



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF ENVIRONMENTAL REMEDIATION  
**Site Classification Report**



DATE: 2/1/2013

<b>Site Code:</b>	442001	<b>Site Name:</b>	Old Troy Municipal Incinerator
<b>City:</b>	Brunswick	<b>Town:</b>	Brunswick
<b>Region:</b>	4	<b>County:</b>	Rensselaer
<b>Current Classification:</b>	03	<b>Proposed Classification:</b>	03
<b>Estimated Size (acres):</b>	53.77	<b>Disposal Area:</b>	Landfill
<b>Significant Threat:</b>	No	<b>Site Type:</b>	
<b>Priority ranking Score:</b>	180	<b>Project Manager:</b>	Randy Hough

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#### Summary of Approvals

<b>Originator/Supervisor:</b> Michael Komoroske	<b>11/28/2012</b>
<b>RHWRE: :</b>	<b>11/29/2012</b>
<b>BEEI of NYSDOH:</b>	<b>12/17/2012</b>
<b>CO Bureau Director:</b> Robert Cozzy, Director, BURB:	<b>12/17/2012</b>
<b>Assistant Division Director:</b> Michael J. Ryan, P.E.:	<b>01/25/2013</b>

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#### Basis for Classification Change

The innocent property owner has requested a Site Boundary Modification to remove another 9.8 acres of property at the southern end of the parcel from the 53.77 acre site for possible re-development. The Department conducted limit investigation in this area during the State funded Site Characterization and did not find any indications of waste disposal. The owner has recently completed a focused Site Characterization (edocs document: report.hw442001.2012-06-25.SBM Focused Site Characterization Final Report.pdf) which indicates that no hazardous substances/wastes were disposed in this area. DEC and DOH PMs concur with these findings based upon review of this report. A survey along with a metes and bounds description has been completed for this 9.8 acre section.

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#### Site Description - Last Review: 12/26/2012

**Location:** The Old Troy Municipal Incinerator site is located along Oakwood Avenue (Route 40) in the Town of Brunswick, Rensselaer County, New York. The site is coincident with the former Troy Municipal Landfill property.

**Site Features:** The site is located on the property identified as follows: County of Rensselaer, Town of Brunswick Tax Map #80.00, Section 2, Parcel 2. This parcel is 56.47 acres in size. In 2010, the property owner requested and was granted a site boundary modification to remove 2.7 acres of the property in northwest corner along Route 40 from the site for possible re-development. Thus, the site is now considered to encompass the remaining 53.77 acres of the parcel.



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
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**Site Classification Report**



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**Site Name:** Old Troy Municipal Incinerator

Approximately 35 acres of the property has been impacted from the historical land filling. The predominant features at the site are the aged, exposed fill materials, and landfill like appearance of the site. Remnants of the former incinerator building are present in the northwest section of the parcel. The majority of the site is overgrown and wooded.

The site is bound by the steep face of the fill material, a wet area, and further on, a residential development surrounding the Lansingburgh Reservoir to the north, Oakwood Avenue (Rt 40) to the west, Farrel Road to the south and agricultural lands to the east. The northern section includes a seep area, which forms a small stream draining into the Lansingburgh Reservoir. The southern area includes another seep which flows to a wetland area then south into a pond. This system also drains the western side of the landfill and combines into an unnamed tributary of the Hudson River, flowing south from the site.

The nearest residential dwelling is located approximately 300 feet from the site.

**Current Zoning/Use:** The site includes portions of the parcel identified on the Rensselaer County, Town of Brunswick Tax Map as Number 80.00, Section 2, Parcel 2. The property is currently zoned industrial and is vacant except for the former incinerator and landfill.

**Historical Use(s):** Prior use of the site from 1947 to 1962 was for the disposal of residues from the incinerator operation located here. The incinerator was located in the northwest section of the property, and reportedly operated inefficiently. In addition, after the incinerator closed, the site was used until 1969 for municipal and industrial waste disposal. Both the incinerator and landfill operations may have contributed to site contamination. Indications are that an unknown quantity of halogenated hydrocarbons generated by Paris Cleaners were disposed at the site from 1966 to 1969 and that 1.5 tons of paint waste scrapings from Garden Way Manufacturing were disposed there every year from 1962 to 1969. There are records that the incinerator processed 2,000 tons of waste from the General Electric Company's Silicone Products facility in Waterford, NY. These wastes included regular trash (98%) and a sludge containing heavy metals, organic chemicals and paint (2%).

Phase I and II Investigations were performed in 1983 and 1985 respectively. Various media sampling was conducted between 1985 and 1996. In 1999 the site data was reviewed and evaluated. Based upon the fact that none of the reported wastes (F001 Halogenated Solvents or D008 Paint Wastes) disposed at the site were detected in any media it was determined that the detected contamination at the site were due to hazardous substance disposal, not hazardous waste. This resulted in a reclassification to a class 3 and adding the site to the Hazardous Substance Disposal Site Study inventory.

In January, 2005 a state superfund work assignment was prepared to further determine the nature and extent of the contamination and to identify additional site activities required.

The Site Characterization Work Plan was developed and executed in the summer and fall of 2005. The activities included groundwater monitoring well installation, and the sample collection and analysis of subsurface soil, groundwater, surface water, sediment, surficial soil, and drinking water.



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The site characterization report was submitted in 2006. The results confirmed the historical disposal of the F001 and D008 wastes at the site. Groundwater was found to be contaminated well above SCGs by metals and aromatic and chlorinated volatile compounds.

Surface water has been impacted above SCGs by the leaching of metals from the site fill material.

Surface and subsurface soils within the former landfill footprint and co-mingled with the fill material have been impacted by metals, volatiles, semi-volatiles and pesticides. There is a significant amount (320,000 cubic yards) of metals rich incinerator ash disposed in one section of the landfill. This area also contains the volatiles contamination.

Additional site characterization activities were implemented in August of 2007. The additional field investigation was designed to further define the nature and extent of the contamination, and determine if the contamination in the surface water and groundwater are being mobilized off-site.

The final Site Characterization report was completed in November 2008.

**Site Geology and Hydrogeology:** The bedrock formations at the site consist of various black and grey shales of marine origin. The upper 1 to 2 feet of the shale bedrock is highly fractured. A bedrock depression is located between two weathered shale ridges trending approximately north-south, which was used as the fill area for the majority of the generated incinerator ash. On-site soils include brown, yellowish brown and olive brown silty loams, as well as frequently flooded alluvium in the perennially wet areas of the site and glacial till in the form of grey, olive green or brown clay overlying the bedrock.

There is approximately 320,000 cubic yards of incinerator ash material, mainly located in the bedrock depression under the former baseball field area, and approximately 1,200,000 cubic yards of total fill material in the landfill.

Groundwater occurs in both the separate overburden/fill and bedrock aquifers. Groundwater elevation varies from 4 to 40' below the ground surface. A hydraulic divide is located in the central portion of the site, which controls groundwater flow generally to the north and south. Portions of the site are underlain by a clay layer of varying thickness which is acting as an aquitard at the site.

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<b>Contaminants of Concern (Including Materials Disposed)</b>	<b>Quantity Disposed</b>
<b>OU 01</b>	
AROMATIC HYDROCARBONS (F001)	0.00
PAINT WASTES (SCRAPINGS) (D008)	0.00

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**Analytical Data Available for :** Groundwater, Surface Water, Soil, Sediment

**Applicable Standards Exceeded for:** Groundwater, Surface Water

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**Site Environmental Assessment- Last Review: 12/26/2012**

**Nature and Extent of Contamination:** Groundwater, surface water / sediment and soil contamination at this site has been confirmed during the Remedial Investigation. On-site groundwater is contaminated with volatile aromatic hydrocarbons (Total BTEX of ~ 120,000 ug/l), and to a lesser extent by chlorinated solvents





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(CVOCs ~ 8,000 ug/l) their degradation products and by metals, primarily aluminum, iron and manganese. The groundwater volatiles and metals contamination is above the class GA and Drinking Water standards. The volatiles groundwater and subsurface soil contamination appears to be primarily confined to the site. However, the discovery of the groundwater contamination helps explain the random historical hits for VOCs in surface water samples. Surface water / sediments, and surficial soils are contaminated above applicable standards by metals. The primary metals contamination is from aluminum, iron and manganese. The surficial soils have been impacted by localized random dumping. The surface water and sediments are affected by groundwater leachate seeps and to a lesser extent by run-off.

The landfill portion of the site is underlain by a clay aquitard which combined with site hydrology, and other factors such as the reducing groundwater conditions, appears to be containing the contaminants of concern on-site. The presence on the site of large quantities of iron in the ash materials and as corroded scrap iron, combined with other metals which may be acting as catalysts, has resulted in the degradation of both the aromatic and chlorinated volatiles contamination. Degradation products detected in the groundwater include cyclohexane from the BTEX and TCE, 1,2-DCE and vinyl chloride from the CVOCs.

**Special Resources Impacted/Threatened:** The groundwater resource immediately below certain areas of the site has been impacted by site contaminants.

**Significant Threat:** There were no site related contaminants in any media which exceeded SCGs migrating beyond the site boundary. Based upon investigations to date, a determination has been made that the site in it's current conditions does not represent a significant threat to human health and the environment.

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**Site Health Assessment - Last Update: 11/28/2012**

The site is not fenced and persons who enter the site could contact contaminants in the soil by walking on the soil, digging or otherwise disturbing the soil. People may come in contact with contaminants present in wetland sediments. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface air into the indoor air of buildings, is referred to as soil vapor intrusion. Because there is no on-site building, inhalation of site contaminants in indoor air due to soil vapor intrusion does not represent a concern for the site in its current condition. However, the potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site development.

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	Start		End	
<b>OU 01</b>				
Reclass Pkg.	2/15/10	ACT	4/15/10	ACT
Reclass Pkg.	11/28/12	ACT	2/15/13	PLN
Site Characterization	3/1/85	ACT	4/1/87	ACT
Site Characterization	7/6/05	ACT	11/21/08	ACT

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**Remedy Description and Cost**

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**Remedy Description for Operable Unit 01**





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that the current conditions at the site do not represent a significant threat to human health and the environment.

**Total Cost**

**OU**

**Site Management Plan Approval:**

**Status:**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
**Site Management Form**  
2/1/2013

**SITE DESCRIPTION**

**SITE NO.** 442001

**SITE NAME** Old Troy Municipal Incinerator

**SITE ADDRESS:** Route 40 **ZIP CODE:** 182

**CITY/TOWN:** Brunswick

**COUNTY:** Rensselaer

**ALLOWABLE USE:** Industrial

**SITE MANAGEMENT DESCRIPTION**

**SITE MANAGEMENT PLAN INCLUDES:** YES NO

IC/EC Certification Plan

Monitoring Plan

Operation and Maintenance (O&M) Plan

Periodic Review Frequency:

Periodic Review Report Submittal Date:



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**Description of Institutional Control**

0

Not Applicable/No IC's

**Description of Engineering Control**

Not Applicable/No EC's

**NEW YORK**  
state department of  
**HEALTH**

Nirav R. Shah, M.D., M.P.H.  
Commissioner

Sue Kelly  
Executive Deputy Commissioner

December 17, 2012

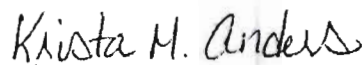
Mr. Robert Cozzy  
NYS Dept. of Environmental Conservation  
625 Broadway  
Albany, New York 12233

Re: **Boundary Modification Report**  
Old Troy Municipal Incinerator  
Site #442001  
Brunswick (T), Rensselaer County

Dear Mr. Cozzy:

Per your request, we have reviewed the New York State Department of Environmental Conservation's (NYSDEC's) *Boundary Modification Report*, which presents a proposal to modify the existing boundary of the referenced site by removing a 9.8 acre parcel from the current 53.77 acre site. The property owner has requested this modification in order to redevelop the parcel. Both the NYSDEC and property owner have conducted site characterization investigations and no evidence of waste disposal was identified in this portion of the site. Based on the available information, I believe this 9.8 acre parcel does not represent a significant threat to public health and concur with the proposal to remove it from the existing site. If you have any questions, please call me at (518) 402-7860.

Sincerely,



Krista M. Anders, Acting Director  
Bureau of Environmental Exposure Investigation

ec: A. Salame-Alfie, Ph.D.  
J. Crua / M. Schuck / e-File  
R. Elder – RCHD  
R. Swider – NYSDOH CRO  
M. Ryan / K. Lewandowski – NYSDEC Central Office  
K. Goertz / C. O'Neill – NYSDEC Region 4  
P:\Bureau\Sites\Region\_4\RENSSELAER\442001\BoundaryMod\_DOHConcur\_121712\_442001.pdf



### **Supporting Documentation**

- Copy of the C. T. Male, October 29, 2012 letter requesting the Site Boundary Modification on behalf of MATOPATO, LLC (Thomas Murley - site owner)
- Metes and Bounds Description of area to be removed from the site
- Figure 1: Old Troy Municipal Incinerator – showing the Site Boundary Modification area
- Figure 2: Old Troy Municipal Incinerator – showing the sampling locations
- NYSDOH Concurrence Letter to be added
- Tax map of Site Boundary Modification area
- Adjacent Property Owners - Partial Site Contact List

## C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, P.C.

50 Century Hill Drive, Latham, NY 12110  
518.786.7400 FAX 518.786.7299 ctmale@ctmale.com



October 29, 2012

Mr. Randy Hough  
Project Manager  
NYS Department of Environmental Conservation  
625 Broadway, 12<sup>th</sup> Floor  
Albany, New York 12233-7013

**RE: *Site Boundary Modification Request  
Old Troy Municipal Incinerator Site  
Town of Brunswick, Rensselaer County  
Site No. 4-42-001  
C.T. Male Project No.: 12.2106***

Dear Mr. Hough:

C.T. Male Associates Engineering, Surveying, Architecture & Landscape Architecture, P.C. (C.T. Male), on behalf of MATOPATO, LLC, has prepared this request for approval of a Site Boundary Modification (SMB) relating to the above reference site.

The portion of the site subject to a SBM is approximately 9.8 acres, is zoned for industrial use and is located within the southern and southwestern corner of the property generally bound by Oakwood Avenue to the west, the Old Troy Municipal Incinerator landfill to the north, wooded undeveloped land to the east, and Farrell Road to the south. The SBM is located to the south of the footprint of the former landfill and contains a federally regulated wetland along its western boundary. A site plan map showing the approximate boundary of the subject lands is presented as Figure 1. A Metes and Bounds Description of the land subject to the SMB are attached as Exhibit A.

Per the April 26, 2012 New York State Department of Environmental Conservation (DEC) approved Site Characterization Work Plan dated April 27, 2012, the investigations were completed and reported to DEC in C.T. Male Associate's June 25, 2012 report entitled "Site Boundary Modification Report". This final report was verbally approved by DEC on October 16, 2012 and transmitted to the department on October 22, 2012.

1910-2010  
years

C.T. MALE ASSOCIATES, P.C.

*October 29, 2012*

*Randy Hough*

*Page - 2*

If you have any questions or require additional information regarding this request for a site boundary modification, please contact the undersigned at 518.786.7502.

Respectfully submitted,

C.T. MALE ASSOCIATES

A handwritten signature in black ink, appearing to read 'K. Moline', written in a cursive style.

Kirk Moline

Managing Geologist

Attachments: Figure 1: Site Boundary Modification Map  
Exhibit A: Meets and Bounds Description

C: Thomas Murley, P.E.



**Site Boundary Modification  
Old Troy Municipal Incinerator Site  
Town of Brunswick, Rensselaer County  
Site No. 4-42-001**

**Property Description of Site Boundary Modification  
Portion of Lands Now or Formerly of MATOPATO, LLC  
Town of Brunswick, County of Rensselaer, State of New York**

**October 18, 2012**

*All that certain piece or parcel of land, lying and being in the Town of Brunswick, County of Rensselaer, State of New York, more particularly bounded and described as follows:*

*Beginning at a point on the north right-of-way line of Farrell Road, said point being on the southerly property line of Tax Map Parcel 80.00 – 2 – 2 (n/f MATOPATO, LLC), and said point being approximately 50 feet +/- from the east right-of-way line of Oakwood Avenue; and*

*Thence, northwesterly approximately 60 feet +/- along the north right-of-way line of Farrell Road to a point in the east right-of-way line of Oakwood Avenue; and*

*Thence, northerly along the east right-of-way line of Oakwood Avenue also being the westerly property line of Tax Map Parcel 80.00 – 2 – 2 (n/f MATOPATO, LLC) for approximately 800 feet +/- to a point; and*

*Thence, easterly through Tax Map Parcel 80.00 – 2 – 2 (n/f MATOPATO, LLC) for a distance of approximately 690 feet +/- to a point on the westerly property line of Tax Map Parcel 80.00 – 2 – 3.11 (n/f TOPATOMA, LLC); and*

*Thence, southerly along the westerly property line of Tax Map Parcel 80.00 – 2 – 3.11 (n/f TOPATOMA, LLC) for a distance of approximately 230 feet +/- to a point; and*

*Thence, westerly along the southerly property line of Tax Map Parcel 80.00 – 2 – 2 (n/f MATOPATO, LLC) for a distance of approximately 260 feet +/- to a point; and*

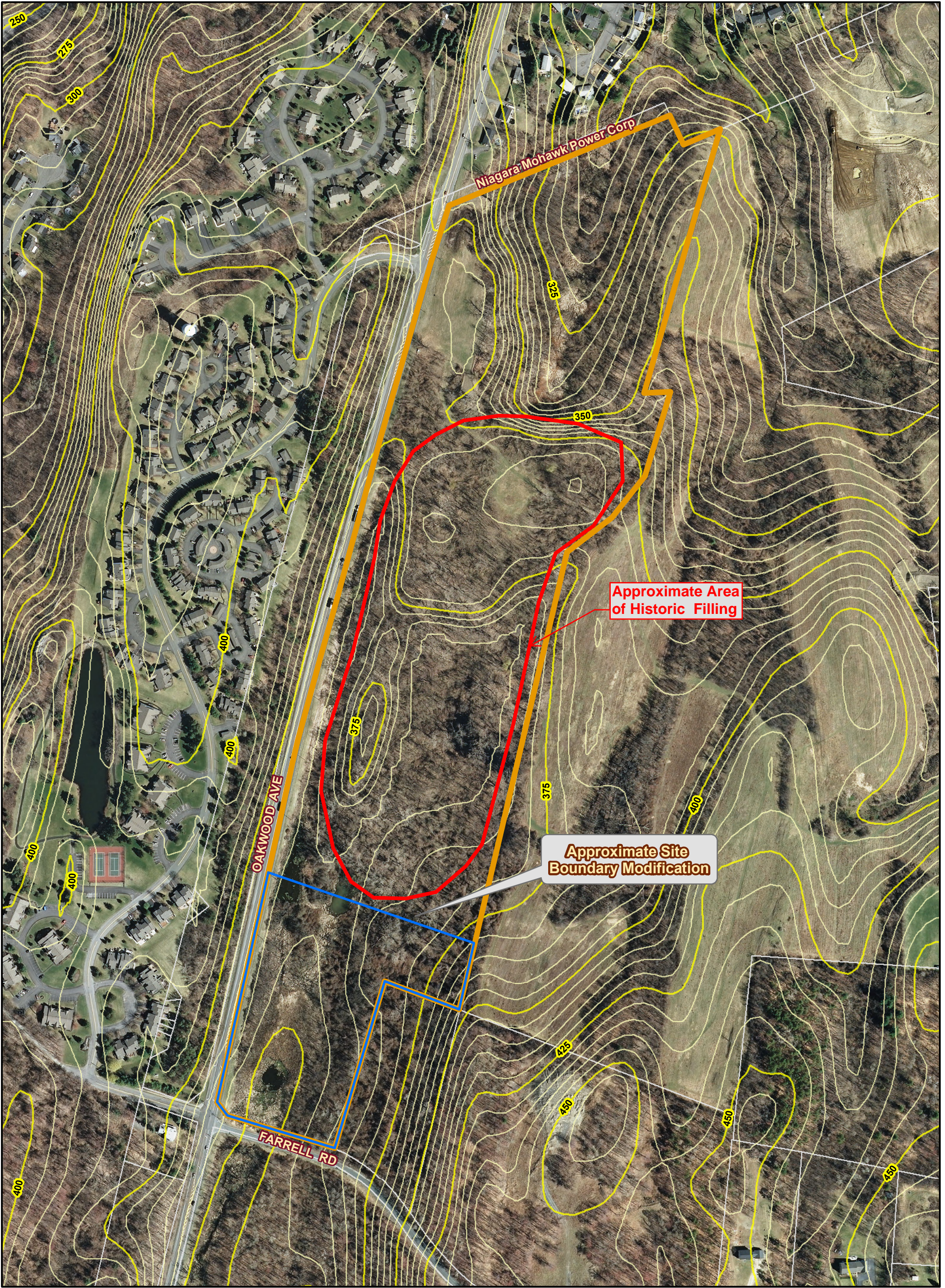
*Thence, southerly along the easterly property line of Tax Map Parcel 80.00 – 2 – 2 (n/f MATOPATO, LLC) for a distance of approximately 600 feet +/- to a point on the north right-of-way line of Farrell Road, said point also being on the southerly property line of Tax Map Parcel 80.00 – 2 – 2 (n/f MATOPATO, LLC); and*

*Thence, westerly along the north right-of-way line of Farrell Road, said line also being the southerly property line of Tax Map Parcel 80.00 – 2 – 2 (n/f MATOPATO, LLC), for a distance of approximately 350 +/- feet to the point or place of beginning;*

*Said area is approximately 9.3 Acres +/- as shown on a map prepared by RDM Surveying Consultants entitled "Conceptual Plan For Recreational Facility - Paintball Fields" dated February 15, 2012 and revised on July 26, 2012.*

**Subject to any covenants, easements, or restrictions of record.**





0150300

Feet

1 inch = 300 feet

W

E

S

Legend

Site Boundary Modification (Approximate)

Project Site Boundary (Approximate)

Brunswick Tax Parcels (2005)

Notes:

Orthoimagery flown spring 2011, 1-foot resolution, natural color

5' Contours are interpolated from USGS, considered as approximate

Figure 1: Old Troy Municipal Incinerator Site

Town of Brunswick

Rensselaer County, New York

FOUNDED IN 1910

C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, P.C.

50 CENTURY HILL DRIVE, LATHAM, NEW YORK 12110

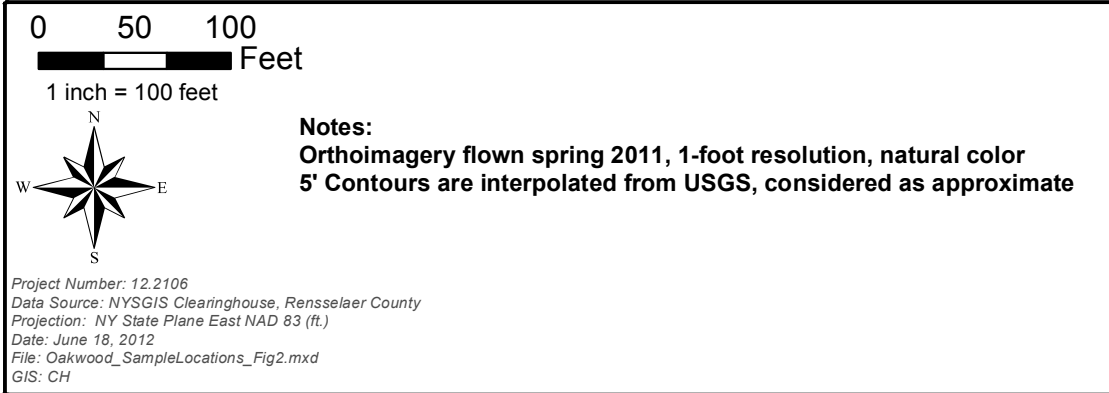
(518) 786-7400 \* FAX (518) 786-7299 \* WWW.CTMALE.COM

Architecture \* Building Systems Engineering \* Civil Engineering \*

Environmental Services \* Geographic Information Services (GIS) \*

Land Development \* Land Surveying





**Figure 2: Media Sampling Locations Historical and Recent**

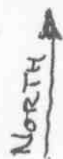
Town of Brunswick Rensselaer County, New York

**C.T. MALE ASSOCIATES**  
Engineering, Surveying, Architecture & Landscape Architecture, P.C.  
50 CENTURY HILL DRIVE, LATHAM, NEW YORK 12110  
(518) 786-7400 \* FAX (518) 786-7299 \* WWW.CTMALE.COM  
Architecture \* Building Systems Engineering \* Civil Engineering \*  
Environmental Services \* Geographic Information Services (GIS) \*  
Land Development \* Land Surveying

FOUNDED IN 1910



TAX MAP No. 80.00



NIAGARA MOHAWK POWER CORPORATION

184.73 170.85 251.61 194.48 182.84 1.07 Ac. (c)

HIGHPOINTE DRIVE

TROY  
BRUNSWICK

80.00-2-18  
HIGHPOINTE  
RECREATION ASSN. INC  
13.40 Ac. (c)

80.00-2-2

2  
56.47 Ac.

N/F MATOPATO  
LLC

3.1  
~~97.80 Ac~~  
80.00-2-3.1  
94.50 ACRES

N/F TOPATOMA  
LLC

SEE SECTION  
080.66  
1" = 50'

OF  
OF

145

SBM  
AREA

IDA M.  
DEETS

16  
3.50 Ac.  
4.09 Ac. (c)

80.00-2-13.2  
BRUNSWICK DESIGN  
GROUP, INC  
13.2

FARRELL ROAD EXT.

66.53 146.95 175(a) 185(a) 200 F

370(s) 426 345  
FARRELL ROAD

2

**Site Boundary Modification  
Old Troy Municipal Incinerator Site  
Town of Brunswick, Rensselaer County  
Site No. 4-42-001**

**Adjacent Property Owners to the Site Boundary Modification Property  
Town of Brunswick, County of Rensselaer, State of New York**

**October 18, 2012**

MATOPATO, LLC  
32 Hialeah Drive  
Troy, NY 12182  
Tax Map No. 80.00-2-2

TOPATOMA, LLC  
32 Hialeah Drive  
Troy, NY 12182  
Tax Map No. 80.00-2-3.11

Ida M. Deets  
1715 Lotus Drive  
Orefield, PA 18069  
Tax Map No. 80.00-2-16

Brunswick Design Group, Inc.  
398 Bald Mountain Road  
Troy, NY 12180  
Tax Map No. 80.00-2-13.2

Mr. Philip Herrington, Supervisor  
Town of Brunswick  
Town Hall  
336 Town Office Road  
Troy, New York 12180  
Tax Map – Farrell Road Right-of-way

Mr. Wayne Bonesteel, County Engineer  
Rensselaer County Highway Department  
Bloomingrove Drive  
Troy, New York 12180  
Tax Map – Oakwood Avenue Right-of-way

**New York State Department of Environmental Conservation**  
**Division of Environmental Remediation**  
**Bureau of Technical Support, 11<sup>th</sup> Floor**  
625 Broadway, Albany, NY 12233-7020  
**Phone: (518) 402-9543 • Fax: (518) 402-9547**  
**Website: [www.dec.ny.gov](http://www.dec.ny.gov)**



Joe Martens  
Commissioner

FEB - 6 2013

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Tom Murley  
32 Hialeah Drive  
Troy, New York 12182

Dear Mr. Murley:

As mandated by Section 27-1305 of the Environmental Conservation Law (ECL), the New York State Department of Environmental Conservation (Department) must maintain a registry of all inactive disposal sites suspected or known to contain hazardous wastes. The ECL also mandates that this Department notify, by certified mail, the owner of all or any part of each site or area included in the Registry of Inactive Hazardous Waste Disposal Sites in New York State ("The Registry"). The Department previously notified you of the listing of this site on "The Registry".

Our records indicate that you are still the owner or part owner of the site listed below. Therefore, this letter constitutes notification of the boundary modification for this site decreasing the site size from 53.77 acres to approximately 43.97 acres. As previously indicated, once listed in the Registry, the site becomes subject to certain restrictions prescribed by provisions of 6 NYCRR Part 375. These regulations may be found at the following DEC website address: <http://www.dec.ny.gov/regs/4373.html>.

DEC Site No.: 442001  
Site Name: Old Troy Municipal Incinerator  
Site Address: Route 40, Brunswick, NY  
Site Classification: Class 3

Enclosed is a copy of the Department's Inactive Hazardous Waste Disposal Site Report form as it will now appear in the Registry. An explanation of the site classification is available at <http://www.dec.ny.gov/chemical/8663.html>. The Law allows the owner and/or operator of a site listed in the Registry to petition the Commissioner of the New York State Department of Environmental Conservation for deletion of such site, modification of site classification, or modification of any information regarding such site, by submitting a written statement setting forth the grounds of the petition.



Such petition may be addressed to:

Honorable Joseph J. Martens  
Commissioner  
New York State Department of Environmental Conservation  
625 Broadway  
Albany, New York 12233-1010

For additional information, please contact Randy Hough, the Project Manager, at  
(518) 402-9767.

Sincerely,

A handwritten signature in black ink, appearing to read "Kelly A. Lewandowski". The signature is fluid and cursive, with the first name "Kelly" being more prominent.

Kelly A. Lewandowski, P.E.  
Chief  
Site Control Section

Enclosures

cc: Randy Hough

bec: w/o Enclosures

R. Schick

L. Zeppetelli

A. English

K. Lewandowski

R. Cozzy, Director, Remedial Bureau B

R. Hough, Project Manager

P. Humphrey

K. Anders, NYSDOH

M. Komoroske, Chief, Remedial Bureau B

R. Ostrov, Attorney Region 4

K. Goertz, RHWRE, Region 4

N. Baker, Regional Permit Administrator, Region 4

S. Heigel, Site Control Section



**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL  
CONSERVATION  
DIVISION OF ENVIRONMENTAL REMEDIATION  
Inactive Hazardous Waste Disposal Report**



<b>Site Code</b>	442001		
<b>Site Name</b>	Old Troy Municipal Incinerator	<b>Address</b>	Route 40
<b>Classification</b>	03	<b>City</b>	Brunswick
		<b>Zip</b>	182
<b>Region</b>	4	<b>County</b>	Rensselaer
		<b>Town</b>	Brunswick
<b>Latitude</b>	42 degrees, 46 minutes, 33.51 seconds		<b>Estimated Size</b> 43.9700
<b>Longitude</b>	-73 degrees, 39 minutes, 23.28 seconds		
<b>Site Type</b>	<b>Disposal Area</b> Landfill		

## Site Description

**Location:** The Old Troy Municipal Incinerator site is located along Oakwood Avenue (Route 40) in the Town of Brunswick, Rensselaer County, New York. The site is coincident with the former Troy Municipal Landfill property.

**Site Features:** The site is located on the property identified as follows: County of Rensselaer, Town of Brunswick Tax Map #80.00, Section 2, Parcel 2. This parcel is 56.47 acres in size. In 2010, the property owner requested and was granted a site boundary modification to remove 2.7 acres of the property in northwest corner along Route 40 from the site for possible re-development. Thus, the site is now considered to encompass the remaining 53.77 acres of the parcel.

Approximately 35 acres of the property has been impacted from the historical land filling. The predominant features at the site are the aged, exposed fill materials, and landfill like appearance of the site. Remnants of the former incinerator building are present in the northwest section of the parcel. The majority of the site is overgrown and wooded.

The site is bound by the steep face of the fill material, a wet area, and further on, a residential development surrounding the Lansingburgh Reservoir to the north, Oakwood Avenue (Rt 40) to the west, Farrel Road to the south and agricultural lands to the east. The northern section includes a seep area, which forms a small stream draining into the Lansingburgh Reservoir. The southern area includes another seep which flows to a wetland area then south into a pond. This system also drains the western side of the landfill and combines into an unnamed tributary of the Hudson River, flowing south from the site.

The nearest residential dwelling is located approximately 300 feet from the site.

**Current Zoning/Use:** The site includes portions of the parcel identified on the Rensselaer County, Town of Brunswick Tax Map as Number 80.00, Section 2, Parcel 2. The property is currently zoned industrial and is vacant except for the former incinerator and landfill.

**Historical Use(s):** Prior use of the site from 1947 to 1962 was for the disposal of residues from the incinerator operation located here. The incinerator was located in the northwest section of the property, and reportedly operated inefficiently. In addition, after the incinerator closed, the site was used until 1969 for municipal and industrial waste disposal. Both the incinerator and landfill operations may have contributed to site contamination. Indications are that an unknown quantity of halogenated hydrocarbons generated by Paris Cleaners were disposed at the site from 1966 to 1969 and that 1.5 tons of paint waste scrapings from Garden Way Manufacturing were disposed there every year from 1962 to 1969. There are records that the incinerator processed 2,000 tons of waste from the General Electric Company's Silicone Products facility in Waterford, NY. These wastes included regular trash (98%) and a sludge containing heavy metals, organic chemicals and paint (2%).

Phase I and II Investigations were performed in 1983 and 1985 respectively. Various media sampling was conducted between 1985 and 1996. In 1999 the site data was reviewed and evaluated. Based upon the fact that none of the reported wastes (F001 Halogenated Solvents or D008 Paint Wastes) disposed at the site were detected in any media it was determined that the detected contamination at the site were due to hazardous substance disposal, not hazardous waste. This resulted in a reclassification to a class 3 and adding the site to the Hazardous Substance Disposal Site Study inventory.

In January, 2005 a state superfund work assignment was prepared to further determine the nature and extent of the contamination and to identify additional site activities required.

The Site Characterization Work Plan was developed and executed in the summer and fall of 2005. The activities included groundwater monitoring well installation, and the sample collection and analysis of subsurface soil, groundwater, surface water, sediment, surficial soil, and drinking water.

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The site characterization report was submitted in 2006. The results confirmed the historical disposal of the F001 and D008 wastes at the site. Groundwater was found to be contaminated well above SCGs by metals and aromatic and chlorinated volatile compounds.

Surface water has been impacted above SCGs by the leaching of metals from the site fill material.

Surface and subsurface soils within the former landfill footprint and co-mingled with the fill material have been impacted by metals, volatiles, semi-volatiles and pesticides. There is a significant amount (320,000 cubic yards) of metals rich incinerator ash disposed in one section of the landfill. This area also contains the volatiles contamination.

Additional site characterization activities were implemented in August of 2007. The additional field investigation was designed to further define the nature and extent of the contamination, and determine if the contamination in the surface water and groundwater are being mobilized off-site.

The final Site Characterization report was completed in November 2008.

**Site Geology and Hydrogeology:** The bedrock formations at the site consist of various black and grey shales of marine origin. The upper 1 to 2 feet of the shale bedrock is highly fractured. A bedrock depression is located between two weathered shale ridges trending approximately north-south, which was used as the fill area for the majority of the generated incinerator ash. On-site soils include brown, yellowish brown and olive brown silty loams, as well as frequently flooded alluvium in the perennially wet areas of the site and glacial till in the form of grey, olive green or brown clay overlying the bedrock.

There is approximately 320,000 cubic yards of incinerator ash material, mainly located in the bedrock depression under the former baseball field area, and approximately 1,200,000 cubic yards of total fill material in the landfill.

Groundwater occurs in both the separate overburden/fill and bedrock aquifers. Groundwater elevation varies from 4 to 40' below the ground surface. A hydraulic divide is located in the central portion of the site, which controls groundwater flow generally to the north and south. Portions of the site are underlain by a clay layer of varying thickness which is acting as an aquitard at the site.

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#### **Contaminants of Concern (Including Materials Disposed)**

#### **Quantity**

##### **OU 01**

AROMATIC HYDROCARBONS (F001)	0.00
PAINT WASTES (SCRAPINGS) (D008)	0.00

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**Analytical Data Available for :** Groundwater, Surface Water, Soil, Sediment

**Applicable Standards Exceeded for:** Groundwater, Surface Water

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#### **Site Environmental Assessment**

**Nature and Extent of Contamination:** Groundwater, surface water / sediment and soil contamination at this site has been confirmed during the Remedial Investigation. On-site groundwater is contaminated with volatile aromatic hydrocarbons (Total BTEX of ~120,000 ug/l), and to a lesser extent by chlorinated solvents (CVOCs ~ 8,000 ug/l) their degradation products and by metals, primarily aluminum, iron and manganese. The groundwater volatiles and metals contamination is above the class GA and Drinking Water standards. The volatiles groundwater and subsurface soil contamination appears to be primarily confined to the site. However, the discovery of the groundwater contamination helps explain the random historical hits for VOCs in surface water samples. Surface water / sediments, and surficial soils are contaminated above applicable standards by metals. The primary metals contamination is from aluminum, iron and manganese. The surficial soils have been impacted by localized random dumping. The surface water and sediments are affected by groundwater leachate seeps and to a lesser extent by run-off.

The landfill portion of the site is underlain by a clay aquitard which combined with site hydrology, and other factors such as the reducing groundwater conditions, appears to be containing the contaminants of concern on-site. The presence on the site of large quantities of iron in the ash materials and as corroded scrap iron, combined with other metals which may be acting as catalysts, has resulted in the degradation of both the aromatic and chlorinated volatiles contamination. Degradation products detected in the groundwater include cyclohexane from the BTEX and TCE, 1,2-DCE and vinyl chloride from the CVOCs.

**Special Resources Impacted/Threatened:** The groundwater resource immediately below certain areas of the site has been impacted by site contaminants.

**Significant Threat:** There were no site related contaminants in any media which exceeded SCGs migrating beyond the site boundary. Based upon investigations to date, a determination has been made that the site in it's current conditions does not represent a significant threat to human health and the environment.

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#### **Site Health Assessment**



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otherwise disturbing the soil. People may come in contact with contaminants present in wetland sediments. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface air into the indoor air of buildings, is referred to as soil vapor intrusion. Because there is no on-site building, inhalation of site contaminants in indoor air due to soil vapor intrusion does not represent a concern for the site in its current condition. However, the potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site development.

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## Owners

### Current Owner(s)

TOM MURLEY

NA

32 HIALEAH DRIVE

TROY

NY 12182

### Previous Owner(s)

VINCENT INGENOSO

RD 2 BOX 424

AVERILL PARK

NY 12018

### Disposal Owner(s)

CITY OF TROY

NY

## Operators

### Current Operator(s)

City of Troy

City Hall

Troy

NY 12182

City of Troy

City Hall

Troy

NY 12182

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