TETRA TECH

Daily Report 9/26/13

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 and the detailed Work Plan was submitted to DNR on 1/14/13 for comments.
- Current total: 102 pairs at 48 locations. No positive alarms of installed monitor pairs have occurred to date.
- A total of ten monitoring pairs and associated transmitters have been provided to Assumption Parish, at their request.
- Continued monthly monitor calibration.
- Continued indoor air screening; 45 properties surveyed to date with no detections of %LEL or H2S.
- Completed enclosures at 1433 Sauce Piquante.
- Set posts for enclosures at 135 Crawfish Stew (2 locations) and 174 Crawfish Stew (4 locations).

Plan for today:

- Construct building ventilation system enclosures.

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

- 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 & ORW-9.
- The field portion ROI testing was completed July 21st. Report is being finalized.
- Completed daily ORW well data collection.
- Imported 37.73 tons of Mexican yellow limestone to the Triche property.

Plan for today:

- Import sand to the Triche property to build access road for CPT-90 & 91

Directive #4 – Operation of All Wells

- Flares #2, #3, #4, and #5, are operating. Two additional flares have been received and will be available as needed.
- Well work overs are ongoing for all low-producing and non-flowing wells.
- Barton meters have been installed on flowing wells.
- Performed daily flare maintenance.

- Performed Barton Meter routine maintenance.
- Began purging water from ORW-31; experienced difficulty, removed 250 gallons in 4 hours.
- Depressurized ORW-28; used potable water to clean the filter pack; pumped 300 gallons of bentonite mud remover (BMR) (Aquaclear), followed by 300 gallons of potable water.
- Depressurized ORW-29; removed the transducer; used potable water to clean the filter pack. Could not get full return through the filter pack; will try again tomorrow with a high pressure pump.
- Continued pilot testing at ORW-9. Gallons purged to-date: 8567 gal. Well head pressure at 7.3 psi.
- Continued pilot testing at OGRW-1. Gallons purged to-date: 13149 gal. Well head pressure at 54 psi.
- Downloaded and transmitted data collected from the pilot test wells ORW-9, 39 & 40, OGRW-1.

Plan for Today:

- Monitor pilot testing at OGRW-1 and ORW-9; begin testing at ORW-39 and 40.
- Continue well redevelopment using BMR at ORW-28 and 29; purge ORW-31.
- Install drop tubing, filter pack, and transducer at ORW-42.

Directive #5 – Sinkhole Containment

- Joint Application to OCM and COE, which included sinkhole containment design and additional ORW wells, was submitted on 2/14/13.
- Initial containment of the sinkhole area completed.
- A pre-construction meeting was held on-site on March 27th for TBC and contractors.
- Construction of the containment system began April 1st.
- North Levee final containment system installation is approximately 98% complete.
- Compaction testing complete (8 Soil density tests on the south berm). South Levee final containment system installation is at final clay elevation and approximately 75% complete, overall.
- West Levee (new alignment) final containment system installation is approximately 98 % complete.
- Stockpiled limestone on the GEO-1 pad for the south berm.
- Imported 18.69 tons of Mexican yellow limestone and placed it on the north berm to bring up to plan elevation.
- Board mats were loaded onto the trailer and transported to the Triche property for use in building an access road for CPT-90 & 91.
- A trench was excavated across the access road on the Triche property, and pipe installed to drain standing water on the north side of the road.
- Three trenches were excavated near each of three frac tanks (OGRW-1, ORW-9, north berm) and 10” hdpe sleeves were installed for the discharge piping from the frac tanks.

- Miller Engineers surveyed the markers and found that the markers inside the containment area are not accurate. The markers indicate 0.2 feet, survey indicates -0.84 feet. The marsh side indicators were within 1 to 2 tenths (1.8 feet). Miller Engineering will reset the markers.