Fort Edward Landfill - Weekly Operation and Maintenance Checklist

Staff: FZ-MR-J3

Date: _

3/3/20

Time: 7,30 Am

Check status and compare to normal conditions. See Reverse side for typical operating parameters.

HMI SCREENS	NASANG BERTATAY EUROODA BWANDAN AND A			Pi lawren well Warena and a company of the			
Extraction Wells		Online (Y/N)	Auto		Flow (gpm)	Level (ft)	(psi)
Pump Status/Flow	EW-1		Y	<u>N</u>	0.0		6.0
Run pumps in "Manual" to confirm flow , if nee		<u> </u>	7	N	0.0	6.87	0.6
Confirm pumps are operating between setpoir		W	N	_ <u>N</u>	0,6	14.57	NA
Confirm pressure with pump cycling & not high If pumps on, is water flowing into IPC (Y/N)?	h/low EW-4 EW-5	-	Y	W.		9.94	37.25
Process - (Check if OK or fill in values)	G-VV		T	100	NA	CONTRACTOR OF THE	NA
Chlorine Alarm status (on/off) A1 o	LE A2	off	Δ	uto rotate on	/off		V
If on - record chlorine concentration (ppm)	17	016			np operating		-1
Operate exhaust fan manually	<u>v</u>				np operating np pressure r	normal	
	1.80			uilding temp		Iomai	
Chemical rates normal for flow?	.,0			ixers operati			Y
Catch tank display level=actual?	'			ther Alarms			N
Filtration (Check if OK)							
Air compressor pressure in range			S	olenoid statu	s correct for	operation	V
Data (Check if OK)							
Do Daily & Yesterday Starts make sense	Y						
Alarms							
All Alarms Enabled (Y/N)	Y		Paragraphic Commission Commission (AMALE)	Photoside State (State Control of State (State Control			THE REAL PROPERTY OF THE PERSON NAMED IN
List any disabled and indicate why							- 19 Maria
BUILDING/GROUNDS							
Air Compressor (Check if OK)							
Cycle times normal for load	J		STATE OF THE PERSON AS A STATE OF THE PERSON A	Check auto	drain operatio	n	Y
Check oil level at least monthly	V			Check dryer	- alarms? Cy	cling?	~
Belt tension	✓			HX fan opera	ates with com	pressor?	
Unit Heaters (Check if OK)							170000
Thermostats set correctly (50-55 F)	4			Propane tan	k level greate	r than 20%	5%
Heaters working	4						
IPC (Y/N)					National Property		
IPC discharge clear?	<u>Y</u>			Check sludg	e ports (Slud	-	Y
Floatables? (take photos if yes)	<u>N</u>			Indicate %	of sludge	Upper	50
Coag visibly dosing?	Y			at each		Mid	100
Floc visibly dosing?	T					Lower .	100
Chemical Feed (Fill in values) 305 Bleach Height (in) 2	4 1/4 mA Signal	/ 1-	Vietes				6
		100	Notes Notes				
1668 Flocculant Volume (gal) 3			Notes Votes				
Dosing pumps at normal rate?	V Olloke Mai		Chemicals n	eeded?			
Floor Sumps (Y/N)			STICITIOGIC III	CCCCC .			
Sump levels normal?	Y	ALTO CONTROL OF THE PARTY OF TH		Pump runs b	ut not emptyi	na sumn?	N
High-High level switches operate freely?	Y (check mo	nthly)			after pump o		11)
Excessive sludge/sediment?	N C				/15/25 E		
	ck Feed Press Feed	Floc Feed					
Proper operation/flow	Y	Y		WE SEED OF THE POST OF THE POS	State Charles and Control of the Control		
Regulators working properly	Y	Y					
Exhaust mufflers	Y	Y					
Filter Press (Check if OK)							
Hydraulic ram operating normally	<u>Y</u>				orbent pads re		L)
Hydraulic pressure normal					ed Haz drum		3
Significant leaks?	V	/##	How man	y Haz drums	filled & close	d today?	1
General/Housekeeping	•			a diversor massaries y			
Wipe down dirty equipment/piping		Any leaks? _	N	V	Vaste drums		N
Sweep and/or wash floors		ts working?	N		Drum labels	-	W
Fire extinguisher inspection (monthly)	Exit sign	ns working? _	<u> </u>		Remove	ed trash?	N
Sludge in Clarifier Catch Tank? Grounds	1						
Cidanas							

Mow/trim around building, structures, wells, bollards, control panels and cleanouts Shovel doorways, apply ice melt Confirm gates and doorways locked Clear woody vegetation from swales and cap Look for damage fencing/gates Confirm storage container locked

Extraction Well EW-1	Flow (gpm) 20	Pressure (psi) 4.5	Low-Low 2	Level (off) 3	Level (on) 10	High-High 20
EW-2	14	11	1	3	10	25
EW-3	20	NA	1	3	10	20
EW-4	30	20	0	7	10	36
EW-5	NA	NA	1	3	10	20
Clarifier Catch Tank			Low-Low 0.5	Level (off) 1	Level (on) 2	High-High 3.25

A1 means chlorine concentration greater than 0.5 ppm

A1 and A2 means concentration greater than 1.0 ppm

If both on, the following will occur: Stop bleach pump, open intake louver, turn on exhaust fan and outside warning light .

Chemical Dosing Rates	HMI Setpoint	Stroke SP	Hand SP	Pump Screen
305 Bleach	0.10%	100	0.16 gph	5.4 - 6.5
2130 Coagulant	0.10%	96	0.16 gph	12.5 - 12.7
1668 Flocculant	0.20%	100	2.47 gph	72 - 75

Discharge Pumps

Typical speed 30-100% Typical pressure 22 psi @ 100%

Air compressor

operating range

90-175 psi

regulator setpoint

90 psi On 5 seconds every 5 minutes

Auto drain Dryer

Display shows "ESA/ON" with dew point level shown on bar scale.

Auto drain operates 5 seconds every minute

Heat exchanger fan should operate with compressor

Regulators

PSI Range

Thickener feed pump

40 psi max

Filter press feed pump

90 psi max

Floc feed pump

40 psi

Filter press hyd pump

Blowdown

90 psi max

Notes:

· Found Propane to Need to bring Propane Vendor	K @ 5% A	Contacted	X ARCADIS	& Propuse	Vendo
Need to bring	Pallets for	drums	to take	old grou	nd.
Propage Vendor	delivered	1 Solled	tank.	. 0	10 *=p= 1944.co
9 9					

Fort Edward Landfill - Weekly Operation and	Main	tenance Checklist		
Staff: FZ + ZC	Date:	3/10/20	Time:	8:00

Check status and compare to normal conditions. See Reverse side for typical operating parameters. **HMI SCREENS** Flow (gpm) Level (ft) (psi) **Extraction Wells** Online (Y/N) Manual Auto Pump Status/Flow EW-1 N 0.0 0.0 14.01 Run pumps in "Manual" to confirm flow, if needed. EW-2 N 0.0 4.760 0.0 Confirm pumps are operating between setpoints EW-3 14.91 0.0 EW-4 Confirm pressure with pump cycling & not high/low 23.01 21,25 If pumps on, is water flowing into IPC (Y/N)? EW-5 N NA 12.54 Process - (Check if OK or fill in values) Chlorine Alarm status (on/off) A2 Auto rotate on/off If on - record chlorine concentration (ppm) Discharge pump operating Operate exhaust fan manually Discharge pump pressure normal FT-801 reading (GPM) Building temp accurate Chemical rates normal for flow? Mixers operating? Catch tank display level=actual? Other Alarms (Y/N) Filtration (Check if OK) Air compressor pressure in range Solenoid status correct for operation Data (Check if OK) Do Daily & Yesterday Starts make sense Alarms All Alarms Enabled (Y/N) List any disabled and indicate why **BUILDING/GROUNDS** Air Compressor (Check if OK) Check auto drain operation Cycle times normal for load Check oil level at least monthly Check dryer - alarms? Cycling? Belt tension HX fan operates with compressor? Unit Heaters (Check if OK) Propane tank level greater than 20% (55%) Thermostats set correctly (50-55 F) Heaters working IPC (Y/N) IPC discharge clear? Check sludge ports (Sludge Y/N) Floatables? (take photos if yes) Upper Indicate % of sludge Coag visibly dosing? Mid 100 at each port Floc visibly dosing? Lower 100 Chemical Feed (Fill in values) 305 Bleach Height (in) mA Signal Notes Stroke Rate 14.1 2130 Coagulant Height (in) Notes 1668 Flocculant Volume (gal) 430 Stroke Rate Notes Dosing pumps at normal rate? Chemicals needed? Floor Sumps (Y/N) Sump levels normal? Pump runs but not emptying sump? High-High level switches operate freely? (check monthly) Back flowing after pump cycle? W Excessive sludge/sediment? Diaphragm pumps (Check if OK) Thick Feed Press Feed Floc Feed Proper operation/flow Regulators working properly Exhaust mufflers Filter Press (Check if OK) Hydraulic ram operating normally Sorbent pads replaced? How many total filled Haz drums onsite? Hydraulic pressure normal Significant leaks? How many Haz drums filled & closed today? General/Housekeeping Wipe down dirty equipment/piping Any leaks? Waste drums needed? Sweep and/or wash floors Lights working? Drum labels needed? Fire extinguisher inspection (monthly) Exit signs working? Removed trash? Sludge in Clarifier Catch Tank?

Grounds

Mow/trim around building, structures, wells, bollards, control panels and cleanouts
Shovel doorways, apply ice melt
Confirm gates and doorways locked

Clear woody vegetation from swales and cap Look for damage fencing/gates Confirm storage container locked

Extraction Well	Flow (gpm)	Pressure (psi)	Low-Low	Level (off)	Level (on)	High-High
EW-1	20	4.5	2	3	10	20
EW-2	14	11	1	3	10	25
EW-3	20	NA	1	3	10	20
EW-4	30	20	0	7	10	36
EW-5	NA	NA	1	3	10	20
			Low-Low	Level (off)	Level (on)	High-High
Clarifier Catch Tank			0.5	1	2	3.25

A1 means chlorine concentration greater than 0.5 ppm

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1668 Flocculant	0.20%	100	2.47 gph	72 - 75

Discharge Pumps

Typical speed 30-100%
Typical pressure 22 psi @ 100%

Air compressor

operating range regulator setpoint

90-175 psi 90 psi

90 psi max

Auto drain

On 5 seconds every 5 minutes

Dryer

Blowdown

Display shows "ESA/ON" with dew point level shown on bar scale.

Auto drain operates 5 seconds every minute

Heat exchanger fan should operate with compressor

Regulators	PSI Range
Thickener feed pump	40 psi max
Filter press feed pump	90 psi max
Floc feed pump	40 psi
Filter press hyd pump	

Notes:				
				
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Staff: FZ 9(3C	_ Date:	3/12/0	70	_	Time:	8:00)
Check status and compare to normal conditions. See Reverse side for typical operating parameters.								
HMI SCREENS Extraction Wells Pump Status/Flow Run pumps in "Manual" to confirm flow , if Confirm pumps are operating between set Confirm pressure with pump cycling & not If pumps on, is water flowing into IPC (Y/N	points high/low	EW-1 EW-2 EW-3 EW-4 EW-5	Online (Y/N)	Auto	Manual ハ) ル ル ・ ハ ・ ハ ・ ハ ・ ハ ・ ハ ・ ハ ・ ハ ・ ハ ・ ハ	Flow (gpm) O. O O. O 20. 62 NA	Level (ft) 13.78 4.87 14.82 7.90 8.73	(psi) 0.0 0.0 NA 34.47 NA
If on - record chlorine concentration (ppm) Operate exhaust fan manually FT-801 reading (GPM) Chemical rates normal for flow? Catch tank display level=actual? Filtration (Check if OK) Air compressor pressure in range Data (Check if OK) Do Daily & Yesterday Starts make sense Alarms All Alarms Enabled (Y/N)	0ff 	A2	010		Discharge por Building tem Mixers opera Other Alarms	ump operating ump pressure p accurate ating?	normal	
BUILDING/GROUNDS Air Compressor (Check if OK) Cycle times normal for load Check oil level at least monthly Belt tension Unit Heaters (Check if OK) Thermostats set correctly (50-55 F) Heaters working IPC (Y/N) IPC discharge clear? Floatables? (take photos if yes)					Check drye HX fan ope Propane ta Check sluc	o drain operater - alarms? Cerates with co ank level grea dge ports (Slu	Cycling? mpressor? ter than 20%	57% 4
Coag visibly dosing? Floc visibly dosing? Chemical Feed (Fill in values) 305 Bleach Height (in) 2130 Coagulant Height (in) 1668 Flocculant Volume (ga Dosing pumps at normal rate? Floor Sumps (Y/N)	9 3/8	mA Signal Stroke Rate Stroke Rate		Notes Notes Notes Chemical		ch port	Mid Lower	100%
Sump levels normal? High-High level switches operate freely? Excessive sludge/sediment? Diaphragm pumps (Check if OK) Proper operation/flow Regulators working properly Exhaust mufflers Filter Press (Check if OK)	W Thick Feed	(check mor				but not empt ng after pump		
Hydraulic ram operating normally Hydraulic pressure normal Significant leaks? General/Housekeeping	V V V V V V V V V V V V V V V V V V V				ow many total nany Haz drun	ns filled & clo	ms onsite? sed today?	2 5 1
Wipe down dirty equipment/piping Sweep and/or wash floors Fire extinguisher inspection (monthly) Sludge in Clarifier Catch Tank? Grounds	-	Light	Any leaks? is working? is working?	10			s needed? ved trash?	N N
Mow/trim around building, structures, wells Shovel doorways, apply ice melt Confirm gates and doorways locked	, bollards, co	ontrol panels	and cleanou	ıts	Look for da	ly vegetation amage fencing orage contain	g/gates	and cap

Fort Edward Landfill - Weekly Operation and Maintenance Checklist

Extraction Well	Flow (gpm)	Pressure (psi)	Low-Low	Level (off)	Level (on)	High-High
EW-1	20	4.5	2	3	10	20
EW-2	14	11	1	3	10	25
EW-3	20	NA	1	3	10	20
EW-4	30	20	0	7	10	36
EW-5	NA	NA	1	3	10	20
			Low-Low	Level (off)	Level (on)	High-High
Clarifier Catch Tank			0.5	1	2	3.25

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Discharge Pumps

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operating range

90-175 psi 90 psi

regulator setpoint Auto drain

On 5 seconds every 5 minutes

Dryer

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Heat exchanger fan should operate with compressor

Regulators	PSI Range
Thickener feed pump	40 psi max
Filter press feed pump	90 psi max
Floc feed pump	40 psi
Filter press hyd pump	

Blowdown 90 psi ma

Piowdowii	90 psi max		
Notes:			
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Fort Edward Landfill - Weekly Operation and Maintenance Checklist

Shovel doorways, apply ice melt

Confirm gates and doorways locked

Staff: FZ 9 AT Date: 3/23/26



Time: \$7:60

Look for damage fencing/gates

Confirm storage container locked

Check status and compare to normal conditions. See Reverse side for typical operating parameters.

HMI SCREENS								
Extraction Wells			Online (Y/N)) Auto	Manual	Flow (gpm)	Level (ft)	(psi)
Pump Status/Flow		EW-1	Chillie (1714)	, ridio	Nandar	0,0	13.94	0.0
Run pumps in "Manual" to confirm flow, if	needed	EW-2				-	9,91	
Confirm pumps are operating between set		EW-3	W	XX	- W	0.0	14,95	NA
Confirm pressure with pump cycling & not		EW-4	-	V	70	17.91	8.44	32,89
If pumps on, is water flowing into IPC (Y/N		EW-5	4	V	$-\frac{1}{n}$	NA	4.57	NA
Process - (Check if OK or fill in values)		LVV-3	Selection of the select				4,77	
	off	A2	, CC	trada (Santa Santa S	Auto rotate o	n/off	er kontroller er en kan besk	Martin Relation Control
		AZ	0+			1.1.11.1.11.11.11		
If on - record chlorine concentration (ppm)						ump operating		
Operate exhaust fan manually						ump pressure	normai	
FT-801 reading (GPM)	18.59				Building tem			
Chemical rates normal for flow?					Mixers opera			
Catch tank display level=actual?					Other Alarms	s (Y/N)		N
Filtration (Check if OK)		and the second second			nati disernasia			
Air compressor pressure in range					Solenoid sta	tus correct fo	r operation	
Data (Check if OK)								a tive growtheline to the
Do Daily & Yesterday Starts make sense	/							
Alarms	NO.							
All Alarms Enabled (Y/N)	Y			and the control of th	HOSENGEN BETTERN BETTER DOCUMENTS			
List any disabled and indicate why								
,	7					Samuel		The same
BUILDING/GROUNDS								
Air Compressor (Check if OK)								
Cycle times normal for load				et 1,2 a	Check auto	o drain opera	tion	/
Check oil level at least monthly					Check drye	er - alarms? (Cycling?	
Belt tension	1/					erates with co		1
Unit Heaters (Check if OK)					Santa Caracida de			
Thermostats set correctly (50-55 F)	_	NO DESCRIPTION OF THE OWN	SHITTATING THE CHARACTERS THE CONTRACT	ALC MESCRICION AND ASSESS	Propane ta	ank level grea	ter than 20%	17%
Heaters working						g.		10,1-
IPC (Y/N)								
IPC discharge clear?	NAME OF THE OWNER				Check sluc	dge ports (Slu	idae Y/N)	V
Floatables? (take photos if yes)						and the second	Upper	0%
Coag visibly dosing?						% of sludge	Mid	50%
Floc visibly dosing?					at ead	ch port	Lower	
Chemical Feed (Fill in values)					51745017824838383838		Lower	100%
305 Bleach Height (in)	223/4	m A Cianal	,- 7	Notes				
		mA Signal Stroke Rat		Notes				
2130 Coagulant Height (in)	33/5							
1668 Flocculant Volume (ga	1)380	Stroke Rat	e_44	Notes	s needed?			
Dosing pumps at normal rate?			CONTRACTOR OF THE PROPERTY OF	Chemicas	s needed?			
Floor Sumps (Y/N)	,			4				
Sump levels normal?						but not emp		
High-High level switches operate freely?		(check mo	nthly)		Back flowing	ng after pump	cycle?	
Excessive sludge/sediment?		NITUZ-IA INCHERUZAN KANYA	submigration is agreed to the control of		NO STATE OF THE PARTY OF THE PA			
Diaphragm pumps (Check if OK)	Thick Feed	Press Feed	Floc Feed					
Proper operation/flow								
Regulators working properly								
Exhaust mufflers								
Filter Press (Check if OK)								
Hydraulic ram operating normally						Sorbent pads		W)
Hydraulic pressure normal					w many total			1
Significant leaks?				How m	any Haz drun	ns filled & clo	sed today?	(0
General/Housekeeping	10 10 THE R. P. LEWIS LOW.							
Wipe down dirty equipment/piping			Any leaks?	W	THE RESERVE OF THE PERSON	Waste drum	ns needed?	W
Sweep and/or wash floors			ts working?	V			Is needed?	N
Fire extinguisher inspection (monthly)			ns working?	V	•		oved trash?	N
Sludge in Clarifier Catch Tank?			0		-			
Grounds								
Mow/trim around building, structures, wells	s, bollards, co	ontrol panels	s and cleanor	uts	Clear wood	dy vegetation	from swales	and cap



Extraction Well	Flow (gpm)	Pressure (psi)	Low-Low	Level (off)	Level (on)	High-High
EW-1	20	4.5	2	3	10	20
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EW-5	NA	NA	1	3	10	20
			Low-Low	Level (off)	Level (on)	High-High
Clarifier Catch Tank			0.5	1	2	3.25

A1 means chlorine concentration greater than 0.5 ppm

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1668 Flocculant	0.20%	100	2.47 aph	72 - 75

Discharge Pumps

30-100% Typical speed Typical pressure 22 psi @ 100%

Air compressor

operating range

90-175 psi

regulator setpoint

90 psi On 5 seconds every 5 minutes

Auto drain Dryer

Display shows "ESA/ON" with dew point level shown on bar scale.

Auto drain operates 5 seconds every minute

Heat exchanger fan should operate with compressor

Regulators	PSI Range
Thickener feed pump	40 psi max

Filter press feed pump

psi max 90 psi max 40 psi

Floc feed pump Filter press hyd pump

Blowdown

90 psi max

Notes:

	Fort	Edward	Landfill	- Weekly	Operation	and I	Maintenance	Checklist
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Shovel doorways, apply ice melt

Confirm gates and doorways locked

Staff: MMK + AT Date: 3/20/2()

Time: <u>0900</u>

Look for damage fencing/gates Confirm storage container locked

Check status and compare to normal con	ditions. See	Reverse side	e for typical o	perating pa	rameters.			
HMI SCREENS Extraction Wells Pump Status/Flow Run pumps in "Manual" to confirm flow, i Confirm pumps are operating between se Confirm pressure with pump cycling & noi If pumps on, is water flowing into IPC (Y/N Process - (Check if OK or fill in values) Chlorine Alarm status (on/off) A If on - record chlorine concentration (ppm Operate exhaust fan manually FT-801 reading (GPM) Chemical rates normal for flow? Catch tank display level=actual? Filtration (Check if OK) Air compressor pressure in range Data (Check if OK) Do Daily & Yesterday Starts make sense Alarms	tpoints t high/low N)? Ves 1_0 H	EW-1 EW-2 EW-3 EW-4 EW-5	Online (Y/N) offic yes offic yes ves off	Auto No Ves No Ugs	Discharge p Building terr Mixers opera Other Alarm	ump operating ump pressure ip accurate ating?	normal	(psi) 3.43 1.80 NA 33.7 NA 4.81 Yes Yes Ves
All Alarms Enabled (Y/N) List any disabled and indicate why	<u>None</u>							
BUILDING/GROUNDS Air Compressor (Check if OK) Cycle times normal for load Check oil level at least monthly Belt tension Unit Heaters (Check if OK) Thermostats set correctly (50-55 F) Heaters working IPC (Y/N) IPC discharge clear? Floatables? (take photos if yes) Coag visibly dosing? Floc visibly dosing? Chemical Feed (Fill in values) 305 Bleach Height (in)	yes	mA Signal	5•6	Notes	Check dry HX fan op Propane ta Check slut	o drain operati er - alarms? C erates with cor ank level great dge ports (Slud % of sludge ch port	ycling? mpressor? er than 20%	965, 350
2130 Coagulant Height (in) 1668 Flocculant Volume (ga Dosing pumps at normal rate? Floor Sumps (Y/N)	27.75° al) 400	Stroke Rat Stroke Rat	e <u>II.3</u>	Notes Notes Chemicals	s needed?	135gallon		100.
Sump levels normal? High-High level switches operate freely? Excessive sludge/sediment? Diaphragm pumps (Check if OK) Proper operation/flow Regulators working properly Exhaust mufflers Filter Press (Check if OK)	No Thick Feed	Check mod				s but not empty ng after pump		<u> 10</u>
Hydraulic ram operating normally Hydraulic pressure normal Significant leaks? General/Housekeeping	YN				w many total	Sorbent pads filled Haz drur ns filled & clos	ns onsite?	7
Wipe down dirty equipment/piping Sweep and/or wash floors Fire extinguisher inspection (monthly) Sludge in Clarifier Catch Tank? Grounds		Ligh Exit sigr	Any leaks? ts working? is working?	<i>N</i>			s needed? ved trash?	<u> </u>
Mow/trim around building, structures, wells	s, bollards, co	ontrol panels	and cleanou	its	Clear woo	dy vegetation f	rom swales	and cap

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Discharge Pumps

Typical speed 30-100%
Typical pressure 22 psi @ 100%

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operating range

90-175 psi 90 psi

regulator setpoint Auto drain

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Dryer

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Heat exchanger fan should operate with compressor

Regulators	PSI Range
Thickener feed pump	40 psi max
Filter press feed pump	90 psi max
Floc feed pump	40 psi
Filter press hyd numn	

Filter press hyd pump

Blowdown 90 psi max

Notes:

On arrival, System down . Flush chamber Mirer MI Vailance. System potentially down
due to thunder storms in area on 3/29.
Sampled Influent, CCT, cell 3 gypass, Cell 2 Edfluent, Polishing Pond
Fillient.
(6) Drums study waste - (2) 2/25/20 (1)3/3/20 (1)3/10/20 (1) 3/10/20 x (1) 5/20/20
(1) Drum sludge unte - 3/25/20 (2) 12/6/19 Orill cuttings
Aries 305 (1/2) Drun In use (2) Full Spine
Aries 2130 (3/4) Orum In use (1) Spare 1/4 Full? Don't Know why. Lubel NG?
Aries 1668 Flor - 1/2 Day Benaining in Use