June 10, 2015

Mr. Henry Willems NYSDEC DER, Remedial Bureau C 625 Broadway, 11th Floor Albany, NY 12233-7014

Re: Former Sunbelt Equipment 25 Kent Ave. Brooklyn, NY 11249 NYSBCP Site # C224207 Supplemental Investigation Work Plan

Dear Mr. Willems:

Environmental Business Consultants (EBC) has prepared the following report to document the The results of a Supplemental Subsurface Investigation performer at Former Sunbelt Equipment Site located at 25 Kent Avenue, Brooklyn, NY (**Figure 1**). The work was performed in accordance with the Supplemental Investigation Work Plan (SIWP) dated May 21, 2015, and approved by the Department.

The work included fourteen soil borings (15B1-15B14) as specified in the SIWP plus two additional borings (15B4A and 15B15) which were added to provide additional information at depth due to refusal at three of the fourteen originally proposed boring locations. Additionally, EBC investigated a utility tunnel present on the west side of the Site adjacent to Kent Avenue. As per the SIWP.

Soil Borings

On May 27, 2015 and May 28, 2015, EBC installed a total of 16 soil borings. Thirteen (13) of these borings were installed to a depth of 30 feet below grade and three borings were installed to a depth of 8-10 feet below grade due to refusal. C² Environmental installed borings on the approximate eastern portion of the property using a track-mounted GeoprobeTM model 6620DT and Soil Mechanics installed borings on the western portion of the Site using a truck-mounted hollow-stem auger rig with a two-foot long split-spoon sampler. All work was conducted under the oversight of EBC field personnel and the NYSDEC Project Manager, Mr. Henry Willems.

Two borings (15B13 and 15B14) were installed to a depth of 30 feet in the vicinity of the former iron works area. Two borings (15B11 and 15B12) were installed to a depth of 30 feet below grade surface (bgs) in the vicinity of the former varnish works area. Eight borings (15B1-3, 15B4A, 15B5-6, 15B9-10 and 15B15) were installed to a depth of 30 feet bgs in the western portion of the Site in the vicinity of the former petroleum works area. Additionally, three borings (15B4 and 15B7-8) were installed to a depth of 8-10 feet bgs in the former petroleum works area because refusal was encountered. Boring locations 15B4A and 15B15

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were added to the fourteen proposed borings in order to collect additional information at depths due to refusal at 8-10 feet at boring locations 15B4, 15B7 and 15B8. Please see **Figure 2** for soil boring locations. Soil conditions from each of these locations are described in the following:

Former Iron Works Area (15B13 and 15B14)

Historic fill material was present at these two boring locations from the surface to a depth of approximately seven to ten feet bgs. Brown silt and sandy silt was present below the fill layer. Additionally, brown clay was present in both borings approximately 15 to 17 feet bgs. Clay was predominant in boring 15B14 to the terminal portion of the boring at 30 feet bgs. Brown sand was present beneath the clay layer from 17 to 28 feet bgs in boring 15B13. A reddish/brown layer of clay was encountered at the bottom of boring 15B13 from 28 to 30 feet. Based upon observed moisture content and the portion of recovered soils that were wet or saturated, depth to groundwater was estimated at approximately 10-13 feet bgs. Soil recovered from borings 15B13 and 15B14 from the surface to the terminal depth of 30 feet below grade did not exhibit any signs of petroleum impacts.

Former Varnish Works Area (15B11 and 15B12)

Historic fill material was present from the surface to a depth of approximately five feet bgs at boring location 15B12; however, no fill material was observed in boring location 15B11. The top five feet of boring 15B11 consisted of tan sand and brown silty sand. Brown silt was present from approximately five to nine feet bgs at both locations followed by wet, black-stained sand and silt exhibiting strong petroleum odors, sheen and moderate to high PID responses. Depth to groundwater was estimated at approximately 10 feet bgs. Petroleum impacted soil (*e.g.*, stained soils with petroleum odors and PID responses) extended from nine to fifteen feet bgs at 15B11 and from nine to twenty feet below grade at 15B12. Clean brown sand, followed by tan clay and sand mixtures were present from 15 to 30 feet bgs at 15B11. Clean brown sand followed by gray clay was present at 15B12 from 20 to 30 feet bgs.

Former Petroleum Works Area (15B1-10 and 15B15)

Historic fill material was encountered at each of these locations from surface to depths ranging from three to six feet below grade. Petroleum impacted fill material was encountered at boring locations 15B7, 15B8 and 15B9. Petroleum impacted soil was observed from zero to ten feet below grade at boring locations 15B7 and 15B8. However, refusal was encountered at ten feet bgs at both of these locations, so the extent of contamination could not be determined. Petroleum impacted soil was observed from zero to 15 feet bgs at 15B9. At the remaining boring locations in the Former Petroleum Works area, petroleum impacted soil was encountered beneath the fill material layer at depths as shallow as four feet bgs. Impacted soil extended to depths ranging from 8 to 12 feet bgs at boring locations 15B1, 15B2, 15B4 and 15B4A. Petroleum impacts were observed to depths ranging from approximately five to 30 feet bgs at boring locations 15B3, 15B5, 15B6, 15B10 and 15B15. Wet wood and wood fragments with a strong petroleum odor was recovered from the six to ten foot interval in borings 15B1, 15B2, 15B4, and 15B6. Gray fine-grained sand and silt mixtures with no wood and no evidence of petroleum impacts were present in deeper soil ranging from approximately eight to 22 feet bgs at boring locations 15B1, 15B2, 15B4, and 15B6. This eight to 22 foot interval

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HONE 631.504.6000 AX 631.924.2870 consisted of petroleum impacted gray sand and silt mixtures at boring locations 15B3, 15B5, 15B10 and 15B15. A layer of black/brown peat moss and compacted plant matter was encountered in borings 15B1, 15B2, 15B3, 15B4A, 15B5, 15B6 and 15B15 at depths ranging from 17 to 24 feet bgs. Gray and brown fine-grained sand and sandy silt were present below the layer of peat and compacted organics at all of the borings from this area (except for 15B4, 15B7 and 15B8, which hit refusal at eight to ten feet bgs and 15B15 which had a layer of brown clay at 25 to 30 feet bgs). The gray/brown fine-grained material extended to the bottom of each boring at 30 feet bgs.

Depth to groundwater varied at each location in the Former Petroleum Works area and was estimated from four to ten feet below grade. Depth to groundwater measurements were taken at several boring locations in this area through sections of the hollow-stem auger, once installed to 30 feet bgs. However, most measurements did appear to be accurate. This was likely due to the variable soil layers encountered including clay layers and also because groundwater was not allowed sufficient time to attenuate to its natural level before removing the hollow stem auger sections and mobilizing to the next boring location.

Boring logs for each soil boring location are provided in **Appendix A**. Additionally, photographs of soils recovered from borings are shown in **Appendix B**.

Utility Tunnel Excavation and Inspection

The location of a utility tunnel had been documented in previous investigative reports and was known to be present on the western side of the property adjacent to Kent Avenue. On May 28, 2015, a track mounted excavator was used to expose the top of the tunnel and determine how far onto the Site the utility tunnel extends by excavating to expose the end. The top of the tunnel was exposed for visual inspection and to determine the best way to seal it at the property line. An Environmental Professional (EP) documented the observations and measurements in a bound notebook along with photographs so that the tunnel can be represented on a scaled site plan. Photographs of the exposed utility tunnel can be viewed in **Appendix C**. The following summarizes observations made during the excavation of the utility tunnel area and preliminary decisions discussed in the field by the EP, the onsite NYSDEC PM, Mr. Henry Willems, the Owners Representative, Mr. Allan Konstam and the Remedial Engineer, Mr. Ariel Czemerinski.

A twenty foot by twenty foot excavation to a depth of approximately 8 feet below grade was exposed approximately four feet to the east of the property line adjacent to Kent Avenue. The excavation of this area revealed a brick structure, copious amounts of historic fill material and several 8-12 inch diameter metal pipes. Black-stained soil with a strong petroleum odor was encountered at approximately 4 feet below grade. No in-tact structures were observed; however, it is assumed based upon field observations that the brick structure and metal pipes were what comprised the historic utility tunnel. The tunnel appeared to be approximately 15 feet wide and extended approximately 20 feet into the property.



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Water was sprayed continuously over the excavation area in order to suppress dust from becoming airborne. The utility tunnel is present in an area with known elevated levels of lead and petroleum impacts.

As discussed with the RE and DEC, this area should be addressed and remediated during the early stages of development. A sidewalk closure permit will be required to further excavate this area as it is adjacent to Kent Avenue and there is a potential for undermining. Once the tunnel is exposed, it should be sealed with mortar at the property boundary to prevent any possible transfer of liquids from off-site sources, as it is anticipated that the utility tunnel connects the Site to the western portion of the former refinery. This contingency will be addressed in the support of excavation (SOE) document.

Should you have any questions or require further information, please do not hesitate to call either of the undersigned.

Very truly yours,

Robert Bennett Project Manager

Cc: C. Sosik, EBC A. Czemerinski, AMC T. Moskovits A. Konstam C. Krieger

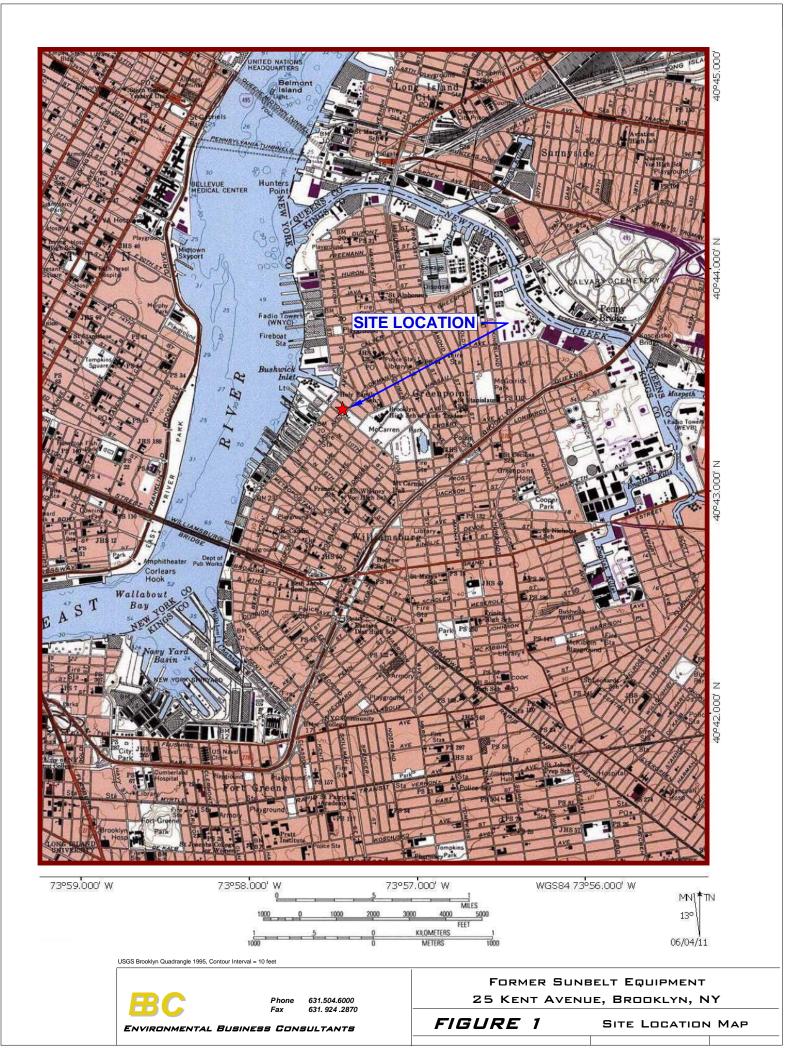


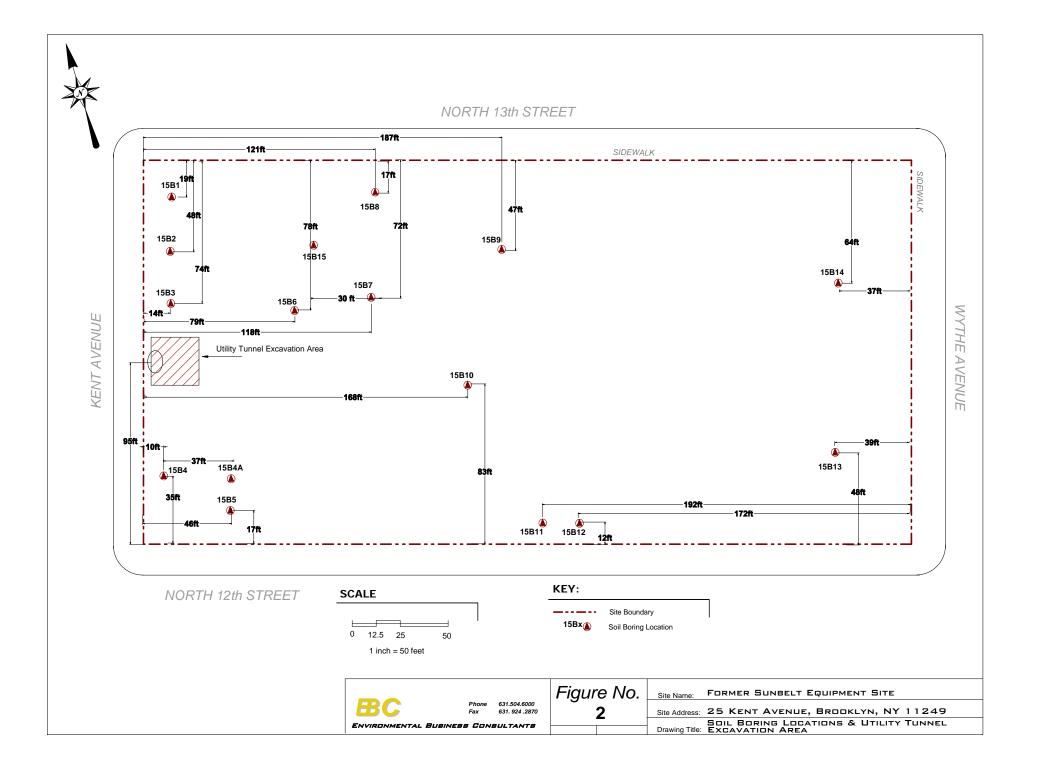
FIGURES



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| Location: | | | | | the inte | ersection | Depth to Water Site Elevation Datum | | |
|--|-------------------|--------------------|--|-------------------------|-------------|--------------|-------------------------------------|------------------------|-------------------------------------|
| <u>O'()</u> Nie 19 | | t Avenue ar | | 13th Street | | | Data | DTM/ | |
| Site Name | | uinmont | Address | : Avenue, Bro | | IV. | Date | DTW | Ground Elevation: |
| Former Su | nbeit Eq | upment | 25 Kent | Avenue, bio | ΟΚΙΥΠ, Ν | A T | Groundwater depth | | 11' amsl |
| Drilling Co | | | | Method: | | 40 | 2 | | |
| Soil Mecha | nics | | | Hollow stem | with 2 | | | | |
| | | | | foot split spoon | | | 8' 1" | | Well Specifications: |
| Date Starte | ed: | | | Date Compl | leted: | | | | Nie Wiell le stelle d |
| 5/28/2015 | Donth | | | 5/28/2015 Geologist: | | | | No Well Installed | |
| Completion Depth: 30 Feet | | | | Robert Ben | nett | | | | |
| 1514B1 DEPTH | | | | SAMPLES | non | | | | |
| (ft below | | | Reco- | Blow | | | SOIL | DESCRIF | PTION |
| (NT | S) | grade) | very | per | PID | | | | |
| (| , | 5 | (in.) | 6 in. | (ppm) | | | | |
| | Kosososososososos | | | | | | | | |
| | | 0-1 | 24 | | 0.0 | | , | | nd with red brick, ash, and asphalt |
| | | 1-2 | - | | 0.0 | | nts (no o | | |
| | | _ 2-3 3-4 | 24 | | 0.0 | | LL) brow hts (no o | | nd with red brick, ash, and asphalt |
| | | 4-5 | | | 25.0 | 24"- we | t. dark o | irav staine | ed silty gravelly sand (strong |
| | | 5-6 | 24 | | 35.0 | | um odor) | | |
| | | 6-7 | 4 | | 10.5 | | , | | fragments (strong petroleum odor) |
| | | 7-8 | 4 | | NA | | - | • | |
| | | 8-9 | 24 | | 30.0 | | | | avelly silty sand with wood |
| | | 9-10 | | | 45.0 4.0 | fragmer | <u>nts (stror</u> | ng petrole | eum odor) |
| | | _ 10-11 _ 11-12 | 24 | | 4.0 | | | ilty sand ilty sand i | (petroleum odor) (po odor) |
| | | 12-13 | | | 0.0 | | | ilty sand | |
| | | 13-14 | 24 | | 0.0 | 2 | st glay o | inty barra | |
| | | 14-15 | 24 | | 0.0 | 24" - we | et gray s | ilty sand | (no odor) |
| | | 15-16 | 27 | | 0.0 | | | | |
| | | _ 16-17 | 24 | | 0.0 | 24" - we | et gray s | ilty sand | (no odor) |
| | | _ 17-18 18-19 | | | 0.0 | 24" 144 | t arov o | ilty sand | (no odor) |
| | | 19-20 | 24 | | 0.0 | 24 - W6 | er gray s | iity sanu i | |
| | | 20-21 | 24 | | 0.0 | 18" - we | et gray s | ilty sand | (no odor) |
| | | 21-22 | 24 | | 0.0 | 6" - bla | ck/browr | n compac | ted peat/organics (no odor) |
| | | 22-23 | 24 | | 0.0 | 24" - bla | ack/brow | vn comp <mark>a</mark> | cted peat/organics (no odor) |
| | | 23-24 | | | 0.0 | 04" | t ares - | and tra- | a ailt (na adar) |
| | | _ 24-25 25-26 | 24 | | 0.0 | ∠4° - W€ | et gray s | anu, trace | e silt (no odor) |
| | | 26-27 | <u> </u> | | 0.0 | 24" - we | et arav s | and, trace | e silt (no odor) |
| | | 27-28 | 24 | | 0.0 | | | | |
| | | 28-29 | 24 0.0 12" - wet gray sand, trace silt (no odor) | | | | | | |
| 29-30 29-30 0.0 12" - brown fines silty sand (no odor) | | | | | | nd (no odor) | | | |
| | | _ | - | | | | | | |
| | | — | - | | | | | | |
| | | | 1 | | | | | | |



| Location: | Northw | est corner | of the Sit | e adjacent to | | Boring I | | Depth to Water Site Elevation Datum | | |
|-------------|-----------|---|------------|--------------------------|--------------|----------------------|------------------------------|-------------------------------------|---|--|
| Location. | | | | 13th Street. | | | Deptin | o water | One Elevation Datum | |
| | | south of 1 | | | πρρισπ | initiatory | | | | |
| Site Name | | 5000110110 | Address | • | | | Date | DTW | Ground Elevation: | |
| Former Su | - | uinment | | Avenue, Bro | oklyn N | JY | | | | |
| | | aipmont | 20 1011 | Avenue, Brooklyn, NT | | | Groun | dwater | 11' amsl | |
| Drilling Co | mpony | | | Method: | | | de | pth | | |
| Soil Mech | | | | Hollow stem auger with 2 | | | | | | |
| | anics | | | | - | | 7' | 10" | Well Specifications: | |
| Date Start | ed. | foot split spoon 7' 10" d: Date Completed: | | | | Well Opeointeations. | | | | |
| 5/28/2015 | | | | 5/28/2015 | 10100. | | | | No Well Installed | |
| Completio | | | | Geologist: | | | | | | |
| 30 Feet | | | | Robert Ben | nett | | | | | |
| 15 | 32 | DEPTH | | SAMPLES | | | | | | |
| | | (ft below | Reco- | Blow | | | SOIL | DESCRIF | PTION | |
| (NT | S) | grade) | very | per | PID | | | | | |
| , | , | , | (in.) | 6 in. | (ppm) | | | | | |
| | Decension | | | | | | | | | |
| | | 0-1 | 24 | | 0.0 | | | | gravelly silt with ash and concrete | |
| | | 1-2 | | | 0.0 | fragme | nts (no c | odor) | | |
| | | 2-3 | 24 | | 0.0 | | | | silt with ash and concrete (no odor) | |
| | | _ 3-4 4-5 | | | 12.0 45.0 | | | | ily sand (petroleum odor) | |
| | | _ 4-5 5-6 | 24 | - | 45.0 | - | | | silt (petroleum odor) (bottom 2" of | |
| | | 6-7 | | | 15.0 | | <u>y is wet)</u> trated o | | silty sand with wood fragments | |
| | | 7-8 | 6 | | NA | | um odoi | | Sity saile with wood haghents | |
| | | 8-9 | 2 | | 2.0 | 2" - wet | , gray st | ained silt | y sand with wood fragments | |
| | | 9-10 | 2 | | NA | (petrole | um odoi | r) | - | |
| | | _ 10-11 | 24 | | 6.0 | 24" - we | et, gray s | silty sand | (petroleum odor) | |
| | | _ 11-12 | - · | | 10.0 | | | ilty sand | | |
| | | 12-13 | 24 | | 0.0 | 24" - we | et gray s | ilty sand | (no odor) | |
| | | 13-14 14-15 | | | 0.0 | 24" 144 | t arov o | ilty sand | (no odor) | |
| | | 15-16 | 24 | | 0.0 | 24 - WG | si yiay s | iity sanu | | |
| | | 16-17 | 0.4 | | 0.0 | 24" - we | et grav s | ilty sand | (no odor) | |
| | | 17-18 | 24 | | 0.0 | | 3, 0 | ., <u>.</u> | × - / | |
| | | 18-19 | 24 | | 0.0 | 24" - we | et gray s | ilty sand | (no odor) | |
| | | 19-20 | <u>_</u> | | 0.0 | | | | | |
| | | 20-21 | 24 | | 0.0 | 24" - we | et gray s | ilty sand | (no odor) | |
| | | _ 21-22 22-23 | | | 0.0 | 10" | t arou ci | Ity sand (| no odor) | |
| | | _ 22-23 23-24 | 24 | | 0.0 | | | | no odor) icted peat/organics (no odor) | |
| | | 24-25 | e t | | 0.0 | | | | idy silt) (no odor) | |
| | | 25-26 | 24 | | 0.0 | "g | gray i | | | |
| | | 26-27 | 24 | | 0.0 | 24" - br | own/gra | y silty cla | y (no odor) | |
| | | 27-28 | 24 | | 0.0 | | | | | |
| | | _ 28-29 | 24 | | 0.0 | 24" - gr | ay sand | (no odor) | | |
| | | 29-30 | | | 0.0 | | | | | |
| | | _ | | | | | | | | |
| | | — | | | | | | | | |
| | | — | | | | | | | | |
| | | - | | | | | | | | |



| | | | | | Boring | | | | | | | |
|-------------------------|----------|------------------|------------|------------------------|--------------|---|--|--|---|--|--|--|
| Location: | West si | de of the S | Site adjac | ent to Kent A | Avenue. | | Depth t | o Water | Site Elevation Datum | | | |
| Site Name | : | | Address | : | | | Date | DTW | Ground Elevation: | | | |
| Former Su | | uipment | 25 Kent | Avenue, Bro | ooklyn, N | IY | Groundwater depth | | 11' amsl | | | |
| Drilling Co | | | | Method: | | | | F | | | | |
| Soil Mecha | anics | | | Hollow sten | | with 2 | | | | | | |
| Data Otari | 1 | | | foot split sp | | | 14 | ' 4" | Well Specifications: | | | |
| Date Start 5/27/2015 | | | | Date Comp 5/27/2015 | letea: | | | | No Well Installed | | | |
| Completio | | | | Geologist: | | | - | | No weir installed | | | |
| 30 Feet | n Depin. | | | Robert Ben | nett | | | | | | | |
| 15E | 22 | DEPTH SAMPLES | | | | | | | | | | |
| 131 | 55 | (ft below | Reco- | Blow | | | SOIL | DESCRIPTION | | | | |
| (NT | S) | grade) | very | per | PID | | | | | | | |
| | -, | 9.500, | (in.) | 6 in. | (ppm) | | | | | | | |
| | | | , | <u> </u> | | | | | | | | |
| | | 0-1 | - 24 | | 0.0 | 24"- (F | LL) brow | y sandy silt with red brick and concrete | | | | |
| | | 1-2 | 24 | | 0.0 | fragme | nents (no odor) (FILL) brown gravelly sandy silt with red brick and co | | | | | |
| | | _ 2-3 _ | 24 | | 0.0 | | | | | | | |
| | | 3-4 | | _ | 0.0 | | ments (no odor) (FILL) brown gravelly sandy silt with red brick and conc ments (no oder) | | | | | |
| | | 4-5 | 24 | | 0.0 | | | | | | | |
| | | 5-6 | - 27 | | 0.0 | fragments (no odor) 18" - soaked wood (petroleum odor) | | | | | | |
| | | 6-7 | | + | 7.0 | | 6"- saturated wood (petroleum odor) | | | | | |
| | | 7-8 | 6 | | NA | 0 0010 | | | | | | |
| | | 8-9 | 10 | | 8.5 | 10"- sa | turated w | vood (pet | roleum odor) | | | |
| | | 9-10 | 10 | <u> </u> | NA | | | | | | | |
| | | 10-11 | 24 | | 2.5 | 24" - w | et gray/b | rown silty | v sand (petroleum odor) | | | |
| | | _ 11-12 12-13 | | | 10.8 15.0 | 24" or | turatad | alaak/ara | y gravelly sandy silt (petroleum odor) | | | |
| | | 13-14 | - 24 | | 30.0 | 24 - 56 | aluraleur | Jiack/gra | y gravelly salidy slit (petroleuni odor) | | | |
| | | 14-15 | 0.1 | - | 10.0 | 24" - sa | aturated I | olack/gra | y gravelly sandy silt (petroleum odor) | | | |
| | | 15-16 | 24 | | 12.0 | | | <u>-</u> | , g,, | | | |
| | | 16-17 | 24 | | 0.0 | | | | d (no odor) 6" - | | | |
| | | _ 17-18 _ | | | 0.0 | black/b | rown cor | npacted | peat/organics (no odor) | | | |
| | | _ 18-19 _ | 24 | | 2.0 | | | | n compacted peat (petroleum odor) | | | |
| | | _ 19-20 20-21 | | + | 3.0 | | | | mpacted peat (petroleum odor) mpacted peat (no odor) | | | |
| | | 21-22 | - 24 | | 0.0 | 24 - UI | y DIACK/L | | npaciou pear (no odor) | | | |
| | | 22-23 | 0.4 | 1 | 0.0 | 10" - dr | v black/t | orown cor | npacted peat (no odor) | | | |
| | | 23-24 | - 24 | | 0.0 | 14" - dł | . gray si | lty sand, | no odor | | | |
| | | 24-25 | 24 | | 0.0 | 24" - sa | aturated g | gray fines | s (sand/silt) (no odor) | | | |
| | | _ 25-26 _ | | <u> </u> | 0.0 | 0.1" | | • • | | | | |
| | | _ 26-27 _ | 24 | | 0.0 | 24" - gr | ay fine s | and, trac | e silt (no odor) | | | |
| | | _ 27-28 28-29 | + | + | 0.0 | 18" - ar | av fine c | and trac | e silt (no odor) | | | |
| | | 29-30 | - 24 | | 0.0 | | | | -M grained sand (no odor) | | | |
| | | | | 1 | | e gru | , | <u></u> | | | | |
| | | | | | | | | | | | | |
| | | | _ | | | | | | | | | |
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| | | | 15B4 | Borin | g Log | | | | | |
|------------------|------------------------------|------------|---------------|-----------|-----------|--|--------------------------|--|--|--|
| | hwest corner ent Avenue a | | | o the int | ersection | Depth to Water | Site Elevation Datum | | | |
| Site Name: | | Address | | | | Date DTW | Ground Elevation: | | | |
| Former Sunbelt I | | | Avenue, Bro | ooklyn, N | ΙY | Groundwater depth | 12' amsl | | | |
| Drilling Company | | | Method: | | | | | | | |
| Soil Mechanics | | | Hollow ster | n auger | with 2 | | | | | |
| | | | foot split sp | | | 10' 5" | Well Specifications: | | | |
| Date Started: | | | Date Comp | leted: | | | | | | |
| 5/27/2015 | | | 5/27/2015 | | | | No Well Installed | | | |
| Completion Dept | | Geologist: | | | | | | | | |
| 8 Feet | - | Robert Ben | | | | | | | | |
| 15B4 | DEPTH | | SAMPLES | | | | | | | |
| | (ft below | Reco- | Blow | | | SOIL DESCRIF | PTION | | | |
| (NTS) | grade) | very | per | PID | | | | | | |
| | | (in.) | 6 in. | (ppm) | | | | | | |
| | | | | | | | | | | |
| | 0-1 | - 24 | | 0.0 | | LL) brown sandy | | | | |
| | _ 1-2 _ | | | 0.0 | | e and glass fragm | | | | |
| | _ 2-3 _ | 24 | | 0.0 | | LL) brown sandy | | | | |
| | _ 3-4 _ | | | 0.0 | concret | <u>te and glass fragments (no odor)</u> a. brown/black sandy gravelly silt (stron | | | | |
| | | 24 | | 0.8 | | | dy gravelly silt (strong | | | |
| | | | | 4.0 | | um odor) | | | | |
| | _ 6-7 _ _ 7-8 _ | - 24 | | 10.0 | | | sandy gravelly silt | | | |
| | - /-0 - | | | 10.0 | | petroleum odor) Isal at 8 feet bgs, | three attempts | | | |
| | | | | | - Reiu | isar at 8 reet bys, | inree allempis | | | |
| | | _ | | | | | | | | |
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| | | | | 1 | 5B4A | Boring | Log | | | |
|----------------------------------|-----------|--------------------|---------|-------------------------------|--------------|-----------------|----------------------|-------------------|--|--|
| _ocation: | | | | te adjacent t 12th Street. | o the inte | ersection | Depth t | to Water | Site Elevation Datum | |
| Site Name | | | Address | | | | Date | DTW | Ground Elevation: | |
| Former Su | inbelt Eq | uipment | 25 Kent | Avenue, Bro | ooklyn, N | IY | Groundwater depth | | 12' amsl | |
| Drilling Co | | | | Method: | | | 40 | pui | | |
| Soil Mecha | anics | | | Hollow stem auger with 2 | | | | | | |
| | | | | foot split spoon | | | |)' 5" | Well Specifications: | |
| Date Start | | | | Date Comp | leted: | | | 1 | | |
| 5/28/2015 | | | | 5/28/2015 | | | | No Well Installed | | |
| Completio 30 Feet | n Deptn: | | | Geologist: | nott | | | | | |
| | • | DEDTU | 1 | Robert Ben | | | | | | |
| 15B4 | A | DEPTH (ft below | Reco- | SAMPLES Blow | | | SOII | DESCRIF | | |
| (NT | (2) | grade) | very | per | PID | | SOIL | DEGORIE | | |
| (141) | 0) | grade | (in.) | 6 in. | (ppm) | | | | | |
| | | | (11.) | 0 | (PPIII) | | | | | |
| 0-1 <u>24</u> <u>0.0</u> 24"- (F | | | | | | 24"- (FI | LL) brov | vn silty sa | nd with red brick, ash, and asphalt | |
| | | 1-2 | 24 | | 0.0 | fragme | nts (no o | dor) | | |
| | | 2-3 | 24 | | 0.0 | 24"- (Fl | LL) brov | vn silty sa | nd with red brick, ash, and asphalt | |
| | | 3-4 | | | 0.0 | fragmer | <u>nts (no c</u> | odor) | | |
| | | _ 4-5 5-6 | 24 | | 25.0 35.0 | | | | ed silty gravelly sand (strong | |
| | | 6-7 | | | 10.5 | <u>petrolet</u> | <u>um odor)</u> |) Nood frac | ments (strong petroleum odor) | |
| | | 7-8 | - 4 | | NA | Sitty | Sanay | wood nag | ments (strong petroleum odor) | |
| | | 8-9 | 24 | | 30.0 | 24" - we | et, gray s | stained gr | avelly silty sand with wood | |
| | | 9-10 | - 24 | | 45.0 | fragmer | nts (stroi | ng petrole | eum odor) | |
| | | _ 10-11 | 24 | | 4.0 | | | | (strong petroleum odor) | |
| | | _ 11-12 _ | | | 0.0 | | | ilty sand | | |
| | | _ 12-13 | 24 | | 0.0 | 24" - We | et gray s | ilty sand | (no odor) | |
| | | 13-14 | | | 0.0 | 24" - wa | at arav s | ilty sand | (no odor) | |
| | | 15-16 | - 24 | | 0.0 | 27 000 | st gray 3 | inty Sana i | | |
| | | 16-17 | - 24 | | 0.0 | 24" - we | et gray s | ilty sand (| (no odor) | |
| | | 17-18 | 24 | | 0.0 | | 0.1 | • | · · · | |
| | | _ 18-19 _ | - 24 | | 0.0 | 24" - we | et gray s | ilty sand (| (no odor) | |
| | | 19-20 | | | 0.0 | 4.0" | 4 | :14 | | |
| | | _ 20-21 21-22 | - 24 | | 0.0 | 18" - We | et gray s | ilty sand (| (no odor) ted peat/organics (no odor) | |
| | | 22-23 | | | 0.0 | | | | cted peat/organics (no odor) | |
| | | 23-24 | - 24 | | 0.0 | 2. 50 | 2010 0101 | | | |
| | | 24-25 | 24 | | 0.0 | 24" - we | et gray s | and, trace | e silt (no odor) | |
| | | 25-26 | 24 | | 0.0 | | | | · · · · | |
| | | _ 26-27 | 24 | | 0.0 | 24" - we | et gray s | and, trace | e silt (no odor) | |
| | | 27-28 | | | 0.0 | 10" | 4 ~ | and to - | | |
| | | 28-29 29-30 | 24 | | 0.0 | | | | | |
| | | 23-30 | } | | 0.0 | 12 - 01 | ownine | s sity Sdl | | |
| | | _ | | | | | | | | |
| | | _ | 4 | | | | | | | |
| | | | | | | | | | | |
| | | 1 | 1 | | | | | | | |



| | | | | | 15B5 E | Boring L | .oq | | |
|----------------------------|---------|-------------------------------|------------------------|--|----------------------|-----------|----------------------|--------------|--|
| Location: | of Kent | Avenue ar | nd North | te adjacent to 12th Street. uth of 15B4. | o the int Approxi | ersection | | to Water | Site Elevation Datum |
| Site Name: | | | Address | | | | Date | DTW | Ground Elevation: |
| Former Sur Drilling Con | | uipment | 25 Kent | Avenue, Bro | ooklyn, N | 14 | Groundwater depth | | 12' amsl |
| Soil Mecha | nics | | | Hollow sten foot split sp Date Comp | oon | with 2 | 17 | " 3" | Well Specifications: |
| 5/27/2015 | | | | | ieleu. | | | | No Well Installed |
| 30 Feet | Deptil. | | | Geologist: Robert Ben | nett | | | | |
| 15B | 5 | DEPTH | | SAMPLES | | | | 11 | |
| (NTS | 5) | (ft below grade) | Reco- very (in.) | Blow per 6 in. | PID (ppm) | | SOIL | TION | |
| | | | (11.) | 0 111. | (ppiii) | | | | |
| | | 0-1 | 24 | | 0.0 0.0 | • | | - | ilt with red brick fragments (no odor) |
| | | 2-3 | 24 | | 0.0 | | , | - | ilt with red brick fragments (no odor) |
| | | _ 4-5 _ 5-6 _ 6-7 | 24 | | 20.0 30.0 30.0 | 0 | 5 | | (strong petroleum odor) (strong petroleum odor) |
| | | 7-8 | 24 | | 35.0 | 24 - gið | 19/010001 | i Siity Sana | (strong petroleum odor) |
| | | 8-9 9-10 | 24 | | 45.0 55.0 | | | | and (strong petroleum odor) |
| | | _ 10-11 _ 11-12 | 24 | | 45.0 55.0 | | | | and (strong petroleum odor) |
| | | _ 12-13 _ 13-14 | 24 | | 25.0 30.0 | | | | and (strong petroleum odor) |
| | | _ 14-15 _ 15-16 | 24 | | 30.0 35.0 | | | | and (strong petroleum odor) |
| | | _ 16-17 _ 17-18 | 24 | | 0.0 | - black/ | brown c | ompacted | and (strong petroleum odor) 6" peat moss (petroleum odor) |
| | | _ 18-19 _ 19-20 _ 20-21 | 24 | | 5.0 10.0 0.0 | | | (sand/silt) | sandy silty clay (petroleum odor) |
| | | 21-22 | 24 | | 0.0 | 0 | 5 | · · · | d (slight petroeluem odor) |
| | | 23-24 | 24 | | 0.8 | | 0 | | d (slight petroeluem odor) |
| | | 25-26 | 24 | | 0.6 | | _ | | d (slight petroeluem odor) |
| | | 27-28 | 24 | | 0.0 | | | - | d (slight petroeluem odor) |
| | J | | 24 | | 0.0 | | | | () , |
| | | | | | | | | | |



| | | | | 15B | 6 Bori | ng Log | | | | | |
|-------------|---|----------------------------|----------------|-----------------|-----------|-----------|-------------------|------------|------------------------------|--|--|
| Location: | | imately 79 est corner (| | and 78 feet | south of | f the | Depth t | o Water | Site Elevation Datum | | |
| Site Name | | | Address | | | | Date | DTW | Ground Elevation: | | |
| Former Su | | uipment | | Avenue, Bro | oklyn. N | ΙY | | dwater | | | |
| Drilling Co | | | | Method: | | | ł | pth | 12' amsl | | |
| Soil Mecha | | | | Auger stem | drill ria | (truck- | | 201 | | | |
| | | | | mounted) | anning | (in doin | 8' 4" | | Well Specifications: | | |
| Date Start | ed. | | | Date Completed: | | | | | | | |
| 5/28/2015 | | 5/28/2015 | | | | | No Well Installed | | | | |
| Completio | | | | Geologist: | | | | | | | |
| 30 Feet | | | | | | | | | | | |
| 15E | 36 | DEPTH | | SAMPLES | | | | | | | |
| 101 | | (ft below | Reco- | Blow | | | SOIL DESCRIPTION | | | | |
| (NT | S) | grade) | very | per | PID | | | | | | |
| | -) | gradoj | (in.) | 6 in. | (ppm) | | | | | | |
| | | l | () | U III. | (""") | | | | | | |
| | | 0-1 | | | 0.0 | 24"- (F | LL) liaht | brown si | Ity sand with red brick | | |
| | 0.0000000000000000000000000000000000000 | 1-2 | 24 | | 0.0 | | | ash (no o | - | | |
| | | 2-3 | 0.4 | | 0.0 | 24"- (Fl | LL) liaht | brown si | Ity sand with red brick | | |
| | | 3-4 | 24 | | 0.0 | | | ash (no o | | | |
| | | 4-5 | 2 | | 0.0 | | | | gravel (no odor) | | |
| | | 5-6 | <u> </u> | | 0.0 | | | | | | |
| | | 6-7 | 24 | | 18.0 | 24"- we | t, black/ | brown sil | ty sand with 4" pocket of | | |
| | | 7-8 | 27 | | 25.0 | wood a | t top of r | ecovery (| (petroleum odor) | | |
| | | 8-9 | 24 | | 0.0 | 24" - w | et black/ | brown fin | es (no odor) | | |
| | | 9-10 | | | 0.0 | | | | | | |
| | | _ 10-11 _ | 24 | | 0.0 | 24" - w | et black/ | brown fin | es (no odor) | | |
| | | | - | | 0.0 | 0.4 | - 1 | 96 | | | |
| | | _ 12-13 _ 13-14 | 24 | | 0.0 | 24" - W | et gray s | lity sand | (no odor) | | |
| | | 13-14 | | | 0.0 | 24" - 144 | ot arov e | ilty cond | (no odor) | | |
| | | 15-16 | 24 | | 0.0 | 24 - W | el ylay s | iity sanu | | | |
| | | 16-17 | | 1 | 0.0 | 20" - w | et arav s | ilty sand | (no odor) 4" - | | |
| | | 17-18 | 24 | | 0.0 | | | | peat (no odor) | | |
| | | 18-19 | 24 | | 1.0 | 24" - b | lack/brov | wn compa | acted peat (slight petroleum | | |
| | | 19-20 | 24 | | 2.0 | odor) | | | | | |
| | | 20-21 | 24 | | 0.0 | 24" - gr | ay/black | silty sand | d (no odor) | | |
| | | 21-22 | 2 4 | | 0.0 | | | | | | |
| | | 22-23 | 24 | | 0.0 | 24" - gr | ay/black | silty sand | d (no odor) | | |
| | | 23-24 | | | 0.0 | o (" | | | | | |
| | | _ 24-25 | 24 | | 0.0 | 24" - gr | ay/black | silty sand | d (no odor) | | |
| | | 25-26 | | | 0.0 | 0.4" | a /h ···· | finest | o odov) | | |
| | | _ 26-27 27-28 | 24 | | 0.0 | 24" - gr | ay/prowi | n fines (n | 0 0007) | | |
| | | 27-20 | ł | - | 0.0 | 24" - ~ | av/brow | n fines (n | o odor) | | |
| | | 29-30 | 24 | | 0.0 | 24 - gi | ay/DIUWI | 111162 (11 | | | |
| | _ | | | 1 | 0.0 | | | | | | |
| | | | 1 | | | | | | | | |
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| | | | | 15B | 7 Bori | ng Log | | | | | |
|--------------------------|--------|---------------------------|---------|------------------------------|----------|----------|---|---------------------------------|----------------------------|--|--|
| Location: | | imately 118 est corner | | and 72 feet | | | Depth t | o Water | Site Elevation Datum | | |
| Site Name | | | Address | | | | Date | DTW | Ground Elevation: | | |
| Former Su | | uipment | | Avenue, Bro | oklyn, N | 14 | Groundwater 12' amsl | | | | |
| Drilling Cor | mpany: | | | Method: | | | uc | pui | | | |
| C ² Environi | mental | | | Geoprobe | | | Not De | Not Detected Well Specification | | | |
| Date Starte 5/28/2015 | ed: | | | Date Completed: 5/28/2015 | | | | | No Well Installed | | |
| Completior | Depth: | | | Geologist: | | | | | | | |
| 10 Feet | - | | | Greg Swirso | n | | | | | | |
| 15B | 7 | DEPTH | | SAMPLES | | | | | | | |
| | | (ft below | Reco- | Blow | | | SOIL | PTION | | | |
| (NTS | S) | grade) | very | per | PID | | | | | | |
| | | | (in.) | 6 in. | (ppm) | | | | | | |
| | | 0 | - | | | | | | | | |
| | | | | | | | shed cor | | | | |
| | | | _ | | | 18" - br | own san | d (petrole | eum odor) | | |
| | | to | 40 | | 609.0 | | | | / silt with brick and wood | | |
| | | | | | | nayme | nents (petroleum odor) | | | | |
| | | 5 | | | | | | | | | |
| | | - - - | | | | 24" - we | et staine | d black s | andy silt (petroleum odor) | | |
| | | | | | | | 27" - wet brown sand with rock (petroleum odor) | | | | |
| | | – to – | 24 | | 305.0 | | | | | | |
| | | | | | | | | | | | |
| | | 10 | | | | | | | | | |
| | | | _ | | | * - Refu | isal enco | ountered | at 10 feet bgs. | | |
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| | | | 15 | B8 Boring | g Log | | | | | |
|---|--|---------------------------|----------------|--------------|----------|--|----------------------|----------------------|--|--|
| | | 121 feet e er of the S | east and 17 fe | eet south of | fthe | Depth to | o Water | Site Elevation Datum | | |
| Site Name: | | Addre | | | | Date | DTW | Ground Elevation: | | |
| Former Sunbelt Eq | luipment | 25 Ke | ent Avenue, B | rooklyn, N | (| Ground | dwater pth | 12' amsl | | |
| Drilling Company: | | | Method: | Geoprobe | | | | Wall Crestingtions | | |
| C ² Environmental Date Started: | | | | | | etected | Well Specifications: | | | |
| 5/28/2015 | /2015 5/28/2015 | | | | | | | No Well Installed | | |
| Completion Depth: | | | | | | - | | | | |
| 10 Feet | | | Greg Swi | | | | | | | |
| 15B8 | DEPTH | 4 | SAMPLE | | | | | | | |
| | (ft belo | | | | | SOIL I | DESCRIF | PTION | | |
| (NTS) | grade) |) very | / per | PID | | | | | | |
| | | (in.) |) 6 in. | (ppm) | | | | | | |
| | 0 | | | | | <u> </u> | | | | |
| | – to | | | 1,150.0 | 29" - st | 1" - crushed asphalt fragments 29" - stained black sandy silt with brick fragme (petroleum odor) | | | | |
| | 5 | | | | | | | | | |
| | $\begin{bmatrix} t_0 \\ t_0 \\ t_1 \end{bmatrix} = \begin{bmatrix} t_0 $ | | | | | 12" - wet stained black sandy silt with brick fragments (petroleum odor) | | | | |
| | 10 | _ | | | | | | | | |
| | E | | | | * - Refi | usal enco | untered a | at 10 feet bgs. | | |
| | - | _ | | | | | | | | |
| | _ to | | | | | | | | | |
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| northwest corner of the Site. Date DTW Site Name: Address: Date DTW Former Sunbelt Equipment 25 Kent Avenue, Brooklyn, NY Groundwater depth Drilling Company: Method: Image: Company: | ite Elevation Datum Ground Elevation: 12' amsl <u>Vell Specifications:</u> No Well Installed |
|--|--|
| Site Name: Address: Former Sunbelt Equipment 25 Kent Avenue, Brooklyn, NY Date DTW Drilling Company: 25 Kent Avenue, Brooklyn, NY Groundwater depth Drilling Company: Method: Not Detected C ² Environmental Date Started: Date Completed: Not Detected 5/28/2015 5/28/2015 Forg Swirson Completion Depth: Greg Swirson SOIL DESCRIPTION 15B9 DEPTH (ft below Reco- Blow | 12' amsl Well Specifications: No Well Installed |
| Drilling Company: Method: depth C ² Environmental Geoprobe Not Detected V Date Started: Date Completed: V 5/28/2015 5/28/2015 V Completion Depth: Geologist: V 30 Feet Greg Swirson V 15B9 DEPTH SAMPLES (ft below Reco- Blow SOIL DESCRIPTION | Vell Specifications: No Well Installed |
| Drilling Company: Method: C ² Environmental Geoprobe Date Started: Date Completed: 5/28/2015 5/28/2015 Completion Depth: Geologist: 30 Feet Greg Swirson 15B9 DEPTH Ketool SAMPLES (ft below Reco- | No Well Installed |
| Date Started: Date Completed: 5/28/2015 5/28/2015 Completion Depth: Geologist: 30 Feet Greg Swirson 15B9 DEPTH (ft below Reco- Blow SOIL DESCRIPTIC | No Well Installed |
| 5/28/2015 5/28/2015 Completion Depth: Geologist: 30 Feet Greg Swirson 15B9 DEPTH (ft below SAMPLES (ft below Reco- Blow | |
| Completion Depth: Geologist: 30 Feet Greg Swirson 15B9 DEPTH (ft below Reco- Blow SOIL DESCRIPTIC | |
| 30 Feet Greg Swirson 15B9 DEPTH (ft below Reco- Blow SOIL DESCRIPTIC |)N |
| 15B9 DEPTH SAMPLES (ft below Reco- Blow SOIL DESCRIPTIC |)N |
| |)N |
| (NTS) grade) very per PID | |
| | |
| (in.) 6 in. (ppm) | |
| | |
| 32"- (FILL) black stained san | |
| brick fragments (petroleum o | dor) |
| | |
| | |
| 36" - stained black sandy silt | (petroleum odor) |
| 6" - brown silt (petroleum odd | pr) |
| | |
| | |
| 38" - wet, slightly stained san | dy silt (petroleum |
| odor) | |
| to 38 5.8 | |
| * - groundwater encountered at 10 t | feet has |
| 15 No Recovery | 001 590 |
| | |
| | |
| | |
| 20 58" - brown sand with scrap r | metal at annrox 21 |
| feet bgs (no odor) | netal at applox. 21 |
| | |
| | |
| 25 56" - brown sandy silt (no odd | 21) |
| 25 56" - brown sandy silt (no odd | ור |
| to 56 2.8 | |
| | |
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| | | | | 15B1 | 0 Borir | ng Log | | | | |
|------------------------|----------------------|-----------|------------------------------|---------------------|--------------|-----------|--|--------------------------------|------------------------|--|
| Location: | | | 168 feet ea er of the Si | st and 83 fe te. | et north c | of the | Depth t | o Water | Site Elevation Datum | |
| Site Name | | | Address | | | | Date | Date DTW Ground Elevation | | |
| Former S | unbelt Eq | uipment | 25 Kent | t Avenue, Br | ooklyn, N | IY | | Groundwater 12' amsl | | |
| Drilling Co | | | | Method: | | | | - | | |
| C ² Enviror | nmental | | | Geoprobe | | | Not De | Well Specifications: | | |
| Date Star 5/28/2015 | | | Date Completed: 5/28/2015 | | | | | | No Well Installed | |
| | on Depth: Geologist: | | | | | - | | | | |
| 30 Feet | • | | | Greg Swirs | son | | | | | |
| 15E | 15B10 DEPTH SAME | | | | 6 | | | | | |
| | | (ft belov | | Blow | | | SOIL DESCRIPTION | | | |
| (N1 | rs) | grade) | very (in.) | per 6 in. | PID (ppm) | | | | | |
| | | 0 | _ | | | | | | | |
| Г | | F Ŭ | | | | 2" - cru | shed cor | ncrete | | |
| | | – to | 30 | | 0.0 | 2" - (FII | FILL) crushed asphalt (FILL) brown sandy silt (no odor) | | | |
| | | 5 | - | | | | | | | |
| | | - to | | | 474.0 | | own san et staine | o odor) It (petroleum odor) | | |
| | | - 10 | 20 | | 474.0 | *groundw | ater encou | ntered at ap | proximately 9 feet bgs | |
| | | Ľ | | | | 24" - w | et brown | sandy sil | t (petroleum odor) | |
| | | to | 24 | | 124.0 | | | | | |
| | | 15 | | | | 20" - w | et brown | sandv sil | t (petroleum odor) | |
| | | to | 30 | | 704.0 | | | | etroleum odor) | |
| | | 20 | | | | 10" 14 | ot brown | sand (no | adar) | |
| | | _ 20 | | | | 40 - W | | sanu (110 | | |
| | | to | 48 | | 2.8 | | | | | |
| | | 25 | | | | 30" - w | et brown | sand (sli | ght odor) | |
| | | to | | | 6.6 | | | | | |
| | | 30 | | | | | | | | |
| | | | | | | | | | | |
| | | I | | 1 | | | | | | |



| | | | | 15B1 | l1 Bori | ng Log | | | | |
|--------------------------|-----------|-----------|--------------------------|-------------------------|-----------|----------------------|---|----------------------|------------------------------|--|
| Location: | | | 92 feet we of the Sit | st and 24 fee | | | Depth t | o Water | Site Elevation Datum | |
| Site Name | | | Address | | | | Date | DTW | Ground Elevation: | |
| Former Su | nbelt Eq | uipment | 25 Kent | Avenue, Bro | ooklyn, N | IY | | Groundwater 12' amsl | | |
| Drilling Co | | | | Method: | | | | | | |
| C ² Environ | | | | Geoprobe | | | Well Specifications: | | | |
| Date Starte 5/27/2015 | ed: | | | Date Comp | oleted: | | | | | |
| Completion | | | | 5/27/2015 Geologist: | | | | No Well Installed | | |
| 30 Feet | i Deptii. | | | Greg Swirs | on | | | | | |
| 15B | 11 | DEPTH | 1 | SAMPLES | | | l | | | |
| | | (ft belov | - | Blow | | | SOIL | DESCRIP | TION | |
| (NT | S) | grade) | | per | PID | | - | | | |
| | | | (in.) | 6 in. | (ppm) | | | | | |
| | | - 0 | _ | | | | | | | |
| | | to | | | 0.0 | 6" - bro 4" - tan | rushed concrete prown silty sand (no odor) an sand (no odor) prown silty sand (no odor) brown silt (no odor) vet stained black sand (petroleum odor) | | | |
| | | 5 | _ | | | | | | | |
| | | - to | 20 | | 302.0 | | | | | |
| | | 10 | | | | 22" - w | et arav s | andv silt v | vith sheen (petroleum | |
| | | to | 34 | | 315.0 | | | d (petrole | | |
| | | E | | | | - | | | approximately 10-12 feet bgs | |
| | | _ 15 | _ | | | | | d (no odo | r) | |
| | | to | 40 | | 0.0 | 20" - ta | n clay (n | o odor) | | |
| | | 20 | | | | 45" - gr | ay/tan cl | ayey sano | d (no odor) | |
| | | to | 45 | | 0.0 | | | | | |
| | | 25 | _ | | | 45" - gr | ay sandy | / clay (no | odor) | |
| | | to | 45 | | 0.0 | | | | | |
| | | 30 | | | | | | | | |
| | | | | | | | | | | |



| | | | | | | ring Lo | - | | | |
|-----------------------|-----------|------------------------------|---------------|----------------------------|--------------|--|----------------------|-------------------------|--|--|
| Location: | | kimately 172 ast corner (| | st and 12 fe e. | et north o | of the | Depth to Water | | Site Elevation Datum | |
| Site Name | e: | | Address | | | | Date | DTW | Ground Elevation: | |
| Former S | unbelt Ec | luipment | 25 Kent | Avenue, Brooklyn, NY | | | Groundwater depth | | 12' amsl | |
| Drilling Co | ompany: | | | Method: | | | depth | | | |
| C ² Enviro | nmental | | | Geoprobe | | | Not Detected | | Well Specifications: | |
| Date Star | | | | Date Completed: | | | | | | |
| 5/27/2015 | | | | 5/27/2015 | | | | | No Well Installed | |
| Completio 30 Feet | on Depth: | | | Geologist: Greg Swirson | | | | | | |
| 15E | 312 | DEPTH | | SAMPLES | 3 | | | | | |
| | | (ft below | Reco- | Blow | | SOIL DESCRIPTION | | | | |
| (N1 | rs) | grade) | very (in.) | per 6 in. | PID (ppm) | | | | | |
| | | 0 | | | | | | | | |
| Г | | - ^v - | | | | 1" - cru | shed cor | | | |
| | | – to – | 22 | | 0.0 | | | | silt with brick fragments (no | |
| | | 5 | | | | | | | | |
| | | | | | | 20" - brown sandy silt (no odor) | | | | |
| | | – to – | 24 | | 102.0 | 4" - wet stained black silt (petroleum odor) | | | | |
| | | 10 | - | | | | | <u> </u> | | |
| | | | 1 | | | 44" - w | et gray c | lay with sl | heen (petroleum odor) | |
| | | to | 44 | | 221.0 | | | | | |
| | | L | | | | | | | approximately 10-12 feet bgs | |
| | | _ 15 _ | - | | | | | | heen (petroleum odor) ght petroleum odor) | |
| | | to | 44 | | 50.1 | 22 - la | iii Clayey | sanu (siig | | |
| | | 20 | | | | 36" - br | own san | dy silt (no | odor) | |
| | | to | 36 | | 0.0 | | | | | |
| | | | | | | | | | | |
| | | _ 25 _ | Ī | | | | | id (no odo (no odor) | r) | |
| | | to | 48 | | 0.0 | - 9' | | | | |
| L | | 30 | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |



| | | | | 15B | 13 Bo | ring Lo | g | | | |
|---|-----------|-----------|---------------|----------------------------|--------------|--|------------|-------------------------------|------------------------------|--|
| Location: Approximately 39 feet west and 48 feet north of the southeast corner of the Site. | | | | | | | | o Water | Site Elevation Datum | |
| Site Nam | | | Address | | | Date DTW | | Ground Elevation: | | |
| | unbelt Eq | uipment | | Avenue, Brooklyn, NY | | | Groun | Groundwater depth 12' amsl | | |
| Drilling Co | ompany: | | • | Method: | | deptin | | | | |
| C ² Enviro | nmental | | | Geoprobe | | Not Detected | | Well Specifications: | | |
| Date Star | | | | Date Completed: | | | | | | |
| 5/27/2015 | | | | 5/27/2015 | | | | No Well Installed | | |
| Completio 30 Feet | on Depth: | | | Geologist: Greg Swirson | | | | | | |
| | 313 | DEPTH | | SAMPLES | | | | | | |
| 100 | 515 | (ft below | Reco- | Blow | | SOIL DESCRIPTION | | | TION | |
| (N ⁻ | TS) | grade) | very (in.) | per 6 in. | PID (ppm) | SOIL DESCRIPTION | | | | |
| | | 0 | 1 | | | | | | | |
| | | | 13 | | 0.0 | 1" - crushed concrete 8" - (FILL) asphalt and brick fragments (no odor) 4" - (FILL) brown/gray silt with brick fragments (no | | | | |
| | | 5 | - | | | odor) | | | | |
| | | | | | | 13" - (FILL) gray silt with brick fragments (no odor) | | | | |
| | | — to — | 25 | | 0.0 | 12" - br | own silt | (no odor) | | |
| | | 10 | | | | | | | | |
| | | | | | | 32" - brown sandy silt (no odor) | | | | |
| | | — to — | 32 | | 0.0 | | | | | |
| | | 15 | | | | * - around | lwater enc | ountered at a | approximately 10-13 feet bgs | |
| | | | | | | | n clay (n | | | |
| | | - to | 38 | | 0.0 | | | | ly (no odor) | |
| | | | 4 | | | | | | | |
| | | 20 | | | | 52" - 00 | ituratod | | nd (no odor) | |
| | | ⊢ _ | 1 | | | JZ - Sa | luraleu | orowit sal | | |
| | | – to – | 52 | | 0.0 | | | | | |
| | | 25 |] | | | | | | | |
| | | — — — | 48 | | 0.0 | | | d (no odo own/gray | r) cleyey silt (no odor) | |
| | | 30 | | | 0.0 | | | | | |
| | | | 1 | | | | | | | |
| | | |] | | | | | | | |
| | | | 4 | | | | | | | |
| | | | | | | | | | | |



| Location: | | Approx | imatelv 6 | 4 feet so | uth and 37 fe | g Log the | Depth to Water Site Elevation I | | | |
|------------------------|----|-------------|-----------------|-----------|---------------|---------------------|--|---------------------------------|--------------------------|--------------------------------------|
| Location | | | | of the S | | | | Dopurt | o mator | |
| Site Name | | | Addre | SS: | | | Date | DTW | Ground Elevation: | |
| Former Su | un | belt Eq | uipment | 25 Ke | nt Avenue, Br | rooklyn, N | (| Groundwater 12' ams | | 12' amsl |
| Drilling Co | m | pany: | | | Method: | | | ue | pui | |
| C ² Enviror | nm | nental | | | Geoprobe | | | Not Detected Well Specification | | |
| Date Start | | d: | | | Date Com | | | | | |
| 5/27/2015 | | D // | | | 5/27/2015 | | | - | | No Well Installed |
| Completio 30 Feet | n | Deptn: | | | Geologist: | | | | | |
| 15B | 1 | 1 | DEPTH | 1 | Greg Swir | | | | | |
| 130 | 14 | + | (ft below | | | 5 | | | DESCRIF | |
| (NT | 5 |) | grade) | very | | | | | | |
| (141) | 9 | / | grade) | (in.) | 6 in. | (ppm) | | | | |
| | | | | | 0 | (""") | | | | |
| | - | | 0 | | | | 0" | | 1 | |
| | | | to | 19 | | 0.0 | 11" - (F | | shed asph | alt (no odor) nents (no odor) |
| | | | 5 | _ | | | 3" - (FII | L) red b | rick fragn | nents (no odor) h brick and glass |
| | | | - to | 20 | | 0.0 | | nts (no o | | I DICK AND GIASS |
| | - | | _ 10 _ to | 22 | | 0.0 | | | d (no odo silt (no od | |
| | | | | | | 0.0 | | | | |
| | | | 15 | | | | - | | | approximately 13 feet bgs |
| | | | - to | 32 | | 0.0 | 16" - brown clay (no odor) 16" - brown sand (no odor) | | | |
| | | | | | | | 56" - br | own silty | clay (no | odor) |
| | | | - to - 25 | 56 | | 0.0 | | | | |
| | | | - | _ | | | 34" - br | own san | dy clay (n | o odor) |
| | | | - to | 34 | | 0.0 | | | | |
| L | | | 30 | | | | | | | |
| | | | | | | | | | | |



| | | | | | 15B | 15 Bori | ing Log | | | |
|---|----------------------------|--------------------|---------------------|---------------|-------------------------|---------|---|--|------------|--|
| Location: Approximately 30 feet to the west of the midpoint between boring locations 15B7 and 15B8. | | | | | | | | | o Water | Site Elevation Datum |
| Site Nam | | | | Address | | | | Date | DTW | Ground Elevation: |
| Former S | un | belt Eq | uipment | 25 Kent | Avenue, Brooklyn, NY | | | Groundwater | | 12' amsl |
| Drilling Co | om | pany: | | 1 | Method: | | depth | | | |
| C ² Enviro | nm | ental | | | Geoprobe | | | Not Detected Well Specification | | Well Specifications: |
| Date Star 5/28/2015 | | d: | | | Date Completed: | | | No Well Installed | | |
| Completion | | Denth [.] | | | 5/28/2015 Geologist: | | | | | ino vveli installed |
| 30 Feet | 011 | Bopin. | | | Greg Swirse | on | | | | |
| 15E | 315 | 5 | DEPTH | | SAMPLES | | | 1 | | |
| (N ⁻ | TS |) | (ft below grade) | Reco- very | Blow per | PID | SOIL DESCRIPTION | | | PTION |
| , , | | · | 5 , | (in.) | 6 in. | (ppm) | | | | |
| | | | 0 - | - | | | | | | |
| | | | - ° - | | | | 2" - cru | shed cor | ncrete | |
| | | | _ to _ | 15 | | 0.0 | 13" - (F odor) | ILL) brov | wn sandy | silt with brick fragments (no |
| | | | 5 | | | | | | | |
| | | | | _ | | | 30" - wet stained black sandy silt (petroleum odor) | | | |
| | | | _ to | 30 | | 832.0 | | | | |
| | | | | | | | | | | |
| | - - - - - - | | – – – to – | 45 | | 456.0 | | | | andy silt (petroleum odor) (petroleum odor) |
| | | | - 15 | | | 400.0 | | | | |
| | | | [_ | 1 | | | | | | ndy silt (petroleum odor) |
| | - | | _ to _ | 40 | | 75.0 | | et black/brown compacted peat/organics um odor) | | |
| | | | - 20 - | 4 | | | | | | |
| | | | 20 | + | | | 30" - wi | et staine | d black sa | and (petroleum odor) |
| | | | – – – – to – | 30 | | 15.0 | | | | |
| | | | | | | 13.0 | | | | |
| | | | _ 25 _ | | | | 38" - br | own san | dy clay (n | o odor) |
| | | | – – – – to – | 38 | | 2.5 | | | .,, (II | |
| | | | 30 | | | | | | | |
| | | | ┝ – | - | | | | | | |
| | | | ┝ ─ | 1 | | | | | | |
| | | | <u> </u> | | | | | | | |

<u>APPENDIX B</u> Soil Boring Photos



1808 MIDDLE COUNTRY ROAD Ridge, NY 11961

PHONE 631.504.6000 FAX 631.924.2870

Photo Log - Soil Borings







| Photo 7 – View of black-stained soil exhibiting strong odors and PID response collected in a two- foot split-spoon sampler. Petroleum impacted soil was typical in most borings from the surface to four to twenty five feet below grade. | |
|---|--|
| Photo 8 – View of dark brown peat/compacted organics, recovered at depths ranging from 17-24 feet below grade. Peat was encountered in most borings installed. Specifically, those on the western side of the Site. | |



Photo 11 – View of all soil boring intervals collected in five foot long sleeves using Geoprobe. Soil recovered was inspected for visual, olfactory and PID evidence of petroleum impacts.



<u>APPENDIX C</u> <u>UTILITY TUNNEL PHOTOS</u>



1808 MIDDLE COUNTRY ROAD RIDGE, NY 11961

PHONE 631.504.6000 FAX 631.924.2870

Photo Log - Utility Tunnel Inspection



Photo 3 – A brick structure was encountered approximately four feet below grade and extended approximately twenty feet into the property. The excavation was dub approximately eight feet below grade; however, the bottom of the brick structure was not encountered. Photo 4 – Several 8 to 12 inch diameter metal pipes were present in the . utility tunnel area.

Photo 5 – Petroleum impacted soil was encountered at depths ranging from approximately four to eight feet below grade in the utility tunnel excavation area.

