

Appendix K

Hazardous Waste Disposal Documentation (Profiles Provided Separately)

**Appendix K
Hazardous Waste Disposal Documentation
Site 133 East and Site 135, Garfield Avenue Group
PPG, Jersey City, New Jersey**

This appendix includes manifests for hazardous wastes which were removed during excavation of Site 133 East and Site 135 as part of the soil remediation activities being conducted for the Garfield Avenue Group Sites. This appendix also includes manifests for wastes removed during full-scale remedial activities, wastes generated during groundwater treatment system operations, and wastes not directly loaded during excavation activities (i.e., well installation and remedial investigation-related activities that occurred concurrently with remediation).

The majority of the wastes were shipped off site via tri-axle dump trucks and some of these wastes were transferred into rail cars/gondolas at transfer stations for transport to their final destination. In some instances, the accompanying manifests were improperly "corrected" to reflect the total combined weight for the rail car/gondola at the receiving facility. The weights presented in this table are consistent with the initial weights of the dump trucks that left the site, which may not match the final recorded weight on the manifest.

The excavation of these sites occurred concurrently with excavation of other GA Group Sites documented in separate submittals. As such, manifests are included based on the date ranges of excavation as explained below:

- September 2, 2014 through October 10, 2014 - Demolition of Site 133 East buildings. Note that some of the wastes were profiled and shipped offsite after demolition was completed.
- April 21, 2015 through October 22, 2015 - Excavation of the majority of Site 133 East concurrently with grids in Halladay Street South. Due to the concurrent excavation, manifests from Site 133 East and Halladay Street South could not be separated and are included in both Remedial Action Report (RAR) submittals.
- December 31, 2015 through February 26, 2016 - Demolition of the northern Site 135 buildings.
- February 22, 2016 through August 23, 2016 - Excavation of Site 135 North, the majority of Site 135 South, and a portion of the alleyway between Site 133 East and Site 135 South. Note that excavation for remediation of non-Chromate Chemical Production Waste (CCPW) constituents, under the Licensed Site Remediation Professional (LSRP) program, continued between August 23, 2016 and November 7, 2016. For completeness, waste manifests from this time period are also included in this Appendix.
- October 17, 2016 through November 11, 2016 - Demolition of Building 51 on Site 135.
- November 22, 2016 through February 17, 2017 - Excavation within the Building 51 footprint on Site 135.
- July 10, 2017 through August 18, 2017 - Demolition of Al Smith Moving. Portions of the Building 51 foundation on Site 135 were loaded out concurrently with demolition.
- August 16, 2017 through January 8, 2018 - Excavation of Al Smith Moving in conjunction with adjacent grids on Site 133 East and Site 135. During this mobilization, manifests were tracked by site and sets of one to four grids. Only manifests for grids or sets of grids that fall within or straddle Site 133 East or Site 135 grids are included in this Appendix. Some manifests are included in both this submittal and the Al Smith Moving RAR as they represent material from a grid that straddles the Site boundary. Excavation that took place between November 17, 2017 (the last loadout included herein) and January 8, 2018 (the end of the Al Smith Moving mobilization) did not include loadouts from the Site 133 East or Site 135 properties. Loadouts for that date range are included in the Al Smith RAR.

In some instances, the date ranges of the manifests (i.e., in Profiles 3 and 9) fall outside the dates listed above. In these instances, the wastes were generated during the activities but were not shipped until a later date.

Profile Number	Profile Name	Treatment, Storage, and Disposal Facility (TSDf)	Loads	Tons
1	Various Drum Shipments	EQ Detroit, EQ Michigan Disposal, Stablex	8	63.28
2	Chromium-Contaminated Concrete and Debris	EQ Michigan Disposal	38	744.60
3	Resin Block	EQ Detroit	8	138.99
4	Green-Gray Mud	EQ - Envirite PA, EQ Michigan, Stablex	356	8,923.85
5	Chromite Ore Processing Residue	EQ - Envirite PA, EQ Michigan, Stablex	1,756	45,050.55
6	Commingled Soils	Stablex, EnGlobe	9	207.72
7	Lead-Contaminated Soil	EQ Michigan, EQ Michigan Disposal, Stablex, CENJ	347	8,578.62
8	Lead/Chromium-Contaminated Soil	EQ - Envirite PA, EQ Michigan Disposal	3	70.43
9	Groundwater Treatment System Sludge	EQ - Envirite PA	14	202.78
10	Lead-Contaminated EPH Soil	Stablex	12	273.99
11	Mercury-Contaminated Soil	Stablex	139	3,344.40

Total	2,690	67,599.21
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Notes:

- CENJ - Clean Earth of North Jersey TSDf in Kearny, New Jersey
- Englobe - EnGlobe Corp. in Montreal-East, Quebec, Canada. Some material was sent to this facility for heat/pre-treatment prior to disposal at Stablex Canada Inc. in Quebec, Canada.
- EPH - extractable petroleum hydrocarbons
- EQ - Environmental Quality Company
- EQ Detroit - EQ Detroit, Inc. in Detroit, Michigan
- EQ - Envirite PA - EQ Envirite of Pennsylvania, Inc. in York, Pennsylvania
- EQ Michigan - either the EQ Michigan Disposal Waste Treatment Plant in Belleville, MI or the EQ Detroit Inc. facility in Detroit, MI. Refer to manifest scan for facility.
- EQ Michigan Disposal - EQ Michigan Disposal Waste Treatment Plant in Belleville, Michigan
- Stablex - Stablex Canada, Inc. in Blainville, Quebec, Canada
- TSDf - treatment, storage, and disposal facility
- 1. US Ecology purchased EQ in April 2014 and Stablex in November 2015.