CITY COUNCIL CITY OF NEW YORK

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TRANSCRIPT OF THE MINUTES

of the

COMMITTEE ON ENVIRONMENTAL PROTECTION

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October 27, 2009 Start: 1:20 pm Recess: 3:10 pm

HELD AT:

Council Chambers City Hall

BEFORE:

JAMES F. GENNARO Chairperson

COUNCIL MEMBERS:

Mathieu Eugene Peter F. Vallone, Jr. G. Oliver Koppell Bill de Blasio Eric Ulrich 1

A P P E A R A N C E S (CONTINUED)

Paul Rush Deputy Commissioner for Water Supply DEP

Steven Schindler Director of Water Quality DEP

Dr. Olga Naidenko Senior Scientist Environmental Working Group

Joshua Gray Natural Resources Defense Council

Fay Muir President Croton Watershed Clean Water Coalition

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 3            |
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| 2  | CHAIRPERSON GENNARO: [Off mic] Are                 |
| 3  | we ready to go? Okay, thank you, thank you.        |
| 4  | Good afternoon and welcome, I'm                    |
| 5  | Councilman Jim Gennaro, Chair of the City          |
| 6  | Council's Committee on Environmental Protection.   |
| 7  | Today we're holding a hearing on                   |
| 8  | Intro 911 to amend the Administrative Code of the  |
| 9  | City of New York in relation to testing by the     |
| 10 | Department of Environmental Protection for the     |
| 11 | presence of pharmaceuticals and personal care      |
| 12 | products in the New York City drinking water       |
| 13 | supply and the effluent from wastewater treatment  |
| 14 | plants.  |
| 15 | On March 10, 2008, the Associated                  |
| 16 | Press released a national investigative news story |
| 17 | on the presence of a wide range of pharmaceutical  |
| 18 | drugs in our national drinking water supply.       |
| 19 | Pharmaceutical drugs, although we all know what    |
| 20 | pharmaceutical drugs are, here we'll go through    |
| 21 | it, are chemicals used for diagnosis, treatment,   |
| 22 | cure, mitigation, or prevention of disease, health |
| 23 | condition, or structure/function of the body and,  |
| 24 | for the purposes of this hearing, includes         |
| 25 | veterinary and illegal, dangerous drugs.           |

According to the article, tests 2 were conducted in the watersheds of 35 of the 62 3 major water suppliers from metropolitan areas in 4 5 the United States. Pharmaceutical products were detected in 28 of those 35 watersheds. 6 However, 7 officials in six of those 28 metropolitan areas 8 did not go on to test their drinking water 9 supplies for the presence of pharmaceuticals. At 10 that time, New York City was one of those six 11 metropolitan areas that did not test its drinking 12 water for the presence of pharmaceuticals, but we know that has changed and we're going to be 13 14 hearing about that.

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15 But we have learned that DEP went 16 on to test our drinking water for pharmaceutical 17 products, although we don't know what 18 pharmaceutical products are being tested for and 19 what the results of those tests may be, that's why 20 we're here today and we're happy that DEP is going 21 to share the results of their good work with us. 22 By contrast, California in 2005, 23 not only began testing drinking water for the 24 presence of pharmaceutical products, but began 25 treating its drinking water to remove traces of

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 5            |
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| 2  | pharmaceutical products. Without an appropriate    |
| 3  | and legislatively authorized pharmaceutical        |
| 4  | testing and treatment program, it is difficult to  |
| 5  | know which pharmaceutical drugs may be present, in |
| 6  | what quantities, and whether any end users may be  |
| 7  | affected.  |
| 8  | After the AP story, at U.S. Senate                 |
| 9  | hearings, Environmental Protection Agency          |
| 10 | Assistant Administrator for Water Benjamin         |
| 11 | Grumbles testified that he sent letters to the     |
| 12 | Directors of state environmental and health        |
| 13 | agencies requesting their assistance in monitoring |
| 14 | for pharmaceuticals and personal care products in  |
| 15 | the waste water, surface water, groundwater, or    |
| 16 | tap water because this type of information can be  |
| 17 | very useful to the EPA as it carries out its       |
| 18 | Contaminant Candidate Listing process to identify  |
| 19 | potential contaminants for unregulated contaminant |
| 20 | monitoring and/or drinking water regulation when   |
| 21 | it revises effluence guidelines and when it        |
| 22 | determines which contaminants are the highest      |
| 23 | priorities for development of new or revised water |
| 24 | quality criteria. Since that initial request, DEP  |
| 25 | has added several additional pharmaceutical        |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 6            |
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| 2  | products to the final Contaminant Candidate        |
| 3  | Listing process, including the antibiotic          |
| 4  | erythromycin, as well as multiple forms of         |
| 5  | estrogenic hormones.                               |
| 6  | Being informed allows us to make                   |
| 7  | personal and make rational choices and Intro 911   |
| 8  | by Council Member Baez, myself, and other Council  |
| 9  | Members, is the first step towards keeping the     |
| 10 | Council and the public informed about              |
| 11 | pharmaceutical and personal care products that may |
| 12 | be present in our drinking water.                  |
| 13 | We did have a previous hearing on                  |
| 14 | this topic, as most folks know who follow the      |
| 15 | issue recall, and I'm grateful that DEP has        |
| 16 | commenced a pilot testing program. We're eager to  |
| 17 | hear the results of that pilot, eager to talk      |
| 18 | about Intro 911 and what role that may play in     |
| 19 | helping the city meet the challenge of             |
| 20 | pharmaceuticals in the water supply.               |
| 21 | I want to thank the staff that made                |
| 22 | this hearing possible: Committee to the Counsel    |
| 23 | Samara Swanston, Policy Analyst Siobhan Watson, my |
| 24 | own Environment Analyst William Murray is here, we |
| 25 | have a new intern in our office, her name is Anna  |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 7           |
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| 2  | Helmond [phonetic], thank you, Anna. She is       |
| 3  | trying to categorize and catalogue all of the     |
| 4  | environmental work that this Committee has done   |
| 5  | over the last eight years, so that's a large      |
| 6  | project to undertakejust gave myself a            |
| 7  | compliment there, so I just snuck that in, you    |
| 8  | know. And I'm happy to see Chris Boyd, the        |
| 9  | architect of many of the early environmental      |
| 10 | successes of this Committee, who served my office |
| 11 | and this Committee and this Council with great    |
| 12 | distinction, it's a pleasure to see Chris here.   |
| 13 | And we also want to give a special                |
| 14 | shout out to Dr. Olga Naidenko, I believe I'm     |
| 15 | saying that right, you came from Washington from  |
| 16 | the Environmental Working Group, whose work we    |
| 17 | relied very heavily on and I appreciate you for   |
| 18 | being here today, and all the other good folks    |
| 19 | from DEP and others who are here to talk about    |
| 20 | this very important issue.                        |
| 21 | We have Council Members Vallone                   |
| 22 | from Queens, Koppell from the Bronx who are here, |
| 23 | grateful to have them with us here today.         |
| 24 | And without further ado, I will ask               |
| 25 | Counsel to the Committee to swear in the first    |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 8            |
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| 2  | panel. I'll thank DEP once again for being here,   |
| 3  | and after you've been sworn in, you can state your |
| 4  | names for the record, do your presentation, and    |
| 5  | proceed with your good testimony. Thanks very      |
| 6  | much. Samara, please.                              |
| 7  | SAMARA SWANSTON: Can you please                    |
| 8  | raise your right hands. Do you swear or affirm to  |
| 9  | tell the truth, the whole truth, and nothing but   |
| 10 | the truth today?                                   |
| 11 | PAUL RUSH: I do.                                   |
| 12 | Good afternoon, Chairman Gennaro                   |
| 13 | and Members of the Committee. I am Paul Rush,      |
| 14 | Deputy Commissioner for Water Supply at DEP. On    |
| 15 | behalf of Acting Commissioner Steven Lawitts,      |
| 16 | thank you for the opportunity to speak to the      |
| 17 | Committee on Introduction 911 regarding the        |
| 18 | testing for the presence of pharmaceuticals and    |
| 19 | personal care products. I will use the shorthand   |
| 20 | designation pharmaceuticals in my testimony. In    |
| 21 | the New York City drinking water supply, I am      |
| 22 | joined by Steven Schindler, Director of Water      |
| 23 | Quality for DEP.                                   |
| 24 | In previous testimony, I spoke                     |
| 25 | about how disconcerting it is to the public to     |
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| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 9            |
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| 2  | learn that even minute amounts of foreign          |
| 3  | substances have been found in drinking water       |
| 4  | across the United States. The compounds in         |
| 5  | question are present in amounts so small they're   |
| б  | barely detectable using the most advanced          |
| 7  | scientific methods available. At such low levels,  |
| 8  | the United States Environmental Protection Agency, |
| 9  | EPA, has affirmed that there are no known health   |
| 10 | effects associated with the presence of trace      |
| 11 | amounts of pharmaceuticals in the water supply.    |
| 12 | To give you a sense of scale based                 |
| 13 | on the parts per trillion levels of pharmaceutical |
| 14 | compounds detected in some water supply systems    |
| 15 | nationally, a person would have to drink one       |
| 16 | million glasses of water to get the dose of even   |
| 17 | one over-the-counter ibuprofen tablet or the       |
| 18 | caffeine in one cup of coffee. Even at eight       |
| 19 | glasses of water per day, this would take the      |
| 20 | average person over 300 years to consume.          |
| 21 | New York City tests its finished                   |
| 22 | tap water, which is the term we use for water that |
| 23 | is ready to be distributed for consumption, for    |
| 24 | approximately 240 chemical constituentswell        |
| 25 | above regulatory requirements. The city performs   |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 10           |
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| 2  | approximately 1,000 tests daily, 35,000 monthly,   |
| 3  | and 400,000 on an annual basis from up to 1,000    |
| 4  | sampling locations throughout the city. Test       |
| 5  | results are reported to our regulators and are     |
| 6  | summarized in our annual report on the quality of  |
| 7  | New York City's drinking water. The results of     |
| 8  | this extensive testing program confirm that New    |
| 9  | York City tap water meets the highest standards of |
| 10 | quality and purity and is among the best in the    |
| 11 | world, and I want to discourage New Yorkers from   |
| 12 | unnecessarily pursuing expensive and               |
| 13 | environmentally less than desirable bottled        |
| 14 | alternatives to the public drinking water supply.  |
| 15 | Just as a point of fact, bottled water is not      |
| 16 | subject to the same high level of regulatory       |
| 17 | scrutiny as public water supplies.                 |
| 18 | When I complete my statement, I                    |
| 19 | will ask Steve Schindler to present to you what    |
| 20 | DEP has been doing since I last appeared before    |
| 21 | this Committee and place that work in context of   |
| 22 | national efforts on the part of EPA, the           |
| 23 | scientific and research communities, and water     |
| 24 | utilities across the country.                      |
| 25 | Our preliminary results indicate                   |
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| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 11           |
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| 2  | the presence of parts per trillion and less of a   |
| 3  | few compounds of emerging interest from a          |
| 4  | scientific and regulatory perspective. Going       |
| 5  | forward, we need to complete the final round of    |
| 6  | sampling, obtain a detailed [off mic] review of    |
| 7  | the contract lab results, a continued interaction  |
| 8  | between DEP and contract lab personnel to address  |
| 9  | quality assurance and quality control issues, QAQC |
| 10 | issues, and additional scientific QA review before |
| 11 | publishing the complete results.                   |
| 12 | Our and others efforts are directed                |
| 13 | at detecting the presence of compounds at          |
| 14 | extremely low levels. On the national level,       |
| 15 | detection is just the start of a long process of   |
| 16 | evaluation on the road to potential regulation of  |
| 17 | any one substance. As you know, EPA maintains an   |
| 18 | active program called the Contaminant Candidate    |
| 19 | List, CCL, to identify contaminants in public      |
| 20 | drinking water that warrant more detailed study.   |
| 21 | Though EPA considers hundreds of pharmaceuticals   |
| 22 | and personal care products for inclusion on the    |
| 23 | CCL, only a small number are included 'cause most  |
| 24 | occur at levels far below the levels associated    |
| 25 | with any human health effects.                     |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 12           |
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| 2  | In a four-year study of the health                 |
| 3  | relevance of trace pharmaceuticals using the       |
| 4  | highest concentrations found and the most          |
| 5  | conservative safety factors, Dr. Shane Snyder, the |
| 6  | Research and Development Project Manager for the   |
| 7  | Southern Nevada Water Authority, reported in a     |
| 8  | peer-reviewed paper on the subject that the        |
| 9  | bottom-line conclusion is that the concentrations  |
| 10 | of pharmaceuticals we studied are orders of        |
| 11 | magnitude lower than would pose a public health    |
| 12 | threat.  |
| 13 | Currently, EPA has drinking water                  |
| 14 | regulations for more than 90 contaminants. The     |
| 15 | listing of contaminants on the final CCL 3,        |
| 16 | published in September 2009, is only one step      |
| 17 | toward determining whether a compound warrants     |
| 18 | regulation as a threat to the water supply. After  |
| 19 | publishing the list, EPA must decide whether to    |
| 20 | regulate at least five contaminants from the list, |
| 21 | called Regulatory Determinations. EPA uses the     |
| 22 | CCL to prioritize research and data collection     |
| 23 | efforts to inform the agency's decision on whether |
| 24 | to regulate a specific contaminant. The presence   |
| 25 | of a compound in the CCL is not a determination    |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 13           |
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| 2  | that the compound is a credible threat or that it  |
| 3  | should be regulated as such.                       |
| 4  | The final CCL 3 includes 104                       |
| 5  | chemicals or chemical groups and 12                |
| 6  | microbiological contaminants. The list includes    |
| 7  | chemicals used in commerce, pesticides, biological |
| 8  | toxins, disinfection byproducts, and waterborne    |
| 9  | pathogens. The contaminants on the list are not    |
| 10 | regulated by existing national primary drinking    |
| 11 | water regulations, are known or anticipated to     |
| 12 | occur in the public water systems, and may impact  |
| 13 | public health. EPA evaluated approximately 7,500   |
| 14 | chemicals and microbes for the final CCL 3.        |
| 15 | Following CCL listing, as required                 |
| 16 | by the Safe Drinking Water Act, EPA then evaluates |
| 17 | the contaminants for suitability for regulation    |
| 18 | according to three types of criteria: health       |
| 19 | effects, occurrence, and analytical methods. In    |
| 20 | other words, EPA must determine on the basis of    |
| 21 | the data it gathers whether the contaminant can be |
| 22 | reasonably well detected, whether it occurs at     |
| 23 | particular levels, and whether the levels at which |
| 24 | it occurs has health effects. If the contaminant   |
| 25 | satisfies the criteria, EPA then, and only then,   |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 14           |
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| 2  | will proceed to regulate it. It is important to    |
| 3  | note that the CCL alone does not impose any        |
| 4  | requirement on public water systems. Before        |
| 5  | regulating a contaminant, EPA would, one, publish  |
| 6  | a preliminary determination to regulate; two,      |
| 7  | issue a final determination; three, publish a      |
| 8  | proposed regulation; and four, issue a final       |
| 9  | regulation. Once a regulation is promulgated,      |
| 10 | public water systems typically have three years to |
| 11 | come into compliance with the new regulation.      |
| 12 | In a comprehensive paper called,                   |
| 13 | The State of Knowledge of Endocrine Disruptors and |
| 14 | Pharmaceuticals in Drinking Water, published by    |
| 15 | the Water Research Foundation with the authors of  |
| 16 | Shane A. Snyder, Brett J. Vanderford of the        |
| 17 | Southern Nevada Water Authority, and Jorg Drewes   |
| 18 | and Eric Dickenson of the Colorado School of       |
| 19 | Mines, Environmental Science and Engineering       |
| 20 | Division, and Erin Snyder, Gretchen Bruce and      |
| 21 | Richard Pleus of Intertox in Seattle, Washington,  |
| 22 | summarize the issue in this way, and I quote,      |
| 23 | "Strong concerns voiced by members of the public   |
| 24 | and environmental groups have prompted proposals   |
| 25 | to set analytical detection limits as regulatory   |

1 COMMITTEE ON ENVIRONMENTAL PROTECTION 15 levels for the concentrations of pharmaceuticals 2 and EDCs in wastewater, recycled reuse water, and 3 drinking water. While regulations might provide 4 some level of comfort, this approach invites 5 criticism for several reasons. 6 First, analytical detection methods 7 are improving at such a rapid rate that they are 8 9 outpacing improvements in treatment technologies. Even if analytical costs are not a consideration, 10 11 it is practically impossible to remove all EDCs 12 and PPCPs in water to levels below achievable 13 detection limits. 14 Second, analytical detection limits 15 have no relationship to health-based standards. 16 As analytical methods continue to improve, it is 17 likely that detection limits for EDCs and PPCPs 18 will frequently fall below levels that produce any 19 known biological effect. 20 Consequently, striving to achieve 21 complete removal will necessitate the use of 22 increasingly expensive treatment technologies with 23 no appreciable health benefit. Ideally, drinking 24 water and wastewater treatment goals should be set for concentrations of contaminants that are safe 25

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 16           |
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| 2  | and can be achieved at reasonable cost."           |
| 3  | While we are focusing on detection                 |
| 4  | of pharmaceuticals in the water, we are mindful    |
| 5  | that it is also important folks on preventing      |
| 6  | these pharmaceuticals from entering the water      |
| 7  | supply by personal disposal. Subsequent to the     |
| 8  | previous hearing, DEP prepared a notice that was   |
| 9  | published by the Catskill Watershed Corporation in |
| 10 | a summer newsletter and in the Watershed           |
| 11 | Agricultural Council's e-newsletter, both          |
| 12 | published this past June. In that notice, DEP      |
| 13 | advised residents to protect the quality of both   |
| 14 | groundwater and surface water in the watershed by  |
| 15 | following the guidelines recommended by the        |
| 16 | federal government for the proper disposal of      |
| 17 | expired and unused prescriptions and over-the-     |
| 18 | counter medications, pets drugs, vitamins,         |
| 19 | sunscreens, fragrances, and other personal care    |
| 20 | products. These guidelines suggest the following:  |
| 21 | one, take unused, unneeded, or expired             |
| 22 | prescription drugs out of their original           |
| 23 | containers and throw them in the trash; two, mix   |
| 24 | prescription drugs with an undesirable substance,  |
| 25 | like used coffee grounds or kitty litter, and then |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 17           |
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| 2  | put them in an impermeable, nondescript container, |
| 3  | such as empty cans or sealable bags, to further    |
| 4  | ensure that the drugs aren't misused; and three,   |
| 5  | flush prescription drugs down the toilet only if   |
| 6  | the label or accompanying patient information      |
| 7  | specifically instructs doing so.                   |
| 8  | With respect to nonhuman impacts, I                |
| 9  | can report that studies have found that in some    |
| 10 | areas pharmaceuticals found in wastewater          |
| 11 | treatment plant effluent may affect the health of  |
| 12 | fish and other aquatic organisms that live in      |
| 13 | receiving waters. Hereto, the risk posed to        |
| 14 | aquatic organisms are unknown, largely because the |
| 15 | concentrations of receiving waters are so low,     |
| 16 | significantly lower than the concentrations        |
| 17 | observed in treated wastewater effluence. While    |
| 18 | the major concerns have been resistance to         |
| 19 | antibiotics and disruption of aquatic endocrine    |
| 20 | systems by natural and synthetic steroids, many    |
| 21 | other pharmaceuticals have unknown consequences.   |
| 22 | More research is needed to draw any conclusion     |
| 23 | about ecological impacts of pharmaceuticals and    |
| 24 | any role they may have in potential human health   |
| 25 | effects. I'll say more about this when I discuss   |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 18           |
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| 2  | the provisions of Intro 911.                       |
| 3  | In previous testimony, I reported                  |
| 4  | to you that one paper, Philips, et al., February   |
| 5  | 2005, based on New York state data suggests that   |
| 6  | conventional wastewater treatment plant processes  |
| 7  | are effective in removing significant amounts of   |
| 8  | these compounds. It also found that more research  |
| 9  | is required to more conclusively establish the     |
| 10 | fate of pharmaceuticals, as they are subject to    |
| 11 | different types of treatment. At this point, it    |
| 12 | is far too early for DEP to make any predictions   |
| 13 | about the long-term need for any particular        |
| 14 | treatment technology as a response to the presence |
| 15 | of pharmaceuticals. After we conclude our pilot    |
| 16 | and submit the published results for scientific    |
| 17 | and peer review, we'll decide on our next steps.   |
| 18 | I would now like to address some of                |
| 19 | the provisions of Intro 911. As we read it, the    |
| 20 | bill calls for testing for PPCPs without any       |
| 21 | limitation or specification. The category PPCPs    |
| 22 | is so large that the testing so costly that any    |
| 23 | sampling program has to be focused on a feasible   |
| 24 | and financially manageable list of representative  |
| 25 | compounds.   |
|    |  |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 19           |
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| 2  | Second, the phrase drinking water                  |
| 3  | treatment plant serving the city and the city's    |
| 4  | watershed requires clarification. The only DEP-    |
| 5  | operated drinking water treatment plants per se in |
| 6  | service in the watersheds are at Kensico Reservoir |
| 7  | and New Croton Reservoir. If the phrase is meant   |
| 8  | to include Wastewater Treatment Plants, WWTPs, in  |
| 9  | the city's watersheds, monitoring for              |
| 10 | approximately 100 compounds at 14 in-city WWTPs    |
| 11 | and at 106 upstate WWTPs in the watersheds will    |
| 12 | cost a minimum of \$2.5 million for a round of     |
| 13 | sampling.  |
| 14 | The bill would require treatment of                |
| 15 | the drinking water supply to remove a contaminant  |
| 16 | listed on the CCL. As I testified earlier, the     |
| 17 | CCL is a list of contaminants in drinking water    |
| 18 | that EPA will evaluate in a multi-step process to  |
| 19 | determine whether there is a need to regulate them |
| 20 | based on the risk of health effects, occurrence,   |
| 21 | and analytic methods. EPA only decides to          |
| 22 | regulate a very small number of the compounds      |
| 23 | listed on the CCL. It would be irresponsible to    |
| 24 | use of funds to remove a contaminant from the      |
| 25 | water supply that may never be deemed in need of   |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 20           |
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| 2  | regulation. It also would be extremely difficult   |
| 3  | to establish a threshold target concentration for  |
| 4  | removal without detailed feasibility studies.      |
| 5  | The provision on the aquatic life                  |
| 6  | criteria is premature. The aquatic life criteria   |
| 7  | represent what used to be called the Ambient Water |
| 8  | Quality Criteria. These were non-enforceable       |
| 9  | guidance published in 1985 and before to deal with |
| 10 | levels of contaminants that represent acute or     |
| 11 | chronic risk to salt water and freshwater aquatic  |
| 12 | organisms. The concept has been proposed to be     |
| 13 | expanded to include more subtle effects due, for   |
| 14 | example, to endocrine disruption. At this point    |
| 15 | it remains only a proposal and it has not been     |
| 16 | adopted by EPA.                                    |
| 17 | We expect that the aquatic life                    |
| 18 | criteria will ultimately represent for receiving   |
| 19 | waters where the CCL represents for drinking       |
| 20 | watera list of contaminants that require           |
| 21 | research into their potential effects on health.   |
| 22 | With regard to wastewater effluent                 |
| 23 | and the receiving waters into which they are       |
| 24 | discharged, we know from work done by the Water    |
| 25 | Research Foundation and the Water Environment      |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 21           |
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| 2  | Research Foundation that pharmaceuticals are       |
| 3  | present at the parts per trillion level. What EPA  |
| 4  | and the scientific community are looking for is    |
| 5  | the connection between the levels of exposure and  |
| 6  | possible toxicity. Rather than invest in           |
| 7  | expensive treatments that may be of questionable   |
| 8  | value, we believe our actions going forward should |
| 9  | be informed by the developing science in this      |
| 10 | area.  |
| 11 | In closing, please be assured that                 |
| 12 | New York City has consistently been ahead of the   |
| 13 | curve in watershed protection efforts. The City    |
| 14 | continues to closely monitor and track all         |
| 15 | research into this issue and will adopt and comply |
| 16 | with any future federal or state mandates.         |
| 17 | In addition, through our                           |
| 18 | subscriptions to the Water Research Foundation and |
| 19 | the Water Environment Research Foundation, we have |
| 20 | supported approximately 57 research projects with  |
| 21 | a total value of over \$16.5 million focused on    |
| 22 | this critical issue. We plan to continue to        |
| 23 | support research into this important issue. Our    |
| 24 | water quality measures have always been consistent |
| 25 | with the state of the science research, and, as    |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 22           |
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| 2  | more is known about this particular issue, we will |
| 3  | continue to modify our policies and infrastructure |
| 4  | accordingly.                                       |
| 5  | That completes my statement. With                  |
| 6  | the Chairman's permission, I would like to ask     |
| 7  | Steve Schindler to complete our testimony with a   |
| 8  | presentation on DEP's pilot program?               |
| 9  | CHAIRPERSON GENNARO: Sure. Thank                   |
| 10 | you, Mr. Rush, I'd be happy to have Mr. Schindler  |
| 11 | do that.   |
| 12 | But first I want to recognize that                 |
| 13 | we've been joined by Council Member Eugene and     |
| 14 | Council Member de Blasio, happy to have them with  |
| 15 | us here today. Oh, I already mentioned Oliver      |
| 16 | Koppell.   |
| 17 | MALE VOICE: Yeah, you did.                         |
| 18 | CHAIRPERSON GENNARO: But the                       |
| 19 | Counsel to the Committee wants Oliver mentioned    |
| 20 | again, which I'm for that, I'm for that.           |
| 21 | And so, please, Mr. Schindler,                     |
| 22 | please proceed.                                    |
| 23 | STEVEN SCHINDLER: Thank you. Mr.                   |
| 24 | Chairman, Council Members, I thank you for the     |
| 25 | opportunity to be here today to talk to you in a   |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 23           |
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| 2  | little bit of detail about the monitoring program  |
| 3  | that we've implemented for the Bureau of Water     |
| 4  | Supply to test pharmaceuticals in our drinking     |
| 5  | water. I do have a PowerPoint presentation         |
| 6  | prepared, so if you'd turn your attention to       |
| 7  | either one of the screens, I'm going to go through |
| 8  | about a dozen slides that will help outline this   |
| 9  | for us.  |
| 10 | By way of introduction, as you've                  |
| 11 | heard, pharmaceuticals can have many sources,      |
| 12 | including sources from wastewater, runoff from     |
| 13 | agricultural fields, urban runoff, air, and other  |
| 14 | sources, so it it's a relatively broad issue, it   |
| 15 | is not a new issue, pharmaceuticals have been      |
| 16 | present in the environments as long as we've been  |
| 17 | using pharmaceuticals. So it's not really a new    |
| 18 | issue for us, but it's become important of late    |
| 19 | due to the fact that the advances that have        |
| 20 | occurred in the analytical capabilities have       |
| 21 | allowed laboratories and other researchers to      |
| 22 | detect these compounds down at parts per trillion  |
| 23 | levels.  |
| 24 | Most of the compounds that are                     |
| 25 | regulated for, set forth by the EPA, are set at    |

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maximum contaminant limits of parts per billion. 2 Parts per trillion is actually a thousand times 3 4 lower than that, and just to put it in context and 5 perspective, if you think of a time, one part per trillion is equal to one second of time in 31,000 6 7 years, so it's a very, very minute amount. We are 8 really not looking for a needle in a haystack, 9 we're looking for a needle in an Iowa cornfield, I 10 mean, that's a very, very low levels. And there 11 are only a few contract laboratories that really 12 have the ability to analyze for these compounds 13 with any confidence down to these very, very low 14 levels.

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15 So our approach in coming up with a 16 program for New York City, we decided to use two 17 contract laboratories because really, as I said, 18 there's only a few laboratories that are doing 19 this and we wanted to be able to have confidence in our data, so we contracted with two 20 21 laboratories. We perform quarterly sampling at 22 our source water locations and we started in 23 January of 2009, we just did our last round of 24 sampling in October. And, as I'm going to go into 25 a little bit of detail on, we thought it was very

COMMITTEE ON ENVIRONMENTAL PROTECTION 25 1 important, because of the fact that we're 2 measuring at low levels and the possible risk of 3 contamination from other sources, that we really 4 5 implement a high degree of both field and 6 laboratory quality control. We're analyzing 10 samples per 7 8 quarter from our three source water locations, 9 that includes the quality control samples that I'm going to talk about. And we also asked the United 10 11 States Geological Survey, since they have many 12 years experience in this, to also collect samples 13 side-by-side with us so we would have another source of information to better understand the 14 15 data that we're collecting. 16 So to outline our three source 17 water locations, we are looking at our Croton 18 Reservoir up in the Croton Watershed, it's at the 19 Croton Lake Gatehouse, that's the raw water that 20 enters in the Croton system. And then we are 21 looking at our two source water locations at 22 Kensico Reservoir, which are the source water 23 locations for the Catskill and the Delaware 24 system. We chose to sample, not in the 25 distribution system, but to sample at our source

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 26           |
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| 2  | water locations because this is water that is      |
| 3  | indicative of what's being delivered to the        |
| 4  | consumer, yet it's prior to any treatment, and we  |
| 5  | know that treatment, such as chlorination, can     |
| 6  | impact the ability to recover some of these        |
| 7  | compounds. So, in order to get a real handle on    |
| 8  | what's in our water supply, we felt it was better  |
| 9  | to do the source water locations.                  |
| 10 | In terms of field quality control,                 |
| 11 | we're using what we call a Clean Hands, Dirty      |
| 12 | Hands technique. These are two of my staff         |
| 13 | actually at one of the sample locations taking one |
| 14 | of the samples for the study and they are wearing  |
| 15 | the PPE, the facemasks and the gloves, not to      |
| 16 | protect themselves from the environment, but it's  |
| 17 | to protect the sample from them, because people    |
| 18 | use pharmaceuticals, it's prevalent in the         |
| 19 | environment, there's a high risk that samples can  |
| 20 | get contaminated. So what we've done here is the   |
| 21 | staff person on the left is our Clean Hands        |
| 22 | person, and the staff person on our right is our   |
| 23 | Dirty Hands person, and the Clean Hands person is  |
| 24 | only allowed to touch the sample bottle and        |
| 25 | actually does the sampling. Whereas, the Dirty     |

1 COMMITTEE ON ENVIRONMENTAL PROTECTION 27 Hands person handles the outer pouch that the 2 sample goes into and handles any work that's 3 needed to be done at the site, such as recording 4 5 information in a logbook. And this is similar to the concept that you see in the microchip 6 7 technology where you have be very careful about 8 contamination. 9 This is a picture of our sample collector actually taking a field blank. 10 I'm 11 going to talk a little bit about what field blanks 12 are, but I wanted to point out that there's 13 special bottles that are needed for this type of 14 They're bottles that are prepared by the work. 15 laboratory with specialized cleaning procedures 16 and they're shipped to us for the sampling. 17 And finally, this is putting the 18 sample in the inner pouch, which then goes into an 19 outer pouch in preparation for shipment off to the 20 contract laboratory. And there's a little 21 indication of where the actual sample tap is in 22 the Croton Lake Gatehouse. 23 So it's part of our field quality 24 control to really control against contamination 25 and to make sure that the data that we are getting

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 28           |
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| 2  | out of this study are reflective of what's in the  |
| 3  | water and not some other source, as I said, we     |
| 4  | have strong field quality control. We're taking    |
| 5  | 10 samples per quarter, only three of them are     |
| 6  | actually samples from the water supply. There is   |
| 7  | also three duplicate samples, actually those are   |
| 8  | taken from the water supply also, but it's to      |
| 9  | compare and make sure that we don't have           |
| 10 | contamination between one sample versus another,   |
| 11 | we should be getting the same data from both the   |
| 12 | sample and the sample duplicate, so that's a       |
| 13 | tested precision.                                  |
| 14 | We also are taking trip blanks,                    |
| 15 | field blanks, laboratory fortified matrix samples. |
| 16 | These are essentially pure water that's free of    |
| 17 | contaminants that's either from the laboratory or  |
| 18 | fortified with known amounts of compounds that     |
| 19 | actually take the trip with the samples, are       |
| 20 | exposed to the same environment that the samples   |
| 21 | are, and that's really to check for any            |
| 22 | contamination during the sampling process.         |
| 23 | So after samples are taken, they're                |
| 24 | sent off to the laboratory, and, of course, you're |
| 25 | going to have the same potential of contamination  |

1 COMMITTEE ON ENVIRONMENTAL PROTECTION 29 by the staff that are analyzing the samples, so 2 you have to implement a pretty rigid quality 3 control program in the laboratory itself. The 4 5 contract laboratories that we use are running 6 blanks, which are essentially clean water to 7 verify that there's not laboratory contamination, 8 they're adding spikes, which is a known amount of 9 compound to make sure there's no interferences 10 with the sample matrix and the ability to detect 11 the compounds, they're doing duplicates for 12 precision. And then there is internal standards 13 and surrogate standards, which are other chemicals 14 are added to the samples to make sure that the 15 instruments are performing properly and that the 16 sample preparation steps are being performed 17 properly. And this is actually a picture from 18

10 And this is actually a picture from 19 the contract laboratory that we are using. I had 20 the opportunity to go out to the lab to visit and 21 inspect their facility, I was very impressed. 22 They have two instruments that are dedicated to 23 this work and they have a research scientist who's 24 dedicated to this type of analysis who's always 25 looking at ways to improve the laboratory's

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 30           |
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| 2  | ability to detect these compounds and improve the  |
| 3  | limits of detectionhow low they can detect the     |
| 4  | compounds.   |
| 5  | In any projects such as this, you                  |
| 6  | do have quality control issues. We've had some     |
| 7  | minor issues with our laboratories as we've gone   |
| 8  | through the project and they've gained more        |
| 9  | experience, both with our samples and with         |
| 10 | improving the method. We see that the number of    |
| 11 | problems they've had have actually decreased.      |
| 12 | Laboratory A is our primary laboratory, Laboratory |
| 13 | B is our supplemental lab, and as you can see, in  |
| 14 | both cases, the number of issues with quality      |
| 15 | control has decreased as we've gone through this   |
| 16 | project.   |
| 17 | So just summarizing our program,                   |
| 18 | where we're at this point, we're very pleased with |
| 19 | it, we think it's been very successful. We have    |
| 20 | good agreement between our duplicate samples,      |
| 21 | we've had very few instances where we've had       |
| 22 | contamination of our blanks, so that's an          |
| 23 | indication that our method of Clean Hands versus   |
| 24 | Dirty Hands is really working. It is fairly        |
| 25 | labor-intensive and does require a fair amount of  |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 31           |
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| 2  | care to make sure it's done properly, but we think |
| 3  | that's definitely worth it. There's been other     |
| 4  | studies that have been done where some of the data |
| 5  | may be questionable because of sources of          |
| 6  | contamination, so we're pretty comfortable that    |
| 7  | our program's working well in that regard.         |
| 8  | We're also seeing relatively good                  |
| 9  | agreement between the two laboratories that we're  |
| 10 | using, so that's an indication that will allow us  |
| 11 | to really have confidence in the data.             |
| 12 | And lastly, like any scientific                    |
| 13 | process, we need to really complete the process of |
| 14 | looking at all of the data and all of the quality  |
| 15 | control data that go along with the samples to     |
| 16 | ensure that we're interpreting the data correctly  |
| 17 | before we actually publish the final results. So   |
| 18 | we are waiting for the results from our fourth-    |
| 19 | quarter sampling and, once we receive those, we're |
| 20 | going to be beginning that process of scientific   |
| 21 | and peer review before we publish.                 |
| 22 | That concludes my presentation.                    |
| 23 | We'd be happy to answer any questions.             |
| 24 | CHAIRPERSON GENNARO: Thank you.                    |
| 25 | Thank you, Mr. Schindler, and thank you,           |

1 COMMITTEE ON ENVIRONMENTAL PROTECTION 32 Commissioner Rush. And when do you think we might 2 be able to see the results from the pile, that's, 3 of course, something that we would be eager to 4 5 find out what the results are, and what other entities these results would be shared with. Ι 6 know that there are people doing different kinds 7 of testing programs and protocols throughout the 8 9 country and there is quite interest in this among all the cities that are doing it, and the EPA is 10 11 asking people what they're doing, and the USGS is 12 involved and there's this output of information. 13 So I guess the first part of the question is, when 14 would this body hear about the results of the 15 test, and what plans does DEP have to share its 16 information with other entities that are eager to get more information about this growing area of 17 18 scientific inquiry? 19 PAUL RUSH: We made it very clear

the last time we were here how important this information is to the City and getting it done as quickly as possible and we want to make sure when we share that information that it's information we can stand behind as correct, true information so people can have confidence in the water that's

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 33          |
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| 2  | delivered. We want to share it as quickly as      |
| 3  | possible with the Committee and with others. I    |
| 4  | mean, our goal is to be able to present           |
| 5  | information by January, ensure it by January, we  |
| 6  | think, unless there's something that comes out of |
| 7  | this fourth round as very unusual, we hope by the |
| 8  | end of January we should be able to share that    |
| 9  | information.                                      |
| 10 | CHAIRPERSON GENNARO: And that                     |
| 11 | would be not only with us, but with what other    |
| 12 | entities? Like the USGS, the EPA, the state       |
| 13 | health department, or like who would be and is    |
| 14 | there a formal mechanism for doing it? 'Cause it  |
| 15 | seems that EPA has really reached out to folks    |
| 16 | wanting to know what they're doing, what they're  |
| 17 | testing for, what they're looking for, so how     |
| 18 | would all of that work?                           |
| 19 | PAUL RUSH: We have briefed state                  |
| 20 | health, city health, and EPA is aware of the      |
| 21 | program we're conducting right now, and we will   |
| 22 | certainly share that information with them, as    |
| 23 | well as with USGS, who's been conducting samples  |
| 24 | in parallel with us at this part of this program. |
| 25 | CHAIRPERSON GENNARO: So they're                   |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 34           |
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| 2  | sampling at the same locations, looking for the    |
| 3  | same things, is that what USGS is doing?           |
| 4  | STEVEN SCHINDLER: We asked the                     |
| 5  | USGS to sample with us at the same locations at    |
| 6  | the same time, side-by-side, so they're pulling    |
| 7  | samples along with our staff, using the techniques |
| 8  | that they use normally for their programs that     |
| 9  | they do. They're analyzing for                     |
| 10 | CHAIRPERSON GENNARO: [Interposing]                 |
| 11 | They have their own analytical capabilities, their |
| 12 | own sort of like in-house labs that would do this, |
| 13 | do they have that kind of                          |
| 14 | STEVEN SCHINDLER: Yes.                             |
| 15 | CHAIRPERSON GENNARO:capability?                    |
| 16 | Okay.  |
| 17 | STEVEN SCHINDLER: Yes, they have                   |
| 18 | their own laboratory that they've used for the     |
| 19 | research that they've been doing for quite some    |
| 20 | time, so we wanted to compare what we're doing     |
| 21 | with what they're doing.                           |
| 22 | With regards to the question of the                |
| 23 | chemicals, there are some chemicals that we're     |
| 24 | doing that they're doing and there are some that   |
| 25 | are going to be different. So I don't have the     |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 35           |
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| 2  | full list of chemicals at my fingertips that       |
| 3  | they're doing, but there will be some chemicals    |
| 4  | that we'll be able to share and we'll be able      |
| 5  | CHAIRPERSON GENNARO: Right.                        |
| 6  | STEVEN SCHINDLER:compare.                          |
| 7  | CHAIRPERSON GENNARO: But would it                  |
| 8  | be fair to say that we are testing for things that |
| 9  | they are not testing for, and they are testing for |
| 10 | things that we're not testing for; or is our       |
| 11 | testing protocol like just a subset of what        |
| 12 | they're doing and their testing list of chemicals  |
| 13 | is more comprehensive than ours? How does the      |
| 14 | comparison work?                                   |
| 15 | STEVEN SCHINDLER: I'm going to                     |
| 16 | have to get back to you with the specific          |
| 17 | information, but I believe that they are testing   |
| 18 | for all of the chemicals that we're testing for    |
| 19 | CHAIRPERSON GENNARO: [Interposing]                 |
| 20 | Plus others.                                       |
| 21 | STEVEN SCHINDLER:plus there's                      |
| 22 | others that they have been doing as part of their  |
| 23 | routine research. The list of chemicals that we    |
| 24 | came up with was selected based on other studies   |
| 25 | that had been done within our watershed and other  |
|    |  |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 36           |
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| 2  | studies that had been done on a national level.    |
| 3  | But the methods are always improving or being      |
| 4  | developed, so the USGS has been adding chemicals   |
| 5  | on a regular basis to their suite of things that   |
| 6  | they do.   |
| 7  | CHAIRPERSON GENNARO: Right, and                    |
| 8  | for [off mic] but how many substances are we       |
| 9  | looking for in our testing protocol? How many      |
| 10 | substances are we looking for?                     |
| 11 | STEVEN SCHINDLER: We're testing                    |
| 12 | for approximately 90 different substances as part  |
| 13 | of this  |
| 14 | [Crosstalk]  |
| 15 | CHAIRPERSON GENNARO: [Interposing]                 |
| 16 | Ninety, nine                                       |
| 17 | STEVEN SCHINDLER: Ninety.                          |
| 18 | CHAIRPERSON GENNARO:yeah. And                      |
| 19 | do we have a sense of how many substances the USGS |
| 20 | is testing for?                                    |
| 21 | STEVEN SCHINDLER: It's probably                    |
| 22 | slightly more than that, we would have to get back |
| 23 | to you with the specific                           |
| 24 | CHAIRPERSON GENNARO: Right.                        |
| 25 | STEVEN SCHINDLER:information.                      |
|    |  |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 37           |
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| 2  | CHAIRPERSON GENNARO: Do you have                   |
| 3  | any insight on the types of substances that they   |
| 4  | would have that are not currently part of our      |
| 5  | protocol?  |
| 6  | PAUL RUSH: That USGS is testing                    |
| 7  | CHAIRPERSON GENNARO: Yeah, yeah.                   |
| 8  | PAUL RUSH:we don't have that                       |
| 9  | information today, Mr. Chairman, we will gather    |
| 10 | that and we can get that to the Committee.         |
| 11 | CHAIRPERSON GENNARO: Now, of                       |
| 12 | course, our reason for getting involved in the     |
| 13 | first place was all of the release of information  |
| 14 | the AP story, there's all kinds ofthere was a      |
| 15 | study that was done and, in response to this       |
| 16 | phenomenon, most of those watersheds that were     |
| 17 | shown to have pharmaceuticals and similar products |
| 18 | in the water supply commence some kind of testing  |
| 19 | regimen and do we have any insight on what some of |
| 20 | theseon the jurisdictions like Philadelphia are    |
| 21 | testing for and how they're testing for it and     |
| 22 | where they are in the process of what they're      |
| 23 | doing? It's a, I guess, quite a New                |
| 24 | York/Philadelphia story these days and we want to  |
| 25 | make sure we keep up with Philadelphia in all ways |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 38           |
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| 2  | possible, and so do we have any insight into what  |
| 3  | they're doing though, them and other jurisdictions |
| 4  | that have done this? I mean, is there, for         |
| 5  | example, collaboration between what we're doing    |
| 6  | and some of these other major suppliers and what   |
| 7  | they're doing and who they're doing it with and    |
| 8  | how it's going and that kind of thing?             |
| 9  | PAUL RUSH: On this issue, Mr.                      |
| 10 | Chairman, we have improved our coordination        |
| 11 | collaboration and understanding what's going on    |
| 12 | with other utilities, including Philadelphia where |
| 13 | we've had conversations with them, they have a     |
| 14 | program of monitoring in place. We're also         |
| 15 | participating in the research that's going on      |
| 16 | through the Water Research Foundation on           |
| 17 | understanding this issue and Dr. David Lifski      |
| 18 | [phonetic] from our staff is a member of an        |
| 19 | advisory committee on one of the research specific |
| 20 | topics on this                                     |
| 21 | [Crosstalk]  |
| 22 | CHAIRPERSON GENNARO: [Interposing]                 |
| 23 | Just hang on one second, if I could ask the        |
| 24 | Sergeant to close the door outside, we're getting  |
| 25 | some chit-chat wandering in here. We don't want    |

COMMITTEE ON ENVIRONMENTAL PROTECTION 39 1 any of our chit-chat to get out either, this is 2 important stuff. 3 PAUL RUSH: In understanding what 4 5 other utilities are doing, what makes the most 6 sense scientifically, we're committed to improving 7 that understanding. Philadelphia was doing 8 testing before we were doing testing, we were not 9 involved in some of the earlier research in this 10 issue. 11 In terms of being involved in the 12 earlier research, you can look back and say maybe 13 we should have been involved in that research, but 14 what's important to us is that this is drinking 15 water, the people of New York City rely on it, people have to have confidence in that, and the 16 17 more we understand about the water and what's in 18 the water, I think improves the confidence 19 consumers can have in us as an agency and the city 20 in terms of delivering a product that they can 21 rely on and feel comfortable about. 22 CHAIRPERSON GENNARO: Certainly 23 that makes sense. Now with regard to Intro 911, 24 of course, that was our natural response as a 25 legislative committee, issue comes up, what do

1 COMMITTEE ON ENVIRONMENTAL PROTECTION 40 legislative committees do, they legislate, you 2 know? You go to a surgeon and you indicate to him 3 or her that you have a problem, like don't be 4 5 surprised if he or she says surgery. And so that's what we do here, and sometimes it's very 6 7 helpful to crystallize the City's focus on a 8 particular challenge through a legislative 9 instrument that makes people really focus on what we're going to be doing as far as the testing, as 10 11 a whole rulemaking thing. And we can do this, I 12 think, in such a way that it's common sense, it's practical, it's evolving, and it would allow for 13 changes in technologies. Like we're smart enough, 14 15 this Council and the Bloomberg Administration, to 16 create a legislative instrument that will serve 17 New Yorkers well and have to be carried out by future Councils and future Administrations that 18 19 may or may not have the same dedication to public 20 health as does the Bloomberg Administration and 21 this Council, you see where I'm going here. And 22 that it would be great to figure out a way to do a 23 bill that would certainly not require the 24 Administration that is DEP to do things that 25 didn't make any economic sense, but it would be

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| 2  | something that would demonstrate in a very formal  |
| 3  | way city government's overall commitment, your     |
| 4  | branch and our branch of government to making sure |
| 5  | that, as a baseline, we do such things and that    |
| 6  | we're participating in the national dialogue on    |
| 7  | this issue.  |
| 8  | And I can certainly appreciate some                |
| 9  | of the comments that were made regarding Intro     |
| 10 | 911, certain elements that would have to be        |
| 11 | defined a little better, certain elements that can |
| 12 | be rewritten so that they were more practical,     |
| 13 | whatever, and that's what the legislative process  |
| 14 | is about. But we would be inclined to work with    |
| 15 | the Administration in a very cooperative way to    |
| 16 | come up with a piece of legislation that we both   |
| 17 | liked and thought was prudent and that would serve |
| 18 | well successive administrations and councils and   |
| 19 | would be there to guide our folks to make sure     |
| 20 | that this always got the priority that it really   |
| 21 | deserves. Because once you look at some of the     |
| 22 | science that was put forward in the excellent      |
| 23 | briefing paper that was developed by the staff,    |
| 24 | and I want to thank the staff for that, some of    |
| 25 | the folks who are coming forward about the effects |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 42           |
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| 2  | of these substances on fish and other species,     |
| 3  | pretty, if I can use a technical term, pretty      |
| 4  | funky stuff that has happened to some of these     |
| 5  | creatures, it certainly gives us pause and we want |
| 6  | to make sure that we're doing whatever we can.     |
| 7  | And what would be, do you think,                   |
| 8  | the Administration's disposition towards working   |
| 9  | with the Council to come up with a bill that we    |
| 10 | would work on collaboratively to make sure that    |
| 11 | was prudent and not over the top, but would really |
| 12 | set a standard for this area of endeavor? Do you   |
| 13 | believe that there is receptivity in the           |
| 14 | Administration for working with us to craft such a |
| 15 | bill?  |
| 16 | PAUL RUSH: Chairman Gennaro,                       |
| 17 | you've always been on the forefront in terms of    |
| 18 | protecting the City's water supply throughout the  |
| 19 | years you've been here, which we certainly         |
| 20 | appreciate and we'd be more than willing to work   |
| 21 | together with the Committee in terms of developing |
| 22 | a bill that would meet the needs in a way that     |
| 23 | would be conducive to protecting the water supply. |
| 24 | CHAIRPERSON GENNARO: Well that is                  |
| 25 | very good to hear, we would like working with DEP  |

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on these things. And you mentioned some of the 2 technical difficulties of testing various effluent 3 4 from all the water treatment plants, I guess 5 however many there are in the watersheds, and whether that would be feasible, practical, whether 6 that's even the place to do it, how much it would 7 cost to do it there. But we're not the 8 9 penultimate experts in coming up with the perfect 10 bill and that's why we would really need the full 11 cooperation of the Administration to put together 12 something that made a lot of sense and would be of 13 help, not only to this jurisdiction, but to other 14 water supply systems around the country who are 15 looking at this and they can say, oh, look at what New York City has done, they did something that 16 17 makes sense and their situation is similar to our 18 situation and maybe we could do something like 19 that. And it wouldn't be the first time that the 20 good work of DEP and the City Council and the City 21 government of New York was replicated for the 22 benefit of other jurisdictions.

So thank you for that little
handshake here, it looks like we have a deal.
And let me see if I have further

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 44           |
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| 2  | questions for you on this. Staff submitted some    |
| 3  | of their own thoughts, I want to make sure that I  |
| 4  | cover the bases. [Pause] Okay, my legal counsel,   |
| 5  | who's very wise, has said thatI can paraphrase     |
| 6  | here, that you've sold the product, Mr. Chairman,  |
| 7  | and like once you've sold the product, you don't   |
| 8  | continue to keep selling it. I worked in my        |
| 9  | father's jewelry store once upon a time and once   |
| 10 | you get the customer to say like, I'll take it,    |
| 11 | then he said you just immediately like change the  |
| 12 | topic on how's the weather, how's this, how's      |
| 13 | that, or whatever. Once you've sold something,     |
| 14 | don't continue to sell it because you may get the  |
| 15 | buyer to change their minds or whatever.           |
| 16 | And so [off mic] the following, let                |
| 17 | me thank you for the good efforts that you put     |
| 18 | forward since our last hearing on this. You        |
| 19 | didn't just come here and listen to us, you went   |
| 20 | out, you did this whole program, you're working    |
| 21 | with the best labs in the country, you're talking  |
| 22 | to other jurisdictions that are grappling with     |
| 23 | this evolving field, you made a commitment to work |
| 24 | with us to come forward to ultimately craft a      |
| 25 | prudent bill that will do the needful, and hard to |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 45           |
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| 2  | ask for more than that.                            |
| 3  | And so I wish you well in your                     |
| 4  | efforts and we look forward to getting the results |
| 5  | of the study when it makes sense to make them      |
| 6  | available, and we'll work together to take on this |
| 7  | issue and many other issues that are facing the    |
| 8  | water supply.                                      |
| 9  | Even though this hearing is not                    |
| 10 | about gas drilling, I will thank you, Commissioner |
| 11 | Rush, for your efforts to put together that final  |
| 12 | work product that you brought before the Committee |
| 13 | two business days ago, and so you're getting some  |
| 14 | frequent flyer miles from the Committee that are   |
| 15 | redeemable for nothing, but we certainly thank you |
| 16 | and we look forward to working with you. With      |
| 17 | that said, appreciate you being here very much and |
| 18 | we'll work together to get this to happen.         |
| 19 | PAUL RUSH: Thank you very much.                    |
| 20 | CHAIRPERSON GENNARO: You bet.                      |
| 21 | Okay, thank you. [Pause] This is doctor, right?    |
| 22 | FEMALE VOICE: Mm-hmm.                              |
| 23 | CHAIRPERSON GENNARO: Okay. Dr.                     |
| 24 | Olga Naidenko of the Environmental Working Group,  |
| 25 | we made reference to your work and your efforts,   |

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| 2  | and we appreciate you being here. Coming all the |
| 3  | way up from Washington. You can give your        |
| 4  | statement to the Sergeant.                       |
| 5  | [Off mic]  |
| 6  | CHAIRPERSON GENNARO: Okay, Doctor,               |
| 7  | thank you very much for being with us today. My  |
| 8  | staff speaks glowingly of your efforts on this   |
| 9  | issue, we certainly appreciate that. We'll have  |
| 10 | the Counsel to the Committee swear you in, maybe |
| 11 | state your name for the record, and proceed with |
| 12 | your testimony.                                  |
| 13 | DR. OLGA NAIDENKO: Thank you                     |
| 14 | [Crosstalk]                                      |
| 15 | SAMARA SWANSTON: Please raise your               |
| 16 | right hand.                                      |
| 17 | DR. OLGA NAIDENKO: Oh, yes.                      |
| 18 | SAMARA SWANSTON: Do you swear or                 |
| 19 | affirm to tell the truth, the whole truth, and   |
| 20 | nothing but the truth today?                     |
| 21 | DR. OLGA NAIDENKO: Yes, I do.                    |
| 22 | CHAIRPERSON GENNARO: Thank you,                  |
| 23 | thank you, Doctor.                               |
| 24 | DR. OLGA NAIDENKO: Thank you, Mr.                |
| 25 | Chairman. My name is Olga Naidenko and I am a    |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 47           |
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| 2  | senior scientist at the Environmental Working      |
| 3  | Group, a non-profit research and advocacy          |
| 4  | organization in Washington, D.C. Environmental     |
| 5  | Working Group maintains a national tap water       |
| 6  | quality database where people can find what urban, |
| 7  | industrial, or agricultural pollutants may be      |
| 8  | present in their drinking water. EWG is actually   |
| 9  | involved in research and policy work on tap water  |
| 10 | quality and protection of drinking water sources.  |
| 11 | Thank you for the opportunity to                   |
| 12 | testify at today's hearing. With this testimony,   |
| 13 | we express our strong support for the proposed law |
| 14 | that would require testing for pharmaceuticals and |
| 15 | personal care product chemicals in the New York    |
| 16 | City drinking water supply. I will address three   |
| 17 | key points and details for those points are in my  |
| 18 | written testimony submitted for the record.        |
| 19 | First, the full spectrum of                        |
| 20 | pharmaceuticals and related contaminants in the    |
| 21 | New York City drinking water supply is currently   |
| 22 | unknown. This gap must be urgently remedied by     |
| 23 | annual water quality monitoring. As we already     |
| 24 | heard today, government agencies, news media, and  |
| 25 | the general public are very concerned about the    |

1 COMMITTEE ON ENVIRONMENTAL PROTECTION 48 presence of human and veterinary medicines in 2 drinking water. Often we hear statements that no 3 4 individual pharmaceutical is present at the 5 medically [off mic] dose. This is probably true, but we also know that drug interactions can pose 6 special health dangers [off mic] in cases in the 7 8 hospital and we also know that some [off mic] 9 substances can act at very low dose, so we definitely can not dismiss the risks about the 10 11 presence of pharmaceuticals in water. 12 The first step to tackle this challenges is to find out what pharmaceuticals may 13 14 be actually found in the New York City drinking 15 water supply. With this law, the City will be 16 able to devise a science-based policy by collecting real data and developing the necessary 17 18 information for any mitigation steps that may be 19 needed to avoid the risks to people and the 20 environment. 21 My second point, the results of the 22 testing must be fully disclosed in order to 23 maintain the public's confidence in the health and 24 safety of the drinking water. We all know that 25 members of the public will not want to wake up in

COMMITTEE ON ENVIRONMENTAL PROTECTION 49 the morning and read about anti-convulsive medications in their tap water--that definitely does not help the public confidence. And importantly, drinking water utilities are very supportive of this disclosure. For example, last

year, in response to the AP story, the Association

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8 of Metropolitan Water Agencies and Organization of Drinking Water Supplies made the following 9 statement: "Water utilities should take steps to 10 11 keep their consumers informed of their efforts to 12 monitor and remove pharmaceuticals from water 13 sources. Just as water utilities need data to make informed decisions, we believe that consumers 14 15 should have the information they need to make 16 personal health decisions."

17 EWG strongly supports the provision 18 of the proposed law that would require the 19 submission of an annual report on the results of water quality testing. We also urge the City to 20 21 make this data publicly available, for example, 22 via the Department of Environmental Protection 23 website. This degree of transparency is 24 absolutely essential in order to maintain public 25 confidence in tap water.

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| 2  | And third and final point, we need                 |
| 3  | a [off mic] robust dataset on the occurrence of    |
| 4  | pharmaceutical contaminants so that we can develop |
| 5  | appropriate economically feasible plans for the    |
| 6  | protection of drinking water, as well as for the   |
| 7  | survival and thriving of aquatic life.             |
| 8  | As we heard today, certainly there                 |
| 9  | are costs for conducting this test. It is very     |
| 10 | possible that some additional treatment systems    |
| 11 | may be necessary to install, but the data that     |
| 12 | will be collected under the proposed law will      |
| 13 | actually allow the City to save money by focusing  |
| 14 | on the highest priority, we need to know what's    |
| 15 | out there so that they can treat for those         |
| 16 | specific contaminants. So we need to know what     |
| 17 | pharmaceuticals are found, which ones pose the     |
| 18 | greatest health risks, where they are primarily    |
| 19 | released, and what treatments will be most         |
| 20 | effective to tackle the kinds of pollutants which  |
| 21 | affect the New York City drinking water supply.    |
| 22 | We also fully agree with the                       |
| 23 | provision of the law that focuses on protection of |
| 24 | aquatic life. In the recently published study,     |
| 25 | EPA researchers reported that pharmaceuticals and  |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 51           |
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| 2  | personal care product chemicals accumulate in      |
| 3  | fish. We are concerned that there may be human     |
| 4  | health outcomes of cumulative exposure to          |
| 5  | pharmaceuticals, both for forms of waters that     |
| 6  | people drink, as well as for fish, especially for  |
| 7  | people who are active in recreational fishing,     |
| 8  | which is a common pastime for many people who live |
| 9  | in New York City and nearby communities. And we    |
| 10 | all have heard stories about contaminants such as  |
| 11 | PCBs, that they accumulate in water, then in fish, |
| 12 | and people basically get accumulative exposure.    |
| 13 | We know that aquatic species often                 |
| 14 | serve as sentinels for human health, so if we want |
| 15 | to forestall any potential human health problems   |
| 16 | due to these pharmaceuticals, we need to ensure    |
| 17 | that these contaminants would not pose an adverse  |
| 18 | impact on aquatic ecosystems.                      |
| 19 | We fully understand that this is a                 |
| 20 | very complex problem, that [off mic]               |
| 21 | pharmaceuticals in the nation's waters needs a     |
| 22 | comprehensive response by policy makers, drinking  |
| 23 | water and wastewater utilities, scientists,        |
| 24 | individual citizens, as well as, very importantly, |
| 25 | pharmaceutical industry. And right now             |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 52           |
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| 2  | pharmaceutical industry basically gets a free      |
| 3  | pass, they are not responsible for the end of life |
| 4  | fate of their product and this is bad, but this a  |
| 5  | problem that will need to be tackled on the        |
| 6  | federal level.                                     |
| 7  | We also are very supportive of the                 |
| 8  | programs that aim to capture as much pollution as  |
| 9  | possible at the source, for example, places such   |
| 10 | as hospitals.                                      |
| 11 | We commend the Council for                         |
| 12 | considering this important measure that will       |
| 13 | protect public health from potential adverse       |
| 14 | effects of lifelong cumulative exposure to         |
| 15 | mixtures of multiple pharmaceuticals and endocrine |
| 16 | disrupting chemicals in drinking water and our     |
| 17 | children will certainly thank us for doing this    |
| 18 | right now to protect the health of future          |
| 19 | generations.                                       |
| 20 | Thank you for the opportunity to                   |
| 21 | testify. Environmental Working Group will be very  |
| 22 | happy to work with the Council in any way we can   |
| 23 | to help you advance this important law.            |
| 24 | CHAIRPERSON GENNARO: Thank you,                    |
| 25 | thank you, Doctor, thank you so much, and also the |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 53           |
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| 2  | Environmental Working Group for putting so much    |
| 3  | effort into this, and you're doing a great service |
| 4  | for the entire country for being real leaders on   |
| 5  | this issue. And certainly I know that I can count  |
| 6  | on the Environmental Working Group to help us as   |
| 7  | we try to craft a bill that is the best bill that  |
| 8  | we can get here in New York City. Do I have your   |
| 9  | commitment to help us in doing that?               |
| 10 | DR. OLGA NAIDENKO: Absolutely so,                  |
| 11 | as we already heard today, it's like which list do |
| 12 | we use, which contaminants we go after. We fully   |
| 13 | understand that we need to consider costs and the  |
| 14 | [off mic] of best available science and we stand   |
| 15 | ready to help in any capacity we can.              |
| 16 | CHAIRPERSON GENNARO: Thank you,                    |
| 17 | thank you. And also is this something you're       |
| 18 | doing with other jurisdictions? You're involved    |
| 19 | in their efforts to try to tackle thisoh, I'm      |
| 20 | sorry, I'm sorry, I want to recognize Council      |
| 21 | Member Ulrich from Queens, I didn't see him come   |
| 22 | in, but a valued member of this Committee, thank   |
| 23 | you very much for being here, Eric.                |
| 24 | And are you working with other                     |
| 25 | jurisdictions that are trying to tackle this       |

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 54           |
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| 2  | problem or just trying to do consciousness raising |
| 3  | among other jurisdictions that they should be      |
| 4  | doing something on this? Like, what do you         |
| 5  | reference around the country? Like what do they    |
| 6  | consist of?  |
| 7  | DR. OLGA NAIDENKO: We are not                      |
| 8  | working with other jurisdictions right now on      |
| 9  | specific issue of pharmaceuticals in drinking      |
| 10 | water. As we all understand, this is an emergent   |
| 11 | problem so our tap water quality database has      |
| 12 | looked at familiar entitiesindustrial              |
| 13 | pollutants, agriculture pollutantsand we have      |
| 14 | worked a lot with water utilities looking at these |
| 15 | issues, basically the contaminants that are known  |
| 16 | and are tested for. We are only now merging into   |
| 17 | this field of contaminants that we know are out    |
| 18 | there, but are not as yet extensively tested.      |
| 19 | CHAIRPERSON GENNARO: Well I'm very                 |
| 20 | grateful that you're doing everything that you are |
| 21 | doing and I thank you for coming here today and    |
| 22 | presenting this comprehensive testimony and it     |
| 23 | will be a great resource for us. All of the        |
| 24 | studies that you cite in your statement are very   |
| 25 | helpful and these are very critical references for |

1 COMMITTEE ON ENVIRONMENTAL PROTECTION 55 us as we try to tackle this issue. Doctor, thank 2 you very much for being here today, I'm very, very 3 4 grateful to have you. Thank you so much. 5 DR. NAIDENKO: Thank you very much, 6 Chairman. 7 CHAIRPERSON GENNARO: Okay, you bet. Next witness, Joshua Gray from the Natural 8 9 Resources Defense Council. Mr. Gray, thank you for being here 10 11 today, I have your statement. Samara will--12 SAMARA SWANSTON: [Interposing] Can 13 you please raise your right hand? 14 CHAIRPERSON GENNARO: -- get you 15 situated. 16 SAMARA SWANSTON: Do you swear or affirm to tell the truth, the whole truth, and 17 18 nothing but the truth today? 19 JOSHUA GRAY: Yes, I do. 20 CHAIRPERSON GENNARO: Okay. Thank you, thank you, Mr. Gray, pleasure to have you 21 here today. Thank you for NRDC's commitment to 22 23 this issue, as they are committed to so many 24 issues that involve our drinking water, our air 25 quality, and I appreciate all NRDC's efforts and

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| 2  | I'd be happy to hear your testimony.               |
| 3  | JOSHUA GRAY: Thank you. Good                       |
| 4  | afternoon, Chairman Gennaro and Members of the     |
| 5  | Committee. My name is Joshua Gray, I'm a law       |
| 6  | student at the New York University Environmental   |
| 7  | Law Clinic at the Natural Resources Defense        |
| 8  | Council.   |
| 9  | As you know, NRDC is a national                    |
| 10 | non-profit legal and scientific organization with  |
| 11 | over 500,000 members and contributors around the   |
| 12 | nation. NRDC has focused among its priority        |
| 13 | issues over the years on protection of public      |
| 14 | drinking water supplies, both nationally and here  |
| 15 | in New York City. NRDC has devoted considerable    |
| 16 | attention to improving the quality of the nation's |
| 17 | rivers and streams. I'm pleased to be with you     |
| 18 | this afternoon to testify in favor of Intro 911 on |
| 19 | behalf of NRDC.                                    |
| 20 | As the Council has acknowledged,                   |
| 21 | the presence of pharmaceuticals in New York City's |
| 22 | drinking water merits the attention of the City    |
| 23 | government. A number of studies undertaken over    |
| 24 | the recent years have revealed the existence of    |
| 25 | tiny amounts of pharmaceuticals, including a wide  |

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| 2  | array of prescription drugs and over the counter   |
| 3  | medications in the water supplies of a number of   |
| 4  | major metropolitan areas, including New York. To   |
| 5  | be sure, detected concentrations of such drugs and |
| 6  | personal care products in drinking water supplies  |
| 7  | have been low, but nonetheless, NRDC believes that |
| 8  | pharmaceuticals in drinking water represent a      |
| 9  | small, but emerging, risk to today's public        |
| 10 | health. This is not to say, however, this          |
| 11 | contamination presents no risk at all.             |
| 12 | Recent evidence suggests that                      |
| 13 | pharmaceutical discharges may soon pose a risk to  |
| 14 | New York's marine ecology as well. Estrogen from   |
| 15 | pharmaceuticals and industrial detergents that     |
| 16 | break down into products that mimic the hormone    |
| 17 | estrogen can contribute to higher levels of        |
| 18 | estrogen-like materials in treatment plant         |
| 19 | effluent. These chemicals can build up in the      |
| 20 | sediments and affect developmentive marine life by |
| 21 | depressing the male to female ratio, causing       |
| 22 | delayed development and reduced hatch and survival |
| 23 | rates. Scientists are seeing this occur now with   |
| 24 | winter flounder in Jamaica Bay with female to male |
| 25 | ratios observed as high as 10 to 1.                |

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| 2  | NRDC believes that Intro 911, as                   |
| 3  | proposed by this Council, is an admirable first    |
| 4  | step in confronting this emerging environmental    |
| 5  | and public health issue. This legislation          |
| 6  | mandates that New York City's Department of        |
| 7  | Environmental Protection establish and undertake a |
| 8  | regular monitoring program to track the levels of  |
| 9  | trace pharmaceuticals in our drinking water        |
| 10 | supply. Through this monitoring, DEP will          |
| 11 | accurately report to the public on year to year    |
| 12 | trends in the presence and concentration of        |
| 13 | pharmaceuticals in New York's drinking water. In   |
| 14 | addition to its data collection and monitoring     |
| 15 | functions, this program will no doubt be vital to  |
| 16 | any future legislative or regulatory response that |
| 17 | may be necessary. NRDC supports this bill because  |
| 18 | it provides a vital monitoring function without an |
| 19 | undue burden on finite City resources.             |
| 20 | Currently, New York City does not                  |
| 21 | have current and reliable information as to the    |
| 22 | types and concentrations of pharmaceuticals in its |
| 23 | drinking water supply. Through this legislation,   |
| 24 | DEP will be able, with its established and         |
|    |  |

25 extensive pollution monitoring system, to carry

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 59           |
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| 2  | out a sensible program for regular testing of      |
| 3  | trace pharmaceuticals. As such, this bill will     |
| 4  | accomplish its important goal without spending     |
| 5  | unnecessary taxpayer dollars.                      |
| 6  | Accordingly, NRDC encourages the                   |
| 7  | Committee to enact Intro 911 because it will       |
| 8  | provide a crucial first step in confronting the    |
| 9  | emerging environmental and public health problem   |
| 10 | of pharmaceuticals in New York City's drinking     |
| 11 | water.   |
| 12 | NRDC thanks the Committee for                      |
| 13 | proposing this legislation and Chairman Gennaro    |
| 14 | for holding this important hearing. We look        |
| 15 | forward to assisting the Committee as it moves     |
| 16 | forward in any way we can. And I'm happy to pass   |
| 17 | on any questions or requests for further           |
| 18 | information to Eric Goldstein, who's the senior    |
| 19 | attorney at NRDC responsible for this issue.       |
| 20 | CHAIRPERSON GENNARO: Thank you,                    |
| 21 | thank you, Mr. Gray. Certainly this Committee has  |
| 22 | a long history of working with Eric Goldstein and, |
| 23 | yeah, and I think the takeaway from the hearing    |
| 24 | today is that we've received a good sign from the  |
| 25 | Administration with regard to working with us to   |

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| 2  | come up with something good, and this good gesture |
| 3  | on their part is followed up on the good work they |
| 4  | did after our first hearing when they put together |
| 5  | this whole monitoring program. So certainly we     |
| 6  | have an Administration that's taking this          |
| 7  | seriously, which we're grateful for, and good work |
| 8  | is always good and that's what they're doing.      |
| 9  | Good legislation, I think is a good adjunct and    |
| 10 | complement to good work, and that's where this is  |
| 11 | going. And we know we can count on Eric and you,   |
| 12 | specifically, and NRDC, generally ,to help us get  |
| 13 | to where we want to be on this issue and I thank   |
| 14 | you for being here today, Mr. Gray.                |
| 15 | JOSHUA GRAY: Thank you, Mr.                        |
| 16 | Chairman.  |
| 17 | CHAIRPERSON GENNARO: You bet.                      |
| 18 | CHAIRPERSON GENNARO: Fay Muir of                   |
| 19 | the CWCWC, the Croton Watershed Clean Water        |
| 20 | Coalition, who was just here on Friday to testify  |
| 21 | on another watershed related issue.                |
| 22 | And, Fay, please, sit at the                       |
| 23 | witness table. We certainly want to get the        |
| 24 | benefit of [off mic].                              |
| 25 | Oh, Chris, you're not going, are                   |

COMMITTEE ON ENVIRONMENTAL PROTECTION 61 1 2 you? 3 CHRIS: No. CHAIRPERSON GENNARO: Okay, fine, 4 5 okay, good, okay. Fay, sure, Samara, if you could б swear in Fay and we'll go. 7 SAMARA SWANSTON: Please raise your 8 right hand. Do you swear or affirm to tell the 9 truth, the whole truth, and nothing but the truth 10 today? 11 FAY MUIR: I do. Yes, my name is 12 Fay Muir--13 CHAIRPERSON GENNARO: [Interposing] 14 If you could speak right into the microphone, 15 that'd be helpful. 16 FAY MUIR: My name is Fay Muir, 17 President of the Croton Watershed Clean Water 18 Coalition. Don't have a prepared testimony, but I 19 did want to say that it's a good effort to prepare 20 something that would address this issue. Although 21 I do not believe it's an issue that is at the 22 forefront right now, as you know, you mentioned 23 about the gas drilling. 24 At the moment, I think that our efforts should definitely be concentrated on 25

1 COMMITTEE ON ENVIRONMENTAL PROTECTION 62 hydraulic fracturing. This may be an issue that 2 might never come to the forefront. If we were to 3 address things like how we regulate the 4 5 pharmaceutical industry, the medical industry, the insurance industry, and that's also something 6 that's on the horizon right now that people are 7 very, very concerned with. I'd just like to say 8 9 that if we are truly concerned about that, there's 10 one thing that the DEP can do right now, which the 11 Watershed Coalition has been urging them to do for 12 over five years, which is the filtration plant 13 that they're building which is using antiquated 14 technology. If they were to switch to membrane 15 filtration, then that would take care of the 16 problem. And also to mention the problem with 17 bottled water as well because the bottled water is 18 not as regulated and that's something that we use 19 a lot in both the hospitals and everywhere in New 20 York.

And I think it would be a good idea to concentrate in those areas, rather than testing of the water because they're doing a very good job on that and we have all the information that we need on that in their annual report.

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 63           |
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| 2  | So I thank you.                                    |
| 3  | CHAIRPERSON GENNARO: Thank you,                    |
| 4  | Fay. And it's certainly good to get from you a     |
| 5  | vote of confidence on DEP's testing protocols.     |
| 6  | I'm sure they're happy to hear that with regard to |
| 7  | your recommendation on a different kind of         |
| 8  | filtration technology for the plant that's being   |
| 9  | built, certainly that's something that I can take  |
| 10 | up with them, they're actually here to hear it     |
| 11 | themselves.  |
| 12 | And your other issue about making                  |
| 13 | sure we don't take our eye off the ball like with  |
| 14 | regard to hydraulic fracturing. As long as I'm     |
| 15 | breathing air, that's never going to happen, so    |
| 16 | FAY MUIR: [Interposing] Yeah,                      |
| 17 | that's an imminent threat to                       |
| 18 | CHAIRPERSON GENNARO: Yeah, that                    |
| 19 | is.  |
| 20 | FAY MUIR:this is a possibility                     |
| 21 | of a threat, somewhere                             |
| 22 | CHAIRPERSON GENNARO: But                           |
| 23 | FAY MUIR:where we don't know                       |
| 24 | how far down the road this is going to be.         |
| 25 | CHAIRPERSON GENNARO: Right, but                    |
|    |  |

certainly, this is an emerging field, it has the 2 caught the attention of national regulators, of 3 state regulators, and local jurisdictions around 4 5 the country are trying to cooperate with one another to sort of build and inform this growing 6 body of science, I think that's prudent, I think 7 it makes a lot of -- it certainly makes sense to do 8 9 that. And New York should do its part to gather 10 the information we need to protect and inform our 11 own citizens and make a contribution to the 12 scholarship on this issue, you know, to make sure 13 that we have a national policy that makes sense regarding pharmaceuticals, I think we should do 14 15 that. And we can do that while we're beating back 16 gas drilling at the same time. We can do a lot at 17 once.

1

FAY MUIR: Well the Watershed 18 19 Coalition has always taken the position that, 20 instead of trying to examine the end product, that 21 we should start with the source and the source is 22 the way we use drugs, the way the pharmaceuticals advertise the drugs, the way the medical community 23 24 just dishes them out, you know, there's a lot of 25 personal responsibility there, we can't focus

| 1  | COMMITTEE ON ENVIRONMENTAL PROTECTION 65           |
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| 2  | enough on that. And if we were to take care of     |
| 3  | those problems, then                               |
| 4  | CHAIRPERSON GENNARO: Certainly,                    |
| 5  | right.   |
| 6  | FAY MUIR:we certainly wouldn't                     |
| 7  | have to worry about the drinking water. As a       |
| 8  | matter of fact, those kinds of issues are at the   |
| 9  | heart of most of the problems that we're having    |
| 10 | nowadays with global warming, etc.                 |
| 11 | CHAIRPERSON GENNARO: Certainly,                    |
| 12 | but as people working in the environmental         |
| 13 | movement here, we're not going to turn around this |
| 14 | country's appetite for pharmaceutical drugs any    |
| 15 | more than we're going to turn around the country's |
| 16 | appetite for energy consumption. You know, we use  |
| 17 | more pharmaceutical drugs than any country in the  |
| 18 | world, we use more energy, you know, more          |
| 19 | whatever, this is just what we have.               |
| 20 | FAY MUIR: That doesn't excuse us                   |
| 21 | from tackling those problems.                      |
| 22 | CHAIRPERSON GENNARO: Oh no, no,                    |
| 23 | no, no, that however, is a different Committee of  |
| 24 | the Council that would have to do that. And so I   |
| 25 | will definitely hold their coat while they're      |
|    |  |

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| 2  | working on that issue. But                         |
| 3  | FAY MUIR: [Interposing] I'm sure                   |
| 4  | the environmental group Committee could find a way |
| 5  | to hold them accountable.                          |
| 6  | CHAIRPERSON GENNARO: I got pretty                  |
| 7  | broad reach, but I don't know if I can go that     |
| 8  | far, but hopefully what will come out of this is   |
| 9  | greater attention to how we deal with and dispose  |
| 10 | of prescription drugs. And so this bill in no way  |
| 11 | indicates that we shouldn't try to do that, but we |
| 12 | just have to figure out what level of a situation  |
| 13 | we're really in with this phenomenon and act       |
| 14 | accordingly, that's all this bill really does and  |
| 15 | so that's how I think we're going to proceed.      |
| 16 | But we need you on fracking and I                  |
| 17 | know we have you and we appreciate the CWCWC's     |
| 18 | efforts in helping to really raise a lot of        |
| 19 | consciousness about that clear and present danger  |
| 20 | to the water supply through fracking. And, yeah,   |
| 21 | that'll be job one, but still we have other jobs   |
| 22 | that we can do and we're going to do that.         |
| 23 | So, Fay, thanks very much,                         |
| 24 | appreciate   |
| 25 | FAY MUIR: [Interposing] Thank you                  |
|    |  |

COMMITTEE ON ENVIRONMENTAL PROTECTION 67 1 2 for--[Crosstalk] 3 4 CHAIRPERSON GENNARO: --being here 5 today, as always. FAY MUIR: --being considered with б 7 all these. 8 CHAIRPERSON GENNARO: You bet, you 9 bet, happy to do that. And with no one else wishing to be 10 11 heard, no one else has come forward, I want to 12 thank everyone for their participation in this 13 good hearing, and kind of quiet hearing, but I 14 think we got some good stuff done and, you know, 15 we're going to work with the Administration to do 16 something good for the people of New York City and 17 that's, I think that's what our job is, and so I'm 18 happy to have had this hearing today. 19 And no one else wishing to be 20 heard, this hearing is adjourned.

## CERTIFICATE

I, Tammy Wittman, certify that the foregoing transcript is a true and accurate record of the proceedings. I further certify that I am not related to any of the parties to this action by blood or marriage, and that I am in no way interested in the outcome of this matter.

Signature Tampbettman

Date \_\_November 8, 2009