



Daily Report 02/17/14

Tetra Tech

This report describes activities completed Friday (02/14/14) through Sunday (02/16/14) and planned for Monday (02/17/14).

Directive #1 – Indoor Air

- Draft Concept Plan for phased approach to indoor air monitoring plus installation of alarm systems and ventilation systems was submitted to DNR on 12/13/12 for comments; the detailed Work Plan was submitted to DNR on 1/14/13 for comments.
- Installed a total of 90 detectors at 41 locations. No positive alarms have occurred to date for either % LEL or H2S.
- A total of ten monitoring pairs and associated transmitters have been provided to Assumption Parish, at their request.
- Continued daily monitor calibration.
- Performed weekly vent system gas/air monitoring.
- Completed visual inspection and maintenance of the under slab ventilation systems. Liquids found in the systems were removed and transported to the storage tank located at ORW-22.

Plan for today:

- Continue monitor calibration.
- Continue ventilation system operation, maintenance, and monitoring.

Directive #2 – Additional Relief Wells and Directive #3 – Overall Plan as Corrected

- Met with DNR/Shaw on 1/24/13; reached agreement on well designs.
- Radius of Influence (ROI) wells are installed at well pads ORW-5 and ORW-9.
- The field portion of ROI testing was completed July 21st. Report is being finalized.
- Positioned approximately 1500 feet of 2-inch HDPE pipe for the piping run from ORW-19, past ORW-18, to near ORW-6.
- Continued preparation for ORW-21 pump test. Prepared the Grundfos RediFlo-2 pump and fittings. Performed test runs of the well and pump test system.
- The silt fence crew completed 35 linear feet of fencing on Triche Road, and 1740 linear feet of fencing along the ORW-57 access road.
- WHE finished the fence enclosure at ORW-58.
- Monitored pressure at the PVW wells; at DNR request, closed the valve at PVW-03.
- Continued preparing infrastructure for well dewatering south of Hwy 70.



Plan for today:

- Continue preparation for ORW-21 pump test.
- Continue preparing infrastructure for well dewatering south of Hwy 70.

Directive #4 – Operation of All Wells

- Flares #2, #3, #4, #5, and #6 are operating. One additional flare, and a trailer-mounted backup flare, are available as needed. TBC Flare #1 will require insulation repair prior to being put into service.
- Well work overs are ongoing for all low-producing and non-flowing wells.
- Barton meters have been installed on flowing wells; performed routine maintenance.
- Performed daily flare operation and maintenance.
- Performed daily relief well operation and maintenance.
- Opened choke settings slightly on ORW-46, 54, 55 & 57; decreased the orifice plate size in ORW-56.
- Checked BC-2 for leaks several times: no leaks detected.
- Opened choke settings slightly on ORW-53, 54, 55 & 57; decreased the choke setting at ORW-49.
- Started up ORW-58.

Plan for today:

- Complete daily flare, Barton meter, generator, and compressor operation and maintenance activities.
- Continue well dewatering.

Directive #5 – Sinkhole Containment

- Submitted original sinkhole containment design in Joint Application to OCM and COE on 2/14/13.
- A pre-construction meeting for the original containment system was held on-site on 3/14/13 for TBC and contractors.
- Construction of the original sinkhole containment system began 4/1/13; construction was completed 9/23/13.
- During late October 2013 and mid-December 2013, cracks and a drop in elevation occurred along the southern levee of the original containment system. Increased seismic activity was also noted at these times.
- During the week of January 6th, 2014 a new Emergency Use Authorization was submitted and approved for constructing a new southern levee approximately 500 to 1300 feet south of the southern levee of the original containment system.
- Completed visual inspection of the existing containment levee.

- Measured surface elevations of water in the bayou and inside the containment area using laser sight on Friday (02/14/14): bayou water elevation: 1.2 ft above mean sea level (AMSL).

New South Containment Levee

- Construction of the new south containment levee began on 1/8/2014. Tree clearing for this new levee was completed January 15, 2014. The construction of the new south containment levee is anticipated to be completed in April 2014.
- Rock's Trucking imported 4,570 cubic yards of sand to the site; the majority of this sand was placed on the new southern containment levee. The full extent of the new southern containment levee (i.e. initial containment) was achieved at approximately 4:00 p.m. on Friday (2/14/14). The total length of the new southern containment levee is approximately 3,857 linear feet. Approximately 35,515 cubic yards of sand have been used in the construction of the new southern containment levee.
- Because containment was established by the new southern containment levee on Friday (2/14/14), the location for obtaining the Bayou surface elevation was changed to a point west of the intersection between the new southern containment levee and the existing west containment levee. Settlement plate 6N will be used as the datum for the new measurement location. The location for the water elevation measurements inside the old containment area will remain at the southwest corner of the old south containment levee (settlement plate 7N).
- Completed fencing along the north berm, Pad-9, and at DPVE-47.
- Measured surface water elevations in the bayou (i.e. outside the new southern containment area) and inside the original containment area: Saturday (02/15/14): bayou water elevation: 1.3 ft AMSL; original containment area water elevation: 0.5 ft AMSL; Sunday (02/16/14): bayou water elevation: 1.2 ft AMSL; original containment area water elevation: 0.5 ft AMSL.
- Rock's Trucking imported sand, and built up low areas of the new southern containment levee.

Plan for today:

- Rock's Trucking continue construction of the new south containment levee.
- MEA to survey new berm alignment and set elevation stakes.