

Revised 4/12/01

**Meeting Minutes
EPA Indoor Air Working Group Meeting
290 Broadway, RM 2829
April 4, 2002**

Attendees: Kathy Callahan, EPA Region 2
Dore LaPosta, EPA Region 2
Berry Shore, EPA Region 2
Jean Feola, EPA Region 2
Mark Maddaloni, EPA Region 2
Carol Lynes, EPA Region 2
Dick Salkie, EPA-ORD
Arthur Block, ATSDR-Region 2
Barbara Cooper, ATSDR-Region 2
Carl Johnson, NYSDEC
Robert Chinery, NYSDOH
Jim Miller, NYCDOH
Nancy Jeffery, NYCDOH
Jessica Leighton, NYCDOH
Jeanine Prudhomme, NYCDOH
Sylvia Pryce, NYCDCAS
Andrew Prashad, NYCDCAS
Michael Gilsenan, NYCDEP
Krish Radhakrishnan, NYCDEP
Robert Garvey, OSHA

Via Telephone: Dana Tulis, EPA-HQ/OERR
Terry Smith, EPA-HQ/OERR
Elissa Feldman, EPA
Audry Galizia, EPA
John Schaum, EPA-ORD
Sven Rodenbeck, ATSDR
Bob Williams, ATSDR
Danielle Devoney, ATSDR

Items discussed:

1. Status of Development of FEMA Scopes
 - ATSDR/NYCDOH/EPA follow-up effort (see attachment)
 - Responsibilities still need to be worked out for each activity.
 - The primary purpose of this effort is to ensure clean-up level and to close-out the report.
 - Although elevated levels of fibrous glass have been detected, there is not enough information available. Therefore, the concentration is on asbestos.

- Uniform guidance has been given to everyone to continue cleaning.
- The re-sampling protocol should be the same as that used during the initial sampling.
- New York City's role in this study will be worked out today after this meeting.
- Background Study
 - Percent volume data will also be collected. The additional data would be useful for all COC.
 - EPA contractors will be used for sample collection and analysis.
 - EPA anticipates that three to six months will be needed to complete both phases of this effort.
- EPA Cleaning Protocol Effort
 - The protocol will be to clean different apartments at different levels. The preliminary protocol will be available by April 5th.
 - On first cut, 66 samples per apartment would be needed for analysis. This number will be cut back.
 - Cleaning activities are still being performed which may not leave any uncleaned buildings for this study. If so, should consider going into apartments not yet re-occupied since 9/11.
 - A building located at 30 West Broadway may still be uncleaned and should be used in the study.
 - HVAC-equipped buildings should be analyzed but if not possible now, a follow-up study would be performed.

**** A time line and critical path should be established for all of the studies.**

2. Exterior Cleaning Update - NYCDEP

- The exterior cleaning pre-bidders' conference was held on April 3rd. Bids are due on April 10th and 11th. NYCDEP anticipates the work starting one week after award.
- The air monitoring contract has been awarded.
- The exit strategy will be based upon visual inspection.
- NYCDEP would like involved agencies to visit the sites during clean-up.
- The clean-up effort will not end with the initial buildings. From Pearl Street to the river and other building not previously inspected will be included in the clean-up effort if needed.
- Clean-up of buildings in Brooklyn will be performed as requested by owners and residents.

3. Chemicals of Concern

- To date, the COC list remains unchanged.
- The workgroup has not reached consensus on the approach to lead and PAHs.
- Background data is still a concern.
- The approach to the building materials in settled dust still needs to be worked out.
- There is insufficient data available for dioxin.
- A qualitative approach would be used for mold. Mold could be a secondary

problem.

- The final list of CNOCs (contaminants not of concern) will be provided by April 8th. The decisions are based upon ambient air data.
 - Benzene levels have been decreasing since the fires have been out.
 - No PCBs have been detected above screening levels.
 - Chromium levels are below screening levels
 - Mercury was not detected and was found in parts per trillion in dust samples.
 - There is not enough data available for PBDE.
 - PM2.5 and PM10 will be added for deletion.
 - A scheme needs to be worked out to include PH determinations.
4. Preparation for Task Force Meeting on Monday April 8th
- The meeting will concentrate on COC and Mark Maddaloni will do a presentation on them.

Next meeting: April 11th at 10:00 AM - 12:00 PM @ 290 Broadway.

Maldonado, Jane

From: Maltais.Nancy@epamail.epa.gov
Sent: Monday, March 25, 2002 9:23 AM
To: dianac@dep.nyc.gov; cxjohnso@gw.dec.state.ny.us; njeffery@health.nyc.gov; jleight@health.nyc.gov; rjt03@health.state.ny.us; nkk01@health.state.ny.us; reed.larry@epamail.epa.gov; grevatt.peter@epamail.epa.gov; tulis.dana@epamail.epa.gov; rcw1@cdc.gov; svr1@cdc.gov; marianne.jackson@fema.gov; cervantes.mary@epamail.epa.gov; habib.nina@epamail.epa.gov; basso.ray@epamail.epa.gov; pavlou.george@epamail.epa.gov; maddaloni.mark@epamail.epa.gov; callahan.kathy@epamail.epa.gov; laposta.dore@epamail.epa.gov; jprudhom@health.nyc.gov; michaelgi@dep.nyc.gov; kmckinne@health.nyc.gov; lilan@cityhall.nyc.gov; sbenson@oem.nyc.gov; rlc07@health.state.ny.us; sxj6@cdc.gov; axb9@cdc.gov; robert.tranter@fema.gov; fitzpatrick.robert@epamail.epa.gov; kruger.mary@epamail.epa.gov; david.ippolito@osha.gov; garvey-robert@dol.gov; giardina.paul@epamail.epa.gov; girman.john@epamail.epa.gov; smith.terry@epamail.epa.gov; debonis.michael@epamail.epa.gov; jmiller@health.nyc.gov; gibb.herman@epamail.epa.gov; salkie.richard@epamail.epa.gov; rotola.joe@epamail.epa.gov
Cc: mmm03@health.state.ny.us; sapetron@gw.dec.state.ny.us; cruz.auria@epamail.epa.gov; debonis.michael@epamail.epa.gov; stradford.virginia@epamail.epa.gov; amo03@health.state.ny.us; rsierra1@health.nyc.gov; kushner.burton@epamail.epa.gov; garvey-robert@dol.gov; nellie@dep.nyc.gov; janem@dep.nyc.gov; valejandro@health.nyc.gov; ln1@cdc.gov; lxlucca@gw.dec.state.ny.us; amo03@health.state.ny.us; mprice@health.nyc.gov; higgins.john@epamail.epa.gov; sprague.bruce@epamail.epa.gov
Subject: IAWG Meeting 3/28

This is to inform you that there will be an Indoor Air WORKING GROUP meeting on Thursday, March 28th.

The meeting will take place at EPA's offices at 290 Broadway, New York City, on the 28th floor in HRB's training room, #2829. The meeting is scheduled for 10:00 am to 12:00 noon.

The call in number for this meeting is 202-260-7280 and the access code is: PII

I will send out an agenda when it becomes available.

Please let me know if you have any questions.

Thanks.

Nancy C. Maltais
 EPA/DESA/MAB
 732-321-6685 phone
 732-321-6616 fax

**Meeting Minutes
EPA Indoor Air Working Group Meeting
290 Broadway, RM 2829
March 28, 2002**

Attendees: Kathy Callahan, EPA Region 2
Dore LaPosta, EPA Region 2
Berry Shore, EPA Region 2
George Pavlou, EPA Region 2
Mike Debonis, EPA Region 2
Mark Maddaloni, EPA Region 2
Bob Fitzpatrick, EPA Region 2
Dick Salkie, EPA-ORD
Arthur Block, ATSDR-Region 2
Robert Chinery, NYSDOH
Jim Miller, NYCDOH
Nancy Jeffery, NYCDOH
Chris D'Andrea, NYCDOH
Jeanine Prud'Homme, NYCDOH
Sylvia Pryce, NYCDCAS
Michael Gilsena, NYCDEP
Lee Ilan, MOEC
Doug Williamson, Plargraphics/DOITT
Robert Garvey, OSHA
David Adams, OSHA

Via Telephone: Dana Tulis, EPA-HQ/OERR
Terry Smith, EPA-HQ/OERR
Peter Grevatt, EPA-HQ/OSWER
John Schaum, EPA-ORD
Sven Rodenbeck, ATSDR

Items discussed:

1. Contaminants of Concern (COC)/Workgroup Activities

There will be three tiers of exposure; immediate action, intermediate risk and out-the-door or low risk.

- The following COCs are being considered
 - asbestos
 - refractive ceramic glass
 - silica
 - fibrous glass
 - dioxin
 - lead
 - PAHs

PUBLIC OUTREACH WORKING GROUP
March 18, 2002 Meeting Notes

Audiences

- Advocacy groups
- Businesses, large and small
- Cleaning contractors
- Elected officials
- Emergency workers/first responders
- Government workers (City, State, federal)
- Media decision makers (ie news directors)
- Medical professionals/health care providers
- Outside organizations with interest in air quality (NY Environmental Law Project)
- Parents
- Property owners and managers
- Real estate community (brokers, etc)
- Residents – renters, owners
- Trade associations
- Tourists
- Unions

Messages

- Acknowledge what we don't know, acknowledge real problems caused by 9/11
- Ensure consistency of information, consistency of tone
- Address standards question head on, educate as appropriate
- Provide standard definitions and clarifications of terms, as appropriate
- Provide "how-tos" as appropriate
- Emphasize what City has learned from 9/11 experience
- Translate, interpret levels of exposure
- Set benchmarks and meet them

Communicating the Message

Key decisions regarding environmental health message have not yet been made; nonetheless, we have some models that we can use to guide us.

- "Capitol Building" strategy
- "West Nile" strategy
- Use of expert testimony
- Proactive approach to good news stories
- Highlighting milestones

Agenda for 2/21 Indoor Air Working Group Meeting

- | | | |
|-------------|---|------------------------|
| 1:00 - 1:15 | Introductions/Charge to the Group. | Kathy Callahan |
| 1:15 - 1:45 | Status of current activities.
ATSDR/NYCDOH effort
EPA/NYCDEP effort | ATSDR
EPA- Region 2 |
| 1:45 - 2:00 | Presentation of Senator Clinton's and FEMA's Requests for Action. Kathy | |
| 2:00 - 4:00 | Development of Outline of Proposal for Action. Group, led by Kathy | |

Elements for Discussion:

1. Sampling Approach
 - Inventory versus Inspections
 - Options: Building by Building, impact radius, apartments, commercial buildings, schools
2. Definition of Sampling Plan and Sampling Objectives
 - Options: Uncleaned buildings only, based on requests by public, post-cleaning only
 - Parameters: asbestos, fibrous glass, silica, pH, metals?
3. Need for a Cleaning Plan
 - Options: Requiring owners, versus agency, state, or city-led cleaning vs. requests by public
 - Assessment: Use of screening criteria to designate "clean", risk factors
4. Establishment of Clearinghouse for Information on Status of Cleaning of Buildings and Guidance on Cleaning Approaches
5. Public Information Campaign/Notifications Protocol
6. Ranges of Costs for Sampling, Cleanup, and Monitoring Indoor vs. Outdoor?
7. Resource Needs/Responsible Agencies
8. Schedule - Triage Approach

4:00 - 4:30 Next Steps/Assignments

Kate Jenkin > refute EPA starting to put a paper together to refute. Might be pertinent not pertinent

*ATSDR
air/settled Dusts*

Indoor Air Working Group Force Meeting 3/6/02

Items for Discussion

1. Clearinghouse Draft Proposal
 - Need cost estimates for database and other items
2. Contaminants of Concern Workgroup Update
3. ATSDR/NYCDOH Proposal Update
4. Identification of Candidate Buildings for Cleaning
5. Discussion of Proposal for "Advocate"
6. FEMA Proposal
7. Task Force Meeting Tentatively Scheduled for Monday, March 11
8. Next Workgroup Meeting

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**Meeting Minutes
EPA Indoor Air Working Group Meeting
290 Broadway, RM 2829
April 11, 2002**

Attendees: Kathy Callahan, EPA Region 2
Dore LaPosta, EPA Region 2
Bob Fitzpatrick, EPA Region 2
Paul Giardina, EPA Region 2
Mark Maddaloni, EPA Region 2
Joe Rotoca, EPA Region 2
Dan Harkay, EPA Region 2
Arthur Block, ATSDR-Region 2
Robert Knowles, ATSDR
Jim Miller, NYCDOH
Nancy Jeffery, NYCDOH
Jessica Leighton, NYCDOH
Jeanine Prudhomme, NYCDOH
Sam Benson, NYCOEM
Gerry Kelpin, NYCDEP

Via Telephone: Dana Tulis, EPA-HQ/OERR
Terry Smith, EPA-HQ/OERR
Carol Lynes, EPA Region 2
Sven Rodenbeck, ATSDR
Robert Chinery, NYSDOH

Items discussed:

1. **Potential Indicator Chemicals (PIC)**
 - Mark Maddaloni did a presentation of the PICs at the April 8th Task Force meeting.
 - Concentration has been placed on carcinogenic chemicals but non-carcinogenic chemicals should also be addressed.
 - Once background data is obtained, the questions of when to use background over risk-based data remains.
 - Settled dust analysis will be risk-based.
 - There will be another meeting on April 11th that will continue to address these issues.
 - The dioxin limits are proposed to be changed. EPA Region 2 used the existing limits. Peter Grevatt will be using the proposed. Some use both. This issue needs to be resolved.
 - The clearance standard for asbestos needs to be decided between monitoring or extrapolation.
 - The analytical methods for all PICs should be consistent.
 - for fibrous glass, a German SEM method will be used for air samples and PLM will be used for bulk samples.
 - NYC's cleaning efforts will concentrate on asbestos which they expect would also

get fibrous glass.

- ATSDR found fibrous glass where no asbestos was detected.
- The thought is that this level of cleaning should get a number of the PICs.
- Although consultants and contractors are asking for clean-up levels, risk management decisions cannot be made until the studies are completed.

2. EPA Background Study

- The decision was made to use 14 buildings.
- EPA had discussions with FEMA to justify the need and priorities of the study
- A draft statement-of-work will be available next week so bid solicitation can begin.
- Dore LaPosta will verify if the financial paper work was submitted to FEMA by the Region 2 finance office.

3. EPA Cleaning Effort

- Bulk samples were collected from 110 Liberty Street.
 - results expected next week
 - expect the results to help with finalization of the cleaning protocol
- Will be going back to 110 Liberty Street on April 12th
 - will also look for HVAC systems
 - will have access agreements
- Previously cleaned buildings will also be sampled.
- 110 Liberty Street has mix of clean and dirty spaces as well as occupied and unoccupied.
- The cleaning contractor is on stand-by.
- The issue of asbestos handling certification of the contractors needs to be worked out with OSHA.
 - NYCDEP asbestos removal regulations need to be considered.

4. NYC Database Review

- Goal is to establish one WTC database.
- There will be a meeting on April 18th, the results of which will be shared with the group.
- According to NYC's legal department, there is no limitation on how much detail is provided.
- The database will include every building in lower Manhattan.
- The NYC Board of Education is sampling the schools near ground zero daily and can supply their data.
- Funding was requested from FEMA.

5. NYC Exterior Cleaning

- Bids are being opened today, April 11th.

Next meeting: April 18th at 10:00 AM - 12:00 PM @ 290 Broadway.