



Pre-Regulatory Landfill Program  
*Department of Environmental Quality*

January 27, 2026 – City of Durham Parks Update



## *Completed Work – Oct 2024 to Dec 2025*

- Waste Delineation Borings (Ground truth the results of the geophysical survey to establish WDA boundary).
  - Results were good but we needed additional confirmation due to the nature of the incinerator waste (consistency of soil).
- Background Soil Assessments - A total of 12 soil samples were collected from each park (outside of the delineated waste disposal area) to compare against soil cover results from previous assessment work.
- Attempted to secure access agreements for adjacent properties to all 5 parks. No access agreements were secured for Northgate Park or East End Park. Several, but not all access agreements were secured for East Durham Park, Walltown Park, and Lyon Park.
- Attempts are ongoing to continue to secure access agreements for off-site assessment work.



# *Ongoing Investigation – April 2025 to August 2025*

Assessment of groundwater, landfill gas, above ground vapors and surface water and sediment.

## East Durham Park

- Installed 9 groundwater monitor wells and 9 landfill gas probes.
- Sampled 9 monitor wells, screened and sampled 9 landfill gas probes, collected 7 surface water and sediment samples and conducted above ground vapor survey.

## Lyon Park

- Installed 7 groundwater monitor wells and 10 landfill gas probes.
- Sampled 16 monitor wells (including nine wells that were previously installed on the armory property), screened and sampled 10 landfill gas probes, collected 9 surface water and sediment samples and conducted the above ground vapor survey.

# *Ongoing Investigation – April 2025 to August 2025*

## East End Park

- Installed 8 monitor wells, 10 landfill gas probes.
- Sampled 8 monitor wells, screened and sampled 10 landfill gas probes, collected 9 surface water and sediment samples and conducted the above ground vapor survey.

## Walltown Park

- Installed 9 groundwater monitor wells and 9 landfill gas probes.
- Sampled 9 monitor wells, screened and sampled 9 landfill gas probes, collected 8 surface water and sediment samples, conducted the above ground vapor survey.

## Northgate Park

- Installed 8 groundwater monitor wells, and 5 landfill gas probes.
- Sampled 8 monitor wells, screened and sampled 5 landfill gas probes, collected 6 surface water sediment samples and conducted the above ground vapor survey.

# *Ongoing Investigation – November 2025*

- Conducted second round of sampling at all 5 parks for everything listed on slides 3 and 4 except for the above ground vapor.
- Above ground survey was not completed again because no vapors were detected in the initial round of screening.
- Reports for all five parks are underway and are expected to be submitted to NCDEQ the week of January 26<sup>th</sup>.

## *Ongoing Investigation – December 2025 to January 2026*

- Conducted a third round of sampling at all 5 parks for everything listed on slides 3 and 4 except for the above ground vapor.
- Currently awaiting the results of this investigation and will submit the reports to DEQ within two weeks of the receipt of the data from the lab.
- Currently conducting the fourth round of sampling at all 5 parks for everything listed above. Work began on January 19<sup>th</sup> and is expected to be completed By February 2<sup>nd</sup>, 2026.
- Upon receipt of the laboratory analytical results of this investigation, we will submit the reports to DEQ within two weeks.

# *Additional Investigation Activities – 2026*

- Delineation of waste on surrounding residential properties.
- Additional groundwater monitoring wells to delineate offsite impacts based on background results.
- Remedial Investigation Summary Report based on addressing all data gaps.
- Proposed risk-based remedial action plan prepared for each park – protective soil cover installed on top of delineated waste disposal area.

# *City of Durham Parks – East Durham Park*

*East Durham Park (NONCD0000821) – 2601 E. Main & 300 Gary St, Durham, NC*



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# City of Durham Parks – East Durham Park

East Durham Park (NONCD0000821) – 2601 E. Main & 300 Gary St, Durham, NC



## Round 1 Sample Result Summary

- Above Ground Vapor Survey – No Detections.
- Landfill Gas Screening – Low Level VOCs detected at three screening locations within the WDA.
- Landfill Gas Sampling – NCDEQ Risk Calculator – Does not exceed residential standards.
- Groundwater Sampling – Manganese, Cobalt and Vanadium reported above the NCAC 2L Groundwater Standards.
- Surface Water Sampling – NCDEQ Risk Calculator – Does not exceed recreator standards.
- Sediment Sampling – NCDEQ Risk Calculator – Does not exceed residential standards.

# *City of Durham Parks – Lyon Park*

*Lyon Park (NONCD0000822) – 1101 Cornell St & 1200 W. Lakewood Avenue, Durham, NC*



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# *City of Durham Parks – Lyon Park*

*Lyon Park (NONCD0000822) – 1101 Cornell St & 1200 W. Lakewood Avenue, Durham, NC*



## **Round 1 Sample Result Summary**

- Above Ground Vapor Survey – No Detections.
- Landfill Gas Screening – VOCs detected at two screening locations within the WDA.
- Landfill Gas Sampling – NCDEQ Risk Calculator – Exceeded Hazard Index at one location (LFGP-7).
- Groundwater Sampling – Chromium, Manganese, Cobalt and Vanadium reported above the NCAC2L Groundwater Standards.
- Surface Water Sampling – NCDEQ Risk Calculator – Does not exceed recreator standards.
- Sediment Sampling – NCDEQ Risk Calculator – Does not exceed residential standards.

# *City of Durham Parks – East End Park*

*East End Park (NONCD0000823) – 1200 N. Alston Avenue, Durham, NC*



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# City of Durham Parks – East End Park

East End Park (NONCD0000823) – 1200 N. Alston Avenue, Durham, NC

## Round 1 Sample Result Summary

- Above Ground Vapor Survey – No Detections.
- Landfill Gas Screening – Low Level VOCs detected at ten screening locations, Methane detected at three screening locations (above the LEL of 5%) at one location (LFGP-5) within the WDA.
- Landfill Gas Sampling – NCDEQ Risk Calculator – Does not exceed residential standards, but methane in LFGP-5 >5%.
- Groundwater Sampling – Barium, Ammonia Nitrogen, Nitrate, Manganese, and Cobalt reported above the NCAC2L Groundwater Standards.
- Surface Water Sampling – NCDEQ Risk Calculator – Does not exceed recreator standards.
- Sediment Sampling – NCDEQ Risk Calculator – Does not exceed residential standards.

*City of Durham Parks – Walltown Park*  
*Walltown Park (NONCD0000824) – 1308 W Club Blvd, Durham, NC*



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## **Round 1 Sample Result Summary**

- Above Ground Vapor Survey – No Detections.
- Landfill Gas Screening – Low Level VOCs detected at eight screening locations.
- Landfill Gas Sampling – NCDEQ Risk Calculator – Does not exceed residential standards.
- Groundwater Sampling – Manganese, and Sulfate reported above the NCAC2L Groundwater Standards.
- Surface Water Sampling – NCDEQ Risk Calculator – Does not exceed recreator standards.
- Sediment Sampling – NCDEQ Risk Calculator – Does not exceed residential standards.

# City of Durham Parks – Northgate Park

Northgate Park (NONCD0000825) – 308W. Club Blvd. & 400 W Lavender Avenue, Durham, NC



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# City of Durham Parks – Northgate Park

Northgate Park (NONCD0000825) – 308W. Club Blvd. & 400 W Lavender Avenue, Durham, NC

## Round 1 Sample Result Summary

- Above Ground Vapor Survey – No Detections.
- Landfill Gas Screening – Low Level VOCs detected at one screening location.
- Landfill Gas Sampling – NCDEQ Risk Calculator – Does not exceed residential standards.
- Groundwater Sampling – Manganese and Cobalt reported above the NCAC2L Groundwater Standards.
- Surface Water Sampling – NCDEQ Risk Calculator – Does not exceed recreator standards.
- Sediment Sampling – NCDEQ Risk Calculator – Does not exceed residential standards.

*Thank you*



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