Los Angeles Regional Water Quality Control Board

December 16, 2024

Kate Downey, Environmental Manager
Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342
KDowney@republicservices.com

APPROVAL OF WASTE PLACEMENT IN PART 1 OF CC-5A COMPOSITE LINER AREA - SUNSHINE CANYON LANDFILL, SYLMAR, CALIFORNIA (FILE NO. 58-076, ORDER NO. R4-2008-0088, GEOTRACKER GLOBAL ID L10006014618)

Dear Kate Downey:

The Los Angeles Regional Water Quality Control Board (Los Angeles Water Board) has received the report titled *Phase CC-5A Liner System Construction — Notification of Completion of CC-5A Part 1 Liner System at the Sunshine Canyon City/County Landfill* (Report), which was prepared by Geo-Logic Associates (GLA) for Republic Service (Discharger), dated December 9, 2024. The Report summarizes the construction quality assurance (CQA) services performed by GLA during the construction of the CC-5A, Part 1 composite liner system at the Sunshine Canyon Landfill (Landfill) in Sylmar, California, which is owned and operated by the Discharger. The Discharger requests approval from Los Angeles Water Board staff to begin waste placement operations in the completed Part 1 area (Figure 1), while the construction of Part 2 is ongoing. Refuse placement in the Part 1 area will allow the Discharger to begin operations and prepare liquids/leachate management facilities for Part 1 prior to wet-weather operations.

The Report is submitted to comply with waste discharge requirements (WDRs) Order No. R4-2008-0088, which was adopted by the Regional Water Board for the Landfill on October 2, 2008, and applicable requirements in title 27 of the California Code of Regulations (27 CCR).

The CC-5A, Part 1 composite liner system is approximately 7.7 acres in size, consisting of approximately 5.18 acres of side-slope area and 1.82 acres of floor area, with 4.4 acres of the side-slopes constructed over the closed City South Landfill. The composite liner system consists of the following components (from top to bottom):

Floor
- 2-foot-thick protective soil layer;
- 8 oz/yd2 filter geotextile;
- 1-foot-thick leachate drainage layer (gravel);
- 16 oz/yd2 cushion geotextile;
- 80-mil thick double-sided textured HDPE geomembrane;

- Geosynthetic clay liner (GCL) with bentonite encapsulated between two non-woven geotextiles;
- 60-mil thick double-sided textured HDPE geomembrane;
- 1-foot-thick sand drainage layer;
- 60-mil thick double-sided textured HDPE geomembrane;
- 2-foot-thick secondary clay liner (K < 1 x 10-7 cm/sec);
- Prepared subgrade.

Side Slopes
- 2-foot-thick protective soil layer 10-feet up the slopes;
- 16 oz/yd2 geotextile;
- 80-mil thick double-sided textured HDPE geomembrane;
- Geosynthetic clay liner (GCL);
- 60-mil thick double-sided textured HDPE geomembrane;
- Geocomposite drainage layer material 10-feet up the slopes;
- 60-mil thick double-sided textured HDPE geomembrane;
- Geosynthetic clay liner (GCL);
- 30-mil thick double-sided textured HDPE geomembrane;
- Prepared subgrade.

The CC-5A, Part 1 composite liner design is consistent with the technical design approved by Los Angeles Water Board staff on March 6, 2024 with some notable design or construction changes resulting from encountered field conditions; as follows;
- On March 26, 2024, the Discharger notified Los Angeles Water Board staff that CC-5A liner area was being reduced from 15.5 acres to 13.5 acres. The reduced two acres will be constructed as part of future liner phases.
- On September 4, 2024, the Discharger notified Los Angeles Water Board staff the Bench Liner Anchor Trench (Section L Sheet C13) was being modified to allow the project to be split into two parts.
- On November 26, 2024, the Discharger notified Los Angeles Water Board staff that the CC-3A Part 2 Floor Liner Tie-in (Type 2, Section D Sheet C11) was being modified because the granular drainage and LCRS course gravel layers could not be installed on existing steep slopes.
- On August 27, 2024, the Discharger notified Los Angeles Water Board staff that a section of liner being installed had pulled out of the anchor trench during installation of the secondary liner system over the closed portion of City South Landfill. To place the liner back into the trench, the liner installer had to cut open the liner to complete repairs. Follow-up notification detailing the incident and the proposed methods to re-install the liner were submitted to Los Angeles Water Board staff on September 9, 2024.
- On November 6, 2024, a significant wind storm resulted in damage to the GCL, 60-mil, and 80-mil side slope liner layers that were pulled from the anchor trench. Minor damage to the GCL was repaired by patching the material and re-deploying in areas that pulled out of the anchor trench. Damage to 1 panel of 60-mil geomembrane resulted in partial replacement with the panel cut in half along a vertical line to remove

the damaged area and a new panel tied into the remaining portion of the panel. The 80-mil geomembrane suffered creases which resulted in cracks when the liner installer tried to pull the panels back up the slope. Eight panels of 80-mil geomembrane required completed replacement.

The Report indicates that construction of the CC-5A, Part 1 composite liner system commenced with earthwork on June 10, 2024, and liner placement was substantially completed on December 5, 2024. During the construction of the liner system, including notable design or construction changes resulting from encountered field conditions, GLA provided CQA services on both earthwork and geosynthetic components installation. The earthwork tasks included geologic mapping during mass excavation, and observation and testing for subgrade preparation, clay liner, granular drainage materials, and the protective operations layer. The geosynthetics tasks included installing the high-density polyethylene (HDPE) geomembrane, geosynthetic clay liner (GCL), geocomposite, and geotextile.

Los Angeles Water Board staff has reviewed the Report and, based on the information provided and our observations during site inspections conducted on July 9, 2024, July 17, 2024, October 10, 2024 and November 11, 2024, determined that the CC-5, Part 1 composite liner system at the Landfill meets the requirements in Section D of the WDRs (Requirements for Containment Structures) and Section 20310 et seq. of 27 CCR (Waste Management Construction Standards). Discharge of municipal solid wastes, as defined in Section A of the WDRs (Acceptable Materials), to the Part 1 limits shown in Figure 1 is hereby approved.

If you have any questions, please contact Enrique Casas, Senior Engineering Geologist, Land Disposal Unit, at enrique.casas@waterboards.ca.gov or (213) 620-2299.

Sincerely,

Jenny Newman

Digitally signed by Jenny Newman
Date: 2024.12.16 14:47:17 -08'00'

Jenny Newman

for Susana Arredondo
Executive Officer

Cc:
Dorcus Hanson-Lugo, Sunshine Canyon Landfill LEA (dlugo@ph.lacounty.gov)
David Thompson, Sunshine Canyon Landfill LEA (david.thompson@lacity.org)
Courtney Barrett, Geo-Logic Associates (cbarrett@geo-logic.com)
Wayde Hunter, North Valley Coalition, Granada Hills (WHunter01@aol.com)

Figure 1.