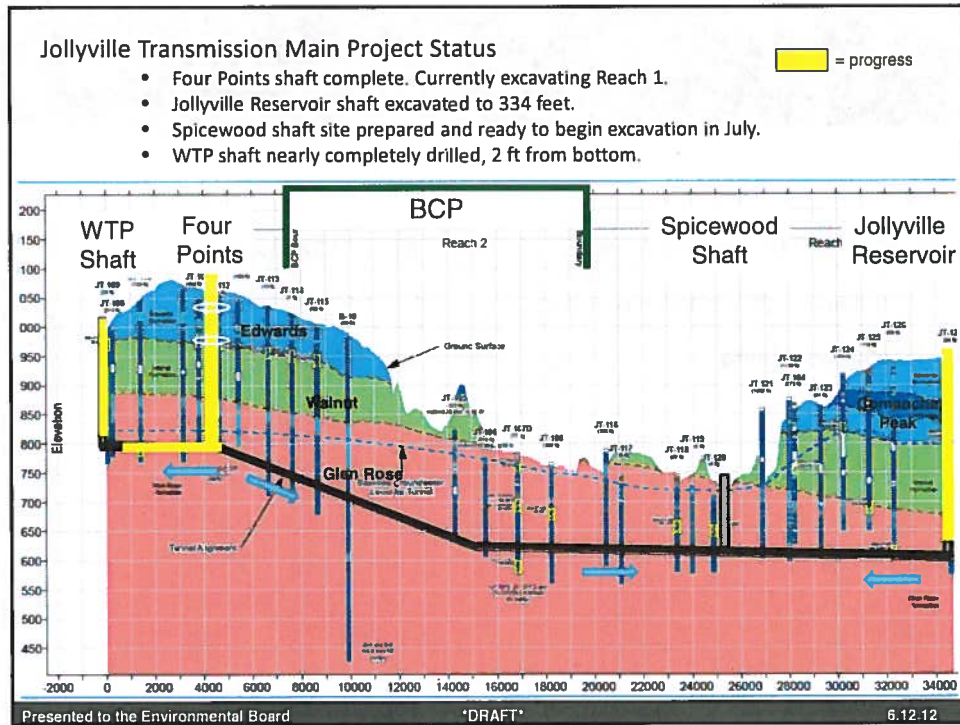


JOLLYVILLE TRANSMISSION MAIN: Environmental Commissioning Monthly Report

Presented to the Austin Environmental Board
June 20, 2012

Thais Perkins, Watershed Protection Department
David Johns, Watershed Protection Department





Environmental Commissioning Activities - JVTM

- Monthly shaft site (surface) visits now concurrent with plant site visits
- Weekly interior shaft/tunnel visits
- Biweekly meetings of the Environmental Commissioning Coordination Group to resolve possible issues
- Environmental Monitoring
 - Completed Quarterly Data Report
 - Added Trib 4 Salamander Survey
- Continued sampling for age dating of deep vs. shallow groundwater systems
- Analysis of 110A tunnel-horizon well

Presented to the Environmental Board

6.20.12



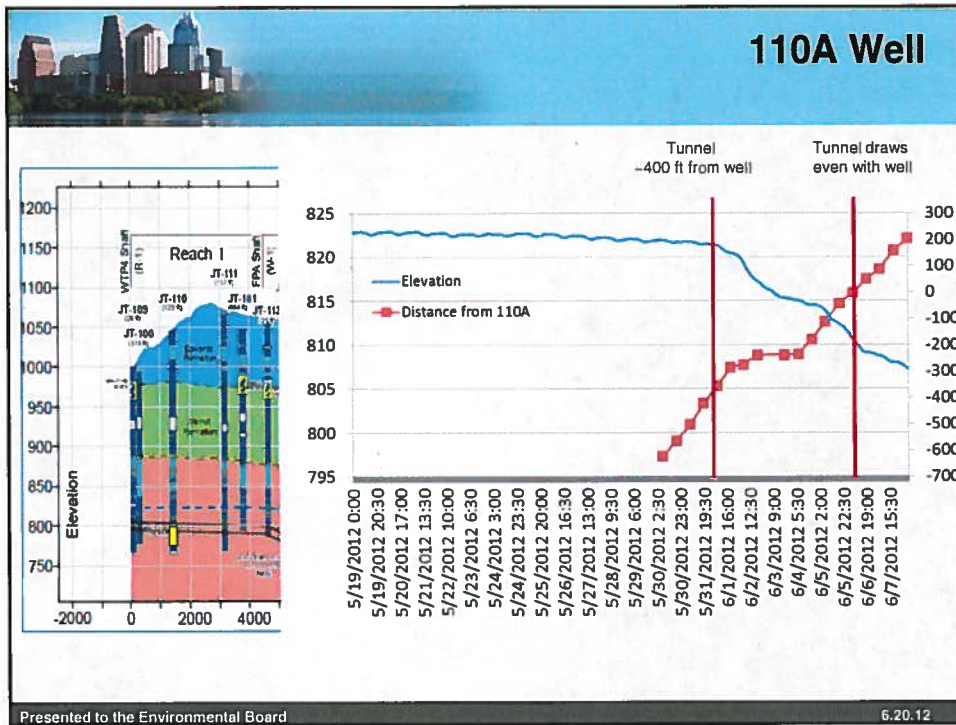
Environmental Commissioning Cost Summary


Initial INTERA Contract Amount	\$ 1,713,814.42
Total Amount Billed to Date (Apr 2012)	\$ 1,272,797.48
Total Remaining	\$ 441,016.94

Presented to the Environmental Board

6.20.12

Weekly Shaft and Tunnel Visits – Tunnel, Reach 1

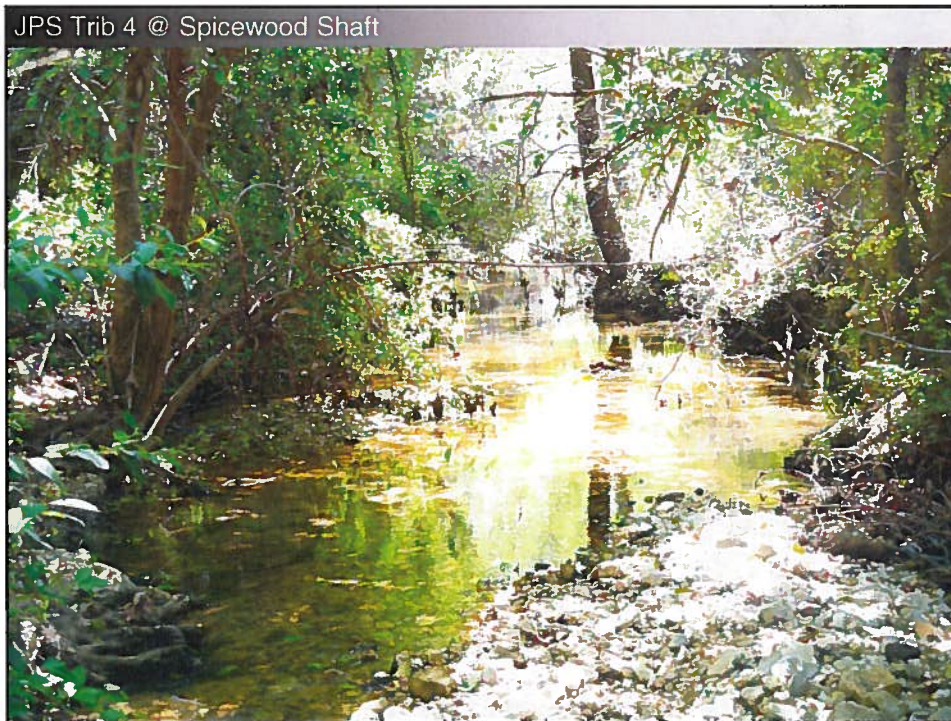




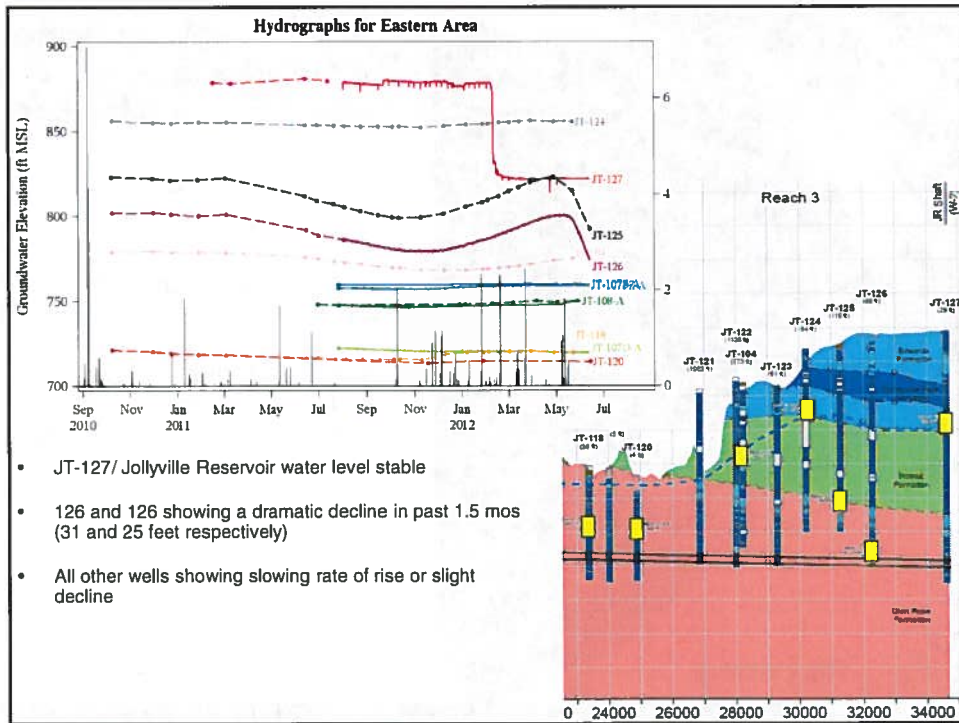
Environmental Commissioning Ongoing Issues

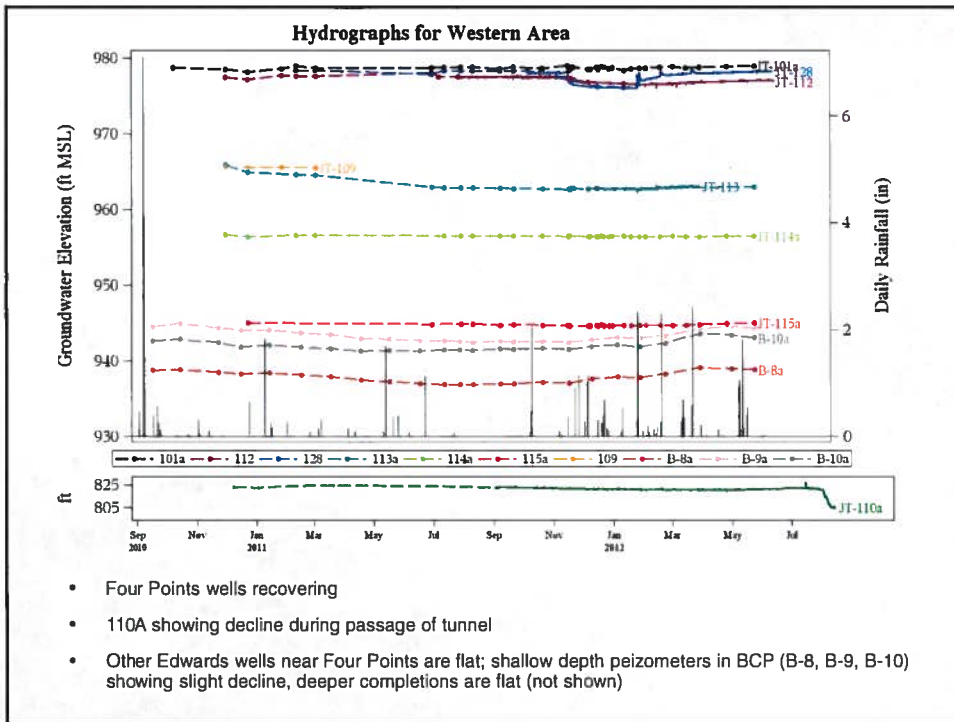
- Wells at Four Points still steadily recovering
- Decision not to repair JT-128 well at Four Points:
 - Water level in well already above preconstruction levels
 - Flooding events no longer occur in intense rain events
 - During prior flooding events, well re-equilibrated quickly to previous groundwater level
 - JT-128 repair would be expensive
- Monthly monitoring for leaching of di-n-butyl phthalate from Four Points grouting compound at JT-112 and Gaas Spring: none detected
- Age dating of groundwater sample collection by staff continuing; preliminary ion results in, first tritium results expected in 1-2 weeks
- First salamander monitoring survey on June 6 for relative abundance (n=9 in timed count, 29 found overall). Plan will include preconstruction, construction phase and post-construction relative abundance surveys.

Presented to the Environmental Board 6.20.12




JPS Trib 4 @ Spicewood Shaft





Environmental Monitoring Update – Surface flow

- All springs and stream reaches flowing
- Water quality parameters within expected ranges
- Nondetects for indicators of mining, vehicular operation, and drilling (TPH, Cu, Cr, Zn)




Jollyville Plateau Salamander Monitoring (no new data)

Spring	Date of Last Count	Count #	Historical Average (& last four counts)
Lanier	Jan 3, 2012	85	65 (56,48,59,85)
Franklin/Pit	Feb 2, 2012	39	78 (102,73,87,39)
Tanglewood	March 2012	0	8 (1,0,0,0)
Lower Ribelin	Jan 6, 2012	42	42 (53,176,43,42)
Upper Ribelin	Feb 2011	67	64 (64,123,74,67)

Site	Date of Last Count	Relative Abundance #	Historical Average (& last four counts)
Trib 4 @ Spicewood	June 8, 2012	9 (29 found overall)	15 (20, 9)

-- provided by Nathan Bendik, Salamander Biologist for WPD


Presented to the Environmental Board 6.20.12



JVTM Environmental Monitoring Summary (cont.)

Trigger	Range	Recent Occurrences
TROLL Alarms	Outside of range of historical Variability	None
Tunnel Inflow Triggers	Baseline water inflow triggers: 50 gpm over 10 feet of tunnel length 200 gpm over 500 feet of tunnel length 400 gpm over a single tunnel reach (1, 2, or 3) Sensitive area triggers: 25 gpm over 10 ft of tunnel length 100 gpm over 500 ft of tunnel length	No measurable inflow, very dry
Spring/Streamflow Triggers	Relative to one another; paired comparison analysis	All surface sites responding consistently with rainfall and general trends (increase after rain events and recent decrease)

Presented to the Environmental Board 6.20.12



Thais Perkins, Environmental Commissioning Coordinator
Watershed Protection Department
thais.perkins@austintexas.gov
974-2291

David Johns, Environmental Scientist
Watershed Protection Department
David.Johns@austintexas.gov
974-2781

Presented to the Environmental Board 6.20.12