Colesville Landfill 5-Year Review

DER Site Management, November 10, 2009

Photos with Notes

Payson Long and I, Will Welling, arrived at the Colesville Landfill at 10:50 AM. On site waiting were Laurie Haskell, Broome County; George Jacob, USEPA project manager; Dan Scofield, Broome Co.; Michael Clemeston USEPA; David Cobollero, ARCADIS; and Steve Feldman, ARCADIS. Two additional federal employees arrived, Cloe Metz, USEPA health reviewer; and Grant Anderson, a USEPA hydrogeologist.

While we were standing around, Payson asked Steve Feldman for a table of monitoring wells and their GPS/GIScoordinates. George Jacob seconded the request, he wanted a copy.

At 11:10 we began with a simple look inside the plant. Photos taken.

The two notable points of our landfill traverse were the settlement areas holding standing water and the vacated beaver. All wells were locked and protective casings were firmly upright.

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Photo	Description
	Persons right to left: Dan Schofield, Broome county; Michael Clemeston, USEPA; Laurie Haskell, Broome County; David Cobollero, ARCADIS; Steve Feldman, ARCADIS; George Jacobs, USEPA; and Payson Long, NYSDEC. Payson asked Steve Feldman for a table of monitoring wells and their GPS/GIScoordinates. George Jacob seconded the request, he wanted a copy.
	Exterior of the treatment plant. At 11:10 we began with a simple look inside the plant.

Outside storage of gas cans.

These cans need to be stored in a flammable locker.

Mixing tank for the groundwater treatment system.

Filters

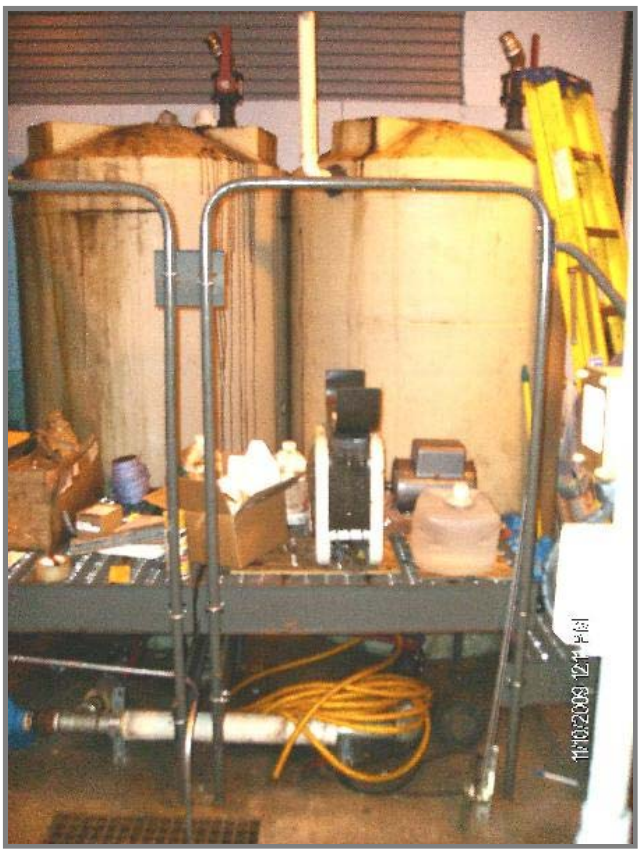
Single stage air stripper

Three water lines from pumping wells

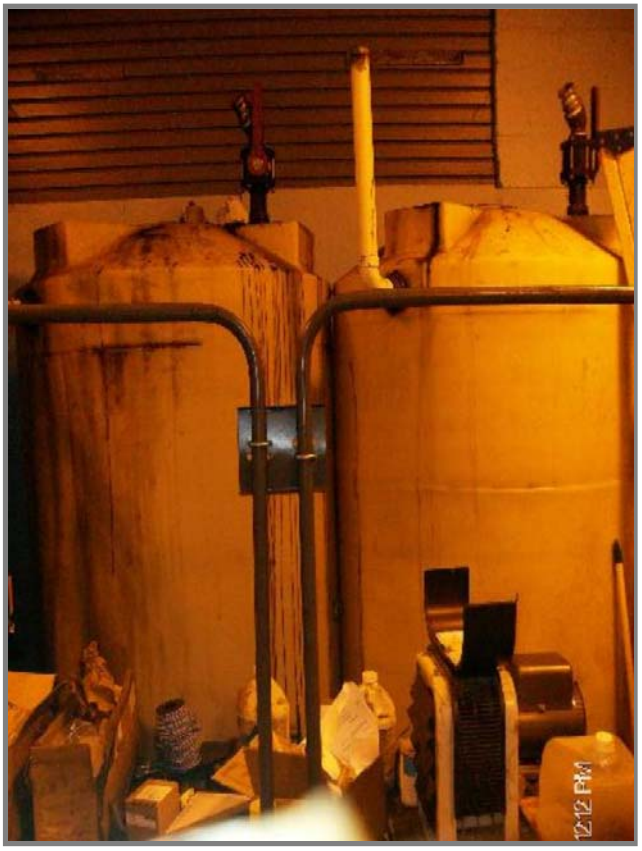
Valving

Panel

Missing panel cover. A blank needs to be installed.



Feed-grade molassas being handled as food-grade molassas. I'm not sure I understand what this means, it seems that the process uses the cheaper, livestock feed-quality ingredient in food-grade equipment.



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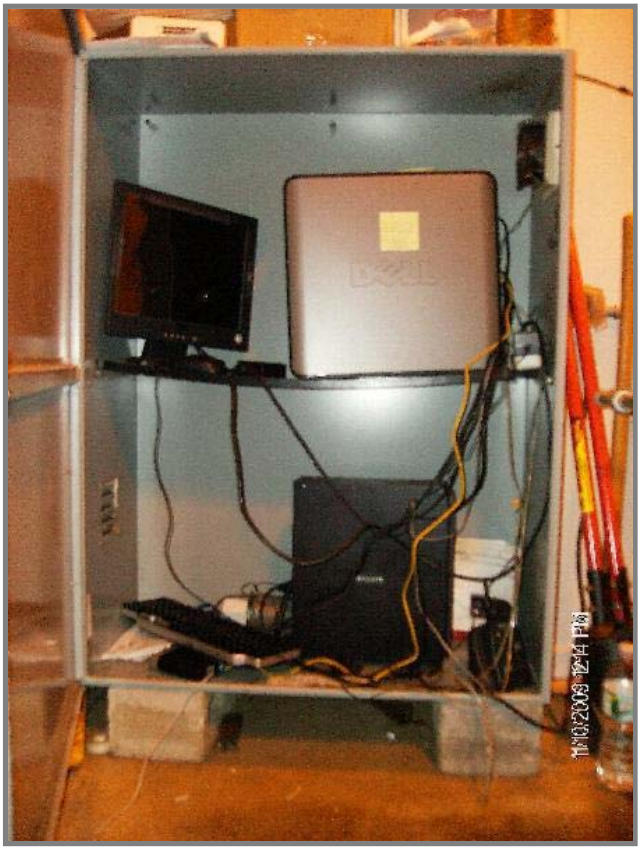
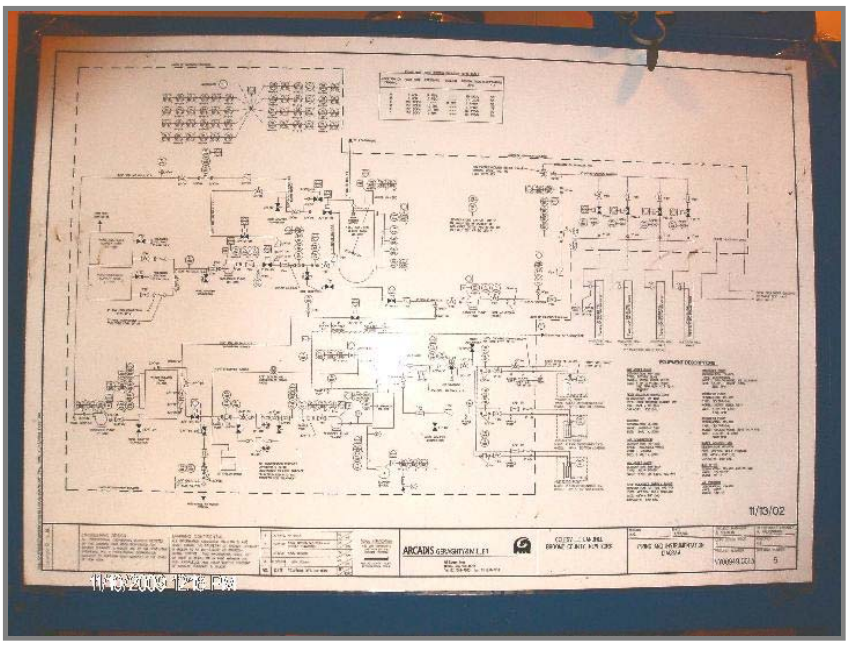
Left to right: Payson, Steve feldman, Dave Cobollero.



Computer closet

Compressor

Nameplate



Schematic of the treatment plant

Heater. Note the smoke residue or scorch mark. The plant venting needs to be reviewed.

Upper heater

Filter in-line beneath the molassas tanks which is visible in the image describing feed-grade and food-grade.

Beneath the tanks

Short bag filters

Heading out throught the fence east of the treatment plant.

Looking north towards the plant.

View northeast

Photo looking north on the eastern border from the road we traversed. We circled the site observing features and monitoring wells.

Looking east along the settlement

Looking across the landfill towards the "beaver pond" and borrow pit. the landfill is approximately 35 acres.

Gopher hole located just west of the first wetland.

Observing the wetland that was also present at the time of the previous 5-year review.

"It's still there."

The most notable point of our landfill traverse were the settlement areas holding standing water.

Coleville Landfill settlement area now filled with water. NYSDEC and USEPA said that these depressions should be filled and the cap regraded so water can drain off.

Backing up. photo taken in-line with the settlement lineation.

The inspection group above the settlement area.

Left to right: Chloe Metz, Grant Anderson and George Jacob.

Standing in fornt of the second smaller body of water.

Smaller wetland "buffalo wallow."

Payson walking down near the second body of water.

Laurie Haskell at the "beaver pond." The pond is beaver-free.

Beaver pond (sans beaver)

Beaver pond (sans beaver)

Landscape. Looking west along the southern fence line.

Photo looking east along the north fence line

Photo looking west along the north fence line

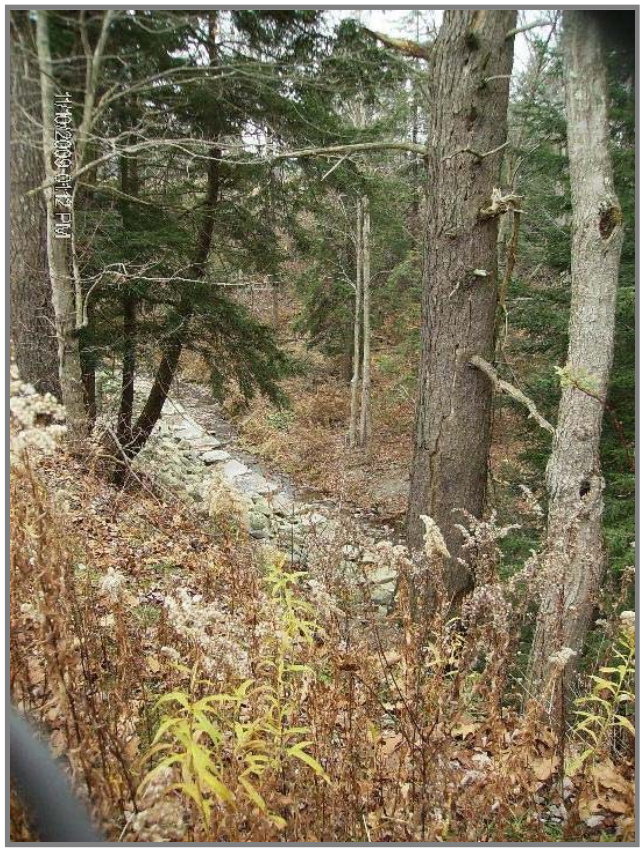
Photo looking south

Photo looking south

Typical well on north side of landfill

Typical well on north side of landfill. All these wells bore the same unusual brass locks.

View through the fence looking down to the stream above the armored bank



View through the fence looking down to the stream above the armored bank.

After the walk around the perimeter of the landfill we went out front to the road to examine the outfall and ditch.

Outfall south of the treatment plant along the highway.

Iron at the outfall from the treatment plant. This water is "clean" said Steve Feldman. The iron is due to the change in eH/pH as the ground water daylights. This is future "bog iron."

Closeup. Iron staining at the outfall

Iron staining

Along the road

Bacterial sheen along the road

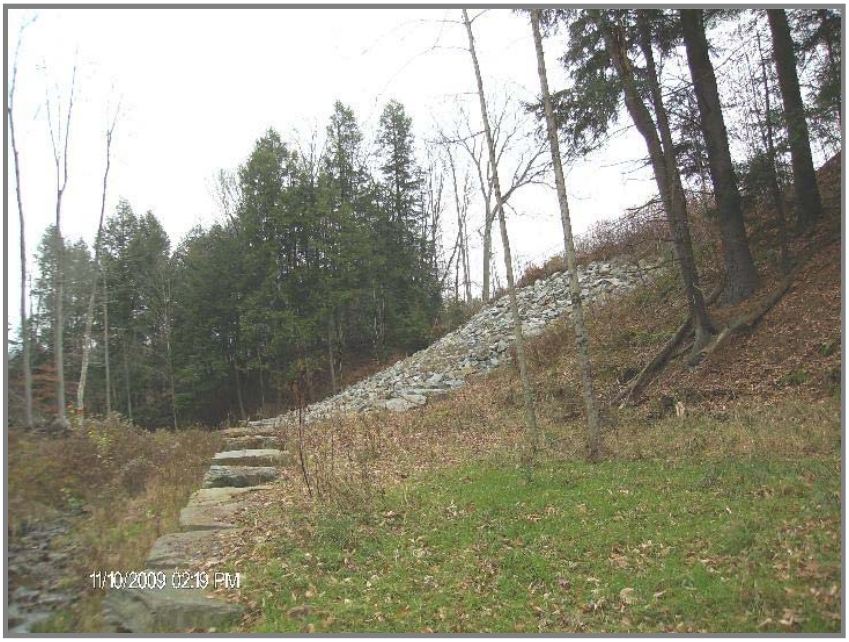
Cleanout to access the outfall

Reconstructed stream

Reconstructed strea

Iron-stained seep

Fossil plant stems in rip-rap rock.



View of the armoring and reconstructed hillside after the June flood, 2008.

We completed the site visit at 1:30 PM.