

Field Sampling Plan/ Quality Assurance Project Plan

Originally submitted September 2000
Revised March 2007

Table of Contents

Volume I of III

Section 1 – Introduction
Section 2 – Project Organization and Responsibilities
Section 3 – Field Sampling/Sample Handling Procedures
Section 4 – Analytical Procedures
Section 5 – Data Quality Objectives and Performance Standards
Section 6 – Laboratory Data Reduction and Reporting
Section 7 – Data Management, Validation, Usability, and Reporting
Section 8 – Performance Audits and Corrective Actions
References

Tables

Figures

Volume II of III – Standard Operating Procedures for Field Based Activities

Appendices

A Soil Sampling Procedures for Analysis of Volatile Organic Compounds (VOCs)
B Soil Sampling Procedures for Analysis of Extractable Petroleum Hydrocarbons (EPH)/
Volatile Petroleum Hydrocarbons (VPH)
C Soil Boring Installation and Soil Sampling Procedures
D Groundwater Purging and Sampling Procedures for Monitoring Wells
E Surface Water Sampling Procedures
F Sediment Sampling Procedures
G Dense Non-Aqueous Phase Liquid (DNAPL)/Light Non-Aqueous Phase Liquid (LNAPL)
Sampling Procedures
H Biota Sampling Procedures
I Soil Gas Sampling Procedures
J Air Monitoring Procedures
K Radioisotope Analysis of Cesium-137 and Beryllium-7 in Sediments
L Handling, Packaging, and Shipping Procedures
M Standard Operating Procedures for Shipment of Department of Transportation Hazardous
Materials
N Photoionization Detector Field Screening Procedures
O Temperature, Turbidity, Specific Conductivity, pH, Oxidation/Reduction Potential, and
Dissolved Oxygen Field Measurement Procedures
P In-Situ Hydraulic Conductivity Test Procedures
Q Water Level/Oil Thickness Measurement Procedures
R Passive Oil Recovery Procedures
S Monitoring Well Installation and Development Procedures
T Magnetometer Survey Procedures

Volume II of III – Standard Operating Procedures for Field Based Activities

Appendices

- U Seismic Refraction Survey Procedures
- V Ground Penetrating Radar (GPR) Procedures
- W Standard Operating Procedures for Equipment Cleaning
- X Building Material Sampling Procedures
- Y Selection of Drilling Method
- Z Monitoring Well Inventory Procedures
- AA Groundwater Sampling Procedures Using Passive-Diffusion Bags
- BB Soil/Water Shake Test Procedures
- CC Basement Sump Sediment/Water Sampling Procedures
- DD Manhole/Catch Basin Sediment/Water/NAPL Sampling Procedures
- EE Electromagnetic Survey Procedures
- FF Test Pit Excavation Procedures
- GG Monitoring Well Decommissioning Procedures
- HH Procedure for Determination of Total Organic Carbon in Solid Samples
- II Vibracore Sediment Collection Procedures
- JJ Pore Water Sample Collection Procedures
- KK Sequential Batch Leach Test Procedures
- LL Seepage Meter Usage Procedures

Volume III of III – Data Validation Procedures and Laboratory Certifications

Validation Annexes

- A Data Validation Procedures for Volatile Organic Compounds (VOCs) and Semi-Volatile Organic Compounds (SVOCs)
- B Data Validation Procedures for Analyses of Polychlorinated Biphenyls (PCBs)/Pesticides and Herbicides in Solid and Liquid Matrices
- C Data Validation Procedures for Inorganic Analytes
- D Data Validation Procedures for Polychlorinated Dibenzo-p-Dioxins (PCDDs)/Polychlorinated Dibenzofurans (PCDFs)
- E Data Validation Procedures for Conventional Parameters Analytes
- F Data Validation Procedures for Air Analyses of Polychlorinated Biphenyls (PCBs)

Attachments

- A Laboratory Qualifications for Northeast Analytical Services, Inc.
- B Laboratory Qualifications for SGS Environmental Services, Inc.
- C Laboratory Qualifications for Columbia Analytical Services, Inc.
- D Laboratory Qualifications for Severn Trent Laboratories, Inc.
- E Laboratory Qualifications for Adirondack Environmental Services
- F Laboratory Qualifications for Lancaster Laboratories
- G Laboratory Qualifications for Pace Analytical Services, Inc.