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July 22, 2016

Ms. Lee Guterman  
Director Hazmat Unit, IEH Division  
New York City School Construction Authority  
30-30 Thomson Avenue  
Long Island City, NY 11101-3045

**Re: Site Inspection and Progress Report  
Public School 112X (X112)  
1925 Schieffelin Ave., Bronx, New York 10466  
TRC Project No. 223814.0000.0000  
IEH Job No. 50181; LLW Nos. 093602 and 093613**

Dear Ms. Guterman:

At the request of the New York City School Construction Authority (NYCSCA), TRC Engineers, Inc. (TRC), performed quarterly product gauging and removal from recovery wells installed in the sidewalk adjacent to the underground storage tanks (USTs) at public school 112X (X112), located at 1925 Schieffelin Ave., Bronx, NY (the "Site"). The most recent event was completed on June 29, 2016. Phillip Castellano (TRC) met with TRC's subcontractor (Brookside Environmental), vacuum truck operator (Envirowaste), and the School Custodian onsite.

### **Site Background**

At the request of the NYCSCA, TRC completed an Underground Storage Tank (UST) Investigation on October 3-5, 2014 at the Site. The UST Investigation was performed in support of a boiler replacement project to assess the environmental quality of subsurface soils around the perimeter of the two (2) 10,000-gallon No. 4 fuel oil USTs and in the vicinity of the fuel oil piping located at the Site. Petroleum contamination was observed in soil borings during the investigation, and a spill (Spill Case #1407069) was reported to the New York State Department of Environmental Conservation (NYSDEC). In response to the spill, the NYSDEC issued a letter dated October 7, 2014 requiring delineation of the petroleum contamination identified in soil borings during the initial investigation.

A supplemental investigation was completed on October 17 and 18, 2014 in response to the letter. Minor petroleum contamination was noted in one (1) boring immediately down-gradient of the contamination detected during the initial investigation.

Recovery wells RW-1 and RW-2 were installed in the area of the detected product on December 30, 2014 in accordance with the recommendations of TRC's *Underground Storage Tank Investigation Report* dated December 29, 2014. TRC also recommended product monitoring and recovery in the installed wells on a quarterly basis until no product was observed.

**Gauging Data**

Following the installation of the recovery wells, TRC has been conducting the proposed quarterly monitoring and product recovery events. A total of seven (7) events have taken place to date. The first four (4) events included well gauging and manual product recovery. Due to the level of product detected in the well RW-1 during monitoring events on June 26 and September 29, 2015, mechanical means of extraction (i.e., vacuum truck) of product from recovery well RW-1 has been incorporated into the quarterly events at the Site.

A summary table of initial gauging data (prior to any product removal) from these events is listed below:

**Pre-Removal Gauging Data**

Date	RW-1 DTP*	RW-1 DTW*	RW-1 Product Thickness*	RW-2 DTP	RW-2 DTW*	RW-2 Product Thickness
1/6/2015	10.83	10.85	0.02	ND	10.75	NA
3/26/2015	10.80	10.83	0.03	ND	9.41	NA
6/26/2015	11.97	12.22	0.25	ND	10.88	NA
9/29/2015	11.26	12.73	1.47	ND	11.00	NA
12/29/2015	11.35	11.85	0.50	ND	10.79	NA
3/25/16	10.68	10.76	0.08	ND	10.45	NA
6/29/16	11.80	12.81	1.01	ND	11.04	NA

\*DTP, DTW, and Thickness all measured in feet

The vacuum extraction/gauging events are summarized in the following section.

**Quarterly Gauging and Removal Results**

Upon arrival at the site for each quarterly gauging and removal event, TRC removed a saturated oil absorbent sock from RW-1 and performed pre-removal gauging of recovery wells RW-1 and RW-2. The results of the pre-removal gauging conducted between January 6, 2015 and June 29, 2016 are listed in the table in the above section.

Following the pre-removal gauging, PVC piping connected to the vacuum truck hose was placed into RW-1 to remove product. The well was alternatively vacuumed out and allowed to recharge to collect intermediate gauging measurements, and a final gauging of the well was performed following a recharge period after completion of removal activities. A total of approximately 100 gallons of oil and water were removed from the well on 6/29/16. Please refer to the tables below for results of gauging activities at RW-1 from the 12/29/15, 3/25/16, and 6/29/16 gauging and recovery events.

<u>12/29/15 Gauging</u>	<u>Recharge Time*</u> <u>(minutes)</u>	<u>DTP</u>	<u>DTW</u>	<u>Product Thickness</u>
Initial	NA	11.35	11.85	0.50
Intermediate 1	20	12.20	12.89	0.69
Intermediate 2	30	11.90	12.55	0.65
Final	45	11.45	12.17	0.67



<u>3/25/16 Gauging</u>	<u>Recharge Time* (minutes)</u>	<u>DTP</u>	<u>DTW</u>	<u>Product Thickness</u>
Initial	NA	10.68	10.76	0.08
Intermediate 1	30	11.87	12.06	0.19
Intermediate 2	30	11.96	12.18	0.22
Final	60	11.85	11.85	sheen

<u>6/29/16 Gauging</u>	<u>Recharge Time* (minutes)</u>	<u>DTP</u>	<u>DTW</u>	<u>Product Thickness</u>
Initial	NA	11.80	12.81	1.01
Intermediate 1	30	12.42	12.75	0.33
Intermediate 2	30	12.46	12.76	0.30
Final	75	12.32	12.33	0.01

\*"Recharge Time" represents the length of time RW-1 was allowed to recharge prior to each gauging. RW-1 was dry at the beginning of each recharge period.

After product removal and gauging activities were complete, a new oil absorbent sock was installed in RW-1.

Oil soaked debris generated during the event was removed from the Site by Brookside for disposal.

**Conclusion/Recommendation**

Due to the continued presence of product in RW-1, TRC recommends additional product gauging and removal events at the Site. The next quarterly event will be scheduled in September of 2016.

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

Sincerely,  
**TRC Engineers, Inc.**



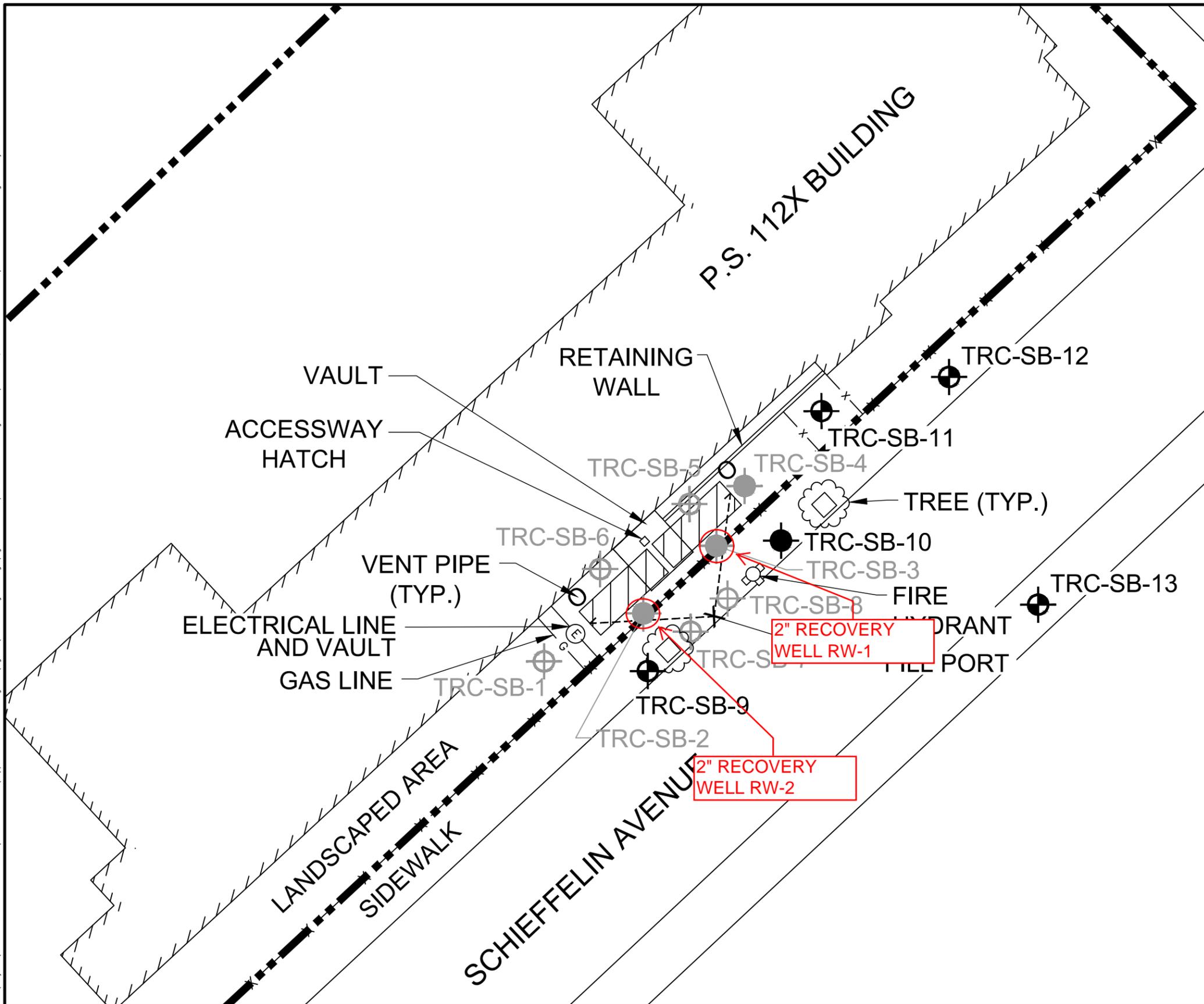
Kevin Boger, PE  
 Project Manager

cc: Paul Sherwood – NYCSCA  
 Project File

Enclosures: Site Plan  
 Photographs

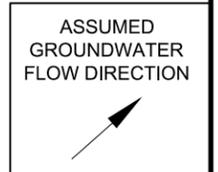
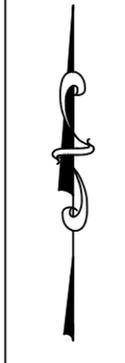


Path Name: \\NTAPA-NYC\Shared\Projects\WCSCA Contract: C000013008\223814 - 112X\Supplemental UST Investigation\Figures\TRC Working Drawings\Figure 2 - Sample Location Plan.dwg - Date: Tue, 02 Dec 2014 - 5:25pm - User Name: kbogger - Layout Tab: 11X17

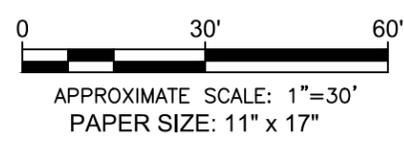


**LEGEND:**

-  SITE BOUNDARY
-  BUILDING FOOTPRINT
-  FENCE
-  APPROXIMATE UNDERGROUND STORAGE LOCATION
-  FILL/VENT
-  APPROXIMATE FILL LINE LOCATION
-  SOIL BORING COMPLETED ON 10/4/14 OR 10/5/14 AND LOCATION AND IDENTIFICATION NUMBER
-  TRC-SB-X
-  SOIL BORING COMPLETED ON 10/4/14 OR 10/5/14 AND LOCATION AND IDENTIFICATION NUMBER. SOIL EXHIBITED PETROLEUM IMPACTS.
-  TRC-SB-X
-  SOIL BORING COMPLETED ON 10/18/14 AND LOCATION AND IDENTIFICATION NUMBER
-  TRC-SB-X
-  SOIL BORING COMPLETED ON 10/18/14 AND LOCATION AND IDENTIFICATION NUMBER. SOIL EXHIBITED PETROLEUM IMPACTS.
-  TRC-SB-X



NO.	DESCRIPTION	BY	DATE



DESIGNED BY: KB
DRAWN BY: HD
CHECKED BY: CG
DATE: DECEMBER 2014
SCALE: AS SHOWN
PROJECT NUMBER: 223814.0000.0000

PROJECT NAME: NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY UNDERGROUND STORAGE TANK INVESTIGATION - P.S. 112X 1925 SCHIEFFELIN AVENUE, BLOCK: 4905, LOT: 500 BRONX, NEW YORK 10466
DRAWING TITLE: SAMPLE LOCATION PLAN

**FIGURE 2**

