

## Daily Report 12/18/13

### 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 98 detectors at 45 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 TBC frac tank.
- Secured detectors installed at 135 Crawfish Stew with a chain and lock.

#### Plan for today:

- Continue monitor calibration.
- Continue indoor air monitoring.
- 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.

#### **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.
- Increased the choke position on ORW-48.
- Continued depressurization of ORW-54. Removed 113 gallons of water from the separator; pressure ranged from 11 to 13 psi (slight decrease).

- Installed Redi-flo-2 electric pump in ORW-16. Dewatered the well; starting conditions: well head pressure: 0 psi; water level: 8.22 ft bgs. Pumped 150 gallons over 45 minutes; ending conditions: well head pressure: 0 psi; water level 83.15 ft bgs (approximate depth of pump intake). This is the second round of pumping at this well that has not developed well head pressure.
- Dewatered ORW-26; starting conditions: well head pressure: 27.5 psi; water level 10.61 ft bgs. Pumped 90 gallons over 1 hour; ending conditions: well head pressure: 27.5 psi; water level: 93.76 ft bgs water level (pump intake set at approximately 100 ft bgs).
- Installed AP-2 high capacity pump in ORW-18. Dewatered the well; starting conditions: well head pressure: 0 psi; water level: 6.88 ft bgs. Pumped 290 gallons over 3.5 hours; ending conditions: well head pressure: 7 psi; water level: 35.77 ft bgs.
- Installed Redi-flo-2 electric pump in ORW-1. Dewatered the well; starting conditions: well head pressure: 0 psi; water level: 11.07 ft bgs. Pumped 225 gallons over 35 minutes; ending conditions: well head pressure: 83.82 ft bgs; water level: 83.82 ft bgs (pump intake set at approximately 83 ft bgs).
- Installed Redi-flow electric pump in ORW-2. Dewatered the well; starting conditions: well head pressure: 0 psi; water level: 13.21 ft bgs. Pumped 225 gallons over 35 minutes; ending conditions: well head pressure: 0 psi; water level: 83.74 ft bgs (pump intake set at approximately 83 ft bgs).
- Dewatered ORW-39; starting conditions: well head pressure: 0 psi; water level: 17.23 ft bgs. Pumped 540 gallons over 6 hours; ending conditions: well head pressure: 17.5 psi; water level was not measured due to pressure in the drop tube.

Plan for today:

- Complete daily flare, Barton meter, generator, and compressor operation and maintenance activities.
- Continue dewatering schedule (ORW-1, 2, 18, 32, and 39).

#### **Directive #5 – Sinkhole Containment**

- Submitted Joint Application to OCM and COE, which included sinkhole containment design and additional ORW wells, on 2/14/13.
- Initial containment of the sinkhole area was completed.
- A pre-construction meeting was held on-site on March 27th for TBC and contractors.
- Construction of the containment system began April 1st.
- The current configuration of the sinkhole containment system is completed.
- Inspected the south berm.
- Used a laser level to obtain water surface elevation on the south berm (based on Miller Engineers survey of settlement plate 7 on 12/16).

Plan for today:

- Inspect berm.