

**STATE OF OHIO
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINERAL RESOURCES MANAGEMENT**

**LIBERTY HIGH SCHOOL SUBSIDENCE RECLAMATION PROJECT
TRUMBULL COUNTY, OHIO
PROJECT NUMBER: TR-Lb-05**

PROJECT DESCRIPTION

The Liberty High School Subsidence Reclamation Project is located on a mapped pre-law coal mine site. The project site is located in the south-east portion of Trumbull County, just north of the City of Youngstown (Mahoning County), in Liberty Township. The project site shall be accessed via an existing gas well service road, just south of the I-80 overpass, on Sampson Road.

Within the property owned by the Liberty School District Board of Education, two partially collapsed features were recently discovered. One of the subsidence features is located within 320 ft. of the Liberty High School football stadium and track while the other is within 215 feet of Sampson Road.

From the State of Ohio-Abandoned Underground Mine Locator it has been determined that the two subsidence features are vertical mine shafts that were associated with the following underground mine:

The Church Hill Mine was an underground coal mine that was operated by the Church Hill Coal Company and was abandoned in 1883. The mine extracted coal from the Sharon No. 1 seam. The recorded mine maps do not indicate a coal elevation. However, mine data sheets show a coal elevation of 865 feet which equates to a depth of ± 175 feet below the surface of the ground. The vertical shaft closest to the Liberty School Complex was designated as both an air and a pumping shaft on two separate drawings. The second feature was only designated as a shaft and is presumed to be a hoisting shaft.

The scope and intent of this reclamation project is stabilizing the subsiding shafts and to provide positive drainage to eliminate the dangerous public health and safety concern. Once access to the site has been constructed, each shaft location shall be excavated to verify its size and location. A grouted rock plug shall then be constructed at each location to stabilize the shaft and prevent future subsidence. The site shall then be revegetated and permanent mine markers installed at the surface.

During the maintenance period of the project, the Contractor will be responsible for the removal of the temporary stream crossing and all temporary sediment control structures, the revegetation of areas disturbed by the removal of the structures, mowing, and the application of maintenance fertilizer.

Major work items include:

1. Mobilization.
2. Top-dressing of existing gas well service road utilizing 110 tons of compacted #304 stone.
3. Construction of access road, construction entrance, temporary stream crossing and staging area utilizing 2,040 square yards of filter fabric, (3)-12"Ø x 20' HDPE pipe, 490 tons of #3 & #4 stone, 46 tons of #2 stone and 320 tons of compacted #304 stone.
4. Clearing and grubbing of 3 acres.
5. Installation of 1,247 linear feet of silt fence/straw bale dikes.
6. Approximately 3,900 cubic yards of soil excavation.
7. Approximately 300 cubic yards of rock excavation.
8. Surveying and as-built drawing of mine features.
9. Temporary seeding as required by SWPPP over 3 acres.
10. Installation of 768 linear feet of temporary fence.
11. Construction of two (2) grouted rock plugs utilizing a concrete pump, 640 tons of dump rock fill, 160 cubic yards of concrete and 80 gallons of chemical additive.
12. Debris removal and disposal of 2 tons.
13. Tire removal and disposal of 1 ton.
14. Site grading and revegetation of 3 acres.
15. Surveying and installation of bollards and mine markers.
16. Final top-dressing of access road utilizing 50 tons of compacted #304 stone.

During the Maintenance Period:

1. Removal and proper disposal of temporary sediment control devices.
2. Revegetation of areas disturbed during the removal of the temporary sediment control devices.
3. Mowing and maintenance fertilizer shall be performed on 3 acres.
4. Removal and proper disposal of the temporary stream crossing and stream crossing BMP's.
5. Restoration of the stream bed to its original condition.

The following ODNR-DMRM staff, from the Salem District Office, is involved with this project and may be contacted with any questions or concerns.

1. Project Officer: Todd Gleydura 330-222-1527
2. Project Engineer: Justin Conkle 330-222-1527
3. Design Engineer: John T. Kulifay 330-222-1527

**LIBERTY HIGH SCHOOL SUBSIDENCE
RECLAMATION PROJECT**

**TRUMBULL COUNTY, OHIO
PROJECT NUMBER TR-Lb-05**

DIRECTIONS TO PROJECT SITE

The Liberty High School Subsidence Reclamation Project is located in the south-eastern portion of Trumbull County off of Sampson Road in Liberty Township. The project site is located approximately 0.3 miles south of the intersection of Sampson Road and Churchill Hubbard Road/OH-304. The project site shall be accessed via an existing gas well service road, just south of the I-80 overpass, on Sampson Road. The existing gas well service road is located across from 4231 Sampson Road, Youngstown, Ohio 44505. The pre-bid meeting will be held at the project site.

A. From Ashtabula and North:

1. Take OH-11 S toward Youngstown.
2. Take the Tibbetts-Wick Road Exit 4B toward Niles.
3. In 0.3 miles, turn left onto Tibbetts-Wick Road/CR-28.
4. In 1.4 miles, turn right onto Belmont Ave/OH-193.
5. In 1.4 miles, turn left onto Churchill Hubbard Road/OH-304.
6. In 0.6 miles, turn right onto Sampson Road.
7. The project site is 0.3 miles ahead on the right.

B. From East Liverpool and South:

1. Take OH-11 N toward Youngstown.
2. Keep straight onto I-80 E/OH-11 N.
3. In 4.6 miles, take Exit 229 toward Belmont Ave/OH-193.
4. In 0.3 miles, turn right onto East Liberty Street.
5. In 0.09 miles, turn left onto Belmont Ave/OH-193.
6. In 0.6 miles, turn right onto Churchill Hubbard Road/OH-304.
7. In 0.6 miles, turn right onto Sampson Road.
8. The project site is 0.3 miles ahead on the right.

C. From Pennsylvania and East:

1. Take I-80 W entering Ohio.
2. In 7.75 miles, take Exit 229 toward Belmont Ave/OH-193.
3. In 0.3 miles, turn right onto Belmont Ave/OH-193.
4. In 0.3 miles, turn right onto Churchill Hubbard Road/OH-304.
5. In 0.6 miles, turn right onto Sampson Road.
6. The project site is 0.3 miles ahead on the right.

D. From Akron and West:

1. Take I-76 E toward Youngstown.
2. Merge onto I-80 E/OH-11 N via the exit on the left.
3. In 9.3 miles, take Exit 229 toward Belmont Ave/OH-193.
4. In 0.3 miles, turn right onto East Liberty Street.
5. In 0.09 miles, turn left onto Belmont Ave/OH-193.
6. In 0.6 miles, turn right onto Churchill Hubbard Road/OH-304.
7. In 0.6 miles, turn right onto Sampson Road.
8. The project site is 0.3 miles ahead on the right.

REFER TO THE FOLLOWING PAGE FOR THE LOCATION MAP



Latitude: 41.156372, Longitude: -80.652003