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Scaffold Erection Operation Week One Data Validation Report

**Week One Sampling Period
4/30/07 to 5/06/07**

**The Remediation and Deconstruction of Fiterman Hall
30 West Broadway
New York, New York**

Prepared By:

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General:

This report provides a summary of the Week One (04-30-07 to 05-06-07) data validation conducted in support of the Scaffold Erection Operation (SEO) of the project being conducted at 30 West Broadway, New York, NY per the approved Environmental Community Air Monitoring Plan (ECAMP) dated March 16, 2007 and the associated Quality Assurance Project Plan (QAPP) dated March 16, 2007.

Per the ECAMP and QAPP, sampling has been conducted for the following parameters:

- Airborne Particulate PM-2.5
- Reference Method for PM-2.5
- Airborne Particulate PM-10
- Reference Method for PM-10
- Asbestos
- Mercury (Vapor and Total)
- Metals
- Silica
- Dioxins/Furans
- PAHs
- PCBs

Project Quality Objectives:

The project quality objectives (POQs) detailed in the QAPP for the project were met in all cases.

QA Reviews:

Data from the SEO Week One has been subjected to the following QA reviews:

Field Technician (Joseph Walsh): 100% of field sampling data and field analysis data have been reviewed and verified by the field technician recording the data. This includes review and signature on the chains-of-custody, and review and signature on the field calibration manual.

Field Sampling Coordinator (designee – Christine Chen): 100% field calibration manual notes, field sampling forms, and COCs reviewed/verified. Sample calibration, collection, handling, preservation, and storage procedures were reviewed for compliance with the protocols described in the QAPP. Deviations were documented and Project QA Officer notified.

Data Manager (designee – Christine Chen): 100% of documentation provided by each analytical laboratory supporting the project reviewed. Deviations are documented, Project QA Officer notified.



Fixed Laboratory QA Review: It is Airtek's belief that 100% of all fixed laboratory data has been subject to internal review as detailed in Section 16.1.3.1 of the QAPP.

Project QA Officer (Clifford Cooper, CIH): 100% evaluation of data and potential usability issues related to deviations and deficiencies documented by staff reviews as detailed in this document.

Project Manager (Benn Lewis): Overall review of field operations, field documentation, field equipment function, fixed laboratory performance, data collection and presentation.

Conclusions:

All deficiencies and irregularities noted during the Background Sampling Phase have been successfully mitigated. Per Section 16.2 of the QAPP, the following data usability parameters have been met:

Precision: No duplicate sample sets resulted in values above the quantitation limits of the methodologies employed. Valid precision values cannot be calculated.

Accuracy: Where applicable, laboratory percent recoveries were within tolerance per the QAPP.

Sensitivity and Quantitation Limits: Sensitivity and Quantitation targets for all analytes were met.

Completeness:

Both Field Data and Lab Data are 100% complete for the sampling period.

Contaminant-Specific Narratives:

Airborne Particulate PM-2.5:

PM-2.5 particulate sampling was conducted using six Met-One EBAM monitors, one at each of the community monitoring stations designated by the ECAMP/QAPP. All six monitors were calibrated prior to Week One of the SEO. Data collected as ten-minute averages are attached. A summary sheet providing EBAM PM-2.5 24-hour averages is included in the attached Scaffold Phase Week One Data Summary. Based on review of the data to date, it has been determined that application of a correction factor is not necessary at this time.

Reference Method for PM-2.5:

A Rupprecht & Patashnick TEOM PM-2.5 monitor was collocated with the EBAM PM-2.5 monitor at Sampling Station #1 (NW Sidewalk Bridge) and operated for SEO Week One to comply with the ECAMP/QAPP requirement for an EPA reference method for EBAM data. TEOM PM-2.5 data collected as thirty-



minute averages is attached (TEOM PM-2.5 data April 30th to May 6th, 2007). A summary sheet providing TEOM PM-2.5 24-hour averages is included in the attached Scaffold Phase Week One Data Summary.

Airborne Particulate PM-10:

PM-10 particulate sampling was conducted using six Met-One EBAM monitors, one at each of the community monitoring stations designated by the ECAMP/QAPP. All six monitors were calibrated prior to Week One of the SEO. Data collected as ten-minute averages are attached. A summary sheet providing PM-10 24-hour averages is included in the attached Scaffold Phase Week One Data Summary. Based on review of the data to date, it has been determined that application of a correction factor is not necessary at this time.

Reference Method for PM-10:

A Rupprecht & Patashnick TEOM PM-10 monitor was collocated with the EBAM PM-10 monitor at Sampling Station #2 (Sidewalk Bridge Level SW Corner) and operated for the SEO Week One to comply with the ECAMP/QAPP requirement for an EA reference method for EBAM data. TEOM PM 10 data collected as 30-minute averages is attached (TEOM PM-10 data April 30th to May 6th, 2007). A summary sheet providing TEOM PM-10 24-hour averages is included in the attached Scaffold Phase Week One Data Summary.

Asbestos:

Asbestos air samples were collected as provided for in the ECAMP/QAPP. All samples were delivered in good condition to the contract Laboratory (EMSL). Analyses were conducted by TEM (AHERA) and PCMe methodologies. Field blanks are analyzed and reported only in the case where asbestos is detected in the field samples for the subject time period. No asbestos was detected during Week One of the SEO; no field blanks were analyzed or reported. Method blanks were provided by the laboratory as required by the methodology. A summary of all asbestos data is included in the attached Scaffold Phase Week One Data Summary.

Mercury:

Per the ECAMP/QAPP, monitoring was conducted for both mercury vapor and mercury particulate (total) throughout Week One of the SEO.

Mercury Vapor: Mercury Vapor was monitored per the ECAMP/QAPP with an Ohio Lumex RA 915+ real-time monitor. A summary of the data recorded in the field is included in the attached Scaffold Phase Week One Data Summary.



Particulate Mercury: Particulate mercury was monitored by the use of Iodated Carbon Traps (ICT). Per the ECAMP/QAPP, one “Spike” sample was run during Week One of the SEO.

Metals:

Metals sample collection was conducted in accordance with the ECAMP/QAPP. All samples were received in good condition at Severn Trent Laboratories. All Lab QA criteria were met. No further qualification of data was required. A summary of the data recorded in the field is included in the attached Scaffold Phase Week One Data Summary. Copies of the laboratory data packages are attached.

Silica:

Silica air sample collection was conducted in accordance with the ECAMP/QAPP. All samples were received in good condition at EMSL Laboratories. All Lab QA criteria were met. No further qualification of data was required. A summary of the data recorded in the field is included in the attached Scaffold Phase Week One Data Summary. Copies of the laboratory data packages are attached.

Notes:

1. Sample # FH-050407-30 has an original lab result of 10 ug/m³. QC result on this sample is 8.0 ug/m³. As method variation is 2.2 ug/m³, original result was reported.

Organics:

Per the ECAMP/QAPP, samples were collected on 05-06-07 for Dioxin/Furans, PAHs, and PCBs. All samples were received in good condition at Severn Trent Laboratories. All Lab QA criteria were met. No further qualification of data was required. A summary of the data recorded in the field is included in the attached Background Data Summary. Copies of the laboratory data packages are attached.