

# PETROLEUM IMPACTED SOIL EXCAVATION AND DISPOSAL REPORT

**Corner of Main and Salmon St  
Fort Covington, New York 12937**

RECEIVED

JUN 22 2010

**NYSDEC Spill Number: 0908608**  
OP-TECH Project No.: LD500473

NYSDEC REGION 5  
ENVIRONMENTAL QUALITY

*Prepared for:*

New York State Department of Environmental Conservation  
Division of Environmental Remediation, Region 5  
Route 86  
Ray Brook, NY 12977

**Attn: Mr. Mike McLean**

*Prepared by:*

**OP-TECH ENVIRONMENTAL SERVICES, INC.**  
63 Trade Road  
Plattsburgh, NY 12901

June 2, 2010





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June 2, 2010

**New York State  
Department of Environmental Conservation  
Region 5  
Ray Brook, New York 12977**

Attn: Mr. Mike Mclean

Re: Soil Remediation Report  
Salmon & Main St.  
Fort Covington, New York 12937  
NYSDEC Spill No. 0908608  
OP-TECH Project No. LD500473

Mr. Mclean:

OP-TECH Environmental Services, Inc. (OP-TECH) has prepared the following Soil Remediation Report detailing the activities and methods used to remediate gasoline impacted soil at the intersection of Salmon and Main Streets in Fort Covington, New York. Specifically, this report summarizes on site activities to date and illustrates current site conditions subsequent to remediation efforts. Physical and economically feasible remediation objectives were met.

## **BACKGROUND**

The referenced site is a former gasoline service station that was owned by Malone Oil Company until 2003 when it was obtained by the Town of Fort Covington. While there is limited operational history it was registered as a NYS Bulk Petroleum Storage facility as recently as April 1988. The property was purchased by the Town of Fort Covington and the former gasoline service station was demolished shortly after. The property currently remains vacant.

## **SOIL REMEDIATION**

The New York State Department of Environmental Conservation (NYSDEC) directed OP-TECH to remove all accessible contaminated soil to limit the impact on the local environment. OP-TECH contacted Dig Safely New York (UFPO ticket # 11049-155-026-00) and mobilized to the site with a Kobelco 160 track mounted excavator to begin remediate activities, on November 17, 2009.

Once on-site, soil remediation via source removal began starting on the northern side of the subject property adjacent to the corner of Salmon Street and State Route 37. The excavation was extended in southerly and easterly directions with OP-TECH personnel continuously monitoring the excavation walls for petroleum odors, staining; and screened soil samples for the presence of volatile organic compounds (VOCs). (See attached site map and select photographs)

Field screening activities were conducted to establish the limits of the excavation using a MiniRae 2000 photo ionization detector (PID) with a 10.6 eV lamp. The field screening utilized the head space screening method, where a sample is placed into a sealable container and allowed to reach ambient

temperatures before the head space is tested for the presence of VOCs via the PID. While this method does not provide quantitative results, it does give a qualitative representation of VOC concentrations within the soil. Utilizing the above referenced field screening techniques OP-TECH monitored the levels of VOCs in the excavated soil; the PID results listed in Table 1 are representative of composite samples taken from the excavation walls. Soil PID screening results of the impacted soil ranged from >10 to 2000ppm.

The excavation was extended laterally in southerly and easterly directions from State Route 37 until the levels of VOCs were non-detectable; an excavation area map is attached (See Appendix A). The excavation was advanced to a maximum depth of approximately twelve feet below grade (fbg) in the center of the excavation. The impacted soil was loaded directly into dump trucks lined with polyethylene sheeting, no staging areas were utilized.

During the excavation activities a water line supplying an abandoned house next door to the subject property was compromised with the excavator due to an inaccurate UFPO mark out by the owner. The Town of Fort Covington was notified and the water was shut off before the excavation collected any significant water. Town of Fort Covington personnel repaired the compromised water line. After the waterline was reconnected the Town of Fort Covington backfilled and graded the area left exposed (See attached select site photographs).

At this time an unknown quantity of contaminated soil remains onsite below State Route 37. Field screenings of the excavation wall running parallel to State Route 37 show elevated levels of VOCs in the soil; see Table 1. As directed by NYSDEC personnel the excavation was restricted from advancing within two feet from the pedestrian sidewalk as to maintain the integrity of State Route 37 and the pedestrian sidewalk that runs parallel to it.

**TABLE 1**

**SUMMARY OF PID RESULTS**

Location	PID Reading (ppm)
North Wall	1800-2000
East Wall	ND
South Wall	ND
West Wall	ND
Bottom	ND

PPM- Parts per million  
ND- Non Detectable

**DISPOSAL & RESTORATION**

The impacted soil was excavated, and placed in a NYSDEC Part 364 permitted vehicle provided by North Star Trucking (NYSDEC Part 364 Permit No. 5A-172). The soil was transported and subsequently disposed of at the Franklin County Solid Waste Management Authority in Constable, New York.

A total of 1454.5 tons were transported and properly disposed of at the reference facility. Copies of the disposal documents are attached (See Appendix B).

A track skid steer was mobilized to the site to assist with backfilling the excavation and grading the subject site. The excavation was backfilled to original grade with 1009.4 tons of sand to complete OP-TECH's remediation efforts for the spill. Due to budget restraints the site will not be restored with top soil and seed (see attached select photographs).

## CONCLUSIONS

The goals for the remediation activities were to minimize the impact of gasoline contamination to the surrounding natural area. In general, the field observations indicate that source removal efforts were successful in achieving the goals. Given the PID evidence at the site, and the difficulties associated with removing the unknown quantity of remaining impacted soil beneath State Route 37, it is requested that the NYSDEC close this spill site, not meeting standards.

If you require further information or have any questions, please do not hesitate to contact me at 518.561.8368.

Sincerely,  
**OP-TECH Environmental Services, Inc.**



Adam R. Simmons  
Environmental Technician

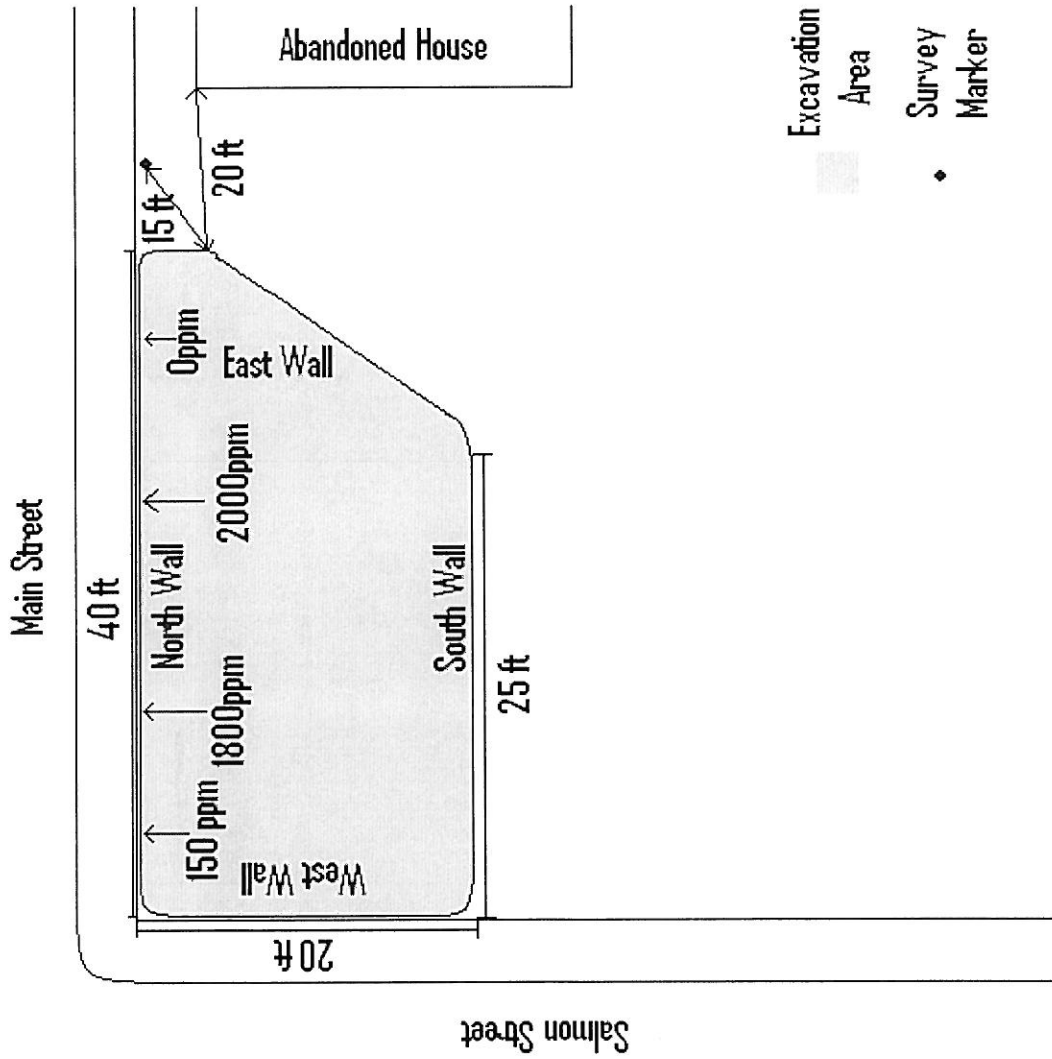
### Appendices:

- Appendix A: Site Map
- Appendix B: Disposal Documents
- Appendix C: Select Site Photographs

cc: Mike Mclean, NYSDEC Region 5

# Appendix A

Site  
Map



Excavation Area  
 Survey Marker



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Main and Salmon Street Fort Covington Franklin County, New York	Excavation Area Site Map June 2010	OP-TECH No: LD500473
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NOT TO SCALE

Disposal  
Documents

# Appendix B

11/20/09 Fri County of Franklin Solid Waste Management Authority  
3:51 pm  
Ver 3.6.1919  
Page 1

C:\PD30\DATA\FRNYTRAN.MDE

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and ([Date Out] Between 11/1/2009 and 11/20/2009)

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11/18/09	1086261	29.98
11/18/09	1086263	32.71
11/18/09	1086264	32.77
11/18/09	1086271	39.74
11/18/09	1086272	18.06
11/18/09	1086273	34.69
11/18/09	1086278	29.94
11/18/09	1086283	18.92
11/18/09	1086286	32.48
11/18/09	1086288	34.80
11/17/09	1086218	26.33
11/17/09	1086219	29.34
11/17/09	1086223	34.91
11/17/09	1086224	30.69
11/17/09	1086226	29.23
11/17/09	1086229	29.30
11/17/09	1086233	33.91
11/17/09	1086238	30.39
11/17/09	1086241	26.49
11/17/09	1086243	36.18
11/17/09	1086247	38.53
11/17/09	1086250	36.84
11/17/09	1086251	42.32
11/18/09	1086292	38.53
11/18/09	1086294	35.41
11/18/09	1086297	34.69
11/19/09	1086306	35.73
11/19/09	1086307	34.00
11/19/09	1086309	35.42
11/19/09	1086311	33.12
11/19/09	1086314	41.55
11/19/09	1086315	46.62
11/19/09	1086316	40.32
11/19/09	1086321	36.36
11/19/09	1086325	35.01
11/19/09	1086328	33.81
11/19/09	1086333	31.76
11/19/09	1086337	38.70
11/19/09	1086339	33.00

Confidential



11/20/09 Fri County of Franklin Solid Waste Management Authority  
3:51 pm  
Ver 3.6.1919  
Page 2

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and ([Date Out] Between 11/1/2009 and 11/20/2009)

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11/19/09	1086344	36.46
11/19/09	1086348	32.23
11/19/09	1086353	34.49
		1454.50

Records Read-> 43 of 43

Confidential

Select Site  
Photographs

# Appendix C

# SELECT SITE PHOTOGRAPHS

SPILL SITE: 0908608

Fort Covington, New York



**Photograph 1: Northern Excavation Wall and Progressing Excavation Area**

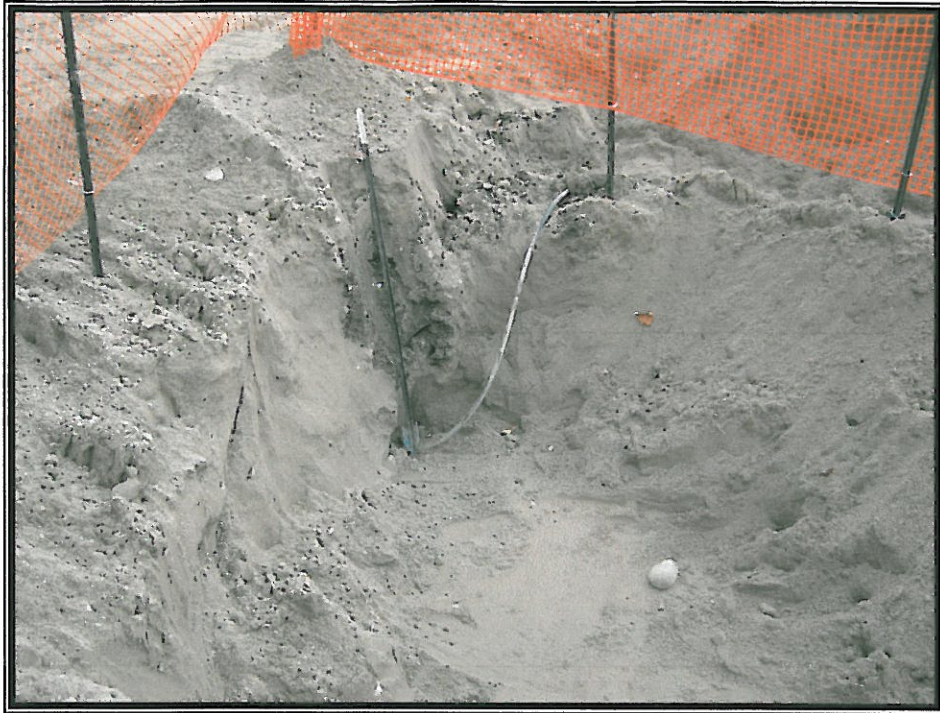


**Photograph 2: Excavation Area Impacted By Damaged Water Line**

# SELECT SITE PHOTOGRAPHS

SPILL SITE: 0908608

Fort Covington, New York



**Photograph 3: Damaged Water Line Left Exposed for Town of Fort Covington to Repair**



**Photograph 4: Subject Property Backfilled and Graded.**