

RMCS D FIELD OPERATIONS TECHNOLOGY PROJECTS

Updated 1/29/21

	Initiative	Status	Short Description	Start Date	Completion Date	Comments
Existing						
1.	Maintenance Management and Work Order System	Researching	A maintenance management and work order system lets an agency manage work orders and maintenance activities by tracking staff, materials and equipment related to activities. The District maintains an outdated rudimentary software system that could be improved.	July 2019	TBA	We have brought in a vendor says they are capable of providing a system that would meet the goals of these items. Due to costs we need to solicit other vendors in and that process. Maintenance Management System upgrade is on hold. Systems are complex and would require specialized training and oversight. More research into user friendly systems is required.
2.	Customer Management System	Researching	Although a work order system tracks customer maintenance requests, the District is in need of a way to better track customer issues/complaints that may not be related to maintenance activities. We are researching tools for this. It is possible a Land Management System could function in this manner as complaints issues would be tied to a parcel or address and have reporting capabilities to remind staff of outstanding complaints/matters.	Fall 2019	TBA	We have brought in a vendor who is capable of providing a system that would meet the goals of these items. Due to costs we need to solicit other vendors in a bidding process. Potentially same as above. Ideally it would coincide with updated billing/customer file software.
Proposed:						
1.	Network District facilities	Proposing	The goal of this would be too connect all of the district's sewer lift stations, Rio Oso tank & potable water pump station, MainLift South & FAA stormwater pump stations, and Granlees raw water pumping stations to the main network.	TBD	TBA	Having a hard-lined system would add to internal network security for facilities. This item will be added to 2021-22 CIP list.
2.	Wastewater plant and warehouse	Research in process	I'm having staff research the viability of a conduit that would run from the wastewater plant gate back to the wastewater control building that could be utilized for installation of a fiber optic line. Additional network and cable would have to be treched and installed back to the warehouse.	On Hold		On hold as ALA has wireless systems in place.

3.	Sewer Lift Station PLCs	Research in process	Would start with getting connectivity - possibly through Greenfield fiberoptic system or ATT phone lines.	Winter 2019-2020		Considering wireless systems for connectivity of liftstation. Also followed up with Greenfield Communications and waiting on reply.
4.	Pump Stations	Research in process	Would start with getting connectivity - possibly through Greenfield fiberoptic system or ATT phone lines.	Winter 2019-2020		Same as above
5.	Centralized SCADA system	Proposing	The goal of this project would be to utilize the wastewater plant SCADA system as a centralized for the remaining district facilities. Due to security concerns the water plant would remain on its own system.	TBD	TBA	In process: West DAF electrical panel project is complete and integrated. Additional Reclamation plant chemical feed systems being tied-in as part of chlorine gas to bleach conversion project.
6.	WWRP Automation	Proposing	This would require the installation of automated valve systems that could be controlled through SCADA, as well as flow metering systems with feedback loops to regulate and control flows.	TBD	TBA	This would create efficiencies for staff to be able to respond and control systems remotely. See above.
7.	Lake Level Monitoring system	Approved but on Hold	This project was proposed and approved by the board as it was assumed it was a legal requirement by the department of water resources. We found out we did not meet the threshold to have to comply with this at this time.	TBD	TBA	On hold per Board decision. Note: District received quote \$34k for Laguna level back to Main Lift North chart recorder.
8.	And sewer lift station upgrades		Control systems at several of the sewer line stations are coming due for replacement. We need to upgrade two systems that allow networking and control of the facilities remotely.	TBD	TBA	6B sewer lift station panel updated. Others like 3B, 6A would be updated with development.