

EPA & NYC Indoor Air Program Activities & Costs

(6/10/02)

1. Hotline

Activities	Description	Lead	Costs (\$)		Comments
Establishing Hotline	Acquire contractor services for hotline. Includes setup, management, handling calls, and distribution of materials.	NYC EPA	560,500	NYC	Estimate based on 490,000 minutes of call time, and distributing materials to 3,000 callers. ✓
Creating Database	Development of database to support hotline and to house analytical data. Used in program to manage information received through the hotline and website. + Doitt	EPA Int.	400,000 475,000 \$900,000	EPA ?	
Web-hosting	Establishment of mechanism for residents to contact the hotline through the Internet. Used to share time sensitive information regarding the indoor air program.	EPA	100,000	EPA	
Community Relations	Conducting outreach efforts and developing information regarding the hotline and indoor air program. Includes printing, advertising, graphics, direct mail, and translation services	EPA	75,000	EPA	NYC's lower Manhattan Communications Plan does not provide for these activities. (See next item.)

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① EPA to get back to EPA Tues.

Disseminating Information Regarding Lower Manhattan.	Lower Manhattan Communications Plan. Strategy for providing information on various issues such as air quality, environment, transportation, business incentives, security, memorials, events on an ongoing basis through various means.	NYC	500,000	EPA will work with NYC to coordinate distribution of materials on air quality and the environment, but this effort does not duplicate EPA's community relations proposal.
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2. Monitoring & Scheduling

Activities	Description	Lead	Costs (\$)	Comments
Scheduling/Coordinating	Scheduling of cleaning and testing by contractor services.	NYC	Clean & Test = 1,350,000 Test only = 300,000 TOTAL = 1,650,000	Estimate based on these # of units: Scope A =15,000 Scope B = 500 Test only = 5,000
Asbestos Air Sampling	Collecting post-cleaning air samples from 15,500 units (cleaning & testing) and collecting samples from 5,000 units (testing only), by contractor services.	NYC	15,500 units = 6,000,000* 5,000 units = 2,000,000 (*may include costs of analysis) TOTAL = 8,000,000	NEED TO CHECK IF COSTS INCLUDE ANALYSES

Analyzing Asbestos Samples	Analyzing post-cleaning samples for all units, conducted by contractor services.	EPA	Estimate based on ^{20,555} 21,855 units. <i>clean + other</i> 12,020,200 <i>tested</i>	NEEDS RECONCILIATION BY EPA Estimate based on higher number of units than cleaning estimate being used by NYC.
Validating Asbestos Sample Data	Validating analyses data of post-cleaning samples, conducted by contractor services.	EPA	2,404,040	NEEDS RECONCILIATION BY EPA
Metals Dust Sampling	Collecting wipe samples for metals pre- and post-cleaning at 5% of the units (not to exceed 50 units /quadrant for a total of 200 units), conducted by contractor services.	NYC	Estimated based on 20/wipe, 6 wipes/unit + 10% QA. 26,400	NEED TO CONFIRM ESTIMATE FOR COLLECTION OF WIPE SAMPLES
Analyzing Metals Samples	Analyzing wipe samples for metals pre- and post-cleaning at 5% of the units (not to exceed 50 units /quadrant for a total of 200 units) conducted by contractor services.	EPA	396,000	
Validating Metals Sample Data	Validating analyses data of pre- and post-cleaning samples by contractor services	EPA	52,800	

Shipping of Samples	Shipping of samples to lab. Includes samples for cleaning & testing units and testing only units, conducted by contractor services.	NYC	15,500 units = 30,000 5,000 units = 10,000 TOTAL \$ 40,000	NEED TO INCREASE ESTIMATE FOR METALS WORK
Supervising Sampling	Supervising air sampling, conducted by contractor services.	NYC	Estimate based on 1 hour/ unit. 400,000	
Personal Monitoring of Workers	Monitoring of workers for 4-6 weeks and then randomly throughout effort. Monitoring will occur according to OSHA standards, to be performed during cleaning by cleaning contractors.	NYC		NYC NEEDS TO ADD. NEED ESTIMATE OF # OF SAMPLES AND COSTS Sample analyses will also be handled by cleaning contractors.
Data/Risk Assessment	Evaluation/follow-up with the NY Academy of Medicine (NYAM). EPA data assessment activities.	EPA	NYAM travel = 6,000	EPA's costs already represented in staff estimates.
Database	Maintain database for data assessments, public info, report preparation	EPA	No additional costs beyond creating the hotline database.	POSSIBLY ADD COSTS FOR EPA CONTRACTOR?
Reports	Compile, review, evaluate info collected and prepare summaries	EPA	No additional costs.	EPA's costs already represented in staff estimates.

3. Cleaning and Oversight

Activities	Description	Lead	Costs (\$)	Comments
Asbestos Abatement Cleaning	Cleaning by contractor services of minimal dust accumulations. (Scope A)	NYC	Estimate based on 15,000 units to be cleaned. studio = 2,250,000 1 BR = 10,500,000 2 BR = 30,000,000 3 BR = 13,500,000 4 BR = 3,750,000 TOTAL = 60,000,000	DO WE NEED TO INCLUDE ANY ADDITIONAL FUNDS FOR COMMON AREAS?
Asbestos Abatement Cleaning	Cleaning by contractor services of significant dust accumulations. (Scope B)	NYC	Estimate based on 500,units to be cleaned. studio = 115,000 1 BR = 530,000 2 BR = 1,500,000 3 BR = 570,000 4 BR = 175,000 TOTAL = 2,990,000	

Supervising of Cleaning by Contractor Conducting the Cleaning	On-site supervision conducted by contractor	NYC	Estimate based on 15,500 units. studio = 180,000 1 BR = 960,000 2 BR = 2,400,000 3 BR = 960,000 4 BR = 240,000 TOTAL = 4,740,000	
Oversight of Cleaning on a Building Basis by Monitoring Contractor	Monitoring contractor on-site at every building during cleaning.	NYC		NYC NEEDS ADDITION TO ESTIMATE FOR MONITORING CONTRACTOR ESTIMATE
Oversight by EPA of Cleaning and Monitoring Effort	EPA's program oversight.	EPA	EPA's salary costs = 2,953,607 EPA's travel costs = 314,200 TOTAL = 3,267,807	

EPA Oversight of Cleaning and Monitoring Effort (Equipment & Supplies)	EPA needs computers, docking stations, printers, digital cameras, camcorders, tripods, phones, car rentals, personal protective equipment.	EPA	laptops = 7,000 desktops = 3,000 docks = 2,370 printers = 1,000 digital cameras = 5,730 camcorders = 4,584 tripods = 600 phones = 11,700 car rentals = 12,800 PPE = 408,240 TOTAL = 457,000	Equipment needed to support the unit within EPA that is implementing the indoor air program. NEED TO DECIDE IF WE WANT TO SAY MORE HERE
Removal Support Team Contractor	Contractor support to assist EPA in its program oversight.	EPA	Contractor's salary = 1,596,672 Travel per diem + lodging = 512,064 TOTAL = 2,108,736	Contingency for additional oversight if needed.
US Coast Guard	USCG support to assist EPA in its program oversight.	EPA	USCG's salary = 2,419,200 Travel per diem + lodging = 1,280,160 TOTAL = 3,699,360	
Evaluating Circulating Ventilation Systems	Evaluation of circulating ventilation systems by monitoring contractor to determine if they have been impacted by WTC debris.	NYC		NYC NEEDS TO ADD. NEED ESTIMATE OF # OF SYSTEMS AND COST PER SYSTEM

Cleaning of Circulating Ventilation Systems.	Cleaning of systems identified by monitoring contractor as requiring cleaning. Will be performed by contractor obtained by monitoring contractor services.	NYC		NYC NEEDS TO ADD. NEED ESTIMATE OF # OF SYSTEMS AND COST PER SYSTEM
Evaluating Units and Buildings for Mold Contamination	Evaluating units and buildings for mold contamination by contractor services obtained by monitoring contractor.	NYC		NYC NEEDS TO ADD. NEED ESTIMATE OF # OF SYSTEMS AND COST PER SYSTEM

4. Background

Activities	Description	Lead	Costs (\$)	Comments
Obtaining Access	Obtaining access to units	EPA		
Sampling	Collecting additional samples at 4 buildings previously sampled by ATSDR & at 10 buildings, as determined by EPA, for total dust and 7 COPCs: dioxins, lead, PAHs, ceramic fibers, fibrous glass, asbestos, silica	EPA	145,600	
Equipment	Sampling and photo documentation equipment	EPA	130,000	
Analyzing Samples	Analyzing of samples will be conducted by labs under contract with EPA HQ's	EPA	705,300	
Validating Sample Data	Validating analyses data of samples, conducted by specialized QA contractor	EPA	58,800	

EPA Oversight of Monitoring Effort	EPA's program oversight	EPA	EPA's salary costs = 291,875 EPA's travel costs = 10,000 TOTAL = 301,875	Work will include data review and report writing
ATSDR	ATSDR support to assist EPA in its program oversight	EPA	372,000	
Peer Review Contractor	Contractor support to assist EPA in its program oversight	EPA	75,000	

5. Pilot

Activities	Description	Lead	Costs (\$)	Comments
Obtaining Access	Work with NYC Office of Emergency Management to select building in which residents have not been able to reside since 9/11	EPA		
Sampling/Removal Support Team Contractor	Pre-, post- and during cleaning sampling to be performed for 7 COPCs: asbestos, dioxins, PAHs, lead, silica, fibrous glass, refractive ceramic glass, by contractor	EPA	462,000	
Equipment	Sampling and photo documentation equipment	EPA	130,000	
Analyzing Samples	Analyzing of samples by labs	EPA	Estimate based on 5,000 samples (approximately 200 samples/unit x 24 units) 2,512,000	
Cleaning/Emergency Response Services Contractor	Cleaning by contractor of 7 COPCs	EPA	790,500	

EPA Oversight of Monitoring and Cleaning Effort	EPA's program oversight	EPA	EPA's salary costs = 462,245 EPA's travel costs = 32,766 TOTAL = 495,011	
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