flow (gal/day)	262,421	311,973	334,804	415,570	339,002	263,739	153,992	297,357	2,081,501
Return Sludge Flow (gal/day)	296,420	297,842	408,977	325,198	296,038	278,103	391,624	327,743	
Belt Press Feed (gal/day)		106,459						106,459	106,459
Water From River (gal/day)	389,726	410,581	516,592	500,823	389,073	295,675	302,085	400,651	2,804,555
Water To Bleachery (gal/day)								#DIV/0!	0
Effluent - River (gal/day)	(127,305)	(98,608)	(181,788)	(85,253)	(50,071)	(31,936)	(148,093)	(103,293)	(723,054)
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)	1,950	1,960	1,940		2,280			2,033	
MLVSS, North Lagoon (mg/L)			1,660					1,660	
MLSS, South Lagoon (mg/L)	1,900	1,920	1,936		2,090			1,962	
MLVSS, South Lagoon (mg/L)			1,640					1,640	
MLSS, Return Sludge (mg/L)	4,860	5,120	5,370		5,980			5,333	
MLVSS, Return Sludge (mg/L)			4,750					4,750	
Influent TSS (mg/L)		32						32	
Effluent TSS (mg/L)		14						14	
Effluent TSS (lb)		30						30	
% TSS Reduction		56						56	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	200	210	200		230			210	
South Lagoon (mL/L)	200	200	200		220			205	
SLUDGE BLANKET									
North Clarifier (ft)	4	4	5.0	4.0	5.0			4.4	
South Clarifier (ft)	0	0	1.0	0.0	3.0			0.8	
SULFIDE									
Effluent Sulfide (mg/L)									
Effluent Sulfide (lb/day)									
	LBS = mg/L*MGD*8.34								
WEATHER									
Rainfall (inches)	0.00	0.00	0.66	0.00	0.00	0.00	0.15		0.81
Air Temperature (deg F)	30	40	37	28	24	30	28	31	

Maximum Effluent Daily Flow: 415,570 gal. Maximum Effluent Temperature: 70

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	12/04/17	12/05/17	12/06/17	12/07/17	12/08/17	12/09/17	12/10/17		
WATER TEMPERATURE									
Raw Influent (deg. F)	92	91	89		86			90	
North Lagoon (deg. F)	68	69	70		71			70	
South Lagoon (deg. F)	68	68	69		71			69	
Effluent Temp(deg F)	67	68	69		70			69	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	6.45	6.31	5.67	6.46	6.41	6.70	7.17	6.45	
South Lagoon (mg/L)	7.14	7.16	6.93	7.83	7.24	7.98	8.33	7.52	
PH									
Raw Influent	11.06	11.26	11.29		10.97			11.1	
North Lagoon	8.32	8.26	8.41		8.47			8.37	
South Lagoon	8.31	8.22	8.38	8.36	8.46	8.27	8.14	8.31	
Final Effluent	8.28	8.28	8.29	8.45	8.44	8.41	8.23	8.34	
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		24.0						24.0	24.0
Polymer Used (lb)		225.0						225.0	225.0
Total Solids, % Cake		11.0						11.0	
Cubic Yards of Sludge Wasted		18.0						18.0	18.0
Dry Tons		1.20						1.2	1.2
	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				
Filamentous Extending (Y/N)	y	y	y		y				
Filamentous Bridging (Y/N)	y	y	y		y				
Higher Life (Y/N)	y	y	y		y				
Pin Floc (Y/N)	y	y	y		y				

Average weekly effluent: 297,357 PH Max: 8.5 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)

Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

month : December, 2017

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	12/11/17	12/12/17	12/13/17	12/14/17	12/15/17	12/16/17	12/17/17		
FLOW									
Effluent Flow (gal/day)	249,737	289,076	276,444	363,507	351,264	277,374	165,031	281,776	1,972,433
Return Sludge Flow (gal/day)	296,540	298,114	278,200	280,876	284,834	292,763	312,171	291,928	
Belt Press Feed (gal/day)		99,680						99,680	99,680
Water From River (gal/day)	358,656	381,798	410,294	511,103	380,955	313,041	293,654	378,500	2,649,501
Water To Bleachery (gal/day)								#DIV/0!	0
Effluent - River (gal/day)	(108,919)	(92,722)	(133,850)	(147,596)	(29,691)	(35,667)	(128,623)	(96,724)	(677,068)
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)	2,220	2,108	2,170	2,320	2,300			2,224	
MLVSS, North Lagoon (mg/L)			2,005					2,005	
MLSS, South Lagoon (mg/L)	2,200	2,120	2,080	2,260	2,220			2,176	
MLVSS, South Lagoon (mg/L)			1,930					1,930	
MLSS, Return Sludge (mg/L)	5,240	5,470	6,120	4,420	5,270			5,304	
MLVSS, Return Sludge (mg/L)			5,510					5,510	
Influent TSS (mg/L)		41						41	
Effluent TSS (mg/L)		17						17	
Effluent TSS (lb)		35						35	
% TSS Reduction		59						59	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	280	280	280	240	280			272	
South Lagoon (mL/L)	280	300	300	250	280			282	
SLUDGE BLANKET									
North Clarifier (ft)	4	4	5.0	4.0	4.0			4.2	
South Clarifier (ft)	0	0	1.0	0.0	0.0			0.2	
SULFIDE									
Effluent Sulfide (mg/L)									
Effluent Sulfide (lb/day)									
	LBS = mg/L*MGD*8.34								
WEATHER									
Rainfall (inches)	0.00	0.05	0.10	0.00	0.00	0.00	0.00		0.15
Air Temperature (deg F)	29	29	15	15	7	12	4	16	

Maximum Effluent Daily Flow: 363,507 gal. Maximum Effluent Temperature: 69

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	12/11/17	12/12/17	12/13/17	12/14/17	12/15/17	12/16/17	12/17/17		
WATER TEMPERATURE									
Raw Influent (deg. F)	89	93	89	84	81			87	
North Lagoon (deg. F)	68	69	70	68	66			68	
South Lagoon (deg. F)	68	70	70	68	67			69	
Effluent Temp(deg F)	67	69	69	67	64			67	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	6.88	6.18	6.32	6.12	6.92	6.69	7.32	6.63	
South Lagoon (mg/L)	7.23	7.93	7.28	7.53	7.55	6.67	9.27	7.64	
PH									
Raw Influent	11.01	11.19	11.22	11.27	11.31			11.2	
North Lagoon	8.23	8.61	8.29	8.37	8.62			8.42	
South Lagoon	8.26	8.58	8.30	8.36	8.58	8.67	8.51	8.47	
Final Effluent	8.19	8.49	8.44	8.41	8.48	8.57	8.56	8.45	
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		23.0						23.0	23.0
Polymer Used (lb)		220.0						220.0	220.0
Total Solids, % Cake		11.0						11.0	
Cubic Yards of Sludge Wasted		18.0						18.0	18.0
Dry Tons		1.20						1.2	1.2
	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: 281,776 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)

Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

month : December, 2017

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	12/18/16	12/19/16	12/20/16	12/21/16	12/22/16	12/23/16	12/24/16		
FLOW									
Effluent Flow (gal/day)	252,799	269,743	311,392	318,374	268,844	252,041	86,503	251,385	1,759,696
Return Sludge Flow (gal/day)	293,571	263,757	273,934	272,049	275,357	299,163	326,760	286,370	
Belt Press Feed (gal/day)		90,137			81,439			85,788	171,576
Water From River (gal/day)	353,090	390,691	448,500	393,277	314,072	257,847	139,160	328,091	2,296,637
Water To Bleachery (gal/day)	219,965	247,470	299,339	258,865	199,845	130,442	5,163	194,441	1,361,089
Effluent - River (gal/day)	(100,291)	(120,948)	(137,108)	(74,903)	(45,228)	(5,806)	(52,657)	(76,706)	(536,941)
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)	2,400	2,350	2,370	2,350	2,340			2,362	
MLVSS, North Lagoon (mg/L)			2,080					2,080	
MLSS, South Lagoon (mg/L)	2,300	2,290	2,360	2,320	2,300			2,314	
MLVSS, South Lagoon (mg/L)			2,070					2,070	
MLSS, Return Sludge (mg/L)	5,480	5,520	12,340	11,580	10,870			9,158	
MLVSS, Return Sludge (mg/L)			10,720					10,720	
Influent TSS (mg/L)		33						33	
Effluent TSS (mg/L)		14						14	
Effluent TSS (lb)		29						29	
% TSS Reduction		58						58	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	250	250	230	240	250			244	
South Lagoon (mL/L)	240	250	240	240	250			244	
SLUDGE BLANKET									
North Clarifier (ft)	4	5	5.0	5.0	5.0			4.8	
South Clarifier (ft)	1	1	1.0	0.0	0.0			0.6	
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	0.02	0.10	0.21		0.33
Air Temperature (deg F)	22	32	34	24	25	25	32	28	

Maximum Effluent Daily Flow: 318,374 gal. Maximum Effluent Temperature: 69

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	12/18/16	12/19/16	12/20/16	12/21/16	12/22/16	12/23/16	12/24/16		
WATER TEMPERATURE									
Raw Influent (deg. F)	81	82	80	81	91			83	
North Lagoon (deg. F)	65	66	68	69	70			68	
South Lagoon (deg. F)	65	67	67	68	69			67	
Effluent Temp(deg F)	65	66	67	68	69			67	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	6.86	6.75	5.68	5.61	6.51	6.75	7.26	6.49	
South Lagoon (mg/L)	7.29	7.11	6.62	6.55	6.63	7.19	7.48	6.98	
PH									
Raw Influent	11.21	11.19	11.02	11.31	11.38			11.2	
North Lagoon	8.15	8.29	7.98	8.39	8.55			8.27	
South Lagoon	8.19	8.31	7.96	8.42	8.59	8.35	8.37	8.31	
Final Effluent	8.31	8.37	8.17	8.26	8.41	8.37	8.38	8.32	
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		22.0			16.0			19.0	38.0
Polymer Used (lb)		225.0			210.0			217.5	435.0
Total Solids, % Cake		11.0			11.0			11.0	
Cubic Yards of Sludge Wasted		18.0			15.0			16.5	33.0
Dry Tons		1.20			1.2			1.2	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: 251,385 PH Max: 8.4 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)

Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

month : December, 2017

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	12/25/17	12/26/17	12/27/17	12/28/17	12/29/17	12/30/17	12/31/17		
FLOW									
Effluent Flow (gal/day)	26,326	150,285	314,668	274,256	276,044	289,767	70,344	200,241	1,401,690
Return Sludge Flow (gal/day)	328,381	356,144	273,814	288,872	266,570	278,672	298,840	298,756	
Belt Press Feed (gal/day)								#DIV/0!	0
Water From River (gal/day)	92,961	385,805	402,601	364,691	366,014	305,418	118,106	290,799	2,035,596
Water To Bleachery (gal/day)	9,772	245,532	272,425	228,641	242,378	184,863	5,250	169,837	1,188,861
Effluent - River (gal/day)	(66,635)	(235,520)	(87,933)	(90,435)	(89,970)	(15,651)	(47,762)	(90,558)	(633,906)
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)			2,380	2,360	2,350			2,363	
MLVSS, North Lagoon (mg/L)			2,056					2,056	
MLSS, South Lagoon (mg/L)			2,310	2,290	2,310			2,303	
MLVSS, South Lagoon (mg/L)			2,010					2,010	
MLSS, Return Sludge (mg/L)			10,200	11,290	10,470			10,653	
MLVSS, Return Sludge (mg/L)			8,780					8,780	
Influent TSS (mg/L)								#DIV/0!	
Effluent TSS (mg/L)								#DIV/0!	
Effluent TSS (lb)								#DIV/0!	
% TSS Reduction								#DIV/0!	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)			220	240	240			233	
South Lagoon (mL/L)			230	240	250			240	
SLUDGE BLANKET									
North Clarifier (ft)			3.0	5.0	5.0			4.3	
South Clarifier (ft)			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)	0.88	0.00	0.00	0.00	0.00	0.00	0.03		0.91
Air Temperature (deg F)	26	18	neg 2	neg 2	neg 4	0	5	12	

Maximum Effluent Daily Flow: 314,668 gal.

Maximum Effluent Temperature: 60

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	12/25/17	12/26/17	12/27/17	12/28/17	12/29/17	12/30/17	12/31/17		
WATER TEMPERATURE									
Raw Influent (deg. F)			87	106	98			97	
North Lagoon (deg. F)			60	61	61			61	
South Lagoon (deg. F)			59	60	60			60	
Effluent Temp(deg F)			58	59	60			59	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	7.58	8.05	6.55	6.38	6.91	7.15	7.66	7.18	
South Lagoon (mg/L)	7.63	7.64	6.19	6.22	6.85	6.92	7.20	6.95	
PH									
Raw Influent			11.26	11.43	11.41			11.4	
North Lagoon			8.38	8.59	8.21			8.39	
South Lagoon	8.34	8.49	8.34	8.61	8.25	8.58	8.53	8.45	
Final Effluent	8.34	8.37	8.34	8.51	8.30	8.32	8.52	8.39	
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								#DIV/0!	0.0
Polymer Used (lb)								#DIV/0!	0.0
Total Solids, % Cake								#DIV/0!	
Cubic Yards of Sludge Wasted								#DIV/0!	0.0
Dry Tons								#DIV/0!	0.0
	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				
Filamentous Extending (Y/N)			y	y	y				
Filamentous Bridging (Y/N)			y	y	y				
Higher Life (Y/N)			y	y	y				
Pin Floc (Y/N)			y	y	y				

Average weekly effluent: 200,241 PH Max: 8.5 PH Min: 8.3

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)