

November 28, 2016

**MEMORANDUM**

**TO:** FILE

**FROM:** Analee Thornburg  
Pre-Regulatory Landfill Unit

**RE:** Bingham Park  
NONCD0000244  
Greensboro, Guilford County

Bingham Park Pre-Regulatory Landfill is composed of 8 parcels owned by the City of Greensboro and Guilford County Board of Education. Analytical results of the highest contaminant concentrations identified in solid media were evaluated using the IHSB Residential Soil Risk Calculator (Version 11/2015). Health risks at the site were evaluated and the results are summarized by parcel group

\*\*Bingham Park is also a neighborhood/city park (Bingham City Park) located between Bingham Street and S. English Street.

Bingham City Park - PIN 7874545922:

The cumulative excess cancer risk was  $1.29 \times 10^{-5}$ , which does not exceed the USEPA and NCDEQ maximum allowable excess cancer risk of  $1 \times 10^{-4}$ . The hazard index for non-carcinogenic risk was  $6.22 \times 10^{-00}$ , which is *greater than* the USEPA and NCDEQ maximum allowable hazard index of 1. This exceedance is due to the presence of lead from 3 – 5 feet below land surface in excess of 10,000 mg/kg in the soil. The depth and locations of lead at these levels were defined in the remedial investigation.

Western Parcel - PIN 7874458011:

The cumulative excess cancer risk was  $8.15 \times 10^{-7}$ , which does not exceed the USEPA and NCDEQ maximum allowable excess cancer risk of  $1 \times 10^{-4}$ . The hazard index for non-carcinogenic risk was  $7.34 \times 10^{-01}$ , which is less than the USEPA and NCDEQ maximum allowable hazard index of 1. Based on these results, there are no unacceptable solid media risks due to the Bingham Park Landfill.

Northern Parcels - PINs 7874554417, 7874559138, 7874559233, 7874559238, and 7874559333:

The cumulative excess cancer risk was  $9.44 \times 10^{-7}$ , which does not exceed the USEPA and NCDEQ maximum allowable excess cancer risk of  $1 \times 10^{-4}$ . The hazard index for non-carcinogenic risk was  $1.43 \times 10^{-01}$ , which is less than the USEPA and NCDEQ maximum allowable hazard index of 1. Based on these results, there are no unacceptable solid media risks due to the Bingham Park Landfill.

Southern and Eastern Parcels - PINs 7874540673, 7874542641, 7874544610, 7874545599, 7874641800 and 7874647410):

The highest levels for all detections in solid media were entered into the IHSB Residential Soil Risk Calculator (version 11/2015). The cumulative excess cancer risk was  $4.05 \times 10^{-6}$ , which does not exceed the USEPA and NCDEQ maximum allowable excess cancer risk of  $1 \times 10^{-4}$ . The hazard index for non-carcinogenic risk was  $3.12 \times 10^{-01}$ , which is less than the USEPA and NCDEQ maximum allowable hazard index of 1. Based on these results, there are no unacceptable solid media risks due to the Bingham Park Landfill.

For all portions of this site, the evaluation of analytical results for soil and sediment meets remedial goals for a containment remedy.