

**NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF ENGINEERING DESIGN AND CONSTRUCTION  
CROTON FACILITY MONITORING COMMITTEE MEETING MINUTES**

THURSDAY, APRIL 17, 2008 – 7:00PM

The Croton Facility Monitoring Committee met on Thursday, April 17, 2008 at the NYCDEP (DEP) Community Office, 3660 Jerome Avenue, Bronx, NY 10467. Attendees, including CFMC representatives, elected officials and their representatives, staff from DEP, its construction manager, design engineer, and members of the public, are listed on the attached sheet. (*Attachment 1*) A few individuals did not sign the attendance sheet.

Welcome

Greg Faulkner, Chair of Community Board #7 and of the CFMC, called the meeting to order at approximately 7:10 PM; an agenda (*Attachment 2*) was available.

Public Session

Lynn Schwarz, Fort Independence Park Neighborhood Association (FIPNA), requested a response to prior questions. In particular Ms. Schwarz complained about the lack of DEP's proper maintenance and the garbage and graffiti in the area around Jerome Park Reservoir. Her email message to Council Member G. Oliver Koppell was submitted for the record, and is *Attachment 3*. Saul Scheinbach, representing Community Board #8, said the DEP should provide attention to maintenance surrounding JPR. He said that CB #8 lists this as a top priority in its budget requests.

Karen Argenti, FIPNA, urged that Ms. Schwarz get a response to questions she asked at previous CFMC meetings.

Kevin Johns, resident of Amalgamated Houses and member of Local 15 IUOE, said emissions at the site have been significantly reduced as contractors comply with Local Law 77/2003. Mr. Johns' comments are *Attachment 4*. Mr. Scheinbach said he is looking forward to Emisstar's presentation later in the meeting. He said DEP should construct all projects in an environmentally sound way.

Anne Marie Garti, Jerome Park Conservancy, said the letter from DEP's Commissioner five months ago was not acceptable. Ms. Garti disputes the length of time JPR water will take to enter the city's water supply system, and other facts in that letter. Her comments and a copy of the November 14, 2007 DEP letter are *Attachment 5*. Anthony Perez Cassino, Chair, Community Board #8, supports the position of the JP Conservancy. Mr. Faulkner said the CFMC should agenda for its next meeting JPR public access and the city's security concerns. He wants DEP and the JP Conservancy each to present their positions for review by the CFMC. Ms. Argenti requested that the community participate in the discussions about JPR, and not be limited to 3 minutes during the public portion of the meeting. She requested DEP's presentation in advance and said that the community's

presentation would be provided in advance. Mr. Faulkner agreed. DEP Deputy Commissioner Anne Canty said that advance submission might not be possible, given the workload. Father Richard Gorman, Chair, Community Board #12, said that the CFMC expects material in advance. He added that DEP Police are at JPR to intercept and address any security problems. He said DEP Police should attend the next CFMC meeting regarding the security system at JPR to provide additional information to the CFMC and to the public. Ms. Canty said that the issues related to JPR and access had been discussed previously in detail by DEP and by DEP Police. Laura Stockstill, representing Borough President Carrion, asked for documents from federal, state and city agencies about keeping the public away from JPR for water quality and security reasons. Jamin Sewell, representing Council Member Koppell, supports Ms. Stockstill's request to have the DEP Police at the next meeting.

Assembly Member Jeffrey Dinowitz thanked all members of the CFMC who voted for the resolution to have the Independent Budget Office further investigate and the NYC and NYS Comptrollers investigate the costs of Croton. He said the Comptroller should audit the costs prior to the start of construction to advise why the costs have increased. He said that if the costs are \$1.5 billion over the original estimates, the original cost estimates may have been intentionally low-balled or in error. His concern is that the costs at the VCP site may have been intentionally understated and the costs at the Eastchester site may have been intentionally inflated. Mr. Dinowitz provided copies of April 14 letters to Comptroller William Thompson and IBO Director Ronnie Lowenstein. These letters are *Attachment 6*.

Mr. Faulkner closed the public portion of the meeting.

#### Meeting Minutes

Mr. Faulkner called up the meeting minutes of February 21<sup>st</sup>. No changes were requested. Upon a motion by Fr. Gorman, seconded by Mr. Scheinbach, the meeting minutes were adopted.

#### Jobs Report

Ms. Canty introduced Nicole Torres to report to the CFMC on jobs, training, and referrals of applicants seeking work. Ms. Canty also introduced Vanessa Gibson of the Skanska/Tully team, who is Skanska's point person on local purchases and local hiring. Ms. Torres reviewed the extensive efforts and results to-date of the jobs and training program that DEP and its partner providers have initiated. Her presentation is *Attachment 7*. Following the presentation, Mr. Cassino inquired about how successful the program has been in getting local residents into unions. Ms. Canty said that DEP is scheduling a new round of meetings with the union locals but that union members who are applicants for work at Croton must go to their hiring hall to tell their unions they wish to be assigned to Croton. It isn't sufficient for union members to only apply at the DEP community office; they must actively seek placement at Croton. Mr. Faulkner said the majority of graduates of Project HIRE are not being accepted into unions and he is

concerned about it. Mr. Sewell and Mr. Faulkner asked about union apprenticeships. Ms. Canty said the process Ms. Torres, Robert Barnes and Chris Rivera are undertaking will track the applicants from the point of entry at DEP to their eventual job or training placements. The CFMC approves of this initiative. Ms. Canty and Mr. Faulkner encouraged the CFMC to attend Project HIRE's graduation scheduled for April 18<sup>th</sup> at Bronx Community College. Mr. Faulkner said that Council Member Helen Foster's representative spoke at the Bronx Borough Board meeting earlier in the day, to the effect that Croton is the first project where the community sees local residents are getting job opportunities in a concerted manner. Fr. Gorman praised the effort. Mr. Faulkner said that lessons learned at Croton will benefit the community in its negotiations with Kingsbridge Armory's developers. The CFMC spoke of Project Labor Agreements and their importance in the community as prerequisite for future ULURP actions.

Parks Borough Commissioner Hector Aponte said there are no new jobs statistics to share at this meeting; however, he pointed to a series of current and upcoming parks construction projects. These include Harris Ballfields now underway, Shandler Ball Fields beginning this summer and the VCP Parade Grounds starting in the fall. He also spoke of close coordination on jobs between Mr. Barnes' office and the Parks Department.

Fr. Gorman asked that job applications be made available at the offices of local elected officials and Bronx community boards. Ms. Canty agreed to have DEP applications forwarded. A copy of the DEP application is *Attachment 8*.

#### Emisstar Presentation

Glenn Goldstein and Saeed Abolhasani of Emisstar LLC spoke about the ambitious and precedent setting program instituted at Croton to reduce air emissions from on-site diesel powered equipment. Mr. Goldstein said that the project was a success on every level. Results for particulate matter reductions on some machines were 99%, well above the EPA's 90% standard. The presentation is *Attachment 9*.

Questions were asked by Mr. Scheinbach and Fr. Gorman about the technology and findings. These questions were responded to by Emisstar. Ms. Canty said that DEP was very pleased with the results of the program and is looking at ways to do more. Mr. Aponte said that the Parks and Recreation Dept is starting to retrofit more of its equipment and emissions reduction equipment will be seen in the future. Mr. Goldstein added that per Local Law 77 diesel-powered construction equipment greater than 50 horsepower must have emissions reduction technology and also use ULSD.

Fr. Gorman said that this experience of curbing air emissions is worthy of transferring to all NYC construction agencies.

#### Update on Trucking and NYC Comptroller Audit

DEP First Deputy Commissioner Steven Lawitts said that KC Trucking is being used as interim trucker by Schiavone/Picone on the tunnel contract. The Dept of Investigation is nearing completion of its evaluation of KC Trucking and will render a decision shortly about the company. Fr. Gorman asked what DOI looks at to make its determinations. Mr. Lawitts said that among things DOI may consider are prior city contracts, company's principals, and their association with any criminal activities. Fr. Gorman asked about relatives of principals who might be under investigation. Mr. Lawitts said DOI would have to provide such information; however, no one from DOI was in attendance at the meeting. Mr. Aponte said that other things DOI might look into are level of technical expertise, comparability to and evaluation of similar jobs, financial stability of company, and compliance with labor regulations such as labor rates of pay. Fr. Gorman said he would like DOI to come to the next meeting to update the CFMC on its vetting process. There was a brief discussion between Fr. Gorman and Mr. Lawitts about daily time sheets, now being overseen by the Integrity Monitor at Croton. There was a brief discussion between Mr. Johns and Fr. Gorman about why daily time sheets are an issue.

Mr. Lawitts said that the NYC Comptroller is initiating an audit of the Croton contracts as to efficiency and purpose. There is to be an entrance conference between the two offices on April 28<sup>th</sup>. At the entrance conference a process is established and the focus of the audit narrowed. Fr. Gorman said he wanted the Comptroller and IBO to investigate whether costs had been low-balled as mentioned by Mr. Dinowitz in his remarks.

#### CFMC Discussion

Mr. Scheinbach referred to a recent Letter to the Editor in Riverdale Press by Fay Muir about justifying the extent of upstate watershed protection of the Croton watershed. He wants to know specifically, how much land has been purchased, when bought, and why no purchase allocation appears in the current budget. Mr. Scheinbach said that since 1997 DEP has been purchasing land but it should have been bought sooner. He added that currently near Titicus Reservoir large mansions are under construction and the lands may be fertilized. He questioned the regulations, status of septic systems, and why NYC regulations cannot be tighter in the watershed than NYS regulations. Fr. Gorman, Mr. Aponte and Mr. Scheinbach discussed DEC jurisdiction, eminent domain, and improving the protection of the Croton system. Mr. Faulkner suggested that in the fall the CFMC have another watershed protection update from DEP as the sole item on the agenda along with jobs. Ms. Stockstill suggested having DEC attend as well. Fr. Gorman asked if the NYS Legislature is doing anything. Mr. Dinowitz said that the fears of 15 years ago (that filtering the Croton system would be a license to pollute) have come true. Mr. Sewall said he wanted Ms. Schwarz's four questions put on the next agenda.

The CFMC decided to next meet on June 19th.

The meeting ended at 9:00 PM.

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**AGENDA**

**Croton Facility Monitoring Committee Meeting**

Thursday, April 17, 2008 – 7:00 PM

*DEP Community Office*

3660 Jerome Avenue, Bronx NY 10467 (718) 231-8857

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| <b>I. Welcome</b>  | Greg Faulkner  |
| <b>II. Comments from the Public – Sign up to Speak</b>                     | 3 Minute Maximum - 30 Minutes                            |
| <b>III. Consider, Adopt Minutes of February CFMC Meeting</b>               | CFMC Principals  |
| <b>IV. DEP Report on Jobs and Training</b>                                 | Deputy Commissioner Anne Canty and Nicole Torres         |
| <b>V. Parks Report on Jobs</b>   | Dept of Parks and Recreation                             |
| <b>VI. Report on Emissions Control at Croton Site</b>                      | Glenn Goldstein, Emisstar                                |
| <b>VII. Croton Update – Alternate Trucking Company, Comptroller Letter</b> | Steven Lawitts, 1 <sup>st</sup> Deputy Commissioner, DEP |
| <b>VIII. CFMC Discussion, Set Next Meeting</b>                             | CFMC Principals  |
| <b>IX. Adjourn</b>   |  |

[The Independent Budget Office report about Croton costs has been postponed to the next CFMC meeting]

**Subject: FMC Agenda Item****Date:** Mon, 7 Apr 2008 12:44:52 -0400 (EDT)**From:** lynn@fipna.org**To:** koppell@council.nyc.ny.us**CC:** jamin.sewell@council.nyc.ny.us

Dear Council Member Koppell:

In December I requested some information that has not been responded to.

1. Since the cost has more than doubled, it is time to request the community benefit package be increased as well. Please respond to the request that Jerome Park Reservoir needs additional funding.

2. Please have the DEP answer two other JPR concerns since work has now begun on JPR.

✓ A. Why are you expecting 600 truck visits at Jerome Park for the demolition of the Demonstration Building?

✓ B. Why is a raw water tunnel going from the New Croton Aqueduct to the Filter Plant, and another raw water tunnel from Jerome Park Reservoir to the Filter Plant? Is this unnecessary and costly construction, keeping the reservoir from becoming the park it so desperately wants to be?

Thank you for sending Jamin Sewell and others to our Candle Light Vigil !

Lynn Schwarz  
FIPNA-VP

KEVIN JOHNS

I would like to take this opportunity to speak about what has and is being done to remove diesel particulates from the air at the croton site.

Before this job was even approved I remember hearing at many meetings amongst other subjects about the quality of air, how asthma was high in the Bronx, and what was going to be done about it.

I have been working on the site for a little more than 3 years. In that time period an enormous effort has been directed to technology that I have not seen in my 25 years working in heavy construction.

The DEP has gone to great lengths to assure that contractors *WORKING ON THE SITE* have conformed to local law 77.

In the beginning of the job starting in 2005 each drill, loader, excavator, and other pieces of equipment had to be fitted with systems never used by most of us in the industry.

Also all trailers coming on the job to be loaded with rock had to be filled with ultra sulfur diesel. *THIS WAS 18 MONTHS BEFORE REQUIRED BY LAW.*

I know this to be true because I filled them personally, some days 1000 gallons a day, depending on the amount of trucks for the day.

When Skanska Tully started work in August of 2007 all new equipment coming on the job were fitted with diesel particulate filters.

All these systems are after market, expensive, and new technology, yet Skanska Tully has held up it's pledge to the DEP and the community conforming to local law 77. They remove over 90% of diesel particulates.

My machine is a 8042 Telehandler and is fitted with a Huss diesel particulate filter that regenerates itself at the end of the day, and takes about 30 minutes.

When my machine runs during the day there is no visible smoke that used to be so common on all construction equipment in the past. This is a major improvement especially when working in

confined space such as tunnels.

In conclusion I would just like to point out my observance of Skanska Tully's commitment to Local law 77 and to the community's air quality.

Thank you

Kevin F. Johns

3967 Sedgwick Ave.

Bronx NY 10463

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**SECURITY CONCERNS  
POINT / COUNTERPOINT**

The Department of Environmental Protection (DEP) allows public access at all of their upstate reservoirs. They even let people to fish on the water and hunt around it, as long as they have a DEP permit and carry photo ID.

In sharp contrast, the DEP claims there a number of reasons why the public cannot be permitted inside their security fence at Jerome Park. Each of these purported problems has a real solution.

Besides the "threats" the DEP lists in meetings and letters, they allude to an even more terrible one, which they cannot mention in public. But they have told many of us what it is in private. In case they tell you: add up the property values along Fifth Avenue, east and south of 90<sup>th</sup> Street. If this "unmentionable threat" were real, no one would be allowed near the Central Park Reservoir.

**DEP POINT I**

The water at Jerome Park Reservoir is only minutes from consumers.

**FACT**

Once the filtration plant is in operation, the water in Jerome Park does not have to be used at all. If it is used, it will have to go through the filtration plant before flowing out of any faucet, and this will take many hours. The water in the Kensico Reservoir, which is totally open to the public, will reach NYC faster.

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**DEP POINT II**

The City tests for poisons at upstate reservoirs, but not at Jerome Park.

**SOLUTION**

Test for poisons at the filtration plant when using water from Jerome Park.

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**DEP POINT III**

The Jerome Park Reservoir will remain part of the water supply and the operational staff needs to be able to get to the gatehouses for repairs.

**SOLUTION**

If there is a major maintenance problem, the DEP can simply ask the public to leave until it is fixed. But this is not a real problem. For over 125 years the City operated the Central Park Reservoir with thousands of people running around it every day.

**DEP POINT IV**

There are too many people who live near Jerome Park.

**SOLUTION**

This is a racist attitude. In Westchester, Putnam, Ulster, and Delaware Counties, cars and truck can drive to the edge of the water, and there are few policemen (or people) to patrol thousands of acres of remote, open water. If the DEP would treat the residents of the Bronx with respect, then there would be tens of thousands of neighborhood residents to act as guards.

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**DEP POINT V**

The upstate reservoirs are larger, so if someone dumps poison it will be diluted.

**SOLUTION**

To allow public access, require photo IDs and check bags before allowing people inside the security fence at Jerome Park. These techniques are used successfully at "high risk" buildings in Manhattan.

(Upstate, someone could dump a truckload of toxic material into the reservoirs at night. How much poison can a runner carry past a security guard?)

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**DEP POINT VI**

The DEP claims that they have discussed public access at Jerome Park with the NYPD, FBI, and the Department of Homeland Security, and they "are uniform in their concern over public access..." (Does that mean they said no?)

**SOLUTION**

Tell all of these agencies the truth, and describe the precautions that will be taken to protect the water supply.

The  
City  
of  
New York



DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION

59-17 Junction Boulevard  
Flushing, New York 11373

Emily Lloyd  
Commissioner

November 15, 2007

Ed Yaker, President  
Amalgamated Housing Corporation  
98 Van Cortlandt Park South  
Bronx, New York 10463

Dear Mr. Yaker:

My staff and I have deliberated extensively over your request for public access to the Jerome Park Reservoir property. Throughout the planning process for work at Jerome Park, DEP has tried to balance security, operational and public safety concerns with the importance of Jerome Park and its reservoir to community life and recreation in the Bronx.

After significant discussion and analysis, I have concluded that, though DEP encourages public access to its land whenever feasible, because of significant operational and security concerns specific to Jerome Park, the reservoir must remain closed to public access even after the completion of the Croton Filter Plant.

Because the water supply structures surrounding JPR will continue to be used for water supply functions, the property must remain easily accessible to DEP water supply and water distribution staff around the clock. The interior roadway between the fences at JPR is narrow and contains many difficult curves and changes in elevation, and public access would interfere with DEP's ability to operate the reservoir safely and perform necessary maintenance and repairs.

In addition, security concerns dictate that the property inside the fences remain off limits. As you know, the water in Jerome Park Reservoir is only minutes from entering the City's distribution networks and the taps of nearly one million New Yorkers.

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[www.nyc.gov/dep](http://www.nyc.gov/dep)

DIAL 311 Government Information  
and Services for NYC

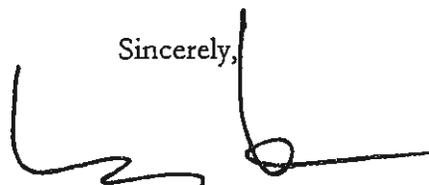
Jerome Park's location in a densely populated, urban area and its immediate proximity to the City's distribution networks exacerbate the risks DEP routinely evaluates at all of its reservoirs and infrastructural facilities.

Similar security measures are not unprecedented for DEP – access is restricted to many roadways, lands and other physical assets in the watershed area – but the need for effective security increases dramatically as the drinking water supply moves close to the population of New York City.

In considering this issue, the Department consulted extensively with officials at all levels of government, including the Department of Homeland Security, the FBI, EPA, the NYS Department of Health and NYPD. All were uniform in their concern over public access to such a critical aspect of the New York City drinking water system.

I assure you that we are committed to working with the Croton FMC, community groups, local residents, elected officials and the Parks Department to develop a plan that accommodates, to the degree feasible, your interest in the Jerome Park Reservoir as a community asset.

Sincerely,

A handwritten signature in black ink, appearing to read "Emily Lloyd". The signature is fluid and cursive, with a large loop at the end.

Emily Lloyd  
Commissioner, NYCDEP



JEFFREY DINOWITZ  
Assemblyman 81<sup>ST</sup> District  
Bronx County

THE ASSEMBLY  
STATE OF NEW YORK  
ALBANY

CHAIRMAN  
Committee on Aging

COMMITTEES  
Election Law  
Health  
Judiciary

MEMBER  
Puerto Rican/Hispanic Task Force

April 14, 2008

Comptroller William Thompson  
Municipal Building  
1 Centre Street  
New York, New York 10007

Dear Comptroller Thompson:

I'm very pleased that your office is heeding the call from elected officials, community residents, and the Facilities Monitoring Committee and will be auditing the \$3 billion Croton Water Treatment plant.

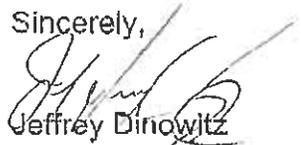
However, if the Riverdale Press is correct in stating that your office is going to *determine if DEP is conducting construction effectively and in compliance with regulations and governmental requirements*, then I'm concerned that you will not get to the bottom of why this monstrosity has unnecessarily destroyed a large section of Van Cortlandt Park, is wasting millions of gallons of groundwater each day, and will ultimately result in an over-priced, outmoded facility that was built in the wrong place.

I believe you must aim to answer the questions of whether the DEP deliberately low-balled the original cost estimates for the Bronx site while inflating the budget for the Westchester option and made other fraudulent claims to elected officials about suitability in order to gain support for the building the plant at the Mosholu Golf Course.

Also, in light of the recent indictment of the head of Schiavone tunnel operations and implication of a major dirt hauler on the project, it needs to be determined who has gained financially from the DEP's decision to build an experimental underground project.

Any report that does not directly address these issues would not be helpful and would play right into the hands of the DEP and contractors who, despite allegations of mob involvement and numerous other inconsistencies, appear prepared to go about their merry way pulling the wool over the eyes of the public. Again, thank you for moving ahead with an audit of this project, but please, look into the financial data relating to the site selection.

Sincerely,

  
Jeffrey Dinowitz  
Member of Assembly



JEFFREY DINOWITZ  
Assemblyman 81<sup>st</sup> District  
Bronx County

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April 14, 2008

Ms. Ronnie Lowenstein, Director  
NYC Independent Budget Office  
110 William Street, 14<sup>th</sup> Floor  
New York, NY 10038

Dear Director Lowenstein:

I was pleased to read the letter sent from the IBO to the Facilities Monitoring Committee stating your intention to study the Croton Water Treatment Plant. As you know I have many concerns about the project. However, it is important that your investigation fully examine the DEP's original budget and compare it with actual costs.

Unfortunately, the FSEIS budget did not contain full breakouts and explanations of line items and using it as a basis for comparison will produce incomplete results that reveal little. Therefore, it is vital that the IBO attain complete explanations of the original cost estimates from the DEP and compare those with the actual expenditures. It is not adequate to merely "*compare the DEP's original published cost estimates with actual and currently projected costs*" because their original information was considerably lacking.

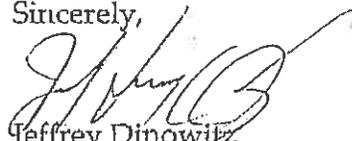
The last whereas clause of the 12/17/07 FMC motion states in part: "*Whereas, no comprehensive study and investigation relative to the history of this public financing and its steadily increasing costs has yet to be undertaken and conducted by appropriate officers and agencies of municipal and state government;*" This makes it clear that you must go beyond the published cost estimates and examine the intra-agency reports by the Department's consultant to the Croton project and any and all additional advising consultants. In addition, you should be able to review the documentation of the Water Finance Authority Financial consultant advisor.

Also, there is an important transparency issue that you must address. In his January 8<sup>th</sup> letter addressed to you, Council Member G. Oliver Koppell requested that "*all documents related to the public financing of the project be made available for public review.*" I agree with my colleague on this concern and would add that you should try to make

certain that the public has time to review your reports and documents prior to presentation before the FMC.

If you need further help and/or explanation, please contact my office.

Sincerely,



Jeffrey Dinowitz  
Member of Assembly

cc: Council Member G. Oliver Koppell  
Preston Niblack, Deputy Director, IBO



# **Croton Filtration Plant: Jobs and Training**

**Presented to the Croton Facility Monitoring Committee**

**April 17, 2008**

# Jobs and Training: Overview

- From the beginning of the Croton Filtration Plant project, DEP has worked with the FMC and local elected officials to promote jobs, training and enhanced economic activity
- With work ramping up this month and in the upcoming months, this seemed like an appropriate opportunity to review jobs/training programs and update you on efforts to take advantage of new opportunities

# Jobs and Training: Upcoming Efforts

- Skanska continues to excel in hiring of Bronx residents, and moving forward, will regularly present their onsite and subcontractor hiring statistics to the FMC
  - Currently, 21% of workers onsite are Bronx residents
  - Workforce will continue to increase as construction proceeds (will begin to peak later this Summer)
- In April, Commissioner Lloyd again met with Skanska officials to reaffirm DEP's commitment to Bronx hiring
  - Provided Skanska with list of 50 Union applicants who are currently interested in working on the Croton site
  - Skanska will ask individual Unions to refer workers from this list when possible
- In coming weeks, Skanska is meeting with local Unions individually to reaffirm commitment and coordinate future hiring efforts
  - Will also work to identify and develop additional pre-apprenticeship opportunities

# Applicant Intake

- With help from Bronx Community Boards, Elected Officials, and the FMC, outreach and recruitment took place via newspaper ads, flyers, and mailings
- To date, more than 1,200 applicants have visited or been referred to the Community office. This includes:
  - ~250 Union Applicants
  - ~950 Non-Union Applicants
- All applicants register, so DEP can work with the applicant to identify the needed services based on individual requirements
- This allows DEP to create electronic and paper database, which we use for future outreach, tracking, and general follow-up

# Union Applicants: Sample Paths

- To date, ~250 Union members are registered at DEP's community office
  - Laborers, Carpenters and Lathers are the primary unions that our contractors will be working with
- When a Union member comes in, DEP community office staff gives their information directly to our Croton contractors for employment
  - DEP works closely with Skanska to communicate Bronx hiring commitment to local unions
- This month, 53 workers (or 21% of Croton labor) are from the Bronx

# Non-Union Applicants: Sample Paths

- Majority of job seekers who come to outreach office are not union members
  - To date, ~950 non-union applicants are registered at DEP's community office
- Because onsite jobs require specific training, and because the needs of non-union applicants vary, DEP partners with variety of programs that provide training and education at multiple levels:
  - Education programs (GED courses)
  - Pre-apprenticeship programs
  - Job assessment services
- To date, DEP has successfully referred 100% of non-union applicants to training, assessment or educational programs

# Educational Programs: GED Courses

- In cooperation with Bronx Community College (BCC), DEP offers job applicants without a high school diploma the opportunity to obtain their degree
  - The GED courses offer 60 hours of instruction and culminate in students sitting for the GED exam at BCC
  - Instruction is offered during both daytime and evening hours to accommodate as many students as possible
- To date, DEP has funded two GED courses that have served approximately 40 applicants
  - The first DEP-sponsored GED course ran from February to April 2007 and the second class ran from June to August 2007
  - Students who did not pass the GED exam from the first class were re-enrolled in the second class free of charge to continue their studies in order to pass the GED exam on their second try
- Once students complete their GED coursework and earn their GED certificates, DEP encourages them to apply for Project HIRE, BuildingWorks, and/or attend the Workforce 1 Career workshop

# Pre-apprenticeship/Training: Overview

- The job training / pre-apprenticeship training programs prepare students for specific employment opportunities in the construction fields
  - Provide students with specific skill-sets needed for Union apprenticeships
  - Work closely with students to find employment upon successful completion of course
- To date, DEP has directly funded pre-apprenticeship programs through:
  - Project HIRE
  - BuildingWorks Pre-Apprenticeship Program
- DEP has also referred candidates to other pre-apprenticeship programs, including:
  - Nontraditional Employment for Women (NEW)
  - Strive
  - Office of Applied Innovation and Minority Workers Training (OAI)
  - SOBRO's YouthBuild Transformation Academy
  - Helmets to Hard Hats
  - Workforce 1 Career Center Workshops

# Project HIRE: Success to Date

- DEP partnered with Project HIRE to offer two pre-apprenticeship training courses to 66 job seekers who registered at DEP's Community Office
  - The first DEP/HIRE class began the program in June 2007 and graduated in November 2007
  - Of the 29 graduates, so far:
    - 18 are employed
    - 10 are in unions
    - 2 also received GEDs
  - The second class of 25 applicants began in January 2008 and will graduate next week
- DEP keeps a waiting list of the applicants who were unable to enroll, giving each a referral letter for the next available class offered by HIRE

# BuildingWorks: Success to Date

- DEP has sponsored one graduating class of 23 participants, who began the BuildingWorks program in April 2007 and completed their training in July 2007.
  - Of these, 13 are currently employed:
    - 6 were placed in the Carpenter's Union
    - 2 at Con Ed
    - 2 at DEP
    - Others were placed at local unions, city agencies, and construction firms
  - The remainder are currently interviewing with unions or continuing their education
- Applicants interested in construction-related employment unable to enroll in the DEP-sponsored BuildingWorks slots are referred to Project HIRE and/or invited to attend a Workforce 1 Career workshop

# Workforce 1 Career Center: Program Overview

- For those not interested in or able to pursue a career in construction, DEP refers applicants to a broader career counseling service for general employment opportunities through Workforce 1
- Workforce 1 offers weekly classes that provide an array of employment services including job placement, career advisement, job search counseling, and skills training
- DEP-sponsored Workforce 1 workshops provide applicants with one-on-one consultations with employment specialists
- Applicants are given a job-readiness assessment to help determine what further training or education they might need to secure employment
- Between August 2007 and January 2008, 25 weekly Workforce 1 workshops serving about 100 community office applicants were offered at DEP's community office

# Jobs and Training: Future Efforts

- In months ahead, DEP will partner with the NYC Departments of Education, Parks & Recreation, and Human Resources Administration to develop a comprehensive program that will:
  - Provide free GED classes to additional community office applicants
  - Offer seasonal employment for duration of GED classes
- This multi-agency approach will strengthen our education and employment opportunities, as well as significantly expand the number of Bronx residents we are able to serve
- DEP will continue to update the FMC on these efforts

# CROTON FILTER WATER TREATMENT PLANT

# Attachment 8

## WALK-IN EMPLOYMENT INQUIRY

APPLICATION # \_\_\_\_\_

This is a Community Outreach Employment intake form. This information will be reviewed, and qualified applicants will be considered for future employment. This intake form will be referred to the participating agencies or companies in regards to job openings.

The Information below is needed to complete this review. (Please Print).

NAME (Last)	(first)	(Middle)	SOCIAL SECURITY #
ADDRESS			
CITY	STATE	ZIP	PHONE NO.
POSITION SOUGHT			DESIRED HOURLY WAGE
RACE			GENDER
HOW DID YOU HEAR ABOUT THIS OFFICE?			TODAY'S DATE:

All individuals looking for employment opportunities are considered without regard to race, color, religion, gender, national origin, age, sexual orientation, marital or veterans' status, the presence of a non-job related disability or any other legally protected status.

### TYPE OF EMPLOYMENT DESIRED:

CHECK ALL THAT APPLY				HOURS/SHIFT AVAILABLE
<input type="checkbox"/> Seasonal	<input type="checkbox"/> Temporary	<input type="checkbox"/> Full Time	<input type="checkbox"/> Part Time	DAYS AVAILABLE

### EMPLOYMENT EXPERIENCE:

Present or most recent position	Dates Employed	Hourly Wage	Reasons for Leaving
Describe your primary duties:			
Prior position	Dates Employed	Hourly Wage	Reasons for Leaving
Describe your primary duties:			
Are you a member of a Union? If yes, which one?			

### EDUCATION:

Check the number of years completed for each of the following:												
High School				Undergraduate College				Graduate College				Name of High School and/or College:
1	2	3	4	1	2	3	4	1	2	3	4	

List any professional, technical, or other training relative to the type of employment sought:
Do you have any Military Experience?
Do you obtain a Commercial Drivers License and/or other certifications?

_____	_____
DATE	SIGNATURE

# IMPLEMENTING BEST AVAILABLE TECHNOLOGY FOR NONROAD DIESEL CONSTRUCTION EQUIPMENT, 2005-2007

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Glenn Goldstein  
Saeed Abolhasani



Prepared for:  
Croton Facility Monitoring Committee

April 17, 2008

# Presentation Outline

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- Project Background
- Project Objectives
- Retrofitted Equipment
- In-Use Emissions Measurement
  - Equipment tested
  - Measurement instrument & method
- Cumulative Emissions Reductions Estimation
- Results
- Conclusions

# Project Background

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- ❑ Funded by NYCDEP
- ❑ Local Law 77
- ❑ CRO-311 Site Preparation Contract
- ❑ Total Cost of \$1.9M
- ❑ Precedent setting

# Project Objectives

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## The Implementation of BAT

- Demonstrate feasibility of BAT
- Provide empirical evidence to the NYC DEP
- Address stakeholders' concerns
- Assess commercially available technologies

# Project Site: Croton Water Treatment Plant

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# BAT Determination Procedure

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- ❑ Profile equipment chassis and engine specifications
- ❑ Monitor real-time exhaust gas temperature (EGT)
- ❑ Analyze EGT data and characterize equipment/engine duty cycle
- ❑ Determine compatible emission control technologies considering EPA/ARB verified technologies and LL77 requirements

# Retrofitted Equipment

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Compressors:	3
Dozers:	2
Excavators:	4
Hydraulic Drills:	10
Line Drills:	2
Loaders:	1
Quarry Trucks:	3
<hr/>	
Total	25

# Retrofit Types

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PDPF: 21

SCR + PDPF: 1

ADPF: 3

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Total 25

# In-Use Emission Testing Program

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- Partner with Environment Canada for real-time on-board emissions testing
- Select equipment for test
- Quantify emissions rates “pre” and “post” ECT
- Quantify ECTs performances

# Equipment Tested

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Type	Chassis			Engine			
	Make	Model	Year	Make	Model	hp	Tier
Compressor	Ingersoll Rand	IR 600	2005	John Deere	61RF8TE	170	2
Dozer	Komatsu	D155-Ax-5B	2004	Komatsu	SDA6-D140E	332	2
Excavator	Komatsu	PC750-L6	2004	Komatsu	SAA6D140E-3	474	2
Quarry Truck	Terex	TR70	2005	Detroit Diesel	12V 2000	700	2
Rubber Tire Loader	Caterpillar	966G	2004	Caterpillar	3176C ATAAC	259	2
Tiger Drill	Tamrock	CHA 700	2005	Caterpillar	3506E	173	2

# ECTs Tested (1)

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- SCRT: Selective Catalytic Reduction Technology



Ingersoll Rand Compressor

## ECTs Tested (2)

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- PDPF: Passive Diesel Particulate Filter



a) Komatsu Dozer



b) Komatsu Excavator



c) Tamrock Tiger Drill

# ECTs Tested (3)

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- ADPF: Active Diesel Particulate Filter



Terex Quarry Truck

## ECTs Tested (4)

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- CRT: Continuously Regenerating Technology



Caterpillar 966G Rubber Tire Loader

# In-Use Emission Measurement (1)

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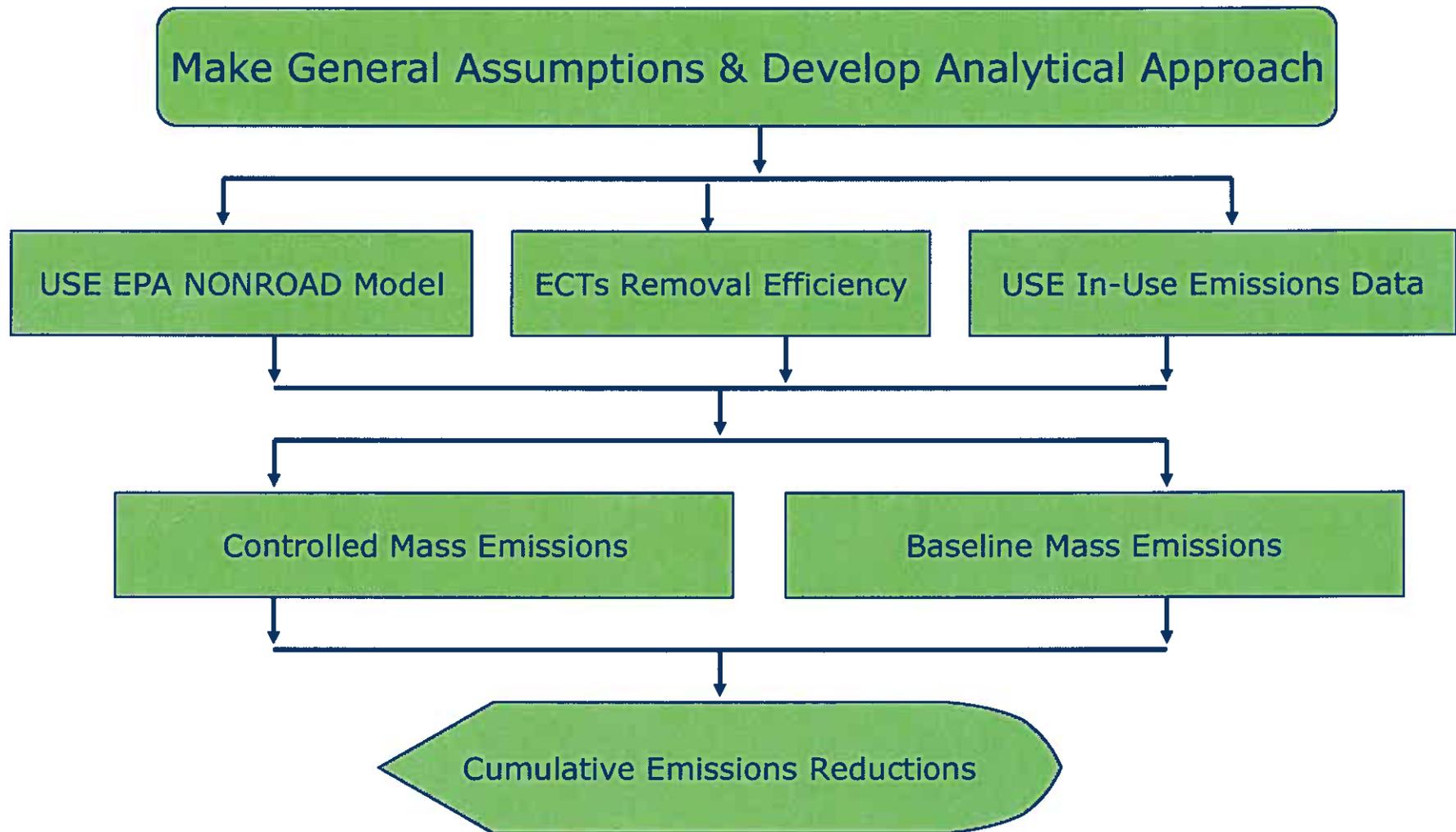
- EPA regulated emissions:
  - PM, HC, NO<sub>x</sub>, CO
- Engine parameters:
  - RPM, Exhaust Temperature, Intake Air Flow, Manifold Boost Pressure (MBP)

## In-Use Emission Measurement (2)

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- Integrated Sampling System (ISS):
  - Emisstar in conjunction with EC-ERMD
  - DOES2: Dynamic Dilution On/Off-Road Exhaust Emission Sampling System
- Pre and Post ECT testing
  - Not simultaneous (ECT already installed)
  - Three to four pre-ECT tests
  - Followed by three to four post-ECT tests

# Cumulative Emissions Reductions Methodology

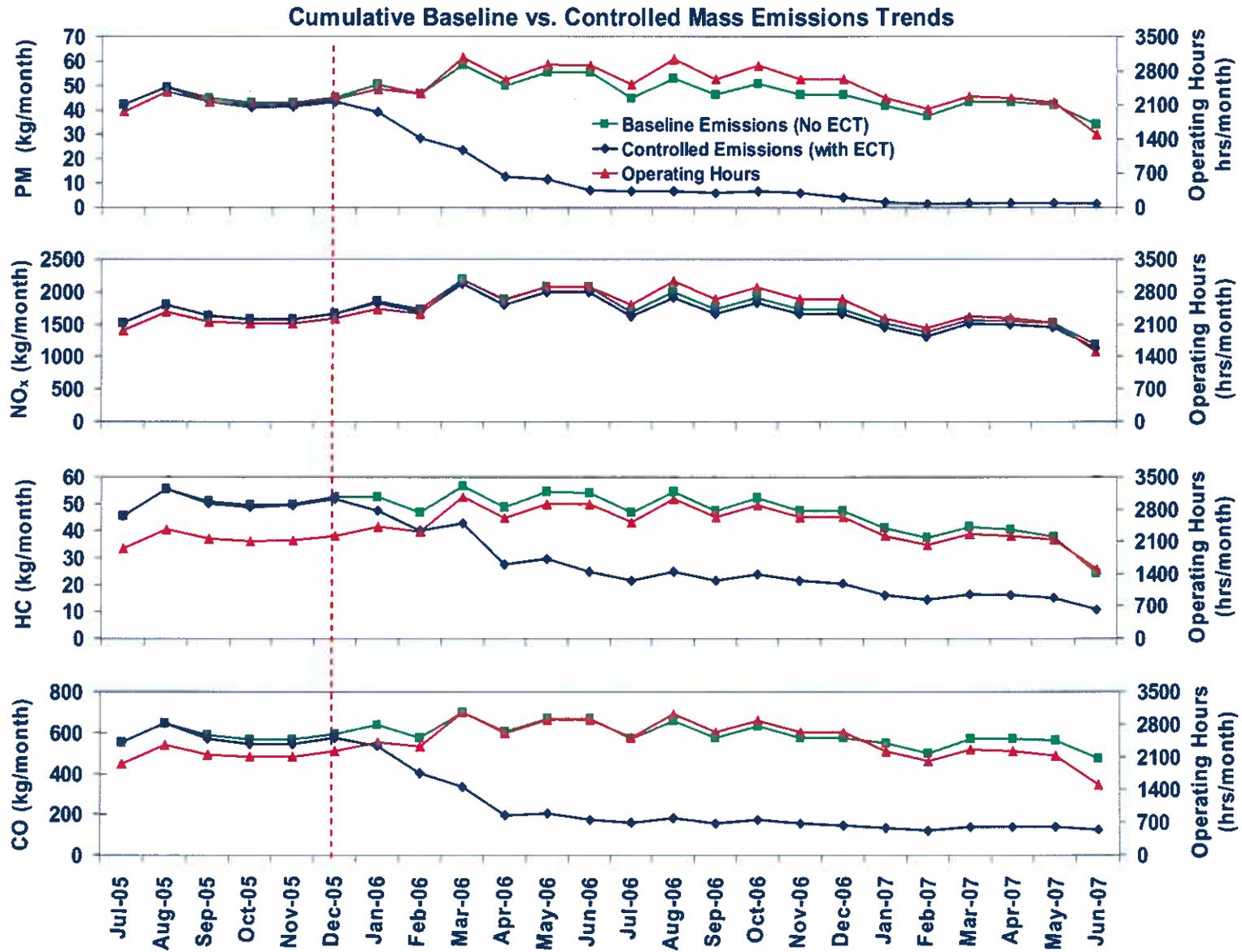


**Note: for detailed information, please see Emisstar's poster**

# Cumulative Emissions Reductions- Results (1)

No.	Type	Chassis Make	Engine Rated hp	Baseline Emission Factors (g/hr)				ECT Removal Efficiency (%)			
				PM	NOx	HC	CO	PM	NOx	HC	CO
1	Compressor	Ingersoll Rand	65	49.88	453.0	65.60	244.2	98	7	75	99
2			170*	10.57	316.4	15.96	37.71	97	67	94	99
3			65	9.381	305.5	23.87	153.8	98	7	75	99
4	Dozer	Komatsu	332*	40.33	866.7	10.44	612.7	97	5	93	99
5			446	40.33	866.7	10.44	612.7	98	7	75	99
6	Excavator	Komatsu	474*	34.99	1303	17.73	229.8	99	12	79	99
7		Hitachi	483*	34.99	1303	17.73	229.8	98	7	75	99
8			483*	34.99	1303	17.73	229.8	98	7	75	99
9		Komatsu	150	24.48	585.7	53.78	204.2	99	5	52	99
10	Hydraulic Drill	Sandvik Tamrock	300	15.28	1302	50.22	254.9	97	0	93	99
11			300	15.28	1302	50.22	254.9	97	0	93	99
12			200	10.03	800.5	61.85	150.6	99	0	52	99
13			200	10.03	800.5	61.85	150.6	99	0	52	99
14			173*	11.63	448.4	7.42	40.15	99	0	52	99
15			173*	11.63	448.4	7.42	40.15	99	0	52	99
16			173*	11.63	448.4	7.42	40.15	99	0	52	99
17			173*	11.63	448.4	7.42	40.15	99	0	52	99
18			173*	11.63	448.4	7.42	40.15	99	0	52	99
19		Furukawa	200	9.65	800.3	61.79	150.2	98	7	75	99
20	Line Drill	Ingersoll Rand	185	72.05	1565	128.1	535.2	99	5	52	99
21			215	10.95	860.7	66.52	162.1	99	5	52	99
22	Loader	Caterpillar	259*	10.94	388.3	7.18	126.8	99	0	52	99
23	Quarry Truck	Terex	700*	21.20	1107	27.48	543.2	85	0	31	34
24			700*	21.20	1107	27.48	543.2	85	0	31	34
25			700*	21.20	1107	27.48	543.2	85	0	31	34

# Cumulative Emissions Reductions- Results (2)



## Real-World Comparisons

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- 0.7 tons of PM removed is equivalent to:
  - Driving 1,200 trucks (2008 MY) around the Croton site (1 mile):
    - 20 times per day
    - 5 days a week
    - For 1 full year
  - Driving 6,300,000 miles in a 2008 MY truck

# DEP Achievements

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- ✓ Cumulative mass emission reductions of 0.7 tons of PM were achieved, while NO<sub>x</sub> was reduced by 1.2 tons, HC by 0.4 tons and CO by 7.1 tons.
- ✓ The resultant data and analysis provides quantitative support for the continued application of BAT as an effective approach to aggressive reduction in PM, NO<sub>x</sub>, HC and CO, where applicable.
- ✓ From a diesel emissions reduction perspective, the test data validates LL77 as an effective regulation that protects public health and improves air quality.

# Acknowledgments

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- New York City Department of Environmental Protection
- Environment Canada
- URS/Malcolm Pirnie
- Schiavone Construction Company
- ECT suppliers and distributors
  - Rypos
  - E Global / ECS
  - HO Penn / Caterpillar
  - Cummins Metropower / Emissions Solutions
  - Johnson Matthey



Thank You

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# Retrofitted Equipment

No.	Type	Chassis			Engine	
		Make	Model	Year	Make	Rated Horsepower (hp)
1	Compressor	Ingersoll Rand	IR 185	1999	John Deere	65
2			P600WIR	2005		170
3			IR185	2006		65
4	Dozer	Komatsu	D155-Ax-5B	2004	Komatsu	332
5			D275-Ax-SB	2005		446
6	Excavator	Komatsu	PC-750	2004	Komatsu	474
7		Hitachi	Z-Axis800	2005	Isuzu	483
8				2005		483
9		Komatsu	PC-200	2005	Komatsu	150
10	Hydraulic Drill	Sandvik Tamrock	Pantera1100	2002	Caterpillar	300
11				2005		300
12			Scout700-B	2005		200
13				2005		200
14			SuperCHA700	2005		173
15				2005		173
16				2005		173
17				2003		173
18			2005	173		
19			Furukawa	HT-1500		2005
20	Line Drill	Ingersoll Rand	ECM-490	1997	Cummins	185
21			ECM-590	2004		215
22	Loader	Caterpillar	966G	2004	Caterpillar	259
23	Quarry Truck	Terex	TR70	2005	Detroit Diesel	700
24				2005		700
25				2005		700

# Equipment - ECT Matrix

No.	Type	Chassis			Engine			ECT	
		Make	Model	Year	Make	Model	Rated hp	Type	Manufacturer
1	Compressor	Ingersoll Rand	IR 185	1999	John Deere	N/A	65	PDPF <sup>1</sup>	ECS <sup>2</sup>
2			P600WIR	2005		61RF8TE	170	SCRT <sup>3</sup> +PDPF	JMI <sup>4</sup>
3			IR185	2006		N/A	65	PDPF	ECS
4	Dozer	Komatsu	D155-Ax-5B	2004	Komatsu	SDA6D140E-3	332	PDPF	ECS
5			D275-Ax-SB	2005		SDA6D140E-3	446		
6	Excavator	Komatsu	PC-750	2004	Komatsu	SAA6D140E-3	474	PDPF	ECS
7		Hitachi	Z-Axis800	2005	Isuzu	GWG1XAB	483		
8				2005			483		
9		Komatsu	PC-200	2005	Komatsu	N/A	150		
10	Hydraulic Drill	Sandvik Tamrock	Pantera1100	2002	Caterpillar	C9	300	PDPF	ECS
11				2005		C9	300		
12			Scout700-B	2005		3126B	200		
13				2005		3126B	200		
14			SuperCHA700	2005		3506E	173		
15				2005		3506E	173		
16				2005		3506E	173		
17				2003		3506E	173		
18				2005		3506E	173		
19		Furukawa	HT-1500	2005		3126B	200		
20	Line Drill	Ingersoll Rand	ECM-490	1997	Cummins	C8.3C	185	PDPF	ECS
21			ECM-590	2004		C8.8	215		
22	Loader	Caterpillar	966G	2004	Caterpillar	317CATAAC	259	PDPF	Caterpillar
23	Quarry Truck	Terex	TR70	2005	Detroit Diesel	12V2000	700	ADPF <sup>5</sup>	RYPOS
24				2005		12V2001	700		
25				2005		12V2002	700		