

SANITARY DISTRICT OF DECATUR

501 Dipper Lane Decatur, IL (217) 422-6931

MEMORANDUM

DATE: 9/9/2021

SUBJECT: Maintenance Monthly Activity Report for August 2021

Overall

I hosted a pre-construction walk through for the 210 and Blower Building MCC Installation Projects. Bodine Electric, Anderson Electric, and Commercial Electric attended the walk through. Quotes for the 210 Building MCC were opened 9/9/21 at 10:30AM. The quote tabulation sheet is included below for your reference. We will open quotes for the Blower Building MCC late September 2021.

Project Quote Tabulation				
Project: 210 Building MCC Installation Project			Date	9/9/2021
			Time	10:30AM
Present: J. D. Malone, Russell Hazelwonder				
Contractor Name	Exceptions	Quote Amount	Alt. Quote Amount	Total
Commercial Electric	No Quote Received			
Anderson Electric	none	\$29,248.00		\$29,248.00
Bodine Electric	none	\$14,715		\$14,715
Pals Electric	No Quote Received			

A motion is included in old business to authorize the purchase order for the new oil storage / dispensing system. Utilizing the oil storage system will enhance safety, better protect the product and simplify the dispensing process. We will also begin to implement a color-coding system for the lubricants used around the plant and collection system.

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Work Orders Completed, Total of 897

82 Corrective
7 Improvement / New
738 PM
10 Process
0 Project
13 Safety
1 Training / Meeting
6 Asset Management
43 Proactive Work / Issues found during a Preventive Maintenance.

Systems Integrator and I&C Monthly Activity

- Worked with I&C training on how to upgrade and install programs on new PLC's for minor pump stations
- Pre-work on automatic activation of the West Headworks during high flow events
- Pre-work Lakeshore pump station program and temporary bypass pumping communication to the plant alarm system
- Working with Ron Guffey on outside pump station run hours and how we get the numbers into the work order management system
- Pre-work on 210 MCC and PLC upgrade
- Pre-work on 231 Blower MCC upgrade
- Pre-work on Larkdale MCC and PLC upgrade
- Pre-work for 325 Pump #3 replacement and program change

I&C staff continues to verify calibration on the Chlorine Analyzers 3 times per shift (Monday through Friday) to increase reliability and reading accuracy. The units are functioning well with minimal issues to this point.

Replacement power rails for the nitrification clarifier west cluster spray wash pumps have been ordered. We will replace all four of the units when they arrive. We have experienced nuisance trips on the power feed to this cluster. The spray wash pumps keep the algae build up to a minimum on the weirs. Delivery has been delayed until late September 2021.

Parts have been ordered to fully rebuild the control panels on the Wyckles East Loadout Barge. The old panels were rusted beyond repair. We will be installing all new stainless-steel enclosures and updating the controls.

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Mechanical Maintenance Monthly Activity

Maintenance staff has completed annual maintenance on primary clarifier #6. We will move to #5 next then #4. We are also stepping through replacing the rubber on the skimmers all nitrification clarifiers.

David Collard requested installation of a spray head on each nitrification clarifier to mitigate ashing in the nitrification clarifiers. Ashing occurs when little pieces of sludge float up to the top of the clarifier due to trapped gas bubbles in the sludge. This is usually caused by the biological formation of H₂S or N₂ gas in the sludge blanket on the bottom of the clarifier.

After temporarily installing a hose and seeing that a mist was effective, we decided to proceed with finding a cost-effective solution to install on each clarifier. Early West came up with the idea to install pvc piping on our existing hydrants with a cap with holes drilled in it on each clarifier. This creates a spray pattern that easily reaches halfway across the clarifier.



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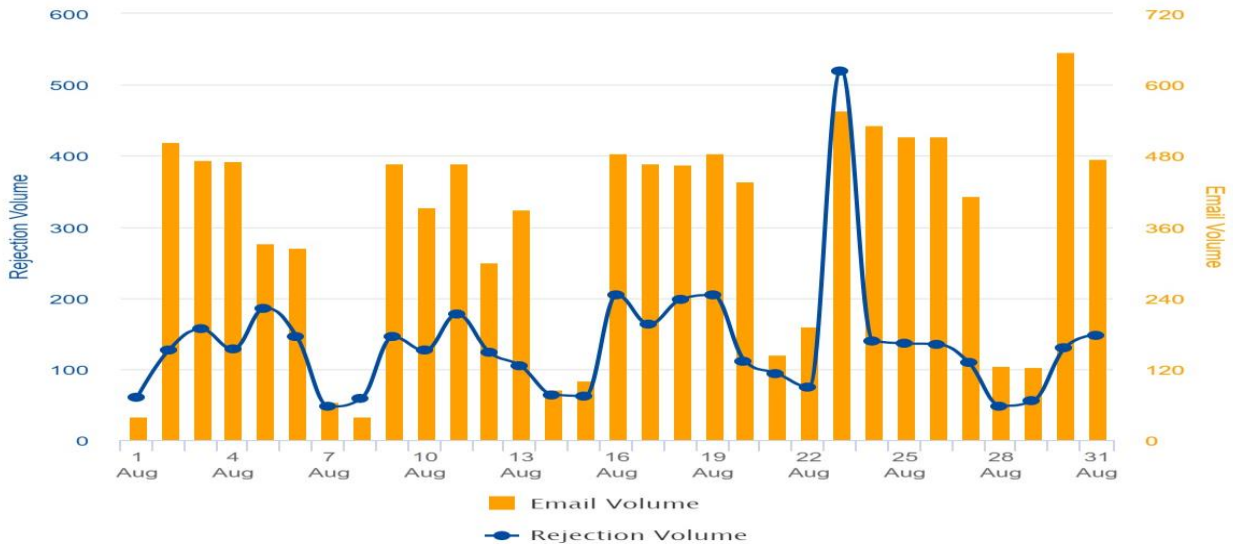
MEMORANDUM

M.I.S. Department Monthly Update

- Network Administration, Helpdesk, Troubleshooting and Repair
 - Ongoing network administration.
 - Worked with Comcast on dedicated fiber optic line

Email Security

Email Volume Vs Rejected Mail
 From 1 Aug 2021 To 31 Aug 2021
 Total Email Count : 11029 Total Rejection Count : 4179



Email Statistics Report

From Sep - 2020 To Aug - 2021

Month-Year	Total Inbound email	Rejections (includes viruses & spam)	Legit Inbound Email	% Rejections	Total Outbound email	Total Internal email
Sep - 2020	7,999	3,898	4,101	48.73 %	1,373	5,133
Oct - 2020	8,845	4,262	4,583	48.19 %	1,335	6,155
Nov - 2020	8,286	4,335	3,951	52.32 %	1,442	6,150
Dec - 2020	7,758	3,479	4,279	44.84 %	1,164	5,809
Jan - 2021	6,766	2,704	4,062	39.96 %	1,312	5,078
Feb - 2021	7,047	2,953	4,094	41.90 %	1,116	5,100
Mar - 2021	7,979	3,708	4,271	46.47 %	1,442	5,970
Apr - 2021	11,752	7,729	4,023	65.77 %	1,367	6,039
May - 2021	12,426	8,530	3,896	68.65 %	1,166	5,205
June - 2021	7,267	3,343	3,924	46.00 %	1,308	4,987
July - 2021	7,389	3,422	3,967	46.31 %	1,377	3,992
Aug - 2021	8,371	4,179	4,192	49.92 %	1,119	5,718
Total	101,885	52,542	49,343		15,521	65,336
Mean	8,490.42	4,378.50	4,111.92	49.92 %	1,293.42	5,444.67

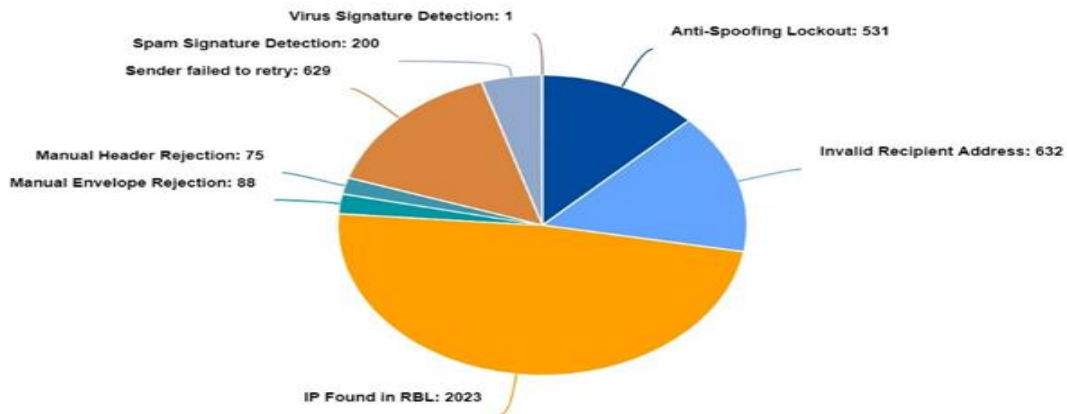
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Rejection Overview

From 1 Aug 2021 To 31 Aug 2021
Total Rejection Count: 4179



If you have any questions or would like additional information about the maintenance department and our activities, feel free to contact me.

Thank you,

James Malone, CPMM

Phone: (217) 422-6931 (x-226)