



Daily Report 01/20/14

Tetra Tech

This daily report covers activities completed Friday (01/17/14) through Sunday (01/19/14), and planned activities for 01/20/2014.

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 91 detectors at 42 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-38.

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.
- Boudreaux Electric used a boom truck to raise the PB Energy communications cable east of the TBC access road between Pad 9 and Pad 10 (1.5 hours). The cable was raised approximately eight feet.
- Rock's Trucking imported 2500 cubic yards of sand to the Triche property for the access road. Approximately 1195 linear feet of roadway has been completed to date. Rock's Trucking also imported rock material and placed it on the access road on the Triche property to improve the road for sand truck travel.
- The CSSI excavator, with chipper attachment, completed chipping for the access road on the Triche property.
- Rock's Trucking placed sand off the east side of the TBC access road, south of Pad 9, to allow access for the swamp excavator to begin clearing trees for the road to proposed well ORW-57.



- Rock's Trucking imported 1170 cubic yards of sand for the access road to ORW-55, 56, and 57; 1195 linear feet of roadway has been completed to date. The road to the ORW-55 location is complete.
- WHE drilled PVW-01, located on the Triche property at the NSDMW006 location (Respec oversight); did not set a casing; did not observe the expected lithology.
- Installed a 10-inch HDPE sleeve under the access road to ORW-53 to allow for connection of lateral piping to future wells ORW-55 and 56.

Plan for today:

- CSSI: swamp excavator to clear trees to ORW-57.
- WHE/Respec grout PVW-01; develop PVW-03; drill PVW-02.
- WHE sonic crew drill ORW-56.
- Tt crew completed layout of 2-inch HDPE piping for ORW-56 and 55.

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.
- Continued well dewatering.
- Flare 6 was shut down several times during the day on Friday (1/17/14) due to sand trucks that separated buried conduit near well ORW-46. Repaired the separated conduit. A portable generator was used to operate the flare during this repair.
- Dismantled the meter runs at PMW-18; prepared for installation at ORW-55 and 56.
- Isolated ORW-53; installed tee and valve and fittings for lateral line connection to ORW-55 and 56.
- Dewatered ORW-6 on Saturday (1/18/14). Starting conditions: well head pressure: 12.0 psi; water level: 8.74ft bgs. Removed 70 gallons and transferred this water to the TBC frac tank. Ending conditions: well head pressure: 14.0 psi; water level: 52.59 ft bgs.
- Dewatered ORW-18 on Saturday (1/18/14) and Sunday 1/19/14). Starting conditions: well head pressure: 8.0 psi; water level: 6.31 ft bgs. Removed 130 gallons on Saturday, and 260 gallons on Sunday. Ending conditions: well head pressure: 16.0 psi; water level 45.23 ft bgs.
- Dewater ORW-22: starting conditions: 8.0 psi well head, 11.06' water level; remove 170 gallons and transferred to the tank at ORW-54; ending conditions: 21.0 psi well head, 34.44 water level. Shut in ORW-22 on Sunday 1/19/14) due to lack of flow.



- Dewatered ORW-24. Starting conditions: well head pressure: 17.0 psi well head; water level 7.16 ft bgs. Removed 110 gallons and transferred to the tank at ORW-54. Ending conditions: well head pressure: 12.0 psi; water level: 37.23 ft bgs.
- Dewatered ORW-32: Starting conditions: well head pressure: 0.0 psi; water level: 8.23 ft bgs. Removed 180 gallons and transferred to the tank at ORW-54. Ending conditions: well head pressure: 0.0 psi; water level: 32.96 ft bgs.
- Continued to depressurize ORW-54. Removed 115, 125, and 140 gallons from the separator, on Friday (1/17/14), Saturday (1/18/14), and Sunday (1/19/15), respectively.

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. Noted increased seismic activity 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.
- Construction of the new southern levee began on 1/8/2014. Tree clearing for this new levee was completed January 15, 2014. The construction of the new southern levee is anticipated to be completed in April 2014.
- Completed visual inspection of existing levee.
- Rock's Trucking placed a mix of sand and limestone on the subsided area of the existing levee, between stations R-11 to R-13. Material was placed in a six-inch lift in the center, and feathered out in each direction. A safety watch was in place during the work.
- Rock's Trucking imported 3325 cubic yards of sand to the new south levee; 1511 linear feet completed to date.

Plan for today:

- Inspect original levee.
- Rock's Trucking to continue importing sand for the new south levee.