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10th Floor  
New York, NY 10018

212.221.7822 PHONE  
212.221.7840 FAX

[www.TRCSolutions.com](http://www.TRCSolutions.com)

February 4, 2016

Ms. Ainura Doronova  
Environmental Engineer  
New York State Department of Environmental Conservation  
1 Hunters Point Plaza  
47-40 21st Street  
Long Island City, NY 11101-5407

**Re: Annual Summary Report No. 5 – Fuel Oil Removal  
NYSDEC Spill Case No. 0301927  
Public School 192M  
500 West 138<sup>th</sup> Street  
New York, New York 10031**

Dear Ms. Doronova:

This report, prepared by TRC Engineers, Inc. (TRC) on behalf of the New York City School Construction Authority (NYCSCA), provides a summary of remediation work performed in connection with New York State Department of Environmental Conservation (NYSDEC) Spill Case No. 0301927 for the fuel oil release at Public School (PS) 192M, located at 500 West 138<sup>th</sup> Street, New York, New York 10031 (the "Site"). In addition to providing a summary of background information regarding the spill case, the objective of this letter is to provide a description of the oil removal work performed in 2015, and an update regarding the status of conditions at the Site.

### **Background**

Historically, two (2) 10,000 gallon No. 6 fuel oil underground storage tanks (USTs) were used to provide fuel to the PS 192M boiler system. The tanks were identified as leaking in 1995. The NYSDEC was notified and Spill Case No. 0301927 was assigned. Subsequent environmental investigations, performed in 2001 and 2002, confirmed the presence of separate phase hydrocarbons, primarily beneath the boiler room floor slab in a thin layer of fill above bedrock, and also in the boiler room sump. The USTs were emptied and were taken out of service, the boilers were modified to use No. 4 fuel oil, an aboveground storage tank (AST) was installed for storage of No. 4 fuel oil, and a dual-phase remediation system was installed during a heating system upgrade project completed in 2003 and 2004.

The dual-phase remediation system included four (4) recovery wells (RW-1 through RW-4) and a 400-gallon AST to store recovered product. The dual-phase remediation system operated intermittently from 2004 through 2005. However, the measured rate of extraction of groundwater was greater than was originally anticipated. This caused the 400-gallon AST to fill up rapidly, which in turn resulted in frequent shut down of the system until the AST could be pumped out. Therefore, the system was shut down and product was recovered from the recovery wells and sump using vacuum trucks in 2006. This approach was abandoned after product thickness in the recovery wells did not change appreciably over time. TRC performed several inspections, the installation and testing of belt skimmer systems (as an alternative for product recovery), product removal, and gauging/bail down events between August and



October 2009. Based on the results of testing, which indicated that belt skimmer systems would be effective for product removal at the Site, TRC installed four belt skimmer systems at three recovery wells (RW-1, RW-3 and RW-4) and the boiler room sump. Refer to attached Figure 1 for the locations of the belt skimmer systems in the PS 192M boiler room.

TRC began operating the four belt skimmer systems on August 30, 2010 and inspected the belt skimmer systems on a quarterly basis in 2011. A total of 518 gallons of oil (RW-1 – 176 gallons, Sump – 175 gallons, RW-3 – 100.5 gallons, and RW-4 – 66.5 gallons) were recovered between August 30, 2010 and November 11, 2011. TRC continued operating the four belt skimmer systems and inspected the belt skimmer systems on a quarterly basis in 2012 and 2013. A total of 346 gallons of oil (RW-1 – 134 gallons, Sump – 71 gallons, RW-3 – 86 gallons, and RW-4 – 55 gallons) were recovered between November 11, 2011 and December 28, 2012, and 172 additional gallons of oil (RW-1 – 78 gallons, Sump – 29 gallons, RW-3 – 37 gallons, and RW-4 – 28 gallons) were recovered between December 28, 2012 and December 23, 2013. TRC inspected the belt skimmer systems and performed periodic maintenance during 2014. A total of 110 gallons of oil (RW-1 – 29 gallons, Sump – 49 gallons, RW-3 – 23 gallons, and RW-4 – 9 gallons) were recovered between December 23, 2013 and August 8, 2014. Annual reports were submitted to the NYSDEC in the first quarters of 2013, 2014 and 2015 summarizing the volumes of oil recovered.

#### **Summary of Progress During 2015**

TRC inspected the belt skimmer systems and performed periodic maintenance during 2015. Due to the effectiveness of the belt skimmer program and the resulting diminishing quantities of oil being recovered, removal of oil from belt skimmer drums was only required semi-annually in 2015. As part of the periodic inspections, removal of accumulated oil from the drums connected to the belt skimmers was performed with a vacuum truck on April 7 and December 30, 2015. The removed oil was transported off-site and disposed of at a facility permitted to accept the waste. Refer to Attachment 1 for the waste disposal documentation.

A total of 166 gallons of oil (RW-1 – 69 gallons, Sump – 43 gallons, RW-3 – 24 gallons, and RW-4 – 30 gallons) were recovered between August 8, 2014 and December 30, 2015. Therefore, a total of 1,312 gallons have been recovered since August 30, 2010, when product recovery using belt skimmer systems was initiated.

Observations and measurements recorded during periodic inspections performed in 2015 indicate that effective recovery of oil by the belt skimmer systems is continuing. Attachment 2 presents a tabulated summary of information recorded during the 2015 inspections. Attachment 3 presents a graphical representation of the amount of oil removed from the oil storage drum for each recovery well and the sump over time as well as a graphical representation of the oil recovery rate per day over time.

The following maintenance activities were performed on the belt skimmer oil recovery systems during calendar year 2015:

1. On January 30, 2015, a replacement belt was installed on the belt skimmer servicing the sump, and the belt skimmer was restarted;
2. On September 21, 2015, a replacement head pulley set screw was installed on the belt skimmer servicing the sump, and the belt skimmer was restarted; and



3. On October 9, 2015, replacement head pulley pressure wheels were installed on the belt skimmers servicing RW-1 and RW-4, and the belt skimmers were restarted.

Additionally, preventive belt skimmer system maintenance, including the emptying of the oil accumulator screen, cleaning of the exterior rotating mechanism, pulley assembly, pulley teeth and oil removal knife, and inspecting the belt, was completed as part of the periodic inspections. TRC also collected measurements of the oil levels in the drums and product thickness in the sump. Note that the measurements of the oil levels in the drums were estimated and used to determine required frequency for oil removal from the belt skimmer drums. Minimal (<0.5") oil was observed in the sump during the inspections.

### **Conclusions and Recommendations**

Based on the performance of the belt skimmers during 2015, the following can be concluded:

- The belt skimmer systems are actively removing fuel oil from below the basement slab of the PS 192M school building.
- While overall product recovery increased in 2015, this can be attributed to a decreased frequency of pump-outs (refer to Graph 1). The quantity of oil recovered in 2015 includes oil recovered between August 2014 and December 2015. As represented on Graph 2, the belt skimmer program continues to result in a diminishing total oil recovery rate.

Based on the performance of the belt skimmer systems during 2015, the following is recommended:

- Continued operation of the belt skimmer systems to remove product.
- Performance of periodic inspections, removal of accumulated product, and maintenance of the belt skimmer systems.
- Evaluation of the continued effectiveness of the belt skimmer system in removing product.
- Preparation of an annual report for 2016 and submittal of the report to NYSDEC in January 2017.

Please do not hesitate to contact me at (212) 221-7822 if you have any questions.

Sincerely,  
**TRC Engineers, Inc.**



Daniel Schmidt, P.E., LEED BD+C  
Project Manager

cc: D. Glass, TRC  
Project File

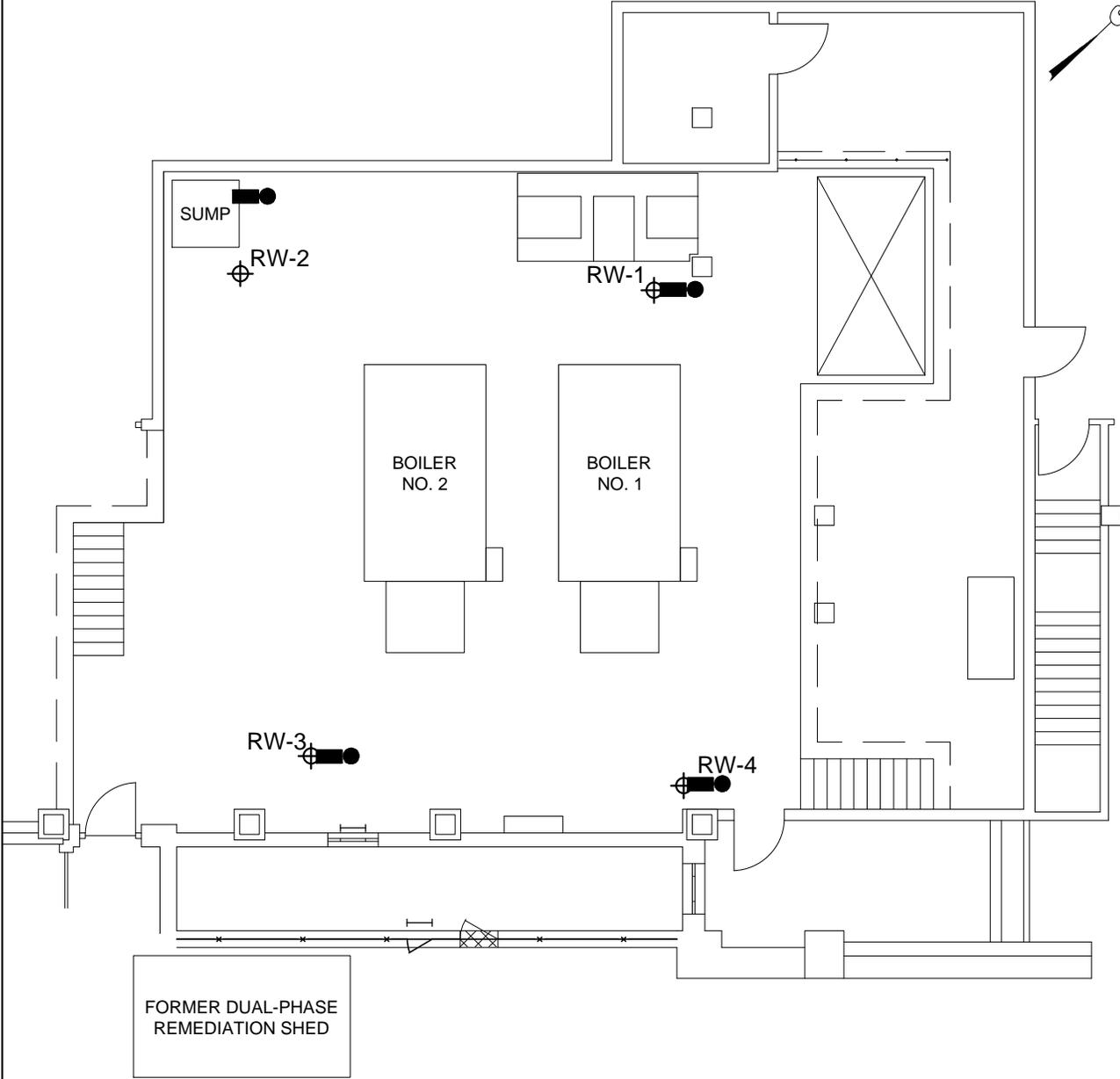
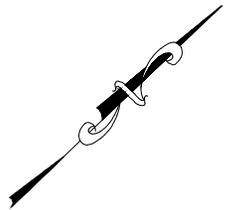
Enclosures: Figure 1: Recovery Well and Belt Skimmer System Location Plan  
Attachment 1: Waste Disposal Documentation  
Attachment 2: Table of Measurements Recorded during Belt Skimmer System Inspections  
Attachment 3: Oil Recovery Graphs



**Figure 1**

**Recovery Well and Belt Skimmer System Location Plan**

Path Name: \\NTAP-NYC\Environmental\Shared\Projects\NYCSCA Contract C000012279\191153 - PS 192\Figures\F1601 - Skimmer Location Map.dwg - Date\Time: Fri, 08 Jan 2016 - 12:03pm - User Name: dschmidt - Layout Tab: LAYOUT1



**LEGEND:**

-  BELT SKIMMER SYSTEM
-  RECOVERY WELL

DRAWING SOURCE: "RENOVATION BASEMENT PLAN"  
 DATED MAY 16, 2003, BURNS AND ROE ENTERPRISES,  
 INC.




1430 BROADWAY, 10TH FLOOR  
 NEW YORK, NEW YORK 10018  
 212-221-7822

DESIGNED BY: KM
DRAWN BY: KM
CHECKED BY: DS
DATE: JANUARY 2016
SCALE: 1" = 10'
PROJECT NUMBER: 191153.0000.0000

PROJECT NAME: <b>NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY          FUEL OIL REMOVAL, PUBLIC SCHOOL 192M - 500 W. 138TH ST          NEW YORK, NEW YORK 10031</b>
DRAWING TITLE: <b>RECOVERY WELL AND BELT SKIMMER SYSTEM          LOCATION PLAN</b>

**FIGURE  
 1**

**Attachment 1**  
**Waste Disposal Documentation**



**ENVIRO WASTE OIL RECOVERY, LLC**

279 Route 6 • P.O. Box 747

Mahopac, NY 10541

Ph: (845) 279-0263

Fax: (845) 621-3075

**Enviro Waste**  
Oil Recovery Specialists  
**1-866-WASTE-OIL**

Sales Order Number: **275386**

Sales Order Date: **4/6/15**

Page:

*Danny*  
*134*

**SOLD TO:** **BROOKSIDE ENVIRONMENTAL**  
**22 OCEAN AVE**  
**COPIAGUE, NY 11726**

**SHIP TO:** **BROOKSIDE ENVIRO-JOB SITE** *4-7-15*  
**PS 192**  
**500 WEST 138TH STREET**  
**MANHATTAN, NY**

CUSTOMER ID 1572-151	PO NUMBER	SALES REP NAME HOUSE
CUSTOMER CONTACT 518-577-8300	SHIPPING METHOD	PAYMENT TERMS NET 30

DESIGNATED FACILITY ENVIRO WASTE OIL STATE ID NO \_\_\_\_\_  
ADDRESS 279 RT 6, MAHOPAC, NY 10541 USA EPA ID NO NYD044825636

QUANTITY	ITEM	DESCRIPTION	UNIT COST	TOTAL
<u>90g</u>	700	OILY WATER DISPOSAL		
	708A	SLUDGE/VACUUM SOLID		
	721	USED OIL DISPOSAL-OFF/SPEC		
<u>1</u>	746	VAC SERVICE		
<u>2.15</u>	748	VAC TRUCK HOURLY RATE		
		DICK CALLED IN VAC JOB FOR 8AM TUESDAY		
		<i>11-7:00 started - 7:50 stopped - 10:15</i>		
		<i>Subtotal</i>		
		<i>Sales Tax (0.00%)</i>		
		<i>Total</i>		
		A/F _____ W/W _____ FILTERS _____	W/O _____	W/A/F _____

CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT SECTION. INVOICES REFLECTING CHARGES ARE SUBJECT TO AN INTEREST RATE OF THE LESSER OR 1-1/2% PER MONTH (18% PER ANNUM) OR THE MAXIMUM RATE ALLOWED BY LAW ON ANY INVOICES THAT ARE NOT PAID WITHIN 30 DAYS. IN THE EVENT OF DEFAULT, ENVIRO WASTE SHALL BE ENTITLED TO RECOVER COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES. INITIAL: *D*

USEPA TRANSPORTER 1 ID NO <b>NYD044825636</b>	GENERATOR USEPA ID NO	GENERATOR STATE ID NO	EMERGENCIES: (866) 927-8364	\$
--	-----------------------	-----------------------	-----------------------------	----

US DOT DESCRIPTION	CONTAINERS NO. / TYPE	TOTAL QUANTITY	UNIT WT/VOL
USED OIL, NON REGULATED, (NOT US D.O.T. HAZARDOUS MATERIAL)			
PETROLEUM CONTAMINATED WATER, NON D.O.T., NON R.C.R.A	<i>1 TT</i>	<i>90</i>	<i>g</i>
PETROLEUM CONTAMINATED SLUDGE, NON D.O.T., NON R.C.R.A			

GENERATOR WARRANTS AND REPRESENTS THAT THE MATERIALS PROVIDED ENVIRO WASTE HEREUNDER HAVE NOT BEEN MIXED, COMBINED, OR OTHERWISE BLENDED IN ANY QUANTITY WITH MATERIALS CONTAINING POLYCHLORINATED BIPHENYLS (PCB) OR ANY OTHER MATERIAL DEFINED AS HAZARDOUS WASTE UNDER APPLICABLE LAWS, INCLUDING BUT NOT LIMITED TO 40 CFR PART 261. GENERATOR AGREES TO INDEMNIFY AND HOLD ENVIRO WASTE HARMLESS FOR ANY DAMAGES, COSTS, ATTORNEY'S FEES, ETC. ARISING OUT OF OR IN ANY WAY RELATED TO A BREACH OF THE ABOVE WARRANTY BY THE GENERATOR.

I CERTIFY THAT MY TOTAL WASTE STREAMS ARE WITHIN ONE OF THE FOLLOWING CATEGORIES:

ENVIRO WASTE, ITS AGENTS AND CONTRACTORS HAVE THE CAPACITY AND ARE AUTHORIZED AND PERMITTED IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS, TO TRANSPORT, ACCEPT, STORE, RECLAIM OR AND/OR DISPOSE OF THE WASTE LISTED ON THIS DOCUMENT.

*+* 0 TO 220 LBS/MONTH  
INITIALS \_\_\_\_\_

GENERATOR CERTIFIES THAT THE WASTE IS:  USED OIL  USED ANTI-FREEZE  OILY WATER  OTHER \_\_\_\_\_

220 LBS TO 2,200 LBS/MONTH  
INITIALS \_\_\_\_\_

PRINT NAME: *DANIEL SCHMIOT AS AGENT FOR NYCSIA* TITLE: *ENGINEER*  
SIGNATURE: *[Signature]* DATE: *4/7/15*  
GENERATOR/CUSTOMER

DEXSIL CDT TEST RESULTS  
PPM *<1000*

GREATER THAN 2,200 LBS/MONTH  
INITIALS \_\_\_\_\_

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone  
888-927-8354

4. Waste Tracking Number  
276386

5. Generator Name and Mailing Address

Generator's Site Address (if different than mailing address)

500 WEST 138TH STREET  
MANHATTAN NY

Generator's Phone:

6. Transporter 1 Company Name  
ENVIRO WASTE OIL RECOVERY, LLC

U.S. EPA ID Number  
NYD044825636

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address  
ENVIRO WASTE OIL RECOVERY, LLC  
279 RT 6 MAHOPAC, NY 10541

U.S. EPA ID Number  
NYD044825636

Facility's Phone: 8452790263

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit W/Vol.

1. PETROLEUM CONTAMINATED WATER, NON REGULATED, (NOT US D.O.T. HAZARDOUS MATERIAL), N/A, NONE, NONE

No.

Type

90

g

2. USED OIL, NON REGULATED, (NOT US D.O.T. HAZARDOUS MATERIAL), N/A, NONE, NONE

3. PETROLEUM CONTAMINATED SLUDGE, NON REGULATED, (NOT US D.O.T. HAZARDOUS MATERIAL), N/A, NONE, NONE

4.

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name

DANIEL SCHMIDT AS AGENT FOR NYSCA

Signature

Month Day Year  
04 07 15

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Daniel Mauro

Signature

[Signature]

Month Day Year  
14 17 15

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

17b. Alternate Facility (or Generator)

Manifest Reference Number:

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17c

Printed/Typed Name

[Signature]

Signature

Month Day Year  
14 17 15

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator ID Number

NYR000051651

2. Page 1 of

3. Emergency Response Phone

866-927-2884

4. Waste Tracking Number

230318

5. Generator's Name and Mailing Address

PS 192  
500 WEST 138TH STREET  
MANHATTEN NY

Generator's Site Address (if different than mailing address)

Generator's Phone:

(212) 377-6300

6. Transporter 1 Company Name

ENVIRO WASTE OIL RECOVERY, LLC

U.S. EPA ID Number

NY0004325636

7. Transporter 2 Company Name

ENVIRO WASTE OIL RECOVERY, LLC

U.S. EPA ID Number

8. Designated Facility Name and Site Address

ENVIRO WASTE OIL RECOVERY, LLC  
279 RT 8 WAHOPAC, NY 10541

U.S. EPA ID Number

NY0004325636

Facility's Phone:

8453730553

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

1. PETROLEUM CONTAMINATED WATER, NON REGULATED, (NOT US D.G.T. HAZARDOUS MATERIAL), N/A, NONE, NONE

201

11

151

97

2. USED OIL, NON REGULATED, (NOT US D.G.T. HAZARDOUS MATERIAL), N/A, NONE, NONE

3. PETROLEUM CONTAMINATED SLUDGE, NON REGULATED, (NOT US D.G.T. HAZARDOUS MATERIAL), N/A, NONE, NONE

4.

13. Special Handling Instructions and Additional Information



14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name

ENVIRO WASTE OIL RECOVERY, LLC

Signature

[Signature]

Month Day Year

12 30 16

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Matt Vitello

Signature

[Signature]

Month Day Year

12 30 16

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

**ENVIRO WASTE OIL RECOVERY, LLC**

279 Route 6 • P.O. Box 747  
Mahopac, NY 10541

Ph: (845) 279-0263

Fax: (845) 621-3075

**Enviro Waste**  
*Oil Recovery Specialists*  
**1-866-WASTE-OIL**

Sales Order Number: **316418**

Sales Order Date: **12/30/15**

Page: **VCWED**



**SOLD TO:**

**BROOKSIDE ENVIRONMENTAL**  
**22 OCEAN AVE**  
**COPIAGUE, NY 11726**

**SHIP TO:**

**BROOKSIDE ENVIRO-JOB SITE**  
**PS 192**  
**500 WEST 138TH STREET**  
**MANHATTAN, NY**

CUSTOMER ID 1572-151	PO NUMBER OC	SALES REP NAME HOUSE
CUSTOMER CONTACT 516-377-6300	SHIPPING METHOD	PAYMENT TERMS NET 30

DESIGNATED FACILITY ENVIRO WASTE OIL

STATE ID NO \_\_\_\_\_

ADDRESS 279 RT 6, MAHOPAC, NY 10541

USA EPA ID NO \_\_\_\_\_

NYD044825636

QUANTITY	ITEM	DESCRIPTION	UNIT COST	TOTAL
	700	OILY WATER DISPOSAL		
	708A	SLUDGE/VACUUM SOLID		
<u>151</u>	721	USED OIL DISPOSAL-OFF/SPEC		
	748	VAC SERVICE		
	748	VAC TRUCK HOURLY RATE		
<p>VAC WED 12/30 @ 8AM - TRUCK WILL BE ON SITE LONGER THAN AN HOUR</p>				
			<b>Subtotal</b>	
			<b>Sales Tax (0.00%)</b>	
			<b>Total</b>	
		<b>A/F</b> _____	<b>W/W</b> _____	<b>FILTERS</b> _____
		<b>W/O</b> _____	<b>W/A/F</b> _____	

8:00

CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT SECTION. INVOICES REFLECTING CHARGES ARE SUBJECT TO AN INTEREST RATE OF THE LESSER OR 1-1/2% PER MONTH (18% PER ANNUM) OR THE MAXIMUM RATE ALLOWED BY LAW ON ANY INVOICES THAT ARE NOT PAID WITHIN 30 DAYS. IN THE EVENT OF DEFAULT, ENVIRO WASTE SHALL BE ENTITLED TO RECOVER COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES. INITIAL: EM

USEPA TRANSPORTER 1 ID NO <b>NYD044825636</b>	GENERATOR USEPA ID NO	GENERATOR STATE ID NO	EMERGENCIES: (866) 927-8364	\$
--	-----------------------	-----------------------	-----------------------------	----

US DOT DESCRIPTION	CONTAINERS NO.   TYPE	TOTAL QUANTITY	UNIT WT/VOL
USED OIL, NON REGULATED, (NOT US D.O.T. HAZARDOUS MATERIAL)	00711	151	9
PETROLEUM CONTAMINATED WATER, NON D.O.T., NON R.C.R.A			
PETROLEUM CONTAMINATED SLUDGE, NON D.O.T., NON R.C.R.A			

GENERATOR WARRANTS AND REPRESENTS THAT THE MATERIALS PROVIDED ENVIRO WASTE HEREUNDER HAVE NOT BEEN MIXED, COMBINED, OR OTHERWISE BLENDED IN ANY QUANTITY WITH MATERIALS CONTAINING POLYCHLORINATED BIPHENYLS (PCB) OR ANY OTHER MATERIAL DEFINED AS HAZARDOUS WASTE UNDER APPLICABLE LAWS, INCLUDING BUT NOT LIMITED TO 40 CFR PART 261. GENERATOR AGREES TO INDEMNIFY AND HOLD ENVIRO WASTE HARMLESS FOR ANY DAMAGES, COSTS, ATTORNEY'S FEES, ETC. ARISING OUT OF OR IN ANY WAY RELATED TO A BREACH OF THE ABOVE WARRANTY BY THE GENERATOR.

I CERTIFY THAT MY TOTAL WASTE STREAMS ARE WITHIN ONE OF THE FOLLOWING CATEGORIES:

ENVIRO WASTE, ITS AGENTS AND CONTRACTORS HAVE THE CAPACITY AND ARE AUTHORIZED AND PERMITTED IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS, TO TRANSPORT, ACCEPT, STORE, RECLAIM OR AND/OR DISPOSE OF THE WASTE LISTED ON THIS DOCUMENT.

0 TO 220 LBS/MONTH  
INITIALS: EM

GENERATOR CERTIFIES THAT THE WASTE IS:  USED OIL  USED ANTI-FREEZE  OILY WATER  OTHER \_\_\_\_\_

220 LBS TO 2,200 LBS/MONTH  
INITIALS: \_\_\_\_\_

KIRKTON MYERS  
PRINT NAME  
ENGINEER  
TITLE  
12/30/15  
DATE  
GENERATOR/CUSTOMER

**DEXSIL CDT TEST RESULTS**  
PPM 21000

GREATER THAN 2,200 LBS/MONTH  
INITIALS: \_\_\_\_\_

**Attachment 2**

**Table of Measurements Recorded During Belt Skimmer System Inspections**

**New York City School Construction Authority  
P.S. 192M, 500 West 138th Street, New York, NY  
NYSDEC Spill Case No. 0301927  
Summary of Work – Fuel Oil Removal**

**Table of Measurements Recorded During Belt Skimmer System Inspections  
April 7 and December 30, 2015**

**RW-1**

<b>Date</b>	<b>Location</b>	<b>Volume Accumulated since Previous Periodic Inspection (gallons)</b>	<b>Estimated Recovery Rate (gallons/month)<sup>1</sup></b>	<b>Product Thickness in Well (feet)</b>
4-7-15	RW-1	24	3.0	0.00 <sup>4</sup>
12-30-15	RW-1	45	5.1	0.00 <sup>4</sup>
<b>TOTAL</b>		69	4.1 <sup>2</sup>	

**SUMP**

<b>Date</b>	<b>Location</b>	<b>Volume Accumulated since Previous Periodic Inspection (gallons)</b>	<b>Estimated Recovery Rate (gallons/month)<sup>1</sup></b>	<b>Product Thickness in Sump (feet)</b>
4-7-15	Sump	12	1.5	0.00 <sup>3</sup>
12-30-15	Sump	31	3.5	0.00 <sup>3</sup>
<b>TOTAL</b>		43	2.5 <sup>2</sup>	

**RW-3**

<b>Date</b>	<b>Location</b>	<b>Volume Accumulated since Previous Periodic Inspection (gallons)</b>	<b>Estimated Recovery Rate (gallons/month)<sup>1</sup></b>	<b>Product Thickness in Well (feet)</b>
4-7-15	RW-3	12	1.5	0.00 <sup>4</sup>
12-30-15	RW-3	12	1.4	0.00 <sup>4</sup>
<b>TOTAL</b>		24	1.5 <sup>2</sup>	

**RW-4**

<b>Date</b>	<b>Location</b>	<b>Volume Accumulated since Previous Periodic Inspection (gallons)</b>	<b>Estimated Recovery Rate (gallons/month)<sup>1</sup></b>	<b>Product Thickness in Well (feet)</b>
4-7-15	RW-4	9	1.1	0.00 <sup>4</sup>
12-30-15	RW-4	21	2.4	0.00 <sup>4</sup>
<b>TOTAL</b>		30	1.8 <sup>2</sup>	

<sup>1</sup> – Estimated recovery rate calculated based on volume accumulated since previous inspection.

<sup>2</sup> – Average.

<sup>3</sup> – A sheen was observed on the surface of the sump but thickness could not be measured.

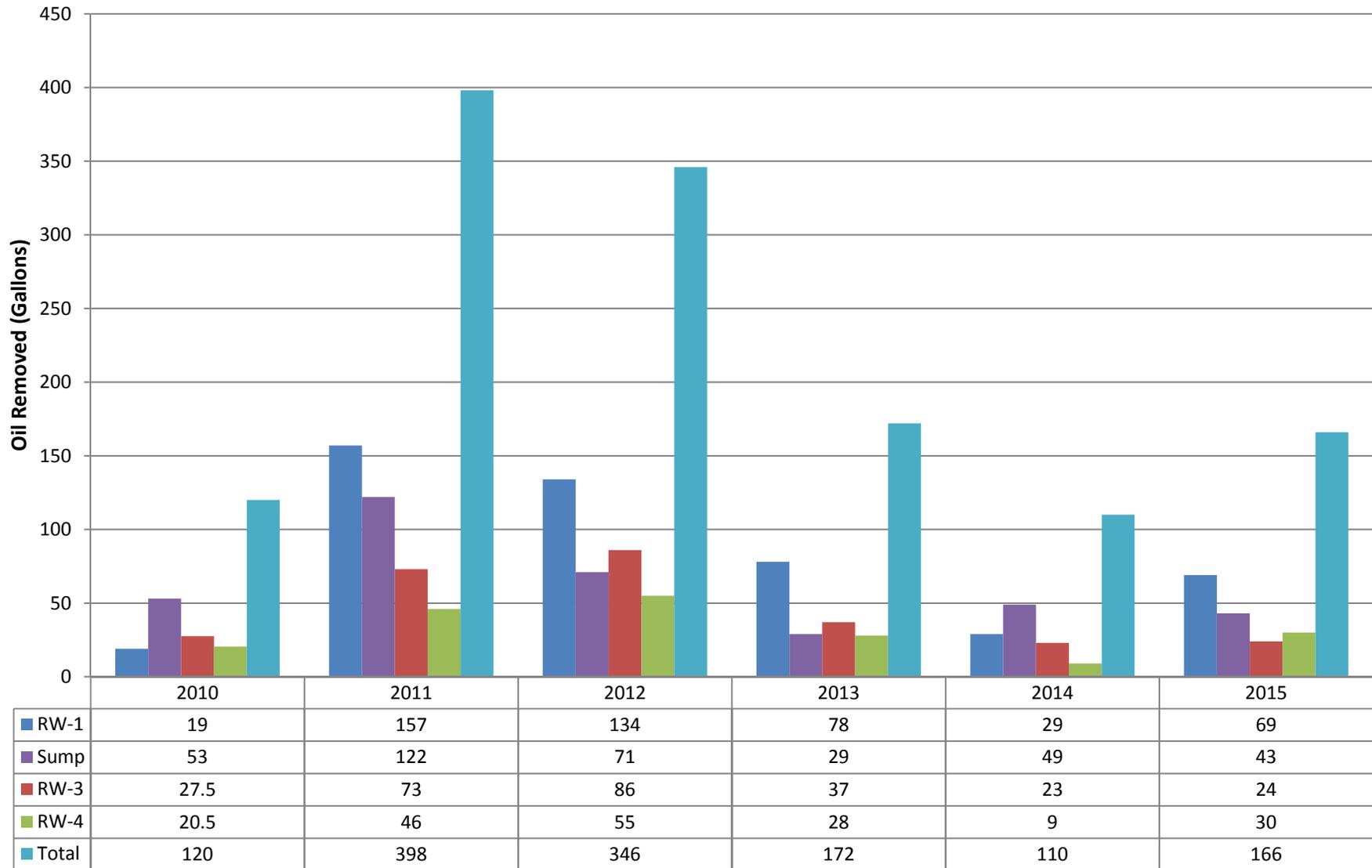
<sup>4</sup> – A sheen and/or product was observed on the interface probe.



**Attachment 3**

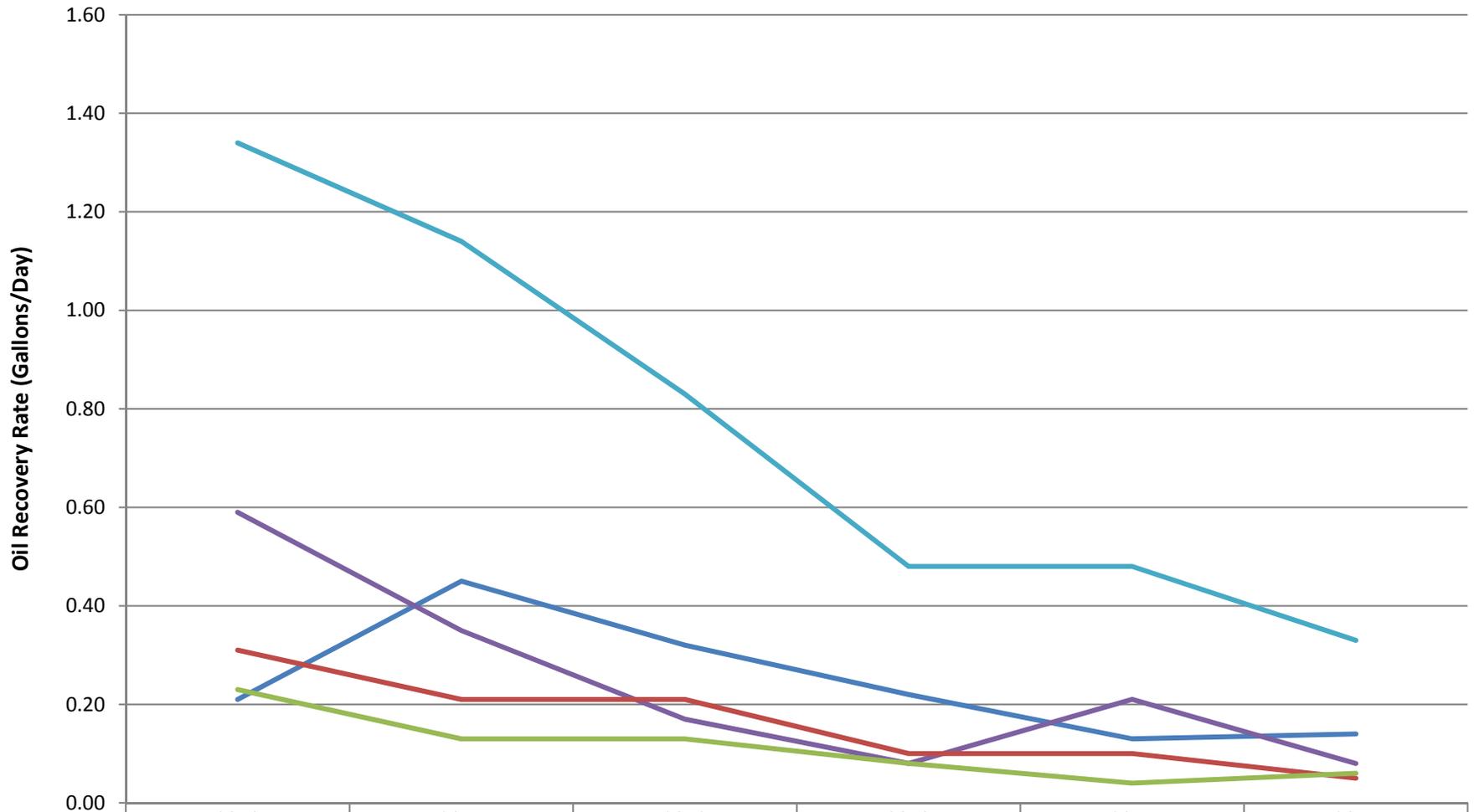
**Oil Recovery Graphs**

### Graph 1 - Accumulated Oil Removed Each Year



Note: Amounts shown are quantities of oil removed from storage drums for off-site disposal in each year, and do not correspond with amounts of oil recovered by the belt skimmers in each year.

### Graph 2 - Oil Recovery Rate versus Time



	2010	2011	2012	2013	2014	2015
RW-1	0.21	0.45	0.32	0.22	0.13	0.14
Sump	0.59	0.35	0.17	0.08	0.21	0.08
RW-3	0.31	0.21	0.21	0.10	0.10	0.05
RW-4	0.23	0.13	0.13	0.08	0.04	0.06
Total	1.34	1.14	0.83	0.48	0.48	0.33