

Permittee Name: Lakewood Brick and Tile Co.
Permit No: M-1979-045
Operation Name: Church Pit
Anniversary Date: 02/28/2019

Additional information

7. Total Disturbance **70.72 ac ±**
Clay Approximately 43.52 acres is disturbed. We continued to mine deeper into the clay vein this year (brown) and use the processing area (purple). The stone yard area was expanded on the north end of the west side this year.

Gravel Approximately 27.20 acres is disturbed, the plant site area (orange), stockpile area and gravel is removed more material from the partially mined area north of the ditches (pink). The material processed at the Plant Site came from gravel mined this year on both mines. Some waste rock was removed for use by the mineral owners from the pre-law stockpile areas and along the west side of the clay mine area.
8. **Clay** Mining continued in the area stripped in previous years the floor of the mine was advanced to the north end of the clay mining area. The stone yard on the west side is still in use.

Gravel Mining will continue to removed material between the clay seam and the overburden pile to expose more clay. No sloping will be required along the permit boundaries on the east side of this mine.
9. No reclamation was required this year. The Pre-law stockpile areas that were disturbed have been graded so only resoiling and seeding will be needed when it is time for those areas to be seeded. The western growth medium stockpile was seeding last spring (0.72 ac.). The south pile remains undisturbed and has been seeded (pink).
11. No reclamation is called for during the next year. However, backfilling may continue in the old clay pit area on the south end of the mine. If the opportunities to sell rock from the pre-law overburden piles occur, that removal will continue as well.
12. Approximately 4.55 acres on sections of the clay mine area have been backfilled over the life of the mine. The filled area is graded and used for working area in the Clay and Gravel Plant sites.
13. Weeds were sprayed in 2018 on 4 days starting April 19th and ending on May 7th, 2018. Areas sprayed: Roadways, disturbed areas and berms. Chemicals used and rates: Milestone - 7.0 oz/ac.; Roundup - 2 qts/ac.; Escort - 0.66 oz/ac.; Telaar - 0.66 oz/ac.; Hi light dye - 16.5 oz/ac; Induce (surfactant) - 12.5 oz/ac.

Species targeted: Diffused Knapweed, Downey brome, Common mullein, Canadian Thistle and Musk thistle.

Success analysis: good, spraying will continue each year. Fewer plants per acre and Diffused Knapweed populations have been knocked way back.
19. The approved bond amount is \$328,600 and was reevaluated and increased on September 26, 2017 by the Division.