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Subject: EPA/NYC Matrix



wtcFEMAmatrix3.wpd

Brad and Paul - attached is a matrix of the EPA and NYC indoor air activities. We still need to fill in some of the cost estimates but believe we have captured all of the activities. We would like to discuss this with you as soon as possible. Please let us know if you require any additional information. Thank you.

(See attached file: wtcFEMAmatrix3.wpd)

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EPA & NYC Indoor Air Program Activities & Costs

(6/11/02)

1. Hotline

Activities	Description	Prog. Lead	Fund. Lead	Costs	Comments
Establishing Hotline	Acquire contractor services for hotline. Includes setup, management, handling calls, and distribution of materials.	EPA	NYC	\$560,500	Estimate based on 490,000 minutes of call time, and distributing materials to 3,000 callers.
Creating Hotline Database	Development of database to support hotline and to house analytical data. Used in program to manage information received through the hotline and website.	EPA	EPA	\$475,000	EPA NEEDS TO ADD \$75,000
Building Status Database	Dewitt Database. Development of database that houses environmental information for all buildings within lower Manhattan	NYC	NYC	\$500,000	EPA will link its database to NYC's. Application pending with FEMA.
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	EPA	\$100,000	
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	EPA	\$75,000	NYC's Lower Manhattan Communications Plan does not provide for these activities. (See next item.)



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Disseminating Information Regarding Lower Manhattan.	Lower Manhattan Communications Plan. Development of 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	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	Prog. Lead	Fund. Lead	Costs	Comments
Air Monitoring Contract (Scheduling/ Coordinating)	Scheduling of cleaning and testing by contractor services.	EPA	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



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Air Monitoring Contract (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.	EPA	NYC	15,500 units = \$6,000,000 5,000 units = \$2,000,000 TOTAL = \$8,000,000	NYC NEEDS TO ADD. NEED ESTIMATE FOR SAMPLING COMMON AREAS
Analyzing Asbestos Samples	Analyzing post-cleaning samples for all units, conducted by contractor services.	EPA	EPA	Estimate based on appmx. 20,500 units being cleaned & tested and tested only \$12,000,000	EPA NEEDS TO ADD ANALYTICAL COSTS FOR COMMON SPACES BASED ON NYC SAMPLE # ESTIMATE (ABOVE)
Validating Asbestos Sample Data	Validating analyses data of post-cleaning samples, conducted by contractor services.	EPA	EPA	\$2,404,040	EPA NEEDS TO ADD. BASED ON NYC SAMPLE # ESTIMATE (ABOVE), NEED ANALYTICAL COSTS FOR COMMON SPACES



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Air Monitoring Contract (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.	EPA	NYC	Estimated based on 20/wipe, 6 wipes/unit + 10% QA. \$26,400	
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	EPA	\$396,000	
Validating Metals Sample Data	Validating analyses data of pre- and post-cleaning samples by contractor services	EPA	EPA	\$52,800	
Air monitoring Contract (Shipping of Samples)	Shipping of samples to lab. Includes samples for cleaning & testing units and testing only units, conducted by contractor services.	EPA	NYC	15,500 units = \$30,000 5,000 units = \$10,000 TOTAL = \$40,000	NEED TO INCREASE ESTIMATE FOR METALS WORK
Air Monitoring Contract (Supervising Sampling)	Supervising air sampling, conducted by contractor services.	EPA	NYC	Estimate based on 1 hour/ unit. \$400,000	



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Air Monitoring Contract (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.	EPA	NYC		NYC NEEDS TO ADD. NEED ESTIMATE OF # OF SAMPLES AND COSTS Sample analyses will also be handled by cleaning contractors.
Oversight by OSHA	OSHA will provide oversight to ensure worker protection	EPA	EPA	Estimate based on 5 OSHA employees assigned to the project \$200,000	FUNDS WILL NEED TO BE PROVIDED TO OSHA
Air Monitoring Contract (Evaluating Circulating Ventilation Systems)	Evaluation of circulating ventilation systems by monitoring contractor to determine if they have been impacted by WTC debris.	EPA	NYC		NYC NEEDS TO ADD. NEED ESTIMATE OF # OF SYSTEMS AND COST PER SYSTEM
Air Monitoring Contract (Oversight of Cleaning on a Building Basis by Monitoring Contractor)	Monitoring contractor on-site at every building during cleaning.	EPA	NYC		NYC NEEDS TO ADD. ESTIMATE FOR MONITORING CONTRACTOR TO BE AT EVERY BUILDING
Data/Risk Assessment	Evaluation/follow-up with the NY Academy of Medicine (NYAM). EPA data assessment activities.	EPA	EPA	NYAM travel = \$6,000	EPA's costs already represented in staff estimates.



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Database	Maintain database for data assessments, public info, report preparation	EPA	EPA		EPA NEEDS TO ADD.
Reports	Compile, review, evaluate info collected and prepare summaries	EPA	EPA	No additional costs.	EPA's costs already represented in staff estimates.

3. Cleaning and Oversight

Activities	Description	Prog. Lead	Fund. Lead	Costs	Comments
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Cleaning Contract (Asbestos Abatement Cleaning)	Cleaning by contractor services of minimal dust accumulations. (Scope A)	EPA	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	
Cleaning Contract (Asbestos Abatement Cleaning)	Cleaning by contractor services of significant dust accumulations. (Scope B)	EPA	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	
Cleaning Contract (Asbestos Abatement Cleaning)	Cleaning by contractor services of common areas	EPA	NYC		NYC NEEDS TO ADD. NEED ESTIMATE FOR COMMON SPACES



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Cleaning Contract (Supervising of Cleaning by Contractor Conducting the Cleaning)	On-site supervision conducted by contractor	EPA	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 by EPA of Cleaning and Monitoring Effort	EPA's program oversight.	EPA	EPA	EPA's salary costs = \$2,953,607 EPA's travel costs = \$314,200 TOTAL = \$3,267,807	



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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	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. PPE is the primary cost factor in this item.
Removal Support Team Contractor	Contractor support to assist EPA in its program oversight.	EPA	EPA	Contractor's salary = \$1,596,672 Travel per diem + lodging = \$512,064 TOTAL = \$2,108,736	Contingency for additional oversight if needed.



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US Coast Guard	USCG support to assist EPA in its program oversight.	EPA	EPA	USCG's salary = \$2,419,200 Travel per diem + lodging = \$1,280,160 TOTAL = \$3,699,360	
Cleaning Contract (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.	EPA	NYC		NYC NEEDS TO ADD. NEED ESTIMATE OF # OF SYSTEMS AND COST PER SYSTEM
NYCDOH???? Evaluating Units and Buildings for Mold Contamination	Evaluating units and buildings for mold contamination by contractor services obtained by monitoring contractor.	NYC ?	NYC		NYC NEEDS TO ADD. NEED ESTIMATE OF # OF SYSTEMS AND COST PER SYSTEM. NYC NEEDS TO DETERMINE IF NYCDOH WILL BE CONDUCTING THIS.
Cleaning Contract (Cleaning Mold Contamination)		NYC ?	NYC		



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Cleaning of Unoccupied Buildings		NYC	NYC	\$6-10,000,000/bldg	NYC NEEDS TO ADD. NEED ESTIMATE OF # OF BUILDINGS
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4. Background (LAG Completed)

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	



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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	



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5. Pilot (IAG Completed)

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	



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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	

6. Building Exterior (Funding Approved)

Activities	Description	Lead	Costs
Cleaning of Building Exteriors	NYC is cleaning roofs and terraces of buildings in lower Manhattan that contain WTC-related debris	NYC	\$10,000,000



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