

**IRONHOUSE SANITARY DISTRICT  
WASTEWATER TREATMENT PLANT  
EXPANSION PROJECT**



**CONSTRUCTION MANAGEMENT**

**PROGRESS REPORT No. 23**

**March 2011**

# SUMMARY OF CONSTRUCTION STATUS

**Contractor: Western Water Constructors, Inc**

Base Contract Amount.....	\$ 54,455,209.00
Change Orders Executed.....	\$ 623,791.53
Total Contract Cost.....	\$ 55,079,000.53
Contract Amount Earned.....	\$ 49,468,352.00
Progress Payment for March 2011 (includes retention) .....	\$ 2,262,879.00
Retention Withheld.....	\$ 113,144.00
Previous Progress Payments (excludes retention).....	\$ 44,845,200.00
Estimated Percent Complete.....	<b>89.7%</b>

**Schedule**

Notice to Proceed.....	April 20, 2009
Base Contract Duration.....	900 consecutive days
Original Completion Date.....	October 6, 2011
Time Extension Authorized.....	6 day
Revised Duration .....	906 consecutive days
Revised Completion Date.....	<b>October 12, 2011</b>
Weather Days (included in base duration) .....	40 days
Weather Days Expended (included in time expended).....	15 days
Time Expended.....	652 Days
Percent Time Expended .....	77.9%

# Construction Manager's Summary

## 1. Schedule

The critical path runs through the startup activities. Due to schedule activities sequenced incorrectly the current schedule shows a 16 day delay. However, by properly re-sequencing the activities the next schedule update should show the project on schedule. Startup meetings are held weekly with daily updates to keep the project on schedule.

## 2. Work Progress

### Site Piping/Electrical

The majority of site piping is complete. Work began on storm drain pipe installations. Installation of site lighting duct bank began.

### Influent Pump Station

Startup and testing of the influent pumps continued. Monorail hoist was installed.

### Headworks

Startup and testing of the headworks process equipment continued. Interior painting began. Installation of laboratory casework began.

### Anoxic/Aeration Basins

Diffuser installation was completed. Electrical wire installations and terminations continued in preparation for startup activities.

### MBR and Backpulse Tank

Installation of small piping, supports, wire installations, and terminations continued in preparation for MBR startup activities. Gates, valves, and pumps associated with the MBR startup were tested.

### Chemical/Blower Building

Work continued on small diameter piping and conduit. Wire installation and terminations continued. The MBR and AA blowers were started up and tested.

### Solids Handling Building

Painting of interior walls began. Installation of small diameter piping in the polymer area began. The remaining exterior stair and landings were installed and installation of the belt press platform began.

### UV/Effluent Pump Station

Installation of the discharge piping was completed and work began installing UV equipment.

### Outfall Installation

Work began installing the remaining pipe at the outfall on Jersey Island.

### **3. Contract Changes**

Eight contract change orders were issued in March for a net total of \$206,602.00. The majority of Contract Change Orders were related to the outfall installation.

### **4. Testing**

The majority of concrete and below grade piping has been installed. There were minimal soils and welding inspections required in March and no concrete inspection. Additional testing will be required once final grading and paving begins.

### **5. Anticipated Work for Next Month**

Painting, electrical installation, and cabinetry will continue in the laboratory and offices in the Headworks.

The MBR cassettes will be installed. Testing of the AA Basins and MBR system will continue. The majority of the effort in April will be associated with starting the AA basins and MBR.

UV equipment and electrical installation will continue.

Electrical installation, ductwork installation, and painting will continue at the Solids Handling Building.

Painting of pipes and structures will continue throughout the site.

# PROJECT ADMINISTRATION

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## SUBMITTAL STATUS

	Received		Returned	Pending
	To Date	March	To Date	
First Time Shop Drawing Submittals	645	5	641	4
Request for Information	781	20	774	7

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## CHANGE ORDER SUMMARY

	Number	Amount
Change Orders Executed in March	8	\$49,119.00
Change Orders Executed to Date	108	\$623,791.53
Percent to Date of Original Contract		1.15 %

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## WEATHER RELATED DELAYS

	Days
Base Contract Allowance	40
Weather Related Days in March	0
Weather Related Days to Date	15



Wire Installation and Termination at Chemical/Blower Building



Chemical Pump and Piping Installation at Chemical/Blower Building



MBR Structure Ready for Startup Activities



Effluent Pump/Piping Completed



Painting and Duct Installation at Solids Handling Building



Exterior Stair and Landing Installation at Solids Handling Building