



NEEL-SCHAFFER Solutions you can build upon

DISCIPLINES & SERVICES

Transportation

- Aviation
- Bridges
- Lighting
- Maritime
- Railroad
- Roads and Highways
- Signage
- Traffic
- Transportation Planning

Environmental Services

- Air Permitting
- Brownfields Assessment/ Redevelopment

- Environmental Permitting/ Compliance
- Natural Resources & NEPA Compliance
- Phase I/II ESA
- Solid Waste
- Under/Aboveground Storage Tank Mgmt.

Civil/Site

- Site Development
- Structural Engineering
- Telecommunications
- Multi-use Trails
- Recreational
- Landscape Architecture

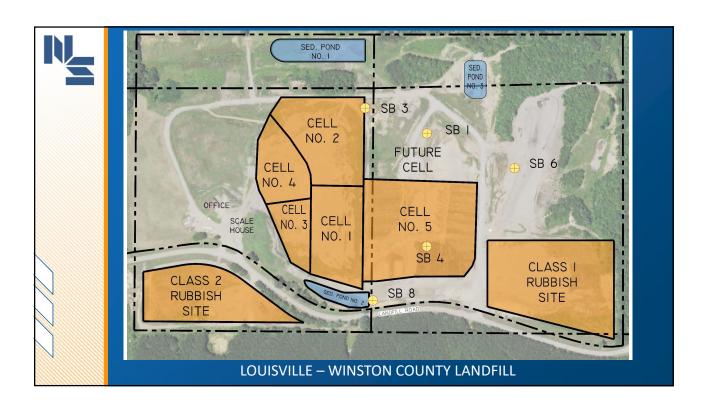
Support Services

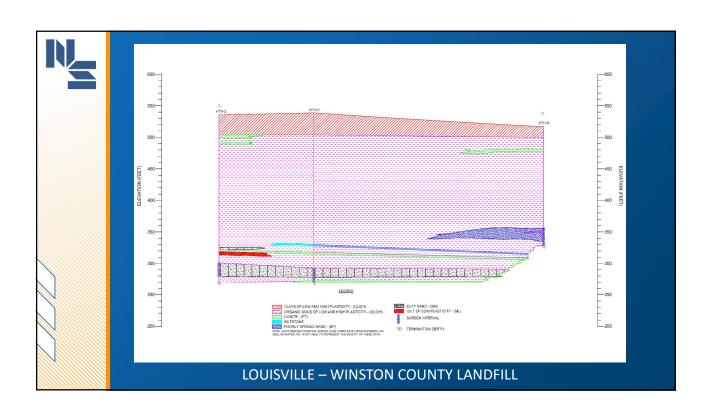
- Storm Water Management
- Water Resources
- Water Treatment & Conveyance
- Wastewater Treatment & Collection

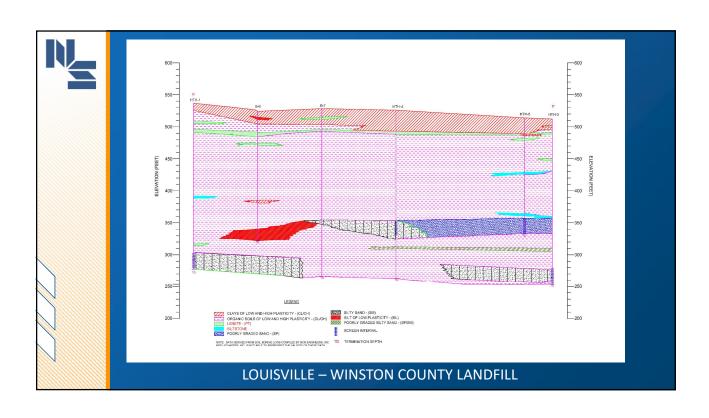
Support Services

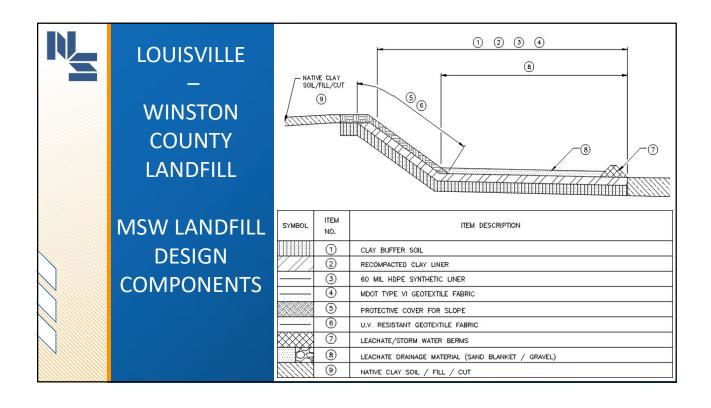
- Emergency Management
- Planning Resources
- Surveying
- Construction Engineering & Inspection

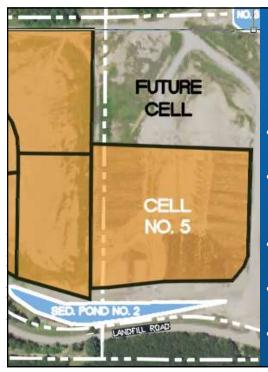












LOUISVILLE - WINSTON COUNTY LANDFILL

CELL NO. 5 CONSTRUCTION

AVERAGE BID PRICE \$2.0 MILLION

CELL CONSTRUCTION

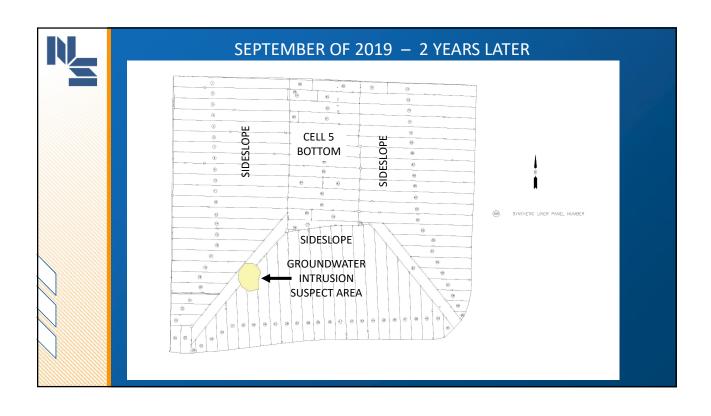
AREA +/- 7.6 ACRES

FINAL COST \$1.7 MILLION

COMPLETION DECEMBER 2017

 WAS NOT PUT INTO SERVICE AT COMPLETION IN 2017







FIRST STEPS TAKEN

- CITY DECLARED EMERGENCY
- ESTIMATED QUANTITIES DEVELOPED FOR QUOTES TO:
 - REMOVE DRAINAGE LAYER
 - REMOVE SYNTHETIC LINER IN CELL BOTTOM AND SUSPECT AREA ON SIDESLOPE
 - REMOVE CLAY LINER FOR REPROCESSING IN BOTTOM
 - REMOVE PROTECTIVE COVER, SYNTHETIC LINER AND CLAY LINER ON SIDESLOPE AT SUSPECT AREA
- QUOTES SECURED FOR INITIAL WORK WITH LOWEST PRICE AT JUST UNDER \$400,000





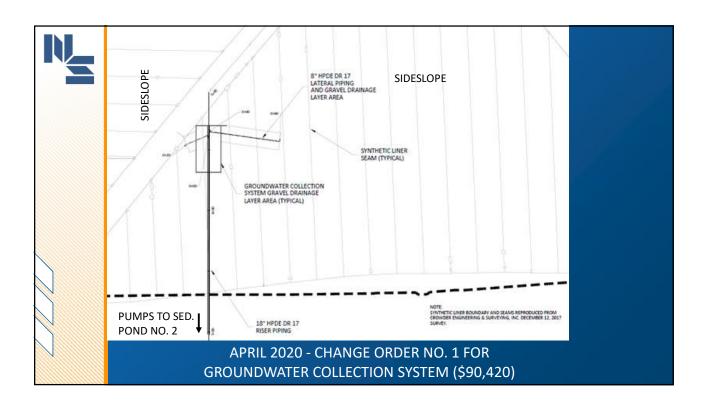
DECEMBER 2019 – SYNTHETIC LINER CUT TO EXPOSE CLAY LINER

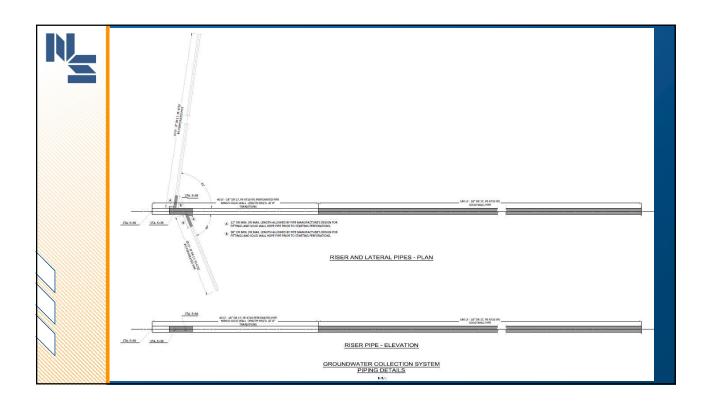
*** TOO MUCH WET WEATHER TO TELL ***

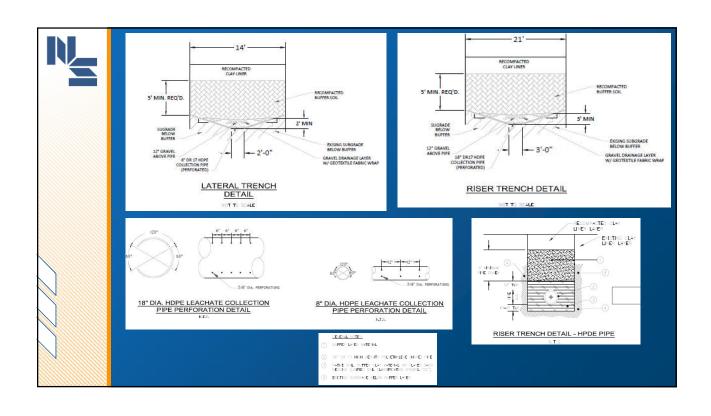




MARCH 2020 – SUSPECT AREA EXCAVATION REVEALAD GROUNDWATER SEEPAGE

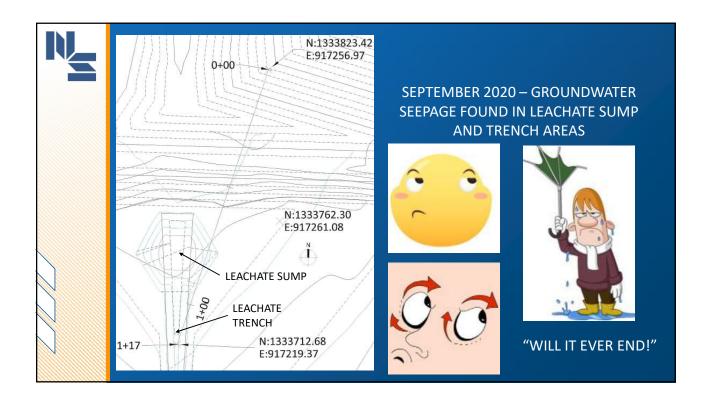


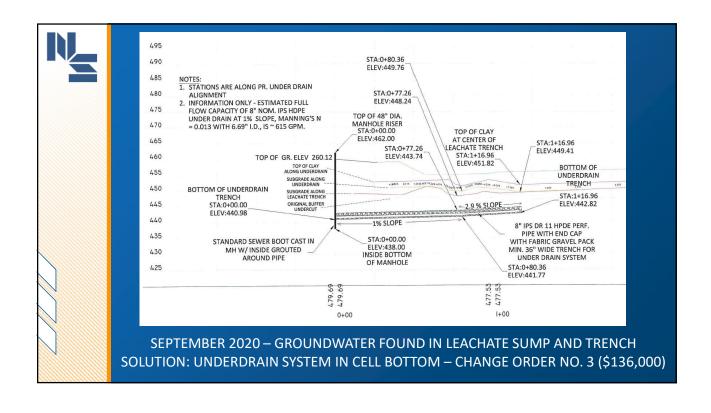




















LOUISVILLE - WINSTON COUNTY LANDFILL

SOME TAKEAWAYS

- PUT NEW CELLS INTO OPERATION AS SOON AS POSSIBLE ONCE APPROVED FOR USE
- ADDITIONAL GROUNDWATER MONITORING MAY BE BENEFICIAL IN THE FUTURE FOR BETTER LOCATING SOURCES AND DIRECTION OF FLOW
- FUTURE CELL DESIGNS TO CONSIDER GROUNDWATER COLLECTION SYSTEMS
- *** SOME COST SAVINGS MAY BE FOUND ON THE FRONT END ***

