

Final Project Completion Report

Project Name and Number: SWGWTP RO Equipment Supply, #3678

Description: Supply and install reverse osmosis equipment. Supply two deep RO trains. Supply one shallow RO Train. Provide clean in place system. Provide pilot skid.

Engineer: Carollo Engineers	Design Status: 100%
Engineering Contract is included with entire Southwest Jordan Valley Groundwater Project	

Contractor: Harn RO Systems	Construction Status: 100%
Original construction contract amount:	\$3,207,146
Total Change Order amount:	\$166,299
Final construction contract amount:	\$3,373,445
Total change orders as a percentage of original contract:	5.2%

Summary of Change Orders:		Description	Amount
1		RO Energy Recovery Units	\$ 93,801.00
2		Vibration Switches	\$ 2,970.00
3		Bearing upgrades for RO Pumps	\$ 6,400.00
4		Modicon M340 PLCs	\$ -
5		Upgrade RO Pump piping	\$ 24,936.00
6		Provide CIP interface block and bleed	\$ 38,926.00
7		Delete diaphragm seals on pressure indicators	\$ (2,991.00)
8		Delete stainless steel air-vacuum valves	\$ (10,030.00)
9		Remove UL Listing requirement on PLC Panels	\$ (2,000.00)
10		Delay substantial completion	\$ -
11		Provide positioners on RO feed pump control valve	\$ 14,287.00



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RO Membrane Skids



Pilot Skid



RO Pretreatment Equipment



RO Feed Pumps



RO Vessel Installation



RO Membranes



RO Membranes Preparation



Installed RO Membrane

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Clean in Place System



Clean in Place Eductor