



Daily Report 02/12/14

Tetra Tech

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.
- 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.
- Mobilized a meter run to ORW-57; Rock's trucking placed additional sand around the well to raise the ground surface elevation. Plan to connect the meter run to a temporary well head and bring the well on line today.

Plan for today:

- Continue pump test of ORW-38.
- Connect meter run to temporary well head at ORW-57; bring well on-line.
- WHE build surface completion forms at four ORW locations, weather permitting.
- Silt fencing postponed due to weather; scheduled for today, weather permitting.

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.
- Monitored pressure at PVW wells.
- Temporarily connected ORW-58 to the flare to depressurize the well. Flowed 0.22 thousand cubic feet (mcf) over approximately 5-7 minutes; pressure dropped to zero. Removed the transducer and completed connections to the well head for development. Purged 700 gallons from the well; final turbidity: 29 Nephelometric Turbidity Units (NTU). Reinstalled the transducer and completed well head connections. Well head pressure at completion was 12 psi and rising. The well was shut-in overnight and will be evaluated for flowing conditions today.
- Tested BC-2 for wellhead leaks; no gas leaks detected.
- Completed recovery phase of pump test at ORW-38. Test equipment will be removed and stored until the ORW-21 test begins. Conditions at BC-2 will continue to be monitored.
- Obtained gas compositions at all flowing wells & flares using the GEM-5000 meter.
- Increased choke position at ORW-53.

Plan for today:

- Complete daily flare, Barton meter, generator, and compressor operation and maintenance activities.
- Continue well dewatering.
- Install new thermo-coupler at Flare 2.
- Monitor BC-2.
- Evaluate flow conditions in ORW-58.

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. Bayou water elevation: 1.1 ft AMSL; Containment water elevation: 0.4 ft AMSL.
- Completed a Storm Water Pollution Prevention Plan (SWPPP) inspection in response to 0.77 inches of rain.

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 levee is anticipated to be completed in April 2014.
- Rock's Trucking imported and placed 1220 cubic yards sand on the new southern containment levee. Began placing sand for the berm section between Pad-10 and Pad-9. Total berm completed is approximately 3526 linear feet.

Plan for today:

- Rock's Trucking continue construction of the new south containment levee.