



**JOINT BOARD OF
MANAGEMENT**
Wednesday, October 19, 2022
9:00 AM
KINGSVILLE ARENA
1741 Jasperson Lane

AGENDA

- A. Call to Order:**
- B. Disclosures of Pecuniary Interest:**
- C. Approval of Minutes:**
Minutes of the meeting of the Union Water Supply System Joint Board of Management Meeting held Wednesday, September 21, 2022
Pages 2 - 8
- D. Business Arising Out of the Minutes**
- E. Items for Consideration:**
 - 1. UW/20/22 dated October 14, 2022 re: Status Update of UWSS Operations & Maintenance Activities and Capital Works to October 14, 2022
Pages 9 - 41
 - 2. Verbal Update and presentation on the Dissolved Air Flotation - Phase 1 - Clarifier No. 2 project
- F. New Business:**
- G. Adjournment:**
- H. Date of Next Meeting:** November 16, 2022, 1741 Jasperson Lane, Kingsville Arena, 9:00 am

/kmj



MINUTES

Members Present Mayor MacDonald (Vice-chair); Deputy Mayor Verbeke, Councillors
Union Water Dunn, Hammond, Tiessen - Leamington
Supply System Deputy Mayor Queen, Councillor DeYong, Patterson - Kingsville
 Councillor Walstedt - Lakeshore

Members Councillor Vander Doelen - Essex
Absent:

Also in Attendance: Rodney Bouchard, Union Water Supply System Manager
For UWSS Khristine Johnson, Recording Secretary

Municipal Staff Rob Mackie - Town of Essex
Present: Albert Dionne - Municipality of Lakeshore
 Laura Rauch, Shannon Belleau - Municipality of Leamington

OCWA Staff Dale Dillen, Ken Penney, Robin Trepanier
Present:

Call to Order: 9:06 am

Disclosure of Pecuniary Interest: none

Adoption of Board Minutes:

No. UW-35-22

Moved by: Councillor Tiessen

Seconded by: Deputy Mayor Queen

That the Minutes of the UWSS Joint Board of Management held Wednesday, July 20,
2022 are received; and

Carried

Business Arising out of Minutes:

There was none

Report UW/17/22 dated July 15, 2022 re: Status Update of UWSS Operations & Maintenance Activities and Capital Works to July 15, 2022

The Manager welcomes members back to in person meetings. He thanks everyone for attending and hopes that everyone had a great summer.

The Manager informs members of the ongoing maintenance and operations projects happening throughout the system. He notes that the High Lift Pump #9 received all the necessary parts and was put back into service on July 25th.

Staff noticed leakage from the cement retaining wall outside the south end of the treatment plant truck way. It was suspected to be coming from the effluent line of Clarifier #3 and #4. DiMenna Excavating attended to assist with the repair. The Manager notes that additional repairs will be required on this line over the next few months.

During the week of August 1st, the north shore of Lake Erie experienced an upwelling event. This resulted in low temperature raw water with low dissolved oxygen and high pH making its way into the low lift intakes. This posed some water quality issues for the UWSS treatment system and adjustments to the pH control system, pre chlorine doses and extra filter backwashes were needed. With the help of the UWSS raw water monitoring systems, staff were able to get through this event relatively smoothly. The Manager notes that our neighbours in Harrow experienced the same event and had to ask residents to substantially reduce their water use, with all outdoor water used banned during this time. The Manager notes that these types of events could potentially become more frequent since the high wind conditions that drive these upwelling events appear to be occurring more regularly. The UWSS has algae monitoring in place and DAF will also assist with these types of events.

The Manager further notes that DiMenna Excavating was retained to re-route the sump pump discharge line for the WTP reservoir perimeter drainage from the storm drain to the waste station influent manhole. This will help minimize any chlorinated water going into the storm water system.

Watech services were on site during the week of August 15th to pinpoint a leak in reservoir #2. The leak addressed for the time being however future repairs will be required to address the cause of the leaks. The more major repairs likely won't happen until potentially reservoir #3 is complete. Watech services also completed an inspection of the Low Lift intakes. It was noted that non-critical repairs would be required on the hatch. These repairs will be completed at a later date.

The Manager notes that SAI Global completed the stage 1 desktop review part for the external audit of the UWSS' DWQMS, which is managed by OCWA on behalf of USS. This was an inspection of the documents as part of the management system. No issues were identified. The second part of the audit consisting of an on-site inspection took place on September 9th. Staff member interviews still need to be completed as part of the process and a final report is expected by the end of September.

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The MECP has now completed the Municipality of Leamington's inspection of the water distribution system. An inspection report was issued on July 18, 2022. No issues were reported and the system received a 100% rating.

The Manager notes that the operations staff have identified that the protective membrane for the clear well underneath the truck way in the water treatment plant was in poor condition and will require rehabilitation. Greenflag Coatings, of Kingsville, has been retained to replace the protective membrane. It is anticipated that this work will be completed in early October 2022.

The Manager indicates that the concrete pad has been installed at CBS. This is in preparation for the installation of the Variable Frequency Drives (VFDs) for the CBS pumps.

The operations staff have completed their valve exercising program for 2022. The Manager will be bringing back further information within the budget to make some necessary repairs.

The Manager provides an update on the DAF Phase 1 project. He notes that the team has started flow testing for the DAF. This will identify any immediate issues that need to be addressed as part of the contract. A deficiency has been identified with the scum sweeper arms not working properly. The contractor and design engineers are working on a solution to address this deficiency. The Manager also noted that this flow testing also allowed the team to determine some WTP limitations, including the volume of water that could be pushed through the new DAF clarification process. The next four (4) weeks will focus on testing, the new sweeper arm design, outdoor restoration, remaining electrical, which includes an automated transfer switch and other loose ends.

The Manager thanked the staff for managing the summer peaks quite well with only three (3) clarifiers.

Councillor Dunn asked for further explanation regarding Item #4, regarding the dechlorination of water. The Operations Manager answered, noting that there should not be any chlorine in the processed water that goes out to settling pond.

Councillor Wilkinson asks Operations Manager about Item #3, regarding the upwelling event. The Operations Manager notes that if the situation gets too bad, the filters will continually get plugged not producing enough water. If this were to get too severe, UWSS would likely have to issue notification of just essential water use, until the situation could be resolved. Councillor Wilkinson asks if staff is prepared for these types of events. The Manager notes that this does not happen very often, but there are monitoring systems in place to help staff deal with these situations. Councillor Dunn asks how long water reserves would last during an event like this. The Operations Manager notes that there would maybe 4-5 hours of water reserves in the summer during high demand times. However, winter is different and reserves would last longer.

Mayor MacDonald asks about the unbudgeted costs for the repairs to the effluent line around Clarifier #3 and #4. The Manager notes that funds are available for this type of repair.

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The Manager reviews the flows and notes that they are up over last year and the four (4) year average.

No. UW-36-22

Moved by: Councillor Dunn

Seconded by: Councillor DeYong

That Report UW/17/22 dated September 16, 2022 re: Status Update of the UWSS Operations and Maintenance Activities and Capital Works to September 16, 2022 is received.

Carried (UW/17/22)

Report UW/18/22 dated September 15, 2022 re: Adoption and Execution of Items Related to the Restructuring of the Union Water Supply System

The Manager reminds all members that this governance/ restructuring matter has been ongoing for a number of years and has provided numerous reports to them throughout the years, keeping them up to date on the possible ongoing transition to a Municipal Services Corporation. He notes that he attended all of the municipal council meetings in August to obtain resolutions from each municipality supporting the change over from Union Water Supply System Board over to a Municipal Services Corporation. He then reviews his report including the time lines suggested by the experts assisting with the transition.

The Manager notes that UWSS will require retention of Human Resources as well as bookkeeping services, and that he is working with the experts to create a new budget for the 2023 year.

He further is hoping that by January 1st, 2023 that the transition can go live, but anticipates that it might take longer, as he needs to ensure that all the paperwork and processes are in place.

The Manager then reads through each point of the recommendation within his report. There are eight (8) points in total.

Mayor MacDonald notes that this is a momentous occasion and she is happy that UWSS is evolving to change for the better. She thanks the Manager, Rodney Bouchard, for getting UWSS to this point. She can see the future of UWSS is now sustainable, as there are many upgrades that need to take place over the next several years and they could not be done without this change taking place.

No. UW-37-22

Moved by: Councillor Patterson

Seconded by: Councillor Walstedt

That report UW/18/22 dated September 15, 2022 re: Adoption and Execution of Items Related to the Restructuring of the Union Water Supply System is received; And

1. This Board approves and adopts the “Proposed Business Case Study for Restructuring Union Water Supply System (UWSS) into a Municipal Service Corporation” dated March 28, 2018 (the “Business Case”), as previously presented to this Board.
2. This Board acknowledges the adoption of the Business Case, as previously presented to this Board, by The Corporation of the Municipality of Leamington, The Corporation of the Municipality of Lakeshore, The Corporation of the Town of Essex and The Corporation of the Town of Kingsville.
3. This Board authorizes the General Manager to execute, and authorizes the necessary filing, of the Articles of Incorporation for the municipal services corporation to be known as “Union Water Supply System Inc.” which Articles of Incorporation were previously presented to this Board in draft form.
4. This Board authorizes the General Manager to execute a Lease Agreement between the Corporation of the Town of Kingsville as Landlord and Union Water Supply System as Tenant for lease of the property municipally known as 52 Pulford Street, Kingsville, Ontario and legally described as LT 24-25 PL 1182 KINGSVILLE; PT BLK A PL 1182 KINGSVILLE AS IN TK7795 S/T TK7795; KINGSVILLE (PIN 75174-0105 (LT)).
5. This Board authorizes the General Manager to execute a Lease Agreement between the Corporation of the Town of Essex as Landlord and Union Water Supply System as Tenant for lease of the property municipally known as 162 Forest Avenue, Essex, Ontario and legally described as PT N ½ LT 283 CON STR INCLUDING BLOCKS 10 TO 17, 116 TO 122, B, C & D COLCHESTER AS IN R174555.
6. This Board authorizes the General Manager to execute such other documents and instruments as may be necessary in order to incorporate, establish and organize the municipal services corporation to be known as “Union Water Supply System Inc.” in accordance with the Business Case.
7. The General Manager is hereby authorized for and on behalf of the Board to execute and deliver such other agreements, instruments and documents as may be necessary or desirable to give effect to these resolutions.
8. The General Manager is hereby authorized to do all such other acts and things as may be necessary or desirable to give effect to these resolutions.

Carried (UW/18/22)

Report UW/19/22 dated September 15, 2022 re: Engineering and Design - New Reservoir and UV Disinfection Facility

The Manager reminds members of the Board that Associated Engineering (AE) prepared a Water Quality Masterplan (WQMP) in 2016 and at that time it was recommended additional disinfection be added to the Ruthven WTP processes. AE recommended a UV treatment facility be added in the near future.

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Further, AE and C3 Water were retained to work jointly on the UWSS Infrastructure Needs Study, which looked 5-10 years into UWSS's future needs. That draft report was also previously presented to the UWSS Board.

It was noted that there is insufficient storage in our area to meet the demands. High demands in the summer exceeds what the WTP can produce and this is occurring more often. The Manager anticipates a 3% growth over last year and a 1.5% growth each of the years after.

The Manager is proposing a 40 ML reservoir in order to meet our growing needs. He notes that on high water demand days operations is cycling through our current reservoirs four (4) times in a day. A new reservoir would allow for operations to maintain water production at a better rate and would mitigate existing risks with water reserves.

The Manager indicates that the design can be commenced immediately and anticipates that a contractor can be retained in Spring 2023 and construction started in early Summer 2023, with the hopes of going live within 18 months of start of construction. He is asking the UWSS board to approve additional funding for this project of \$170k for a total of \$250k for the design aspect of this project, which will include the reservoir and UV facility.

Councillor DeYong asks the Manager about the current moratorium on large service applications. The Manager notes that he cannot state at this time what his recommendation will be in March 2023 regarding this issue. He feels that he needs to get through the DAF project up and running to identify the full limitations of the DAF and of the water treatment plant, but if the flow restrictions and limitations that have been seen so far during flow testing hold up, then it is likely that the recommendation will be for the moratorium to continue until the reservoir is completed.

Councillor Wilkinson asks for clarification regarding the Manager's recommendation of obtaining a preferred contractor. The Manager indicates that UWSS will go through the SOQ process to help identify a short list of qualified contractors, as this is a very specific type of work, and then a procurement process will be recommended to the UWSS Board. This could be an alternative project delivery process instead of a regular tender as long as the process meets the requirements of the Municipal Act.

Councillor Hammond notes to the Manager that with the large service application moratorium in place the UWSS Board would appreciate more information on DAF as soon as possible. The Manager anticipates an updated report on DAF at the October meeting.

No. UW-38-22

Moved by: Councillor Hammond

Seconded by: Councillor DeYong

That the UWSS Board approves a budget of \$250,000 for the undertaking of conceptual and indicative design for new reservoir #3 and ultraviolet (UV) system for primary disinfection with future expandability for Advanced Oxidation Processes (AOP) to mitigate taste and odour (T&O) and algal toxin issues;

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And further, that the UWSS Board authorizes the UWSS General Manager to award a contract in the amount of \$194,600 to Associated Engineering for New Reservoir and UV Facility Conceptual and Indicative Design.

Carried (UW/19/22)

Correspondence

The Manager notes the correspondence received from the Town of Kingsville regarding the departure of Mayor Santos. His position on the UWSS Board is to remain vacant until after the municipal election in October.

No. UW-39-22

That correspondence dated August 10, 2022 from the Town of Kingsville, Re: Committee and Board Appointments is received.

Carried

New Business:

The Manager informs members of the UWSS Board that he and OCWA Operations Manager met with Dave Delellis, councillor on Pelee Island, down at the Low Lift pumping station property. The discussion centered on getting fibre optic cables running over to Pelee Island, with the starting point the on the Low Lift land. There is no cost to UWSS and Hydro One already runs lines in that vicinity. The Manager mentions that UWSS is potentially interested in upgrades as well and there might be potential benefits to the trenching work that would have to happen. He will bring more information to the board once available.

Adjournment:

No. UW-40-22

Moved by: Councillor VanderDoelen

Seconded by: Deputy Mayor Verbeke

Time: 9:59 am

Date of Next Meeting: October 19, 2022, at the Kingsville Arena

/kmj

To: Chair and Members of the Union Water Supply
System Joint Board of Management

From: Rodney Bouchard, UWSS General Manager

Date: October 14, 2022

Re: Status Update of UWSS Operations & Maintenance Activities and Capital
Works to October 14, 2022



Aim:

To inform the UWSS Board about operational and maintenance activities and capital works projects for the Union Water Supply System since the last Board meeting on September 21, 2022.

Discussion:

The UWSS General Manager conducts regular meeting with OCWA Operations staff in regards to on-going operations and maintenance programs for the UWSS facilities. The following provides an update on UWSS operations, regular maintenance and major maintenance and Capital Works at UWSS facilities:

1. DiMenna Excavating was retained on October 11, 2022 to excavate Clarifier #3 and #4 effluent line so that a permanent repair can be completed on the pipe joint located where the effluent extends outside the treatment building. A temporary repair was completed in July to stem a significant leak from that joint. Utility Service Corp. will be on site on October 17, 2022 to assess the situation and identify the best permanent repair option.
2. SAI Global completed the Stage 2 on-site Drinking Water Quality Management System (DWQMS) inspection in September 2022. This inspection was facilitated by UWSS OCWA compliance staff. Only one (1) Opportunity for Improvement (OFI) was identified during the inspection. The OFI was in regards to Work Order system documentation. SAI Global issued a new Certificate of Accreditation to OCWA for the DWQMS.
3. UWSS OWCA operations and maintenance staff identified that the protective membrane for the clear well underneath the truck way was in poor condition and needed to be rehabilitated to prevent any potential leakage of surface water into the clear well. Greenflag Coatings of Kingsville, ON has been retained to complete this work. Materials for this work were received on site on October 13, 2022. The rehabilitation work should be completed by the end of October 2022.
4. The Factory Acceptance Test (FAT) was completed for the new PLC Panel that has been constructed by SUMMA Engineering for the Cottam Booster Station. The new PLC panel is scheduled for installation on October 17-18, 2022. Site Acceptance Testing (SAT) for the new panel will be completed as part of the installation work.

Re: UW/20/22 - Status Update of UWSS Operations & Maintenance Activities and Capital Works to October 14, 2022

5. The interconnects between the UWSS supplied system and the Harrow-Colchester drinking water system were opened on September 13th, 2022 so that UWSS could supply water to the Harrow-Colchester system during a major repair to a clarifier influent pipe at the Colchester WTP. These interconnects remained open until September 20th, 2022. The amount of water supply to the Harrow-Colchester system during that time was calculated at 26,250m³.
6. UWSS added 10 new smart hydrant monitoring devices in September 2022. Four were installed in Leamington, three in Essex and three in Lakeshore. The smart hydrant monitoring system now includes 34 monitoring devices in total.
7. Dimenna Excavating was retained in September 2022 to remove dried settling pond residuals material from the residuals pile at the water treatment plant site for disposal at the Essex Windsor Solid Waste Authority landfill. As of the date of this report, 3,000 tons of materials have been moved.
8. DAF Phase 1 Update: The majority of the work for the DAF system has been completed. Full flow testing to the filters was completed on September 27th, 2022. Outdoor restoration work is complete. The portable generator has been connected to the DAF system for backup power and the automated transfer switch has been installed and tested.

The following work remains to be completed:

- Greatario will be on-site on October 15-18 to complete the flashing work for the DAF dome enclosure.
- Site acceptance testing (SAT) for the DAF SCADA program is scheduled for October 25th.
- New skimmer arm modifications are to be completed during the week of October 24th.
- The new flash mixer is to be installed during the week of October 24th. A temporary mixer was installed to allow for the DAF testing until the proper mixer was delivered to site.
- Completion of deficiency list to address any minor deficiencies

A copy of the weekly progress report for the week ending September 26, 2022, prepared by UWSS' consultant (Associated Engineering) site inspector, is attached to this report.

Re: UW/20/22 - Status Update of UWSS Operations & Maintenance Activities and Capital Works to October 14, 2022

The first chart shows comparative flows for 2018 through 2022 in Mega Litres (ML) and the second chart shows Millions of Imperial Gallons (MIG) for the period January 1st to October 13, 2022.

	2018	2019	2020	2021	2022
Flow to Date (ML)	13,816.07	14,235.17	16,142.74	16,866.06	17,579.52
Max Day (ML)	82.48	85.40	97.33	93.83	99.17
Min Day (ML)	23.56	20.13	25.44	26.74	27.58
Average Day (ML)	48.31	49.77	56.25	58.97	61.47
No of Days	286	286	287	286	286

	2018	2019	2020	2021	2022
Flow to Date (MG)	3039.32	3131.36	3550.98	3711.41	3867.69
Max Day (MGD)	18.14	18.79	21.41	20.64	21.81
Min Day (MGD)	5.18	4.43	5.60	5.88	6.07
Average Day (MGD)	10.63	10.95	12.37	12.98	13.52
No of Days	286	286	287	286	286

Flows to date are up 713.46 ML (156.28 MIG) or 4.2% from last year. The 2022 flows to date are up 15.2% over the previous 4 year average.

Recommendation:

That this report be received by the UWSS Board for information purposes.

Respectfully submitted,



Rodney Bouchard, General Manager
Union Water Supply System Joint Board of Management

/kmj

Prepared By:	Sommer Lee, SI/CA	Date:	2022-09-26	File:	2020-5461.05.05
		Report No.:	52	Proj. No.	2020-5461
		Report Period:	2022-09-19 to 2022-09-23		
		Client :	Union Water Supply System (UWSS)		
		Client Contact :	Rodney Bouchard		
		Project:	UWSS Ruthven WTP DAF Retrofit Project Phase 1		

PROGRESS REPORT

TOTAL DAYS ON SITE THIS WEEK	DAYS LOST TO WEATHER THIS WEEK	REMAINING DAYS TO CONTRACT COMPLETION
5	0	As of 2022-09-26 , -35 days to contract completion (Original Contract Completion 2022-05-17 → Revised Contract Completion of 2022-08-22)

KEY EQUIPMENT ON SITE

QTY.	NAME	USE	DAYS IN OPERATION
1	Crawler Loader	N/A	N/A
1	Crane	N/A	N/A
1	Skid Steer	Sidewalk Layout, Excavating for Precast Steps, Grading and Cleaning Up	2022-09-19 to 2022-09-22
1	Excavator	N/A	N/A
1	Plate Compactor	N/A	N/A
1	Jumping Jack Compactor	N/A	N/A
1	Bulldozer	N/A	N/A
1	Dump Truck	N/A	N/A
1	Mini Excavator	N/A	N/A
1	Telescopic Handler	General Cleaning/set-up	2022-09-19
1	Vacuum Truck	N/A	N/A
2	Skyjack	N/A	N/A
1	Boomlift	N/A	N/A
	Miscellaneous Tools & Equipment		2022-09-19 to 2022-09-23

KEY DELIVERIES TO SITE

DATE	MATERIALS / EQUIPMENT DELIVERED	NOTES
	• N/A	

WORK COMPLETED

DATE & WEATHER	SUMMARY OF WORK	ASSOCIATED PHOTOS
2022-09-19 Partly Cloudy 27°C/14°C	<ul style="list-style-type: none"> Maple laying out sidewalk and precast steps from DAF No. 1 to Auxiliary Equipment Building. Maple continuing site cleanup of excess materials and tools and demobilization. 	No photos to include for this date.
2022-09-20 Sunny 25°C/18°C	<ul style="list-style-type: none"> Maple & Velez forming sidewalk from DAF No. 1 to Auxiliary Equipment Building. Maple continuing site cleanup of excess materials and tools and demobilization. 	No photos to include for this date.

2022-09-21 Partly Cloudy 28°C/12°C	<ul style="list-style-type: none"> Maple & Velez forming sidewalk from around DAF No. 1. Maple & Velez pouring concrete in front of Ruthven WTP generator room entrance and from DAF No. 1 to Auxiliary Equipment Building. Maple continuing site cleanup of excess materials and tools and demobilization. Contractor site trailer demobilized. Associated Engineering & OCWA in coordination with Maple & Napier Reid running DAF No. 1 in “in-service” mode to the filters (Approximate Start time: 7:54AM at an influent flow of approximately 420 L/s). The effluent turbidity was approximately stable at ~0.6 NTU for the first two hours during “in-service” mode before increasing to hover around approximately 1 NTU. Scum area on the water surface increased and appeared to not be sufficiently removed due to rubber blades on skimmer lifting before reaching the scum troughs. Per discussion with Napier Reid, the water level in the tank was increased (by partially closing the manual valve on the DAF No. 1 Effluent line at approximately 3:00PM – manual valve is downstream of the isolation valve) to allow partial overflow through the scum troughs and overflow. 	1 – 56
2022-09-22 Mostly Cloudy 16°C/6°C	<ul style="list-style-type: none"> Maple & Velez pouring concrete for DAF No. 1 tank perimeter sidewalk and Clarifier No. 4 sidewalk. Maple continuing site cleanup of excess materials and tools. Associated Engineering & OCWA in coordination with Maple & Napier Reid continuing running DAF No. 1 in “in-service” mode with some flow to partial overflow along with remaining flow to the filters at an influent flow of approximately 405 L/s. The effluent turbidity was approximately 0.3 – 0.5 NTU. Maple completing concrete repair (i.e. patching holes in walls) in the DAF No. 1 Blowdown Chamber. Maple completing cleanup in grading around generator quick connect panel. 	57 – 79
2022-09-23 Partly Cloudy 17°C/10°C	<ul style="list-style-type: none"> Maple continuing site cleanup of excess materials and tools. Velez spraying sidewalk that was poured on 2022-09-22 and removing burlap from poured areas. Associated Engineering & OCWA in coordination with Maple & Napier Reid continuing running DAF No. 1 in “in-service” mode with some flow to partial overflow along with remaining flow to the filters at an influent flow of approximately 420 L/s. The effluent turbidity was approximately 0.3 – 0.4 NTU. 	80 – 100

KEY CONTRACTORS AND SUBCONTRACTORS ON SITE

- Maple Reinders Constructors Ltd. (Maple), 2022-09-19 to 2022-09-23
- Maple Electric, N/A
- NJS Excavation (NJS), N/A

- Velez Construction (Velez), 2022-09-20 to 2022-09-23
- Tarpon, N/A
- Lakeshore / Lake Erie Concrete Supply, 2022-09-21 to 2022-09-22
- AGF, N/A
- KT Excavating, N/A
- Jake's Crane Service, N/A
- Moir Crane Service, N/A
- Tri County Crane & Machinery Moving, N/A
- Brevon Concrete Cutting and Coring, N/A
- Red Line Contracting, N/A
- Vito Masonry, N/A
- Cutting Edge Insulation, N/A
- Aluma Safway, N/A
- Napier Reid, N/A
- Greatario, N/A
- Prestressed Systems Incorporated (PSI), N/A
- Earl S Ross, N/A
- Stonhard, N/A
- Gillett Roofing, N/A
- Ayr Welding, N/A
- Cameron Crane, N/A
- Troy-Ontor, N/A
- Eaton, N/A
- Idea Networks, N/A
- Patrick Welding, N/A
- Insulcana Contracting Inc., N/A
- Grove Crane, N/A
- Lancaster Group Inc, N/A
- DXS Canada, N/A
- Precision, N/A
- Neufeld Construction, N/A
- Build Source, N/A
- DiMenna Excavating Contractors Inc. (Dimenna), N/A

VISITORS AND PURPOSE OF VISIT:

- None to note during this period.

REQUESTED REVISIONS OR INTERPRETATIONS, FIELD INSTRUCTIONS, CHANGE DIRECTIVES

- RFI 095 – Dome Stairs (Received 2022-09-21)

NONCONFORMING WORK REPORTED TO CONTRACTOR:

- None to note during this period.

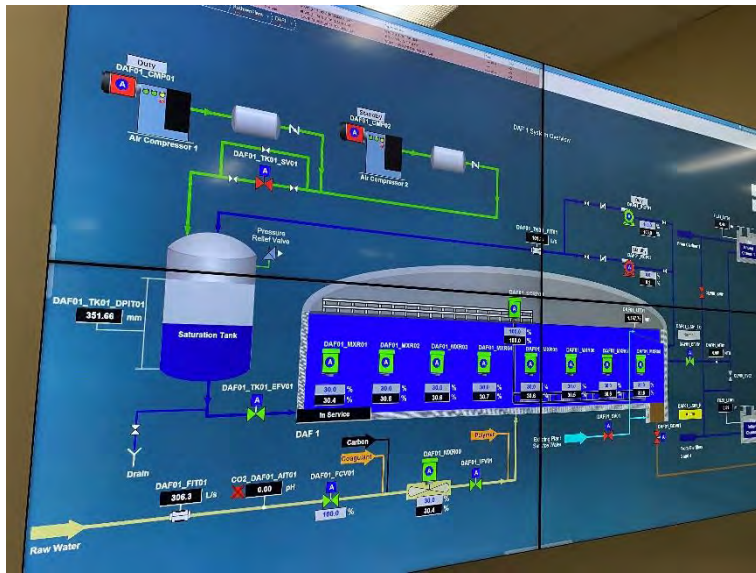
ISSUES THAT MAY LEAD TO DELAYS IN PROJECT DELIVERY:

- None to note during this period.

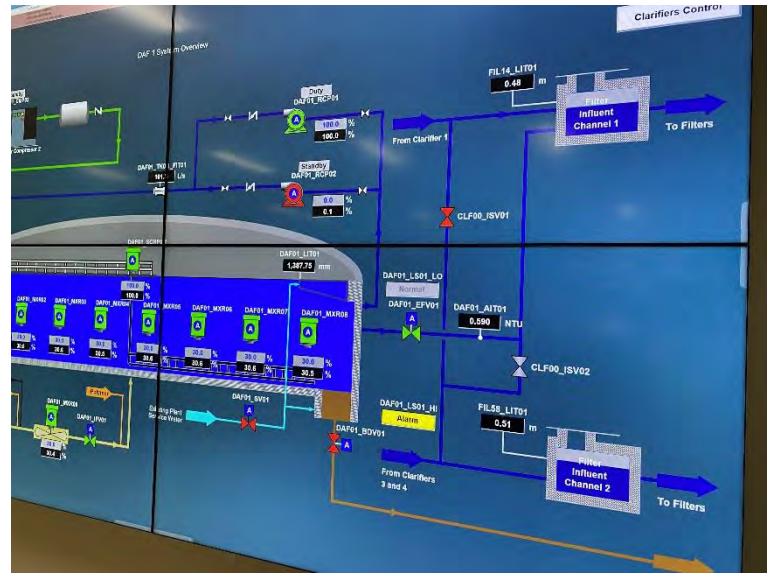
ATTACHMENTS AND OTHER INSPECTION/OBSERVATION REPORTS:

- None to include during this period.

PHOTOS



1. SCADA Screen – DAF Overview (2022-09-21)



2. SCADA Screen – DAF Overview (2022-09-21)



3. DAF No. 1: In Service Mode (2022-09-21)



4. DAF No. 1: Main Drive (2022-09-21)



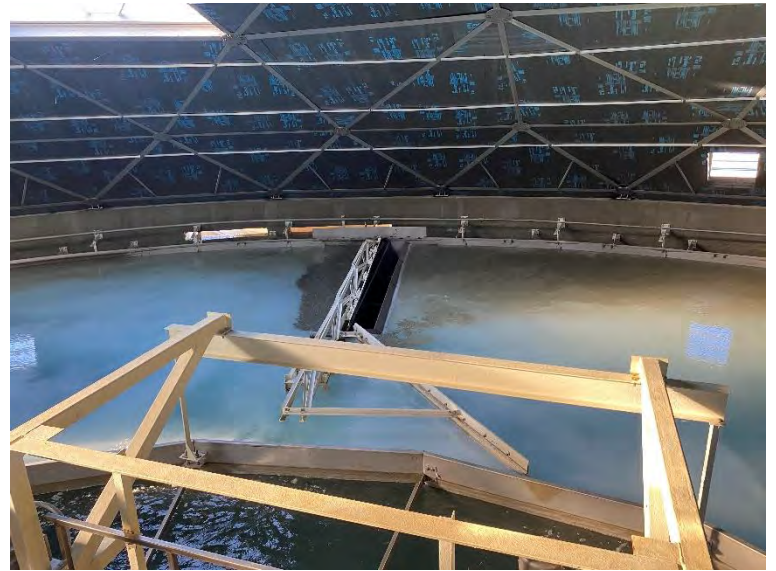
5. DAF No. 1: In Service Mode (2022-09-21)



6. DAF No. 1: In Service Mode (2022-09-21)



7. DAF No. 1: In Service Mode (2022-09-21)



8. DAF No. 1: In Service Mode (2022-09-21)



9. DAF No. 1: In Service Mode (2022-09-21)



10. DAF No. 1: In Service Mode (2022-09-21)



11. Concrete Pour for Misc. Sidewalk and Platforms (2022-09-21)



12. Sidewalk and Step Formwork from DAF No. 1 Tank to Auxiliary Equipment Building (2022-09-21)



13. Sidewalk and Step Formwork from DAF No. 1 Tank to Auxiliary Equipment Building (2022-09-21)



14. Sidewalk and Step Formwork from DAF No. 1 Tank to Auxiliary Equipment Building (2022-09-21)



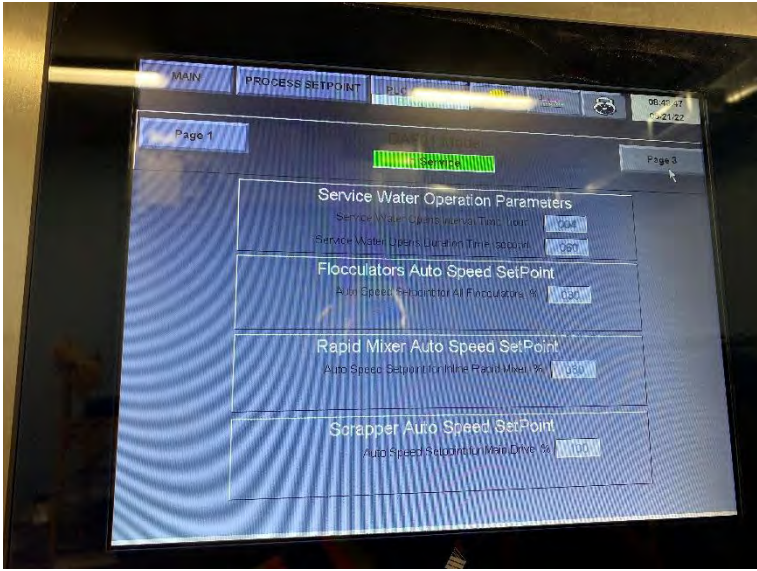
15. Sidewalk and Step Formwork from DAF No. 1 Tank to Auxiliary Equipment Building (2022-09-21)



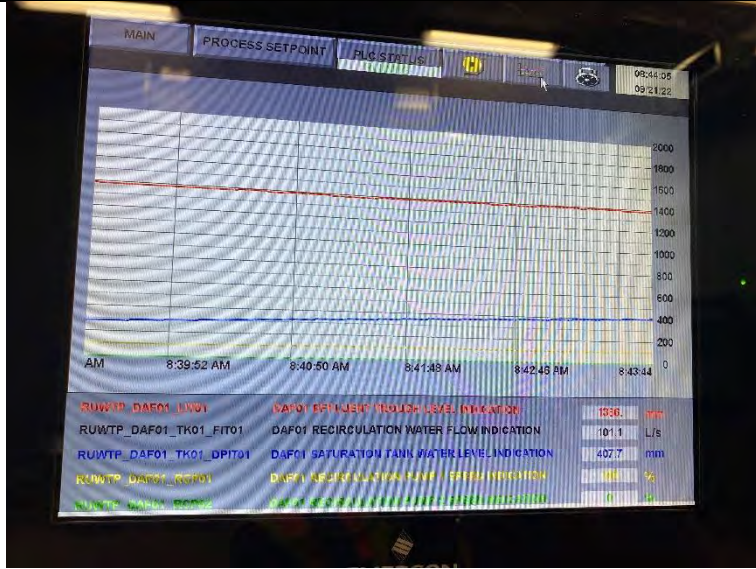
16. Sidewalk and Step Formwork from DAF No. 1 Tank to Auxiliary Equipment Building (2022-09-21)



17. DAF No. 1 HMI: In Service Mode (2022-09-21)



18. DAF No. 1 HMI: In Service Mode (2022-09-21)



19. DAF No. 1 HMI: In Service Mode (2022-09-21)



20. Auxiliary Equipment Building (2022-09-21)



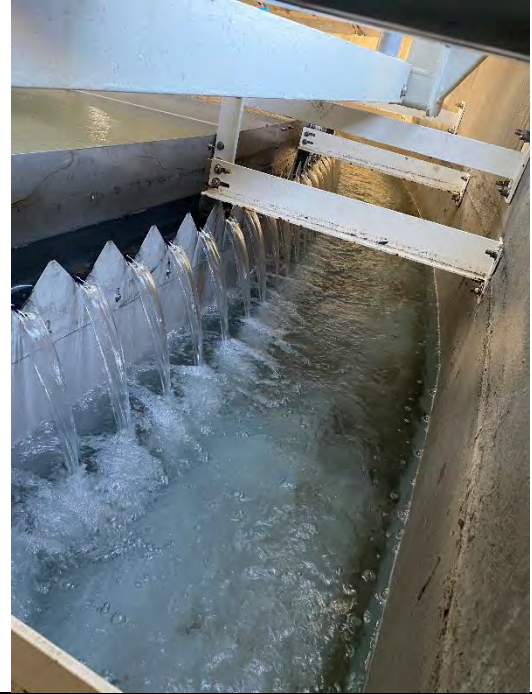
21. Auxiliary Equipment Building: Saturation Skid (2022-09-21)



22. Saturation Piping from Auxiliary Equipment Building to DAF No. 1 Tank (2022-09-21)



23. Saturation Piping from Auxiliary Equipment Building to DAF No. 1 Tank (2022-09-21)



24. DAF No. 1: Effluent Troughs (2022-09-21)



25. DAF No. 1: In Service (2022-09-21)



26. Auxiliary Equipment Building (2022-09-21)



27. Grading Between DAF No. 1 and Clarifier No. 4 (2022-09-21)



28. Cleanup in Previous Dome Laydown Area (2022-09-21)



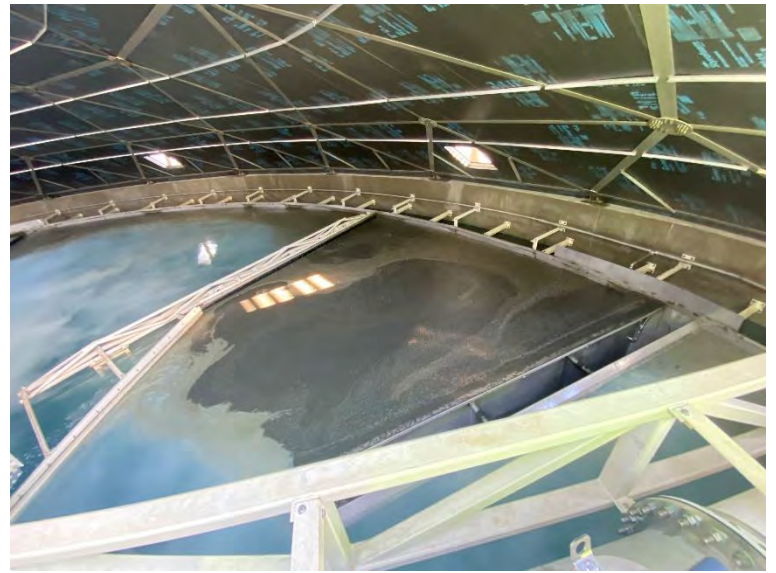
29. Cleanup in Previous Dome Laydown Area (2022-09-21)



30. DAF No. 1 Effluent Troughs at Overflow (2022-09-21)



31. DAF No. 1 Effluent Troughs at Overflow (2022-09-21)



32. DAF No. 1: In Service Mode (2022-09-21)



33. DAF No. 1: In Service Mode (2022-09-21)



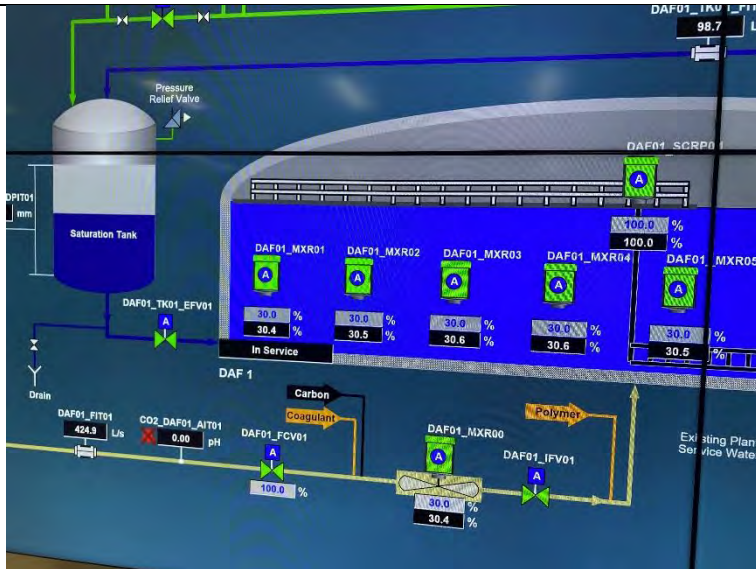
34. DAF No. 1: In Service Mode (2022-09-21)



35. Concrete Pad Area next to Ruthven WTP Generator Room (2022-09-21)



36. Concrete Pad Area next to Ruthven WTP Generator Room (2022-09-21)



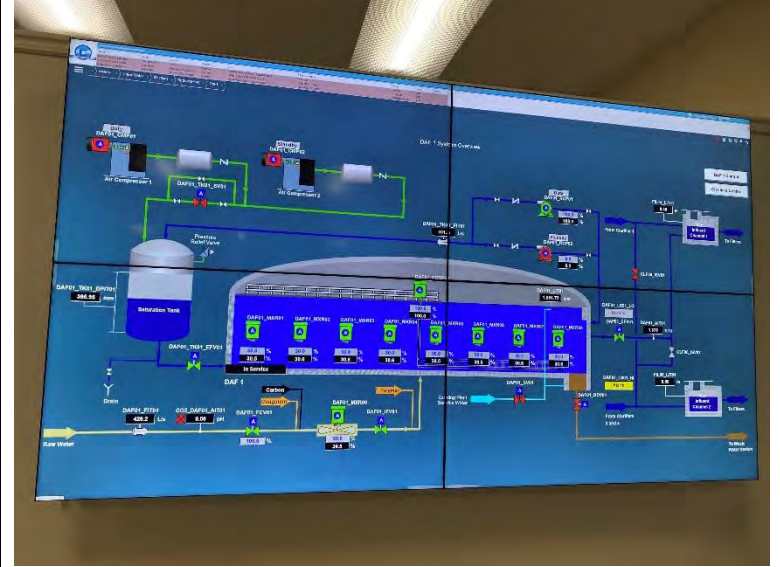
37. SCADA Screen: DAF No. 1 Overview (2022-09-21)



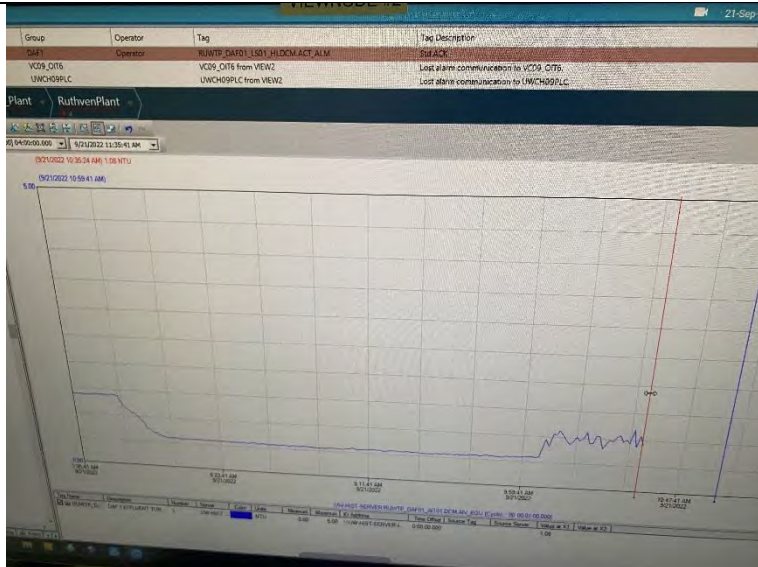
38. SCADA Screen: DAF No. 1 Overview (2022-09-21)



39. DAF No. 1: In Service Mode (2022-09-21)



40. SCADA Screen: DAF No. 1 Overview (2022-09-21)



41. DAF No. 1 Effluent Turbidity Trend (2022-09-21)



42. DAF No. 1: In Service Mode (2022-09-21)



43. DAF No. 1: In Service Mode (2022-09-21)



44. Demobilization of Contractor Trailers (2022-09-21)



45. Demobilization of Contractor Trailers (2022-09-21)



46. Demobilization of Contractor Trailers (2022-09-21)



47. DAF No. 1: In Service Mode with Partial Flow to Waste (2022-09-21)



48. DAF No. 1: In Service Mode with Partial Flow to Waste (2022-09-21)



49. DAF No. 1: In Service Mode with Partial Flow to Waste (2022-09-21)



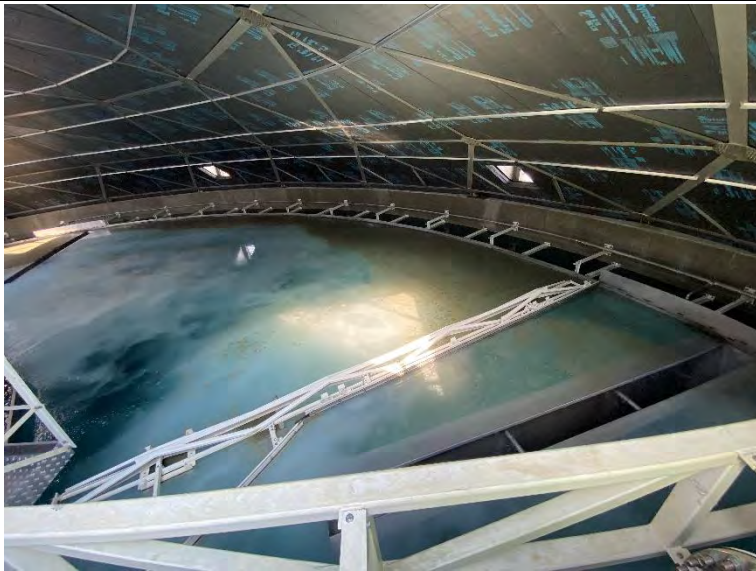
50. DAF No. 1: In Service Mode with Partial Flow to Waste (2022-09-21)



51. DAF No. 1 at Overflow: In Service Mode with Partial Flow to Waste (2022-09-21)



52. DAF No. 1: In Service Mode with Partial Flow to Waste (2022-09-21)



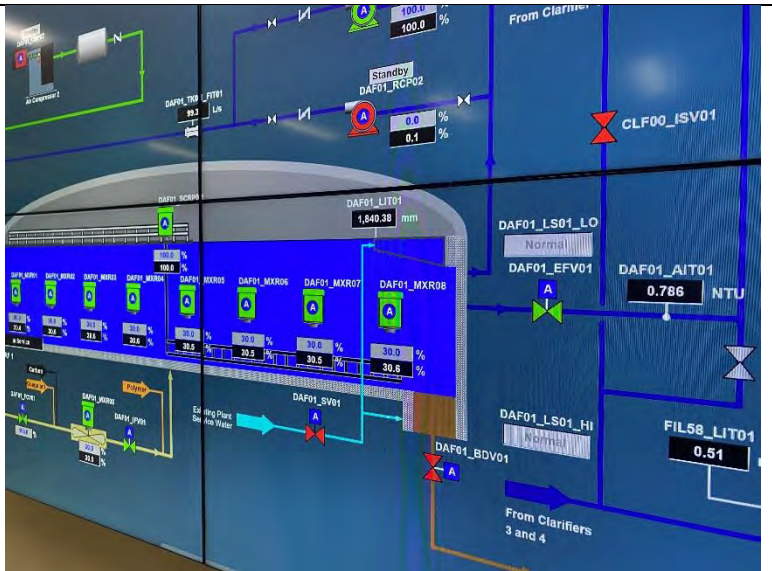
53. DAF No. 1: In Service Mode with Partial Flow to Waste (2022-09-21)



54. DAF No. 1: In Service Mode with Partial Flow to Waste (2022-09-21)



55. DAF No. 1: In Service Mode with Partial Flow to Waste (2022-09-21)



56. SCADA Screen: DAF No. 1 Overview (2022-09-21)



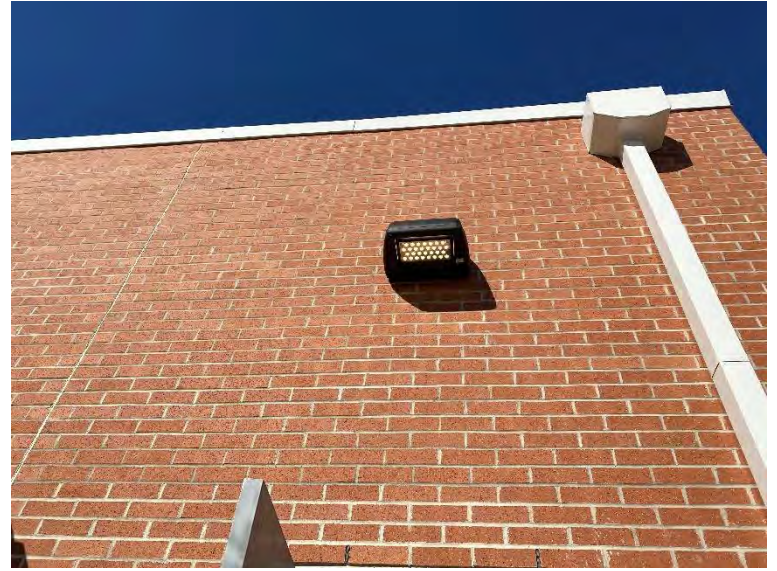
57. Sidewalk surrounding DAF No. 1 (2022-09-22)



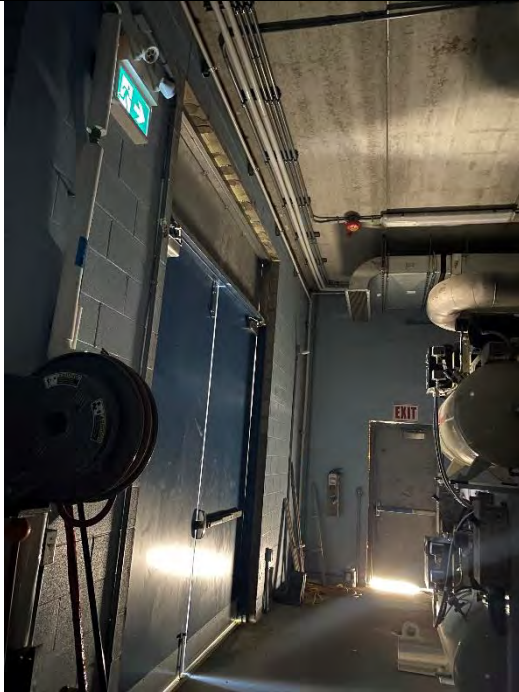
58. Sidewalk surrounding DAF No. 1 (2022-09-22)



59. Sidewalk and Steps from DAF No. 1 to Auxiliary Equipment Building (2022-09-22)



60. Auxiliary Equipment Building: Wall Mounted Exterior Light on East Wall (2022-09-22)



61. Auxiliary Equipment Building: Wall Mounted Emergency Lighting (2022-09-22)



62. Auxiliary Equipment Building: Misc. Grading (2022-09-22)



63. Auxiliary Equipment Building: Misc. Grading (2022-09-22)



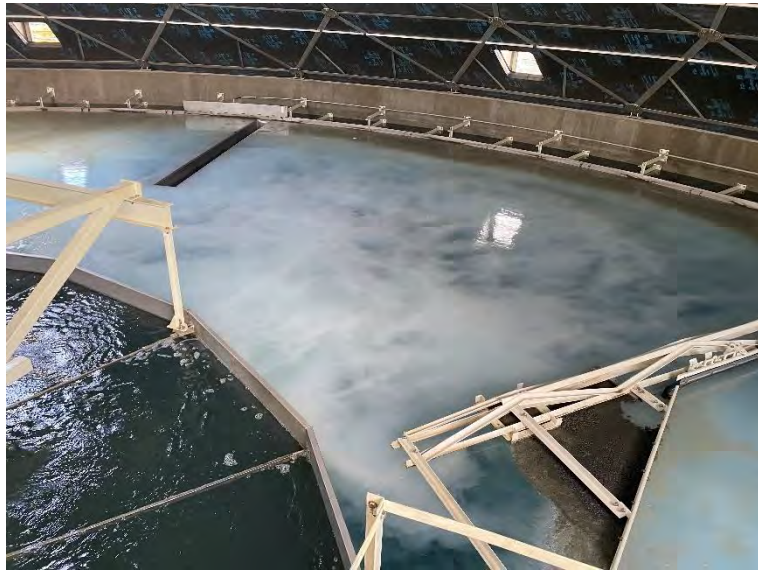
64. DAF No. 1 at Overflow: In Service Mode with Partial Flow to Waste (2022-09-22)



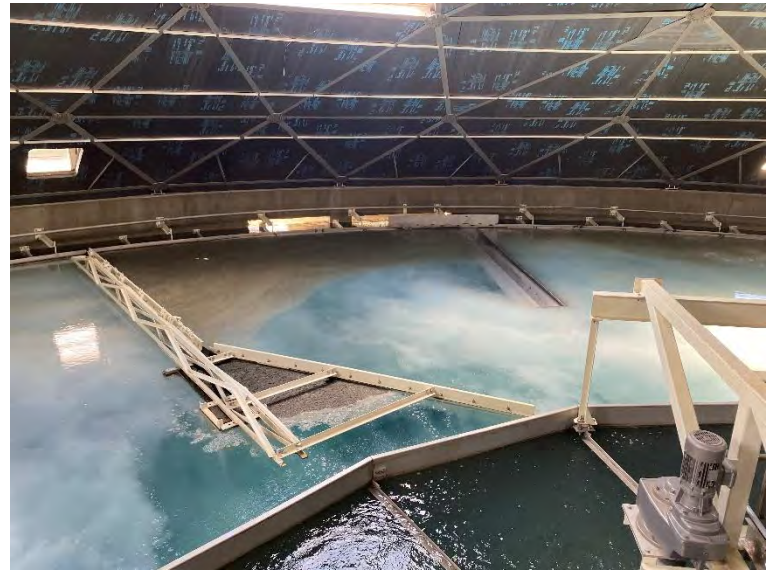
65. Concrete Pad Area next to Ruthven WTP Generator Room (2022-09-22)



66. DAF No. 1: In Service Mode with Partial Flow to Waste (2022-09-22)



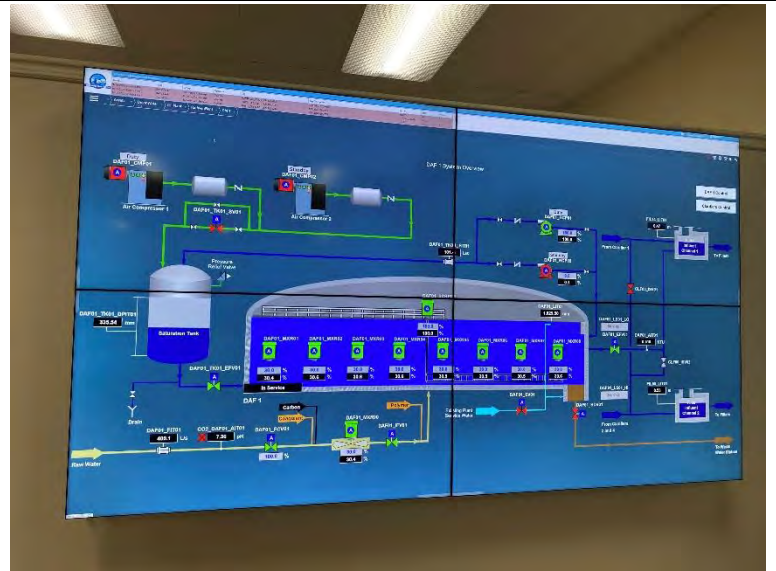
67. DAF No. 1: In Service Mode with Partial Flow to Waste (2022-09-22)



68. DAF No. 1: In Service Mode with Partial Flow to Waste (2022-09-22)



69. DAF No. 1: In Service Mode with Partial Flow to Waste (2022-09-22)



70. SCADA Screen: DAF No. 1 In Service Mode with Partial Flow to Waste (2022-09-22)



71. Parking Area (2022-09-22)



72. DAF No. 1 Dome (2022-09-22)



73. Sidewalk surrounding Clarifier No. 4 (2022-09-22)



74. Sidewalk surrounding DAF No. 1 (2022-09-22)



75. Sidewalk and Steps from DAF No. 1 to Auxiliary Equipment Building (2022-09-22)



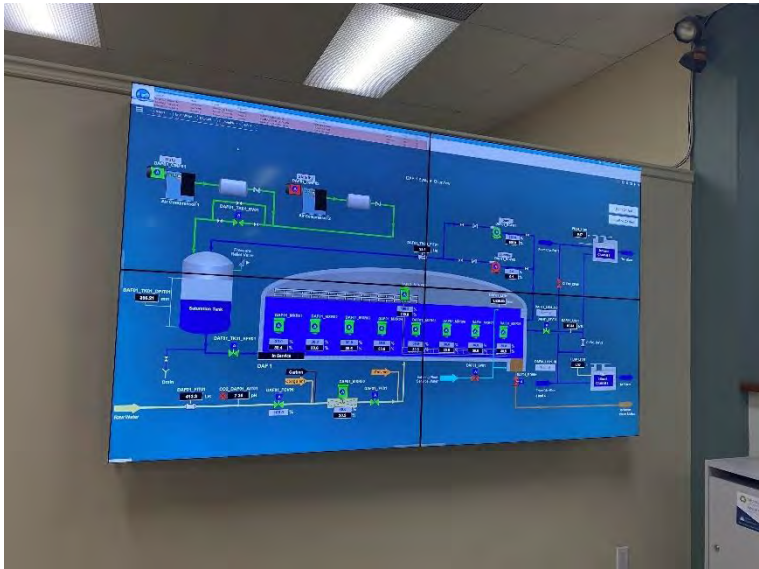
76. Sidewalk surrounding DAF No. 1 (2022-09-22)



77. Sidewalk surrounding DAF No. 1 (2022-09-22)



78. Sidewalk surrounding DAF No. 1 (2022-09-22)



79. SCADA Screen: DAF No. 1 Overview (2022-09-22)



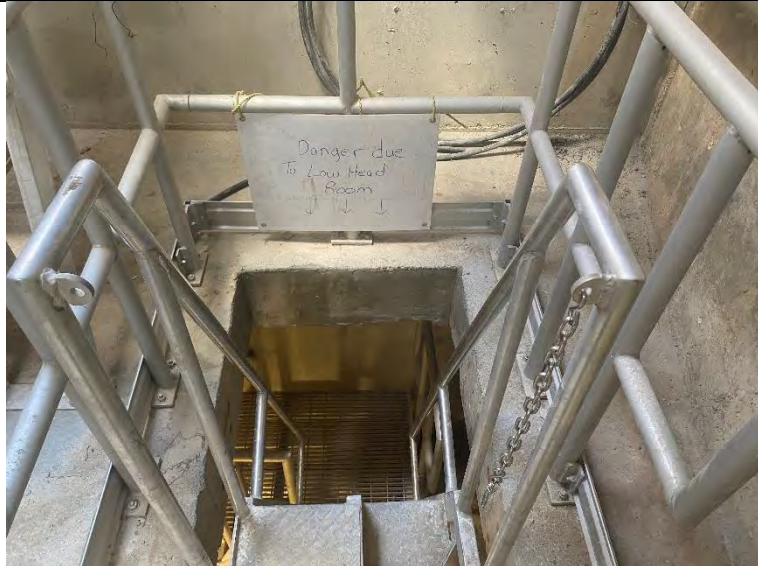
80. DAF No. 1 Blowdown Chamber: Concrete Repair on Opening Through Slab from 1st Level to 2nd Level (2022-09-23)



81. DAF No. 1 Blowdown Chamber: Concrete Repair Products (2022-09-23)



82. DAF No. 1 Blowdown Chamber: Concrete Repair Products (2022-09-23)



83. DAF No. 1 Blowdown Chamber: Concrete Repair on Opening Through Slab from 1st Level to 2nd Level (2022-09-23)



84. DAF No. 1 Blowdown Chamber: Concrete Repair on Opening Through Slab from 1st Level to 2nd Level (2022-09-23)



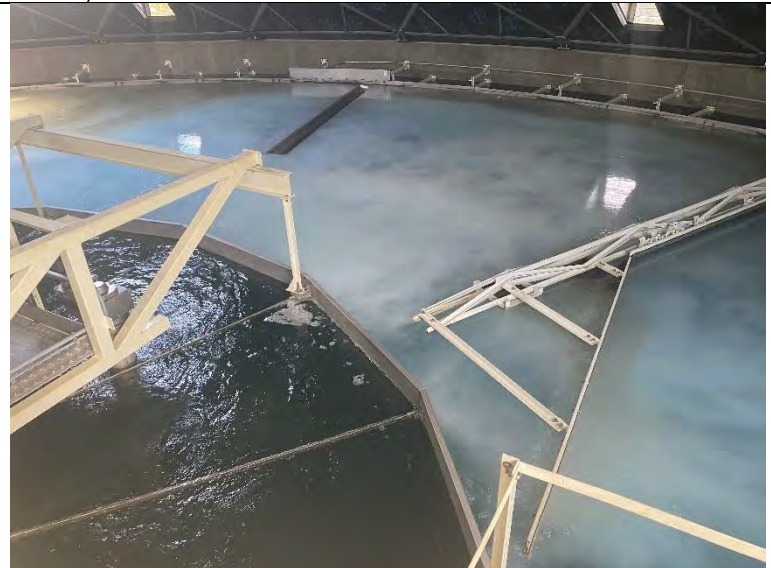
85. DAF No. 1 Blowdown Chamber: Concrete Repair on Opening Through Slab from 1st Level to 2nd Level (2022-09-23)



86. DAF No. 1: In Service Mode with Partial Flow to Waste (2022-09-23)



87. DAF No. 1: In Service Mode with Partial Flow to Waste (2022-09-23)



88. DAF No. 1: In Service Mode with Partial Flow to Waste (2022-09-23)



89. DAF No. 1: In Service Mode with *Partial Flow to Waste* (2022-09-23)



90. Sidewalk surrounding Clarifier No. 4 (2022-09-23)



91. Sidewalk surrounding Clarifier No. 4 (2022-09-23)



92. Auxiliary Equipment Building (2022-09-23)



93. Auxiliary Equipment Building (2022-09-23)



94. Auxiliary Equipment Building: Misc Items(2022-09-23)



95. Sidewalk and Steps from DAF No. 1 to Auxiliary Equipment Building (2022-09-23)



96. Sidewalk and Steps from DAF No. 1 to Auxiliary Equipment Building (2022-09-23)



97. Sidewalk and Steps from DAF No. 1 to Auxiliary Equipment Building (2022-09-23)



98. Sidewalk and Steps from DAF No. 1 to Auxiliary Equipment Building (2022-09-23)



99. Misc. Grading in Mobile Generator Parking Area (2022-09-23)



100. Misc. Grading in Mobile Generator Parking Area (2022-09-23)