

# EXHIBIT E

## Sampling and Analysis Plan

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### A. Sampling and Analysis Plan

1. Submit a project-specific Sampling and Analysis Plan (SAP) for projects involving acquisition and analysis of environmental samples including but not limited to sanitary sewer discharge samples, waste characterization samples, air samples, and site characterization involving soil, groundwater, and soil gas samples requiring laboratory analysis. The SAP shall contain information noted below.
  - a. Project Description – describe site history, data quality objectives (e.g. waste characterization), and any site background or other relevant information related to sampling.
  - b. Project Management – name the project manager(s) in charge of overseeing sampling and analysis performed in this project.
  - c. Sampling Objectives and Locations – detail the location, number, type (e.g. grab or composite), material being sampled (e.g. soil, bead blast, groundwater, air, etc.), and the sampling methods and procedures to be used to obtain the samples. Samples shall be representative of the material being sampled. Where applicable, a site map showing sample locations shall be included in the SAP (e.g. in-site soil sampling).
  - d. Field Sampling Practices – include the field practices to be used for sampling. All field sampling shall comply with appropriate sample method requirements for handling, preservation, and containers. All field sampling shall be documented on a Chain of Custody. Each sample shall have an identifying sample number assigned by the Contractor when the sample is taken. Sample number shall be included on Chain of Custody and in all reports, correspondence, and other documentation related to the sample. Chain of Custody shall also show the name and organization of each person having custody of the sample, and shall also show the sample number, job name and location, time of day and date sample taken, material sampled, and tests to be performed. For projects involving acquisition or sampling conducted under regulatory oversight, Quality Assurance/ Quality Control (QA/QC) samples shall be collected and analyzed. Other field sampling practices used including photography, sample transport plans, and qualifications of the person(s) taking field samples shall also be documented in this section of the SAP.
  - e. Analytical Methods – include the name of the laboratory performing the analysis on the samples. All testing shall be performed by a laboratory that complies with and is certified under ELAP. Analytical methods must be approved for the purpose of the sampling; analysis of wastes shall be conducted according to methods listed in Environmental Protection Agency

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Document SW 846. At a minimum, analytical work, conducted on spent abrasive, paint debris and soil shall include EPA 8080 or equivalent for comparison to STLC and TTLC levels and TCLP testing as warranted; EPA 6010 and 7000 series for 17 metals for comparison to STLC and TTLC levels and TCLP testing as warranted. Specify the level of QA/QC to be requested with each analysis.

- f. Results and Discussion – submit laboratory analysis results of samples taken and analyzed, that include sampling and analytical methods, sample locations, and frequencies. Include the completed Chain of Custody and all QA/QC reports received from the laboratory. For projects with multiple samples and locations, ensure that drawings, maps, photographs, or other descriptions are included in the results reporting that clearly identify what location or material is represented by the sample. Specify any follow-up sampling and/or analysis to be run based on the submitted results and submit results of the follow-up sampling and/or analysis once received.