

Arbor Hills Landfill
Building a Better Arbor Hills Investment & Construction Update
July 27, 2017

Phase 1 Gas Collection and Control System

June 2017 – September 2017 (weather permitting)

As of mid-July, twenty wells have been re-drilled or newly installed and upgrades to approximately 5,000 feet of lateral and header piping had been completed to improve gas collection efficiency.

In August, a new 24-inch header will be installed along the landfill's north side, extending from the eastern limit of Cell 4C, heading west to the utility flare where it will be temporarily tied into the 18-inch header that extends along the west to the south and ultimately to the gas plant.

Phase II Gas Collection and Control System

September 2017 – January 2018, following completion of Phase 1 (and weather permitting)

Phase II will include the completion of the 24-inch header to extend the full length of the west side and partially along the south side of the landfill. This header will be temporarily capped on the south side of the landfill and north of the railway, until it can be connected to a 36-inch header. The 36-inch header will be constructed under the CSX Transportation-owned railway in the next phase, pending CSX approval. Talks have begun with CSX to acquire the approval.

Flare

Upon CSX and Air Permit Approval (est. Q1, 2018)

The installation of a 5,000 scfm flare that will be part of the flare compound is contingent upon approval from CSX Transportation as well as air permitting approval from the MDEQ.

South Slope Final Cover

August 2017 – November 2017 (weather permitting)

Final closure of 20-acres of the southern portion of the landfill will be completed.

North Slope Synthetic Cap

October 2017 – November 2017

An approximately 7-acre area will be installed with temporary cap, extending above the present temporary cap on the landfill's north side "bowl area."

Cell 6 to Cell 4E Permit Modification

In mid-June 2017, Arbor Hills submitted to the MDEQ for approval a minor permit modification to the west portion of Cell 6. The modification includes changing the west portion of Cell 6 to flow into Cell 4, with the changed area to be referred to as Cell 4E. The proposed modification will minimize waste removed from Arbor Hills East to approximately 40,000 cubic yards (cy) from 500,000 cy – a 92 percent reduction. The modification will reduce the potential for offsite odors.

Cell 6 Excavation

October 2017 – November 2017

An approximately 14-acre portion of Cell 6 will be excavated and deposited in the active portion of the landfill. We anticipate excavation will take approximately 11 days, but have allotted additional time to actively excavate during favorable wind and weather conditions that would minimize the possibility of offsite odor migration. Cell 6 Excavation and North Slope Synthetic Cap will be constructed simultaneously.

Air Filtration and Neutralization System

Ongoing

Arbor Hills operates an air filtration and odor neutralizing system around the perimeter of the active area of the landfill. Manufactured by GOC Technologies, the system utilizes a reservoir containing QuickAir V on a trailer-mounted generator to create counter-odor vapor. The generator forces the QuickAir V material through a filtration system that is circulated through a piping system elevated at key areas of the landfill where odor control is desired.

The piping system has strategically placed holes to efficiently distribute the material after it passes the filtration system. A single unit is capable of supporting 500 to 4,000 linear feet of piping. More information is available at <http://www.goctech.com/wp-content/uploads/2017/02/QAV-TechReport16-10.pdf>.