



**Department of  
Environmental  
Conservation**

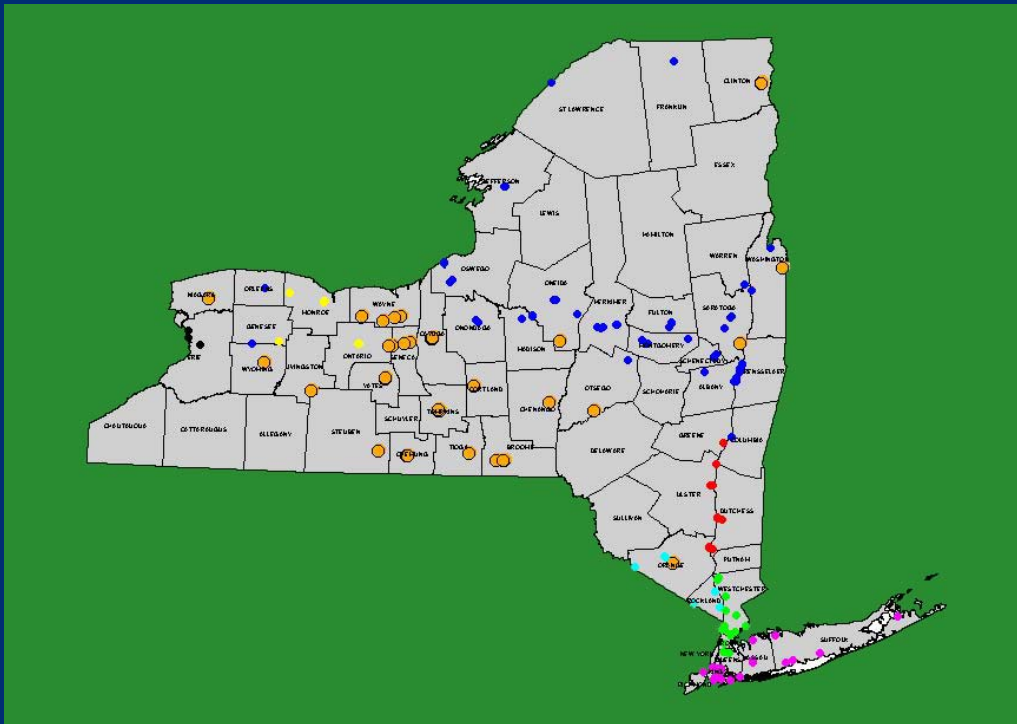
# **Dangman Park MGP Site**

## **Interim Remedial Measures (IRM) Presentation**

**October 6, 2016 6:30 to 9:00 PM**

# What's an MGP?





**Over 200 MGP  
Sites in New  
York State**

# Dangman Park MGP History

Plant Operated from 1880s to ca 1918

Maps and Historic Records Available

No Photographs Found

Plant Demolished; Property Sold

Current Mall Built in 1960s

Current Mall Scheduled for Demolition 2016

## Roles and Responsibilities

Liability for cleanup includes past operators, owners,  
*and their corporate descendants*

Keyspan Energy Signed Consent Order in 2007 with NYSDEC  
to investigate/clean up MGP sites

Keyspan>>National Grid

# Redevelopment Status

Neither National Grid nor NYSDEC Controls Redevelopment of the site

Redevelopment does trigger National Grid's responsibility to clean up the site

# What Contaminants Did the MGP Leave Behind?

## Petroleum Products

Kerosene-like Liquid Floats on Water Table

## Coal Tar

Dark, Oily Liquid is Heavier than Water

Strong, unpleasant odor

## Both Liquids Still Present in Subsurface Soils

# Where Are the Contaminants Located?

## No Contamination Present at Today's Ground Surface

Site Covered With Buildings and Pavement

Petroleum Has Not Migrated Much

Coal Tar Has Moved Northward (and Deeper)

Minor Groundwater Contamination



## Overall Assessment of the Site

A Small, Long-Abandoned MGP Site  
Modest Groundwater Contamination

Three Areas of High-Strength Contamination Identified in/near  
Subsurface Structures

Site Being Vacated Presents Opportunity for Cleanup

# NYSDEC Approach to Cleanup

Priority Is To

- 1) Prevent Exposures (none found currently)
- 2) Remove Source Areas

“Source Areas” of High Contaminant Concentrations

Possibility of Future Migration

Continuing Source of Groundwater and Vapor

Not Likely to Clean Up Naturally



# Selecting a Remedy

## Physical Removal is Highly Preferred

Permanent

Verifiable Visually

Readily Implementable

## Limitations

Can't Easily Dig Below Water Table

Digging Close to Infrastructure

Community Impacts

# Selecting a Remedy

In-situ Techniques Can Be Effective, But...

NOT Effective on Liquid Tar

Effective for Treatment of Dissolved Contaminants

# Proposed Excavation

## Remove Three Areas of High-Concentration Contaminants

- 1) Northwest Gas Holder: Subsurface Structure, 21 ft deep
- 2) Alley Excavation: Former Tar Tank
- 3) Petroleum Area

# Additional Treatment Proposed

Less Contaminated Areas to be Treated In-Situ (in place)

Encourage Soil Bacteria to Consume Contaminants

Gypsum Injections to Provide Necessary Nutrients

Additional Gypsum Placed in Excavation Backfill

Gypsum Dissolves Slowly; Will Provide Nutrients for Years

Greatly Reduces Truck Traffic, Noise, Delay

### EXCAVATION AND IN-SITU TREATMENT INTERIM REMEDIAL MEASURES











Direct-Push Gypsum



Direct-Push Gypsum Slurry  
Visual Confirmation in Soil Sample

# Direct-Push Gypsum Slurry Injection



50 gallon batch of agitated 10% by weight gypsum slurry



Direct-push injection of 10% by weight gypsum slurry (angled implementation possible, but not planned for this site)



# Minimizing Community Impacts

Vapor and Odor Controls

Conduct Excavation Work Inside Temporary Structure

Air Drawn Into Structure, Treated Before Discharge

Truck Loads of Soil Covered Prior To Departure

Community Air Monitoring Program (CAMP)

Actual Humans











# Minimizing Community Impacts

## Traffic and Noise:

Temporary Structure Helps Control Noise

Trucks Not Allowed to Idle While Waiting to Load

Trucking Routes Pre-Established with City DOT

Work Hour Limits



# All Dump Trucks are Covered and Washed



# Minimizing Community Impacts

Similar Excavation Program Under Way In Williamsburg

Several Dozen Successful MGP Excavations Statewide

Complaint Hotline to be Established

# Proposed Schedule

Begin Construction January 2017

Wintertime Construction is an Advantage

Duration Approximately 6 Months

Injection Can Start Earlier, Continue Afterwards

# Questions and Comments

Address comments to:  
(Period Closes Oct 31, 2016)

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