

# QAPP AMENDMENT FORM: Amendment # 11

DATE FORM SUBMITTED: 05/04/10

**QAPP Title**                    **Quality Assurance Project Plan for the Ambient Air Monitoring Program**  
**130 Liberty Street Deconstruction Project**  
**September 7, 2005**

## AMENDMENT #11

This Amendment describes air monitoring activities that will take place during deconstruction activities and other activities that remain at 130 Liberty Street. This amendment assumes that remnant fireproofing on floors 15-6 and 3-Basement A will be removed concurrently with the deconstruction of each floor. Currently there are eight (8) stations, including four (4) ground-level and four (4) off-site roof-level stations operating in accordance with the Ambient Air Monitoring Plan dated September 7, 2005. The abatement phase has been completed and deconstruction is in progress. Regulators will be notified via email at least 24 hours prior to each upgrading transition and at least 48 hours prior to each downgrading transition of the monitoring network. This amendment supersedes QAPP Amendment #8 dated October 8, 2009, as far as adjusting the air monitoring frequency based upon actual remnant fireproofing removal work activities and clarifies the procedure for notification to regulators regarding any transition of the monitoring network.

### **From the 17<sup>th</sup> floor through the 16<sup>th</sup> and the 5<sup>th</sup> floor through the 4<sup>th</sup> floor and Basement B:**

During continued deconstruction, eight (8) stations (unless amended at a later date), including four (4) ground-level and four (4) off-site roof-level stations, will monitor for silica and PM<sub>10</sub> continuously on a daily basis. In the event that “pockets of contamination” are identified (i.e., sources of Contaminants of Potential Concern [COPCs] are newly discovered) as per Section V.D.25 of the May 14, 2009 Implementation Plan, deconstruction work will cease in the immediate area and all stations will immediately commence daily sampling for asbestos and metals (excluding mercury) in addition to silica and PM<sub>10</sub> and weekly sampling for PAHs and PCDDs/PCDFs in accordance with the Ambient Air Monitoring Plan dated September 7, 2005 (analysis will be performed only on the sample collected at the one station with the highest PM<sub>10</sub> measurement, as a 24-hour average) prior to the commencement of cleanup work. These monitoring activities will continue until the cleanup work has been completed. A site-specific variance reopening request and implementation plan amendment shall be submitted to address appropriate procedures for this potential cleanup scenario, including the scope and extent of any necessary work stoppage.

### **From the 15<sup>th</sup> floor through the 6<sup>th</sup> floor and from the 3<sup>rd</sup> floor through Basement A:**

Eight (8) stations (unless amended at a later date), including four (4) ground-level and four (4) off-site roof-level stations will continuously monitor for silica, asbestos, PM<sub>10</sub>, and metals (excluding mercury). Sampling will be performed for PAHs and PCDDs/PCDFs once per week in accordance with the Ambient Air Monitoring Plan dated September 7, 2005 and analysis will be performed only on the sample collected at the one station with the highest PM<sub>10</sub> measurement, as a 24-hour average. The use of the highest PM<sub>10</sub> measurement as the basis for sample selection is consistent with the approach contained in the September 7, 2005 Air Monitoring Plan. These monitoring activities will be in place from before the first impact of a given stair enclosure until all sheetrock, fireproofing and steel with remnant

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fireproofing have been removed from that stair enclosure, even on days when no work activities are occurring. Upon completion of the removal of the sheetrock, fireproofing and steel with remnant fireproofing for a given stair enclosure, TRC will conduct a visual inspection to verify that all sheetrock and fireproofing have been removed. Following a successful TRC visual inspection, TRC will notify the regulators and then downgrade monitoring activities to monitor only for silica and PM<sub>10</sub> continuously on a daily basis. Deconstruction will be occurring on one floor at a time (stairwell deconstruction will be sequenced with deconstruction of the floor itself) and will continue downward during deconstruction of the building.

TRC will notify regulators via email prior to any transitioning of the monitoring network. Regulators will be notified at least 24 hours prior to an upgrade in monitoring due to remnant fireproofing removal work activities resuming on site. Regulators will again be notified at least 48 hours prior to a downgrade in monitoring once remnant fireproofing removal work activities are completed on a given stair enclosure. Any downgrading of the monitoring network will occur at the end of the 24-hour monitoring period. In the event that a weekly sampling session is in progress for PAHs and PCDDs/PCDFs, the session will resume immediately upon resumption of remnant fireproofing removal work activities (e.g. – if four (4) days of a planned seven (7) day weekly session is completed, the remaining three (3) days of the session will resume concurrent with resumption of remnant fireproofing removal work activities).

### Reason for Amendment:

The original September 7, 2005 Ambient Air Monitoring Program Plan identified target compounds or COPCs on the basis of their association with contaminated materials (e.g., WTC dusts, 130 Liberty Street building materials, etc) to be handled and removed from the building during the abatement phase of the program. These COPCs included silica, asbestos, mercury, metals, PCDDs/PCDFs, PAHs, PCBs, PM<sub>2.5</sub> and PM<sub>10</sub>. QAPP Amendment #8 modified the target compound or COPC list for use during the remaining phases of deconstruction monitoring as well as reduced the number of monitoring stations in operation. This Amendment serves to adjust air monitoring frequency based upon actual remnant fireproofing removal work activities and clarifies the procedure for notification to regulators regarding any transition of the monitoring network.

Since fireproofing is still present on the stairwell included in floors 15-6 and 3-basement A, sampling will be upgraded during the active deconstruction of this area to monitor daily for the metals (excluding mercury) and asbestos in addition to PM<sub>10</sub> and silica and once per week for PAHs and PCDDs/PCDFs, since the fireproofing material may contain these COPCs. Sampling will be downgraded to monitor daily for PM<sub>10</sub> and silica once clean up of the affected stair enclosure is completed.

### Sections of QAPP Affected:

Section 7.1.1 (Sampling Tasks: Phase II – Structural Deconstruction): This section will be revised to reflect the change in target parameters and stations being monitored for the remainder of the deconstruction activities based on the above discussions.

Table 7-1c (Phase II – Structural Deconstruction): This table will be revised to reflect the change in target parameters and stations being monitored for the remainder of the deconstruction activities based on the above discussions.

Table 7-3 (Phase II – Structural Deconstruction Phase Sampling and Analysis Summary): This table will be revised to reflect the change in target parameters and stations being monitored for the remainder of the

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deconstruction activities based on the above discussions.

Section 7.1.2 (Analytical Tasks): This section will be revised to reflect the change in target parameters being monitored for the remainder of the deconstruction activities based on the above discussions.

**Date Implemented:** May 2010