

Water Treatment Plant 4 Monthly Project Status Reports

April 2012





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WTP4 Project Summary As of March 31, 2012

PROJECT SUMMARY

RECENT HIGHLIGHTS

- Successfully completed hydro-testing of Upflow Clarifier 2
- Began excavation/construction of the Raw Water Pump Station
- Began construction of the Lime Handling Building
- Mobilized the tunnel boring machine (TBM) at the Four Points tunnel shaft and tunneling has begun (Reach 1 – Four Points to WTP 4)
- Completed the archaeological study at the Spicewood Springs shaft site - no issues found
- Began drilling of raw water intake riser shaft
- Conducted creek clean-up of Tributary 4 of Bull Creek and area surrounding Spicewood Springs Shaft site

UPCOMING HIGHLIGHTS

- Complete drilling and set the Raw Water intake riser.
- Complete excavation of raw water tunnel shaft
- Begin tunneling of raw water tunnel
- Complete excavation of the Jollyville shaft
- Approve GMP 3G (Administration & Maintenance Buildings)
- Bid out/negotiate GMPs for the remaining work packages (GMP 3H & GMP 4)
- Finalize design of the finish water pump station and Bullick Hollow Ductbank



WTP4 Project Status Report
Budget Summary
As of March 31, 2012
(Dollars in Millions)

Budget Summary		
Budget Baseline \$508M	Estimate at Completion (EAC)	Variance Budget to Estimate at Completion

Engineering & Construction Services

<i>Plant Design</i>	\$ 27.3	28.1	(0.8)
<i>Plant Construction Services</i>	21.5	20.9	0.6
<i>Transmission Main Design / Construction Service</i>	23.4	17.9	5.5
<i>Material Testing</i>	-	2.0	2.0
Subtotal	\$ 72.2	\$ 68.9	\$ 7.3

Initial Construction Packages

<i>Temporary Preconstruction Fencing</i>	\$ 0.3	\$ 0.3	-
<i>WTP4 Stormwater Facilities</i>	3.5	3.1	0.4
<i>RWPS Excavation & Stormwater Facilities</i>	3.3	3.3	-
<i>Bullick Hollow Road Improvements</i>	0.9	1.0	(0.1)
Subtotal	\$ 8.0	\$ 7.7	\$ 0.3

Construction Manager at Risk Contract

<i>General Conditions (GC / Fee / Pre-Construction)</i>	\$ 51.8	52.1	(0.3)
<i>GMP 1 - Raw Water Intake & Tunnels</i>	55.7	\$ 62.5	(6.8)
<i>GMP 2 - Raw Water Pump Station</i>	12.9	18.5	(5.6)
<i>GMP 3A - Early Out Procurement</i>	7.0	7.0	-
<i>GMP 3B - Clearwells & Clarifiers</i>	14.5	14.5	-
<i>GMP 3C - WTP4 Walls, Conveyances & Filters</i>	14.2	18.4	(4.2)
<i>GMP 3D - WTP4 Washwater, Solids Handling & Chemical Bldg</i>	16.0	20.0	(4.0)
<i>GMP 3E - WTP4 Electrical, I&C, Yardpiping & Duct Bank</i>	37.1	42.0	(4.9)
<i>GMP 3F - Lime Building and Balance of Clearwell</i>	4.7	8.1	(3.4)
<i>GMP 3G - Admin Bldg and Maintenance Bldg</i>	4.8	5.4	(0.6)
<i>GMP 3H - MSPS and BHR Ductbank</i>	11.3	20.9	(9.6)
<i>GMP 3I - WPT and RWPS Site Security</i>	1.2	1.2	-
<i>GMP 4 - WTP4 and RWPS Site Finishes</i>	7.2	5.0	2.2
<i>GMP 5 - Transmission Main System</i>	93.4	85.6	7.8
<i>Contract Contingency</i>	27.1	-	27.1
Package Subtotal	\$ 359.0	\$ 361.2	\$ 2.2

Other Costs

<i>Environmental Commissioning</i>	\$ 4.2	\$ 3.2	\$ 1.0
<i>Engineering Applicable from Bull Creek Site</i>	5.6	5.6	-
<i>Offsite Improvements</i>	3.1	5.4	(2.3)
<i>City Administration Costs (PM, Inspection, Contract & Real Estate Svcs)</i>	7.2	6.2	1.0
<i>Value Engineering</i>	-	0.6	(0.6)
<i>Executive Advisor</i>	-	3.1	(3.1)
<i>Outside Counsel</i>	-	0.5	(0.5)
<i>Construction Contract</i>	-	0.3	(0.3)
<i>Environmental</i>	-	0.3	(0.3)
Subtotal	\$ 20.1	\$ 24.7	\$ (4.6)

Land Costs

<i>WTP4 Site</i>	\$ 32.0	\$ 32.0	\$ -
<i>Raw Water Pump Station Site</i>	7.2	7.2	-
<i>Transmission Main Shaft Sites</i>	-	2.2	(2.2)
<i>Easements / Park Land Mitigation</i>	3.7	1.5	2.2
Subtotal	\$ 42.9	\$ 42.9	\$ (0.0)

City of Austin Management Reserve

\$ 5.8	\$ 0.5	\$ 5.3
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Total WTP4 Costs

\$ 508.0	\$ 505.8	\$ 8.1
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CMAR Contract Contingency

\$24.2

NOTES: 1. Items in bold above represent contracted amounts, while items in italics represent estimates.



**WTP4 Project Status Report
Expenditure Summary
As of March 31, 2012
(Dollars in Millions)**

Contract and Expenditure Summary			
Contract Amount	Contracted Contingency & Allowances	Expended to Date	Contract Amount Remaining

Engineering

Carollo - Plant Design	\$ 27.6	\$ 0.1	\$ 26.8	\$ 0.8
Carollo - Plant Construction Services	21.5	-	4.5	\$ 17.0
B&V - Jollyville TM Design	16.6	-	10.5	\$ 6.1
LAN - Forest Ridge TM Prelim. Design	0.9	-	0.9	\$ -
Material Testing	0.5	-	0.3	0.2
Subtotal	\$ 67.1	\$ 0.1	\$ 43.0	\$ 24.1

Initial Construction Packages

Temporary Preconstruction Fencing	\$ 0.4	\$ -	\$ 0.4	\$ -
WTP4 Stormwater Facilities	3.4	-	3.4	-
RWPS Excavation & Stormwater Facilities	3.3	-	3.3	-
Bullick Hollow Road Improvements	1.1	-	1.1	-
Subtotal	\$ 8.2	\$ -	\$ 8.2	\$ -

Construction Manager at Risk Contract

General Conditions (GC / Fee / Pre-Construction)	54.3	0.9	22.4	31.9
GMP 1 - Raw Water Intake & Tunnels	62.6	8.0	26.5	36.1
GMP 2 - Raw Water Pump Station	18.6	0.4	0.0	18.6
GMP 3A - Early Out Procurement	7.0	0.1	0.2	6.8
GMP 3B - Clearwells & Clarifiers	14.5	0.4	11.9	2.6
GMP 3C - WTP4 Walls, Conveyances & Filters	17.9	1.4	6.9	11.0
GMP 3D - Washwater, Solids Handling, and Chemical Building	19.7	3.4	3.2	16.5
GMP 3E - WTP4 Electrical, I&C, Yardpiping, and Duct Bank	42.0	2.5	4.6	37.4
GMP 3F - Lime Bldg and Balance of Clearwell	8.1	-	-	8.1
GMP 3G - Admin Bldg and Maintenance Bldg	-	-	-	-
GMP 3H -MSPS and BHR Ductbank	-	-	-	-
GMP 3I -WTP and RWPS Site Security	-	-	-	-
GMP 4 - WTP4 and RWPS Site Finishes	-	-	-	-
GMP 5 - Transmission System	85.6	7.0	16.9	68.7
Package Subtotal	330.3	24.1	92.6	237.7

Other Costs

Environmental Commissioning	\$ 2.5	\$ -	\$ 1.7	\$ 0.8
Engineering Applicable from Bull Creek Site	5.6	-	5.6	-
Offsite Improvements - PEC Relocation at WTP4	1.5	-	1.1	0.4
City Administration Costs (PM, Inspection, Contract & Real Estate Svcs)	6.8	-	3.9	2.9
Commercial Paper Processing Charge	3.2	-	3.2	-
Greenberg Traurig - Construction Contract Legal	0.2	-	0.2	-
Smith, Robinson -Environmental Legal	0.3	-	0.1	0.2
Scott Douglas - Legal	0.3	-	0.2	0.1
CDM - Value Engineering Plant	0.6	-	0.6	-
Jacobs - Value Engineering Transmission Main	0.1	-	0.1	-
Executive Advisor	3.1	-	2.5	0.6
Subtotal	\$ 24.2	\$ -	\$ 19.2	\$ 5.0

Land Costs

WTP4 Site	\$ 32.3	\$ -	\$ 32.3	\$ -
Raw Water Pump Station Site	7.2	-	7.2	-
Transmission Main Shaft Sites	2.2	-	2.2	-
Easements / Park Land Mitigation	-	-	-	-
Subtotal	\$ 41.7	\$ -	\$ 41.7	\$ -

Total WTP4 Costs	\$ 471.5	\$ 24.2	\$ 204.7	\$ 266.8
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NOTE: Items in bold above represent contracted amounts, while items in italics represent estimates.



**WTP4 Project Status Report
MBE / WBE Summary
As of February 29, 2012**

WTP No. 4 MBE/WBE Summary		Solicitation Goals	Approved Compliance Plan	Actual Participation To Date %	Actual Participation To Date \$
PRE-CONSTRUCTION PHASE / GENERAL CONDITIONS				Amt Paid to Date	\$ 20,001,473
	MBE	4.95%	18.05%	13.60%	\$ 2,720,853
	African American		2.38%	1.37%	\$ 273,042
	Hispanic		10.30%	6.95%	\$ 1,390,071
	Native American / Asian American		5.37%	5.29%	\$ 1,057,740
	WBE	2.59%	8.66%	5.21%	\$ 1,041,587
	Non-Certified Subcontractor		5.17%	3.58%	\$ 715,749
	Primary Subcontractor		68.12%	77.61%	\$ 15,523,285
GMP 3A Early Out Equipment for Construction of WTP 4					
P-304	Upflow Clarifiers			Amt Paid to Date	\$ -
	Zero Goals	0.00%	100.00%	0.00%	-
P-305	Thickening and Washwater Recycle			Amt Paid to Date	\$ -
	Zero Goals	0.00%	100.00%	0.00%	-
P-306	Centrifuge			Amt Paid to Date	\$ -
	Zero Goals	0.00%	100.00%	0.00%	-
P-307	CO2 Equipment			Amt Paid to Date	\$ -
	Zero Goals / Sole Source	0.00%	100.00%	0.00%	-
P-308	Filter Equipment			Amt Paid to Date	\$ -
	Zero Goals / Sole Source	0.00%	100.00%	0.00%	-
GMP 3B Early Out Site Excavation, Clearwells, and Clarifiers for WTP 4					
S-301	Clarifiers 1 & 2 Construction			Amt Paid to Date	\$ 4,972,063
	MBE	10.43%	12.60%	15.38%	\$ 764,866
	African American	2.97%	3.03%	2.73%	\$ 135,580
	Hispanic	6.86%	8.97%	12.07%	\$ 600,236
	Native American / Asian American	0.60%	0.60%	0.58%	\$ 29,050
	WBE	2.70%	8.20%	7.54%	\$ 375,073
	Non-Certified Subcontractor		33.61%	21.58%	\$ 1,072,967
	Primary Subcontractor		45.59%	55.49%	\$ 2,759,157
S-302	Clearwells 1 & 2 Construction			Amt Paid to Date	\$ 5,638,644
	MBE	10.76%	15.59%	15.47%	\$ 872,355
	African American	2.18%	6.88%	7.86%	\$ 443,221
	Hispanic	8.08%	8.10%	7.50%	\$ 423,039
	Native American / Asian American	0.00%	0.61%	0.00%	\$ -
	WBE	2.55%	13.75%	21.53%	\$ 1,214,236
	Non-Certified Subcontractor		14.45%	15.24%	\$ 859,060
	Primary Subcontractor		56.84%	47.76%	\$ 2,692,993
S-304	Structural Excavation and Miscellaneous Site Improvements			Amt Paid to Date	\$ 2,262,000
	MBE	9.98%	18.71%	20.52%	\$ 464,220
	African American	2.40%	7.72%	7.68%	\$ 173,737
	Hispanic	7.38%	10.77%	12.35%	\$ 279,288
	Native American / Asian American	0.20%	0.22%	0.49%	\$ 11,195
	WBE	2.03%	2.08%	1.83%	\$ 41,498
	Non-Certified Subcontractor		3.79%	4.02%	\$ 91,020
	Primary Subcontractor		75.42%	73.62%	\$ 1,665,262
GMP 3C Filters & Upflow Clarifiers 1 & 2 and Walls, Conveyances & Misc Site Work					
S-204	RWPS Retaining Walls			Amt Paid to Date	\$ 717,130
	MBE	4.98%	6.37%	5.17%	\$ 37,097
	African American	0.00%	0.00%	0.00%	\$ -
	Hispanic	0.00%	1.88%	5.17%	\$ 37,097
	Native American / Asian American	0.00%	0.00%	0.00%	\$ -
	WBE	1.12%	4.49%	11.78%	\$ 84,450
	Non-Certified Subcontractor		69.00%	0.00%	\$ -
	Primary Subcontractor		24.63%	83.05%	\$ 595,582
S-303	Filters and Upflow Clarifiers 1 & 2			Amt Paid to Date	\$ 3,153,882
	MBE	5.09%	8.88%	12.81%	\$ 403,998
	African American	1.12%	1.28%	4.88%	\$ 153,835
	Hispanic	3.67%	3.85%	7.93%	\$ 250,164
	Native American / Asian American	0.30%	3.75%	0.00%	\$ -
	WBE	3.12%	4.49%	8.27%	\$ 260,918
	Non-Certified Subcontractor		7.54%	11.45%	\$ 361,002
	Primary Subcontractor		85.68%	67.47%	\$ 2,127,963
S-305	Walls, Conveyances, & Miscellaneous Site Work			Amt Paid to Date	\$ 4,066,982
	MBE	6.04%	26.91%	25.10%	\$ 1,020,988
	African American	1.00%	1.05%	0.92%	\$ 37,500
	Hispanic	4.54%	20.46%	19.85%	\$ 807,148
	Native American / Asian American	0.50%	5.40%	4.34%	\$ 176,340
	WBE	2.70%	4.20%	2.94%	\$ 119,677
	Non-Certified Subcontractor		0.88%	32.88%	\$ 1,337,087
	Primary Subcontractor		68.01%	39.08%	\$ 1,589,231



**WTP4 Project Status Report
MBE / WBE Summary
As of February 29, 2012**

WTP No. 4 MBE/WBE Summary		Solicitation Goals	Approved Compliance Plan	Actual Participation To Date %	Actual Participation To Date \$
GMP 1 Raw Water Intake, Shafts and Tunnels					
S-101	Raw Water Intake, Shafts and Tunnels			Amt Paid to Date	\$ 31,370,756
	MBE	5.18%	6.11%	10.50%	\$ 3,293,552
	African American	1.16%	1.82%	1.68%	\$ 528,314
	Hispanic	3.95%	4.14%	7.89%	\$ 2,474,867
	Native American / Asian American	0.07%	0.15%	0.93%	\$ 290,371
	WBE	1.54%	1.74%	3.91%	\$ 1,225,431
	Non-Certified Subcontractor		12.17%	8.37%	\$ 2,626,926
	Primary Subcontractor		85.89%	77.22%	\$ 24,224,847

GMP 3D Wastewater, Solids handling & Chemical Building					
S-306	Wastewater Recovery Facilities			Amt Paid to Date	\$ 1,354,191
	MBE	6.72%	9.42%	2.95%	\$ 39,984
	African American	1.45%	1.66%	0.00%	\$ -
	Hispanic	4.62%	6.51%	2.95%	\$ 39,984
	Native American / Asian American	0.65%	1.25%	0.00%	\$ -
	WBE	3.05%	6.28%	1.82%	\$ 24,618
	Non-Certified Subcontractor		38.30%	49.74%	\$ 673,554
	Primary Subcontractor		46.00%	45.49%	\$ 616,035
S-307	Solids Handling Facilities & Centrifuge Building			Amt Paid to Date	\$ 1,250,052
	MBE	8.21%	11.14%	3.66%	\$ 45,738
	African American	1.98%	1.98%	0.39%	\$ 4,936
	Hispanic	5.53%	5.57%	3.26%	\$ 40,803
	Native American / Asian American	0.70%	3.59%	0.00%	\$ -
	WBE	2.69%	5.36%	6.32%	\$ 78,999
	Non-Certified Subcontractor		11.83%	35.28%	\$ 441,000
	Primary Subcontractor		77.95%	54.74%	\$ 684,315
S-309	Chemical Facilities & Chemical Processes			Amt Paid to Date	\$ 1,490,806
	MBE	6.51%	13.86%	1.14%	\$ 16,978
	African American	1.97%	2.49%	0.28%	\$ 4,230
	Hispanic	3.92%	4.00%	0.49%	\$ 7,347
	Native American / Asian American	0.62%	7.37%	0.36%	\$ 5,400
	WBE	1.65%	5.70%	12.21%	\$ 182,066
	Non-Certified Subcontractor		57.11%	48.43%	\$ 722,016
	Primary Subcontractor		23.33%	38.22%	\$ 569,746

GMP 3E Electrical, I&C, Yard Piping & Ductbank					
S-310	Electrical Package			Amt Paid to Date	\$ 1,702,338
	MBE	9.41%	93.99%	89.28%	\$ 1,519,923
	African American	1.43%	1.47%	0.00%	\$ -
	Hispanic	5.85%	90.37%	89.28%	\$ 1,519,923
	Native American / Asian American	2.13%	2.15%	0.00%	\$ -
	WBE	3.61%	3.66%	0.00%	\$ -
	Non-Certified Subcontractor	0.00%	2.35%	0.00%	\$ -
	Primary Subcontractor		0.00%	10.72%	\$ 182,415
S-312	Process Control Information Systems (SCADA)			Amt Paid to Date	\$ 914,642
	MBE	1.95%	4.75%	0.00%	\$ -
	African American	0.00%	0.00%	0.00%	\$ -
	Hispanic	0.00%	4.75%	0.00%	\$ -
	Native American / Asian American	0.00%	0.00%	0.00%	\$ -
	WBE	1.93%	2.00%	0.00%	\$ -
	Non-Certified Subcontractor	0.00%	0.00%	0.00%	\$ -
	Primary Subcontractor	93.25%	93.25%	100.00%	\$ 914,642
S-313	Site Yard Pipe & Ductbank			Amt Paid to Date	\$ 2,878,266
	MBE	4.98%	5.97%	0.00%	\$ -
	African American	1.20%	1.20%	0.00%	\$ -
	Hispanic	4.58%	4.57%	0.00%	\$ -
	Native American / Asian American	0.19%	0.19%	0.00%	\$ -
	WBE	62.60%	43.82%	11.68%	\$ 336,310
	Non-Certified Subcontractor	19.80%	36.89%	0.75%	\$ 135,630
	Primary Subcontractor	11.63%	13.32%	83.60%	\$ 2,406,326



**WTP4 Project Status Report
 MBE / WBE Summary
 As of February 29, 2012**

GMP 5 Jollyville Transmission Main			
S-501	Jollyville Transmission Main Tunnel		Amt Paid to Date \$ 19,017,077
	MBE	3.76%	2.30% \$ 436,988
	African American	1.22%	1.64% \$ 310,938
	Hispanic	2.53%	0.65% \$ 124,276
	Native American / Asian American	0.01%	0.01% \$ 1,774
	WBE	1.21%	0.83% \$ 158,764
	Non-Certified Subcontractor		0.14% \$ 27,401
	Primary Subcontractor		96.72% \$ 18,393,924

WTP No. 4 MBE/WBE Overall Project Summary	Aggregate of Compliance Plans	Actual Participation To Date %	Actual Participation To Date \$
PRE-CON, GENERAL CONDITIONS AND CONSTRUCTION PH SUBCONTRACTORS		Amt Paid to Date \$ 92,123,726	
	MBE	13.19%	11.55% \$ 11,637,540
	African American	1.65%	2.05% \$ 2,065,334
	Hispanic	10.13%	7.93% \$ 7,994,242
	Native American / Asian American	1.42%	1.57% \$ 1,577,964
	WBE	6.19%	5.10% \$ 5,143,626
	Non-Certified Subcontractor	11.97%	8.99% \$ 9,063,412
	Primary Subcontractor	68.65%	74.36% \$ 74,945,723





**WTP4 Project Status Report
APPENDICES**

CONSTRUCTION STATUS REPORTS





MWH
CONSTRUCTORS



WTP4 – GMP 1 – Raw Water System (Intake, Tunnel, and Transmission Main) Monthly Status Report No. 14 – March 2012

COA CIP No. 6683.019

Contractor: MWH Constructors (CMAR)

Austin Hill Country Constructors (Sub)

Scope:

- Raw Water System Facilities:
 - Raw Water Intake
 - Raw Water Tunnel & Access Shaft
 - Raw Water Transmission Main

Start Date: 01/01/11

Original Contract Duration: 1042 Days

Approved Time Extensions: 0 Days

Current Contract Completion Date:

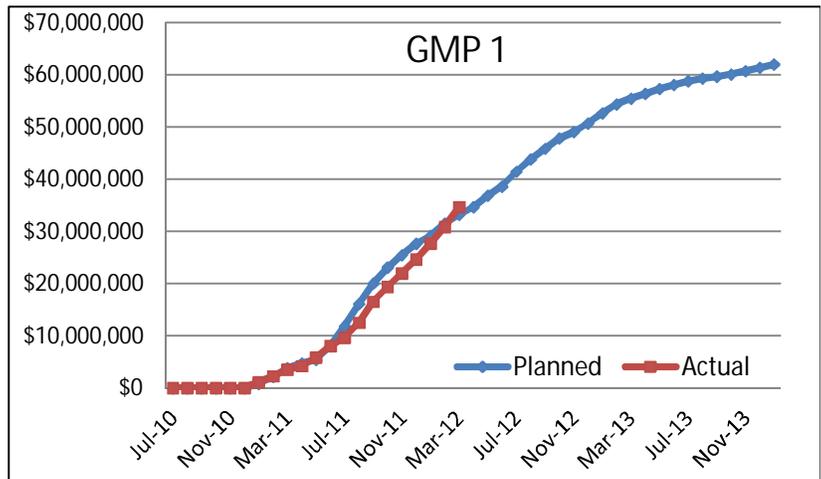
February 25, 2014

Percent Complete Time: 43.8%

Percent Complete Dollars: 56.0%

Construction Progress for March 2012:

- Removed equipment and cleaned the Raw Water Transmission Main tunnel.
- Completed grouting of all 5 pump well casings. Removed equipment and cleaned area.
- Resumed excavation of access shaft.
- Marine work is ongoing. Mobilized riser driller and began drilling the shaft for the intake riser.



Submittals

- To date, 214 Submittals and 67 Resubmittals have been received, with 4 Submittals currently under review

Requests for Information

- To date, 132 RFIs have been received

Change Orders:

- To Date: 3 Executed Change Orders (No. 3, No. 4, & No. 5), consisting of 7 total CMs
- Seven (7) CMs currently being monitored.



Raw Water Transmission Main Tunnel at Approximate Sta 37+00, looking both directions
Photo on right, looking toward plant site, photo on left looking toward pump station.



Survey of Well Casings in Suction Chamber



Overview of RWPS, Well Casings in Background



Assembly of Intake Screen No. 1



Wirth Drill to drill Intake Riser Shaft



Overview of Intake with Wirth Drill On Platform



Baker Tanks for Intake Riser Drilling



MWH
CONSTRUCTORS



WTP4 – GMP 3B – Excavation & Construction of Clearwells and Upflow Clarifiers Monthly Status Report No. 18 – March 2012

COA CIP No. 6683.019

Contractor: MWH Constructors

Scope: Major Excavation for Clearwells, Upflow Clarifiers (UFCs) and Filters; Major Concrete for Clearwells and UFCs.

Start Date: 7/20/10

Original Contract Duration: 714 Days

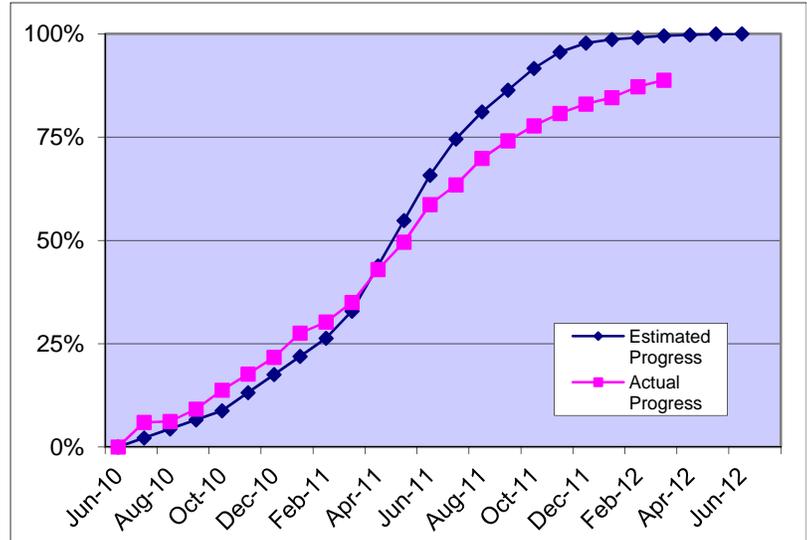
Approved Time Extensions: 0 Days

Current Contract Completion Date:

June, 2012

Percent Complete Time: 87.0%

Percent Complete Dollars: 88.8%



Construction Progress as of 3/31/2012:

S304 Site Excavation and Improvements (Ranger Excavating, LC)

- Excavation for Clearwells, UFCs, and Filters complete.
- Filter area retaining wall and stormwater piping complete.
- Field trailer utilities complete.

S301 UFCs (Austin Engineering Co.)

- All piping beneath UFCs complete.
- UFC 1 and 2 Hydraulic area concrete complete.
- UFC1 and 2 hydraulic leak test complete.
- Gallery wall construction 50% complete.

S302 Clearwells (Laughlin-Thyssen, Inc.)

- Clearwell structural concrete complete.
- CMU velocity walls 95% complete.
- Concrete sealing and finishing underway.

Change Orders:

- CO#1 and #2 completed for UFC over-excavation.

Requests for Information:

- To date, 80 RFIs have been received.

Submittals:

- To date, 183 Submittals and 82 Resubmittals have been received.

Upcoming Milestones:

- Clearwell hydraulic leak test May.



Delivery of UFC Center Column.



Completed walls at Carbon Dioxide Feed Room.

Installation of 84-inch pipe in Raw Water Pipe Gallery.



Completed Clearwell roof.





MWH
CONSTRUCTORS



WTP4 – GMP 3C – Filters, UFC Mechanical, Site Walls, Conveyances and Grading Monthly Status Report No. 14 – March 2012

COA CIP No. 6683.019

Contractor: MWH Constructors

Scope: Filter Building, Upflow Clarifiers (UFCs) mechanical; site retaining walls, stormwater piping, and major roadway earthwork and grading.

Start Date: 12/13/2010

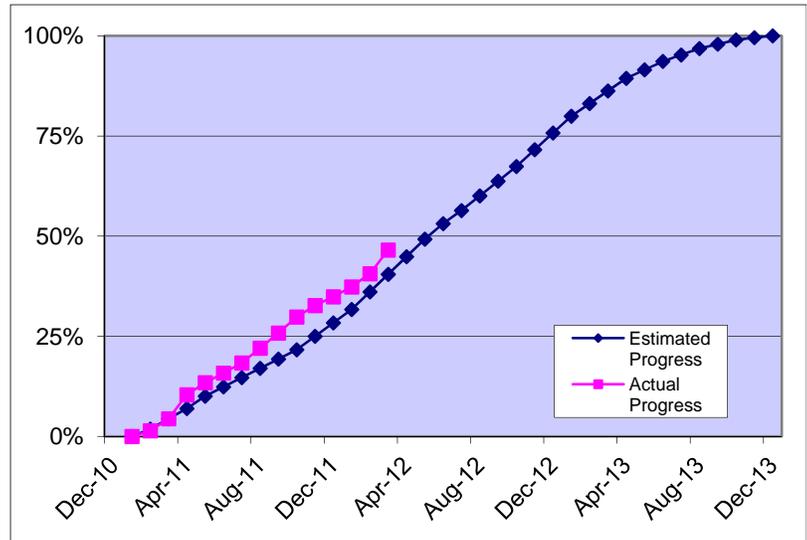
Original Contract Duration: 1088 Days

Approved Time Extensions: 0 Days

Current Contract Completion Date: 12/5/13

Percent Complete Time: 40.0%

Percent Complete Dollars: 46.5%



Construction Progress as of 3/31/2012:

S303 Filters and Upflow Clarifiers

Mechanical (Laughlin-Thyssen, Inc.)

- Filter under-slab piping installed and gallery slab pours completed.
- Initial gallery walls complete and additional walls underway.
- Filter basin slabs 80% complete.

S305 Walls, Conveyances and Misc. Site Improvements (Laughlin-Thyssen, Inc.)

- Major embankment work approximately 95% complete.
- Major roadway cuts 95% complete.
- Stormwater piping system installation 80% complete.
- Site retaining walls 95% complete.

Change Orders:

- None to date.

Requests for Information:

- To date, 154 RFIs have been received.

Submittals:

- To date, 246 Submittals and 157 Resubmittals have been received.

Upcoming Milestones:

- Site retaining walls complete April.



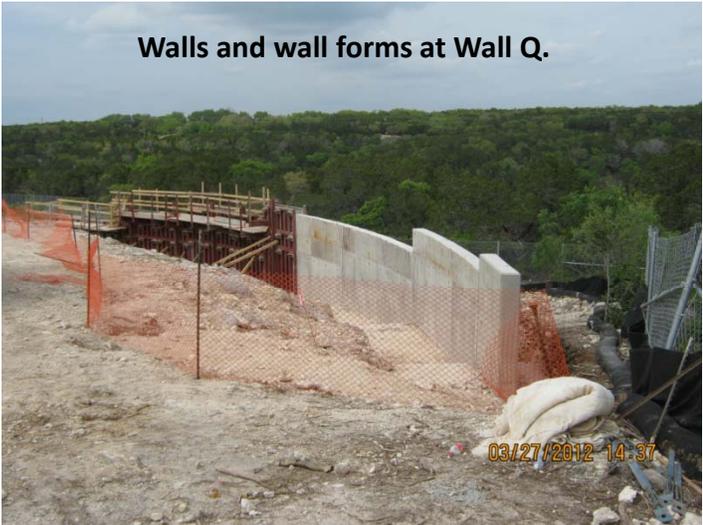
Filter Gallery looking northeast.



Filter box walls.



**Filter Gallery walls
near air scour
blowers.**



Walls and wall forms at Wall Q.



Excavation at Wall N.

WTP4 – GMP 3D – Washwater Recovery, Solids Handling and Chemical Facilities Monthly Status Report No. 7 – March 2012

COA CIP No. 6683.019

Contractor: MWH Constructors

Scope: Backwash water settling and recovery; residuals (solids) thickening, storage and dewatering; chemical storage and handling; electrical substation building.

Start Date: 4/28/2011

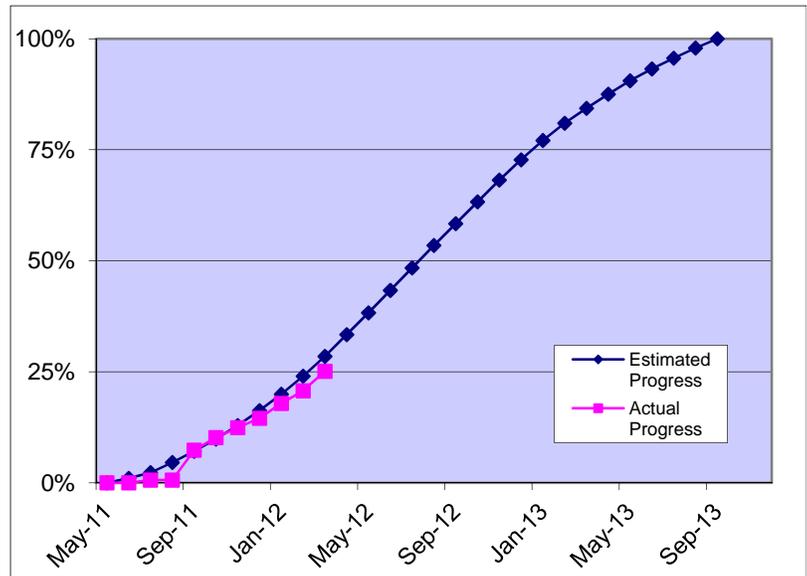
Original Contract Duration: 872 Days

Approved Time Extensions: 0 Days

Current Contract Completion Date: 9/16/13

Percent Complete Time: 37.9%

Percent Complete Dollars: 25.1%



Construction Progress as of 3/31/2012:

S306 Washwater Recovery Facility (Matous Construction, Ltd)

- Diversion Box walls 95% complete.
- Large-diameter piping installed.
- Washwater basin center well complete.

S307 Solids Handling and Centrifuge Facilities (Laughlin-Thyssen, Inc.)

- Gravity thickener sump complete.
- GT pump station concrete 80% complete.
- Centrifuge Building columns and grade beams underway.
- Sludge Holding Tank seal slab complete.

S309 Chemical Facilities and Electrical Building (Harvey-Cleary Builders).

- Conduit and footing installation underway in SUB1 and LAS Buildings.
- Tank pads poured and under-slab utilities installed in Chem and SH Buildings.

Change Orders:

- None to date.

Submittals and Requests for Information:

- To date, 294 Submittals and 101 Re-submittals have been received.
- To date, 113 RFIs have been received

Upcoming Milestones:

- Hypochlorite and Chemical Buildings slab construction April.



Recycle Pump Station and Flow Diversion Box.



Washwater Basin center well and Washwater Recycle Piping.

Thickener Pump Station looking east.



Sludge Holding Tanks seal slab.



Chemical Building looking west.



WTP4 – GMP 3E – Plant-Wide Electrical, SCADA and Yard Piping Monthly Status Report No. 6 – March 2012

COA CIP No. 6683.019

Contractor: MWH Constructors

Scope: Plant-wide electrical, process control and instrumentation, duct banks and yard piping.

Start Date: 7/15/2011

Original Contract Duration: 1044 Days

Approved Time Extensions: 0 Days

Current Contract Completion Date: 5/16/14

Percent Complete Time: 25.7%

Percent Complete Dollars: 23.5%

Construction Progress as of 3/31/2012:

S310 WTP Site Electrical (T. Morales Company)

- Below-slab duct banks installed at SH, SUB1, LAS, Centrifuge and Chemical Buildings.
- Duct banks 90% installed at solids storage and thickening areas area.

S312 Plant-Wide Process Control/SCADA (Commerce Controls, Inc.)

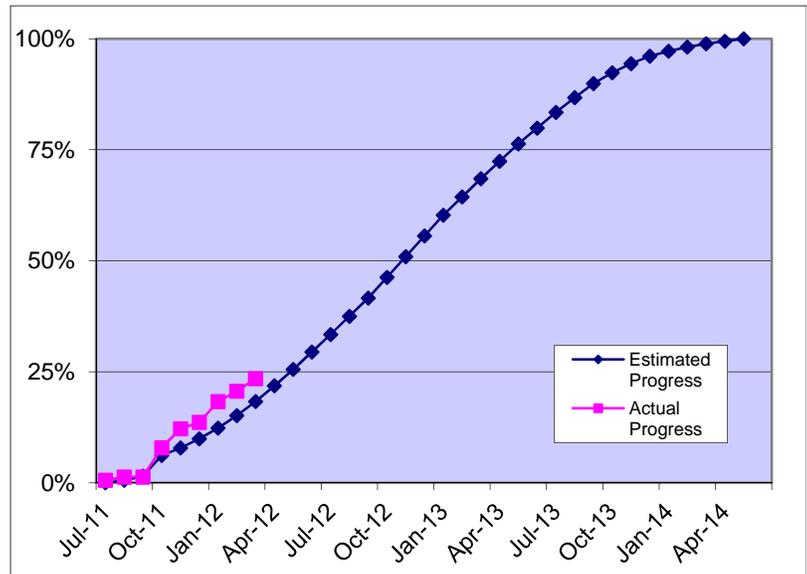
- PLC panels delivered for H&I programming and testing.
- Field equipment submittal reviewed.

S313 Yard Piping and Duct Banks (KST Electric)

- Ductile iron pipe installation underway on site utility and process piping routes.
- Large steel piping pre-trenching underway.
- Duct bank, sewer line, and manholes installed near Lime Building.

Change Orders:

- None to date.



Submittals and Requests for Information:

- To date, 130 Submittals and 47 Re-submittals have been received.
- To date, 84 RFIs have been received

Upcoming Milestones:

- Large pipe installation beginning April.



Conduit installations at Centrifuge Building Electrical Room.



**Electrical conduits at
Electrical Substation 1.**

**Yard Piping installation
adjacent to UFCs.**



Electrical ductbank installation.



WTP4 – GMP 5 – Jollyville Transmission Main WTP4 Monthly Status Report No. 5 – March 2012

COA CIP No. 6683.019
 Contractor: MWH Constructors (CMAR)
 Southland/Mole (Sub)
 Scope: 34,565 LF finished water transmission main from WTP4 to Jollyville Reservoir.
 Start Date: 7/19/2011
 Original Contract Duration: 1034 Days
 Approved Time Extensions: 0 Days
 Current Contract Completion Date: 5/18/2014
 Percent Complete Time: 24.8%
 Percent Complete Dollars: 22.2%

Construction Progress as of 3/31/2012:

Jollyville Shaft

- Excavation, ring placement, and grout complete to ring 106 (159 feet, end of rings/grout)
- Excavation, welded wire fabric with shotcrete installed to 205 ft.

Four Points Shaft

- Shaft excavation complete

Spicewood Springs Shaft

- Fencing and environmental controls installed
 Archeological report approved by THC on 3/15/12

Reach 1 – Four Points to WTP4

- Starter tunnel complete (150 ft), Tail tunnel excavated to 79 Ft.
- TBM Reach 1 delivered and placed in starter tunnel.

Upcoming Milestones:

- Jollyville Shaft scheduled for completion in early May
- Starter/Tail Tunnels at Four Points scheduled for completion in mid April.
- WTP4 Shaft scheduled to begin excavation in mid April
- TBM Reach #2 scheduled for delivery in May
- TBM Reach #3 scheduled for delivery in mid May

Requests for Information:

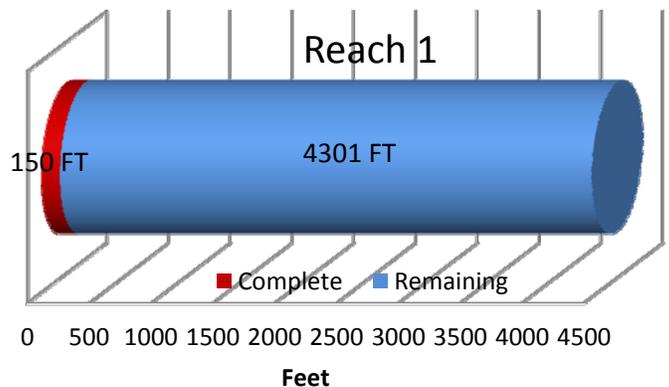
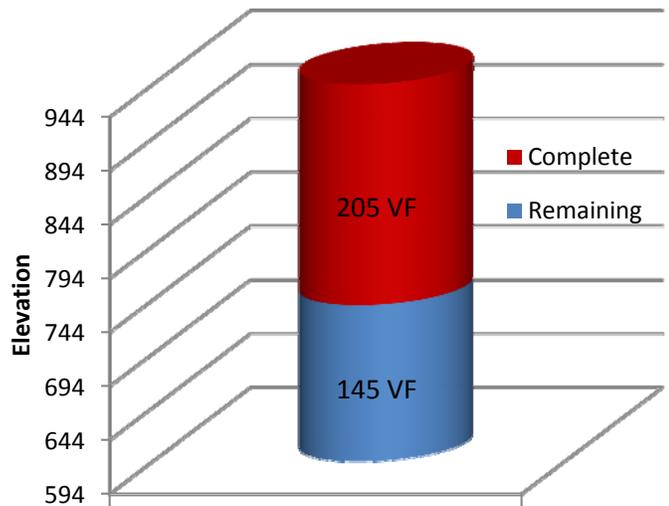
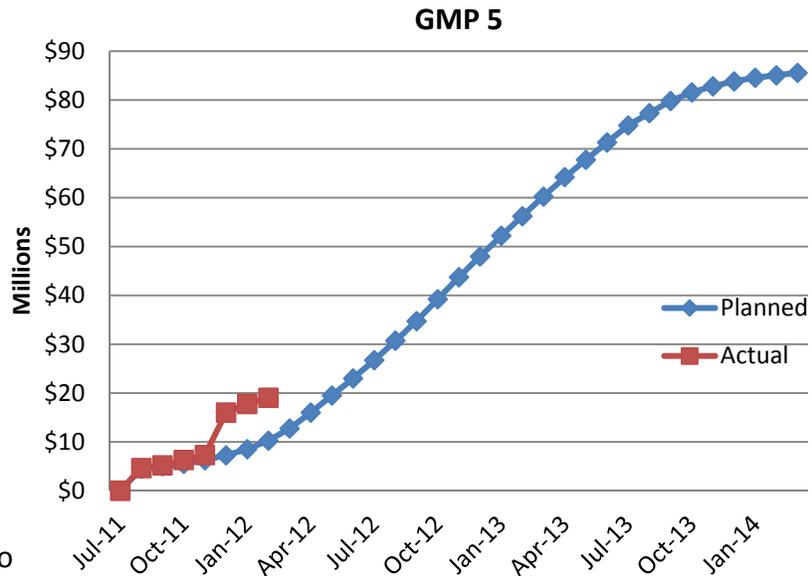
- To date, 18 RFIs have been received, with zero RFI's currently under review

Submittals:

- To date, 93 Submittals and 43 Re-submittals have been received, with 2 Submittal currently under review

Change Orders:

- To date, no Change Orders have been executed





Jollyville Reservoir Shaft:

At left, excavator with hoe-ram is lowered into shaft. At right, contractor applies shotcrete to shaft wall.



Four Points Shaft:

At left, disassembling TBM prior to lowering into shaft. At right, TBM is lowered into the shaft.

