



October 19, 2000

Mr. Richard Gardineer, P.E.
New York State Department of Environmental Conservation
Region 2
Division of Hazardous Waste Remediation
47-40 21 Street
Long Island City, New York 11101

Re: Supplemental Final Engineering Report
Organics/Suciac Block
Pfizer Inc
Brooklyn, New York
Voluntary Cleanup Agreement D2-0001-97-02

Dear Mr. Gardineer:

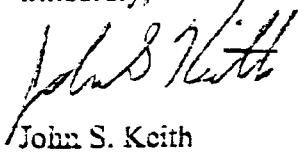
Attached please find the Supplemental Final Engineering Report for the Organics/Suciac Block, Pfizer Inc (Pfizer), New York (Site). This Supplemental Final Engineering Report is being submitted in accordance with the September 1, 1999 Supplemental Investigation Work Plan. This report documents the additional investigation and remediation activities that Pfizer undertook to address the New York State Department of Environmental Conservation's (NYSDEC) concerns regarding potential petroleum issues at the Site. All requested additional work has been completed. No petroleum issues were found in the supplemental work, and one area where base/neutral compounds were found at levels of concern was fully excavated, with the removed soil disposed to approved facilities.

Since all work has been completed, Pfizer requests that the NYSDEC provide to Pfizer a "Clean Site Notification" in accordance with the March 27, 1997 Voluntary Cleanup Agreement, Subparagraph I. G.

Please note that Pfizer intends to implement Task 6: Post-Work Plan Monitoring after Pfizer's receipt of the clean site notification as stated in the Supplemental Investigation Work Plan. This task entails quarterly free-product monitoring at the 11 monitoring wells at the Site. If measurable free product is encountered during a monitoring event, Pfizer will notify the NYSDEC of its findings and attempt to remove it using reasonable and appropriate technology. Further, if Pfizer encounters free product during a monitoring event, Pfizer will monitor such well until it is free of measurable free product for three quarters thereafter.

We would appreciate your assistance in expediting this matter.

Sincerely,

A handwritten signature in dark ink, appearing to read "John S. Keith". The signature is fluid and cursive, with the first name "John" being more prominent.

John S. Keith
Vice President, Environment, Health and Safety
Pfizer Global Manufacturing

cc. Mr. Mike Mahoney
Mr. Tom Snee - Pfizer, Brooklyn
Mr. Scott Glash - Roux Associates

**ORGANICS/SUCIAC BLOCK
SUPPLEMENTAL
FINAL ENGINEERING REPORT**

**Pfizer Inc
Brooklyn, New York**

October 19, 2000

Prepared for:

**Pfizer Inc
630 Flushing Avenue
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Prepared by:

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1.0 INTRODUCTION

On behalf of Pfizer Inc (Pfizer), Roux Associates, Inc. (Roux Associates), along with its associated engineering design firm, Remedial Engineering, P.C., have completed the Organics/Suciac Block Supplemental Investigation and Remediation (SIR) at the Pfizer facility in Brooklyn, New York (Site). The SIR was performed in accordance with the September 1, 1999 Supplemental Investigation Work Plan (SI Work Plan) prepared by Roux Associates, and approved by the New York State Department of Environmental Conservation (NYSDEC) in a letter dated September 8, 1999. The SIR was also implemented in accordance with the provisions of the Voluntary Cleanup Agreement (Index No. D2-0001-97-02) dated March 27, 1997 between the NYSDEC and Pfizer.

As stated in the SI Work Plan, *"Pfizer has completed the response action required by the Voluntary Cleanup Agreement in compliance with the Work Plan [December 6, 1996], as that term is defined in the Voluntary Cleanup Agreement, and approved design. The NYSDEC has requested that Pfizer address additional petroleum-related issues at the Organics/Suciac Block, and the purpose of this Work Plan is to set forth the supplemental investigation activities that Pfizer will implement in order to respond to the NYSDEC's request."* Therefore, this additional work requested by the NYSDEC is considered above and beyond the NYSDEC-approved Work Plan (December 6, 1996) for the Voluntary Cleanup Agreement between the NYSDEC and Pfizer.

To accomplish the SIR objective, the following scope of work tasks were performed:

- Soil Boring and Sampling;
- Monitoring Well Installation;
- Perched Groundwater Sampling;
- Free-Product Gauging; and
- Soil Excavation and Disposal.

The SIR scope of work and results are provided in this Supplemental Final Engineering Report. Please note that the scope of work and results for the soil boring and sampling, monitoring well installation, perched groundwater sampling, and free-product gauging were previously submitted to the NYSDEC in a letter dated December 6, 1999.

2.0 BACKGROUND AND SETTING

The Organics/Suciac Block is located in the Williamsburg section of Brooklyn, New York (Figure 1). Gerry Street, Harrison Avenue, and Union Avenue border the Organics/Suciac Block to the south, east, and west, respectively, while Wallabout Street borders the Organics/Suciac Block to the north (Figure 2). The Organics/Suciac Block is situated within a high-density, mixed urban residential/commercial/industrial zone, approximately one mile east-southeast of the East River.

Pfizer has decommissioned the Organics/Suciac Block with the intent to utilize it for future redevelopment and/or beneficial use. As part of the decommissioning process, all Organics/Suciac Block buildings were demolished, with demolition activities being completed in March 1995. Presently, the reinforced-concrete slab foundations are the only aboveground remnant of the former buildings. The concrete slab is continuous throughout the Organics/Suciac Block, and varies in thickness between approximately 0.5 and 1.5 feet (ft). The entire Organics/Suciac Block is surrounded by a 10-ft high chain-link fence.

Pfizer completed the Organics/Suciac Block Interim Remedial Measure (IRM) between June 1997 and September 1997 in accordance with the Voluntary Cleanup Agreement. The results of the IRM were previously submitted to the NYSDEC in a report titled "Final Engineering Report Organics/Suciac Block," dated October 22, 1997. Even though Pfizer had completed all tasks specified in the NYSDEC-approved Work Plan (December 6, 1996), the NYSDEC requested that Pfizer perform activities to address additional petroleum-related issues at the Organics/Suciac Block.

3.0 ORGANICS/SUCIAC BLOCK SIR SCOPE OF WORK

The Organics/Suciac Block SIR was commenced on September 27, 1999 and has now been completed. It consisted of the following field tasks:

- Soil Boring and Sampling;
- Monitoring Well Installation;
- Perched Groundwater Sampling;
- Free-Product Gauging; and
- Soil Excavation and Disposal.

The procedures utilized to perform each field task were consistent with the procedures outlined in the NYSDEC-approved Organics/Suciac Block IRM Work Plan (December 6, 1996). A description of each field task is provided below.

3.1 Soil Boring and Sampling

A total of six soil borings (OB-5A, OB-13A, OB-15A, OB-22A, OB-23, and OB-24) were sampled using the GeoprobeTM method. The soil borings with the 'A' designation were sampled adjacent to the previous soil boring in that area, while those borings without an 'A' designation were located in areas not previously investigated. The locations of the soil borings are shown in Figure 3.

Each sample was inspected for visible evidence of contaminants (e.g., staining and odors), and screened in the field for volatile organic compounds (VOCs) using a photoionization detector (PID). The sample within each boring that exhibited the highest degree of contamination above the perched groundwater or the clay layer was collected for laboratory analysis. The samples were analyzed for base neutral compounds (BNs) using the Toxicity Characteristic Leaching Procedure (TCLP) in accordance with the NYSDEC Spill Technology and Remediation Series (STARS).

As stated in the SI Work Plan, if a sample failed the TCLP test, Pfizer would further delineate and remove these soils. As discussed in Section 4.0, only one of the 11 soil samples collected

and analyzed from the soil borings and monitoring well pilot boreholes (see Section 3.2) failed the TCLP test. The soil sample analyzed from Soil Boring OB-22A (southwestern corner of the Organics/Suciac Block) failed the TCLP test (Figure 3). Therefore, delineation samples were collected at four locations approximately 5 ft radially outward from OB-22A. This process continued until the samples surrounding OB-22A passed the TCLP test. The extent of soil that failed the TCLP test surrounding OB-22A is shown in Figure 3.

3.2 Monitoring Well Installation

A total of five additional monitoring wells (MW-7 through MW-11) were installed using the hollow-stem auger drilling method at the Site. The locations of the monitoring wells are shown in Figure 3. During the drilling of the monitoring well pilot boreholes, soil samples were collected, and inspected as described in Section 3.1. The sample from each pilot borehole that exhibited the highest degree of contamination above the perched groundwater or the clay layer was submitted for laboratory analysis. These samples were analyzed for BNs using the TCLP test in accordance with the NYSDEC STARS.

The monitoring wells installed consisted of 2-inch diameter PVC well casing and screen (10 slot). Each monitoring well was installed on top of the clay layer which was encountered at approximately 10 ft below land surface (bls). The well construction logs are provided in Appendix A. The SI Work Plan stated that well development would not be conducted due to insufficient volume of perched groundwater (in most cases, the perched groundwater, where present, is less than one foot thick) at the Organics/Suciac Block. However, the NYSDEC verbally requested that Pfizer make an attempt to develop the wells regardless of the volume of perched groundwater in each well. Therefore, each well was developed to the extent possible using a Teflon™ bailer.

3.3 Perched Groundwater Sampling

Perched groundwater was collected for laboratory analysis from three of the six soil borings (i.e., OB-5A, OB-13A and OB-24) and from the five new monitoring wells (MW-7 through MW-11) and the six existing wells (MW-1 through MW-6) at the Site. Please note that the Work Plan stated that perched groundwater from the 11 monitoring wells would only be sampled if free product was not present (see Section 4.3 for product gauging results). Perched groundwater

was not encountered or an insufficient volume was present in Soil Borings OB-15A, OB-22A and OB-23, which precluded collection of a sample. Perched groundwater was sampled from the soil borings using the Geoprobe™ method. Perched groundwater was sampled from the monitoring wells using a Teflon™ bailer. Prior to sampling, the new and existing wells were purged (using a Teflon™ bailer) to the extent possible since a very little volume of water was present.

The perched groundwater was analyzed for BNs using the United States Environmental Protection Agency (USEPA) Method 8270 (NYSDEC STARS list).

3.4 Free-Product Gauging

Free-product gauging was performed in the five new wells (MW-7 through MW-11) and in the six existing wells (MW-1 through MW-6). The gauging was performed on a weekly basis for one month using an electronic product indicator and a bailer. The weekly rounds were conducted on October 10, 1999, October 15, 1999, October 22, 1999, and October 29, 1999. As stated in the SI Work Plan, the free-product gauging would only continue, on a weekly basis, if measurable free-product (where measurable free-product is defined as measurable thickness greater than a sheen) was present (see Section 4.3 for product gauging results).

3.5 Soil Excavation and Offsite Disposal

Based on the results of the delineation soil samples (see Section 4.1), soil excavation and offsite disposal was initiated. As the first step of this program, an excavation contractor removed those portions of the Organics/Suciac Block concrete slab that overlaid the area at OB-22A (Figure 3). The soil that had failed the TCLP test was then excavated. Since the soil within this area was already characterized for disposal, excavated soil was loaded directly into trucks, thereby eliminating the need to stockpile the excavated soil. Roux Associates tracked excavated soil volumes and examined transportation and disposal documents for accuracy and completeness. Additionally, perched groundwater was removed, placed in a holding tank, characterized, and disposed off site.

Upon completion of soil removal activities, the open excavation was backfilled with clean fill material from an off-site source. Following the backfilling of the excavation, the portion of the concrete slab that was removed to permit excavation of soil was restored. Concrete was placed over the backfilled excavation until flush with the existing surrounding slab.

4.0 RESULTS OF THE ORGANICS/SUCIAC BLOCK SIR

This section presents the results of the Organics/Suciac Block SIR, which includes soil quality, perched groundwater quality, free-product gauging, and soil remediation.

4.1 Soil Quality

Underlying the Organics/Suciac Block and Gerry Street is soil consisting of man-made fill material, which is comprised of brown to black medium to coarse sand, with silt and minor amounts of gravel. The fill material also contains varying amounts of bricks, coal-like fragments and concrete. The fill material is underlain by a low permeable clay with occasional silt and sand.

The fill material from the soil borings and monitoring well pilot boreholes was screened in the field using a PID, and the results varied from not detected to greater than 2,000 parts per million (Appendix A). Occasional staining of the fill material was observed and a trace of product (i.e., very tiny droplets) was observed in two samples; i.e., in the pilot boreholes of MW-9 (6 ft to 8 ft bls) and MW-10 (8 ft to 10 ft bls) (Appendix A).

The soil quality results indicate that BNs were not detected in five of the six samples (Soil Borings OB-5A, OB-13A, OB-15A, OB-23, and OB-24) collected at the Site (Table 1). One BN (i.e., naphthalene) was detected at Soil Boring OB-22A at a concentration that exceeds the NYSDEC STARS guidelines (Table 1).

The results of the delineation soil samples surrounding OB-22A indicate that the extent of the BN concentrations that exceed the NYSDEC STARS using the TCLP is limited to the area shown in Figure 3, and to the depth of the clay layer (i.e., a depth of approximately 8 ft to 10 ft bls). This area was excavated as described in Section 4.4.4.5.

Additionally, the soil quality determined from Monitoring Well Pilot Boreholes MW-7 through MW-11, located on or adjacent to Gerry Street, the former Underground Storage Tank (UST) 208, and the former Powerhouse, indicates that BNs were not detected (Table 1).

4.2 Perched Groundwater Sampling

The perched groundwater quality results indicate that BNs were not detected in 13 of 14 samples (Soil Borings OB-5A, OB-13A and OB-24 and Monitoring Wells MW-1 through MW-11) (Table 2). Phenanthrene was detected in Monitoring Well MW-2 at a concentration of 24 micrograms per liter ($\mu\text{g/L}$) (Table 2).

4.3 Free-Product Gauging

The newly installed wells (MW-7 through MW-11) and the existing wells (MW-1 through MW-6) were checked for the presence of free-product weekly for one month. No free product, sheens or odors whatsoever were present in any of the monitoring wells during any of the weekly gauging rounds.

4.4 Soil Remediation

A description of the soil remediation activities is provided below. The NYSDEC was notified approximately five days prior to the start of remediation activities.

4.4.1 Construction Operations

The construction operation tasks performed during the soil remediation activities are identified below, and are described in detail in the following sections:

- Mobilization and demobilization;
- Site preparation;
- Waste classification;
- Shoring;
- Earthwork;
- Dewatering;
- Off-site soil and water transportation, disposal, and tracking;
- Backfilling;
- Equipment decontamination;
- Site restoration;

- Health and safety monitoring; and
- Photographic documentation of construction operations.

4.4.1.1 Mobilization and Demobilization

The personnel, equipment, materials and subcontractors for construction activities were mobilized to the Organics/Suciac Block after the delineation soil sampling was completed and any necessary excavation permits were procured. Roux Associates provided construction oversight for all activities including health and safety monitoring, waste classification, soil and water disposal tracking, and photographic documentation.

Garito Contracting Inc., Yonkers, New York, performed the majority of the construction operation tasks including site preparation, shoring, earthwork, dewatering, backfilling, equipment decontamination and Site restoration.

Capitol Environmental Services, Inc. (Capitol), Westwood, New Jersey, coordinated the disposal for the soil excavated during the SIR activities.

TEV Trucking of Port Newark, New Jersey, provided transportation services for the disposal of the soil containing concentrations of BNs exceeding the NYSDEC STARS. This material was taken to the R3 Technologies, Inc. facility located in Morrisville, Pennsylvania.

4.4.4.2 Site Preparation

The elements of Site preparation included:

- site security;
- surveying services; and
- concrete cover removal.

A brief description of each Site preparation element is provided below.

Site Security

The Organics/Suciac Block is surrounded by an existing 10-ft high chain-link fence. Access to and from the Site was provided through the main gate located at the east end of the Organics/Suciac Block on Gerry Street. The access gate located at the west end of the Organics/Suciac Block on Gerry Street was locked at all times preventing access to the Site without proper authorization. During working hours, access was controlled by designated construction personnel. During non-working hours, the access gate was locked and patrolled by Pfizer security.

Surveying Services

Prior to excavation activities, all soil borings (OB-22A through OB-22G) that were utilized to delineate the limits of the excavation were surveyed by Sidney B. Bowne, Mineola, New York, a licensed New York State surveyor. Each boring was surveyed to establish their exact location and elevation (using the Brooklyn Datum). During excavation activities, continuing surveying services were provided. These services included measuring the depth of the excavation and confirming that the required depth was achieved.

Concrete Cover Removal

Prior to initiating excavation activities, a backhoe was utilized to remove the existing concrete slab (approximately one foot thick) overlying the area to be excavated. The concrete was disposed as construction and demolition (C&D) debris at 110 Sand and Gravel Mine in Melville, New York (see Section 4.4.4.7).

4.4.4.3 Waste Classification

Soil sampling and analysis for waste classification were performed in-situ prior to the implementation of excavation activities. The waste classification results are provided in Appendix B. The results indicate that the soil was classified for disposal as a petroleum-contaminated, nonhazardous material.

4.4.4.4 Shoring

Since the depth of the excavation surrounding Soil Boring OB-22A was deeper than 4 ft, wood shoring was placed in the excavation along Gerry Street and Union Avenue and a steel shoring box was used inside the excavation to:

- prevent collapse or damage to the adjacent offsite subway entrance;
- prevent collapse or damage to the adjacent ground surface; and
- protect any workers when entering the excavation.

The wood shoring and steel shoring box were removed after the completion of excavation activities. The shoring was designed by Architect Frank LoPresto, P.C., A.I.A., and subsequently approved by the New York City Transit Authority (May 31, 2000). The approved shoring design is provided in Appendix C.

4.4.4.5 Earthwork

The elements of earthwork included soil excavation surrounding Soil Boring OB-22A in the southwestern portion of the Organics/Suciac Block (Figure 3). Excavation proceeded by using a backhoe to remove soil from grade to a minimum depth of 10 ft bls, which was based on the depth to the top of the clay and the soil quality results. As shown in Figure 3, the lateral extent of the excavation was extended beyond the clean samples (that passed the TCLP test) to accommodate the shoring. Additionally, the vertical extent of the excavation was extended up to 2 ft into the clay layer (rather than just to the top of the clay layer, which was generally at 10 ft bls) so that any petroleum-contaminated constituents present on top of the clay were removed. Therefore, the excavation was extended to a depth of approximately 11 ft to 12 ft bls (Figure 3). The clay was then visually inspected, and the results indicated that no staining or odors were present in the clay at the bottom of the excavation.

During the course of the removal activities, the excavation was surveyed to confirm that the required minimum depth of the excavation was achieved. An "As-Built" drawing showing the final vertical and lateral extent of the excavation is shown in Figure 3.

4.4.4.6 Dewatering

Perched groundwater was encountered within the excavation at approximately 9 ft bls. This perched groundwater was pumped directly into an on-site 8,000-gallon capacity holding tank. Approximately 1,500 gallons of water were generated during excavation activities. Prior to disposal, the water was sampled and analyzed for VOCs, semivolatile organic compounds (SVOCs), metals, ignitability, corrosivity, and reactivity. Additionally, no sheens or odors were present in the water.

The analytical results of the water generated through dewatering activities are provided in Appendix B. The results indicated that the perched groundwater was nonhazardous, and the water was subsequently transported to the Clean Water of New York facility in Staten Island, New York.

4.4.4.7 Off-Site Soil Transportation, Disposal and Tracking

Excavated soil was transported and disposed in accordance with city, state and federal regulations, consistent with the applicable land disposal requirements. All transporting documents were filled out and field checked for completeness and accuracy by Garito prior to verification by Roux Associates. Prior to loading the soil, each truck was lined with a polyethylene liner bag.

The soil excavated from the Organics/Suciac Block was classified as a petroleum contaminated nonhazardous material, and disposed at the R3 Technologies, Inc. facility in Morrisville, Pennsylvania. The soil was transported by TEV Trucking, Port Newark, New Jersey with field coordination provided by Garito. A total of 420.33 tons of soil were excavated, transported and disposed. The waste tracking summary for the disposal of soil is provided in Appendix D.

The excavated concrete (C & D debris) was disposed at 110 Sand and Gravel Mine in Melville, New York. A total of 17 cubic yards (yd³) of concrete was excavated, transported and disposed. The waste tracking summary for the disposal of concrete is provided in Appendix D.

4.4.4.8 Backfilling

After excavating to the desired depth, the final grades of the excavation were surveyed to confirm that the required depth had been achieved. After completion of the surveyed excavation, two 6-mil high density polyethylene liners were placed at the bottom and along the side walls of the excavation. The excavation was backfilled with clean soil from the Waste Management facility in Brooklyn, New York. To confirm that the soil material was clean and suitable for use, the material was sampled and analyzed for VOCs, SVOCs, and Resource Conservation and Recovery Act (RCRA) metals. The analytical results confirmed that the soil was suitable for backfilling purposes (analytical results are provided in Appendix E). The excavation backfill material was compacted using vibratory equipment.

4.4.4.9 Equipment Decontamination

All equipment used during excavation activities (e.g., backhoe) was decontaminated at the completion of the excavation work. A PID was utilized to confirm that decontamination procedures were performed properly. No organic vapors were detected in the ambient air during decontamination.

4.4.4.10 Site Restoration

The backfilled excavation was covered with a minimum of 6 inches of concrete, until the restored surface was flush with the existing surrounding slab.

4.4.4.11 Health and Safety Monitoring

Roux Associates conducted health and safety monitoring during the SIR soil excavation activities, which included both worker and community health and safety monitoring. All monitoring activities were conducted in accordance with the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4031 (Fugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Sites) (NYSDEC, 1989), the New York State Department of Health (NYSDOH) Community Air Monitoring Plan (NYSDOH, 1994), Worker Health and Safety Plan included as Appendix H in the Block-Wide Soil Investigation Results and IRM Work Plan, Organics/Suciac Block (Roux Associates, 1997), the Community Health and Safety Plan (Roux Associates, 1996a), and Roux Associates' Standard Operating Procedures (Roux Associates, 1996b). Organic vapor (i.e., VOCs), air particulate and

mercury vapor levels were monitored during excavation activities. A brief description of each type of air monitoring is presented below.

Air monitoring for VOCs was conducted by Roux Associates on a continuous basis during excavation activities at three locations: at the downwind and upwind perimeters of the Work Zone and within the Work Zone. Air monitoring equipment was set up at each station (at approximately 4 ft to 5 ft above land surface within the breathing zone), and was monitored in accordance with the Community Health and Safety Plan (CHASP) and the Worker Health and Safety Plan. Prior to monitoring excavation activities each day, background concentrations were measured and recorded.

Organic vapor monitoring was conducted on a continuous basis during excavation activities at three locations: upwind and downwind of the Work Zone and within the Work Zone. The organic vapor monitoring equipment was set up at each station (at approximately 4 ft to 5 ft above land surface within the breathing zone), and was monitored in accordance with the CHASP, while the station located within the Work Zone was monitored in accordance with the Worker Health and Safety Plan. A PID (Photovac Model 2020 as manufactured by Photovac Monitoring Instruments) was used to monitor VOC levels. The maximum VOC concentration for each measurement period was recorded. If organic vapors had been measured at or above 5 parts per million, then work would have been halted and monitoring would have continued under the provisions of the Vapor Emission Response Plan.

Air particulate monitoring was conducted on a continuous basis during excavation activities at three locations: upwind and downwind of the Work Zone and within the Work Zone. The air particulate monitoring equipment was set up at each station (at approximately 4 ft to 5 ft above land surface within the breathing zone), and was monitored in accordance with the CHASP, while the station located within the Work Zone was monitored in accordance with the Worker Health and Safety Plan. A DataRAM™ particulate monitor (model PDR-1000 miniature real-time aerosol monitor as manufactured by MIE) was used to record air particulate levels. If particulate levels had been measured at or above 0.150 milligrams per cubic meter (mg/m^3), the

engineering controls applied (i.e., spraying water) to the excavation at that time would have been increased.

Mercury vapor monitoring was conducted on a continuous basis during excavation activities at one location: within the Work Zone. Air monitoring was performed in accordance with the Worker Health and Safety Plan. The mercury vapor analyzer (Jerome Model 431-X as manufactured by Jerome Instruments) was used to measure mercury vapor levels. If the action level of 0.025 mg/m³ of mercury in ambient air had been exceeded, the engineering controls applied (i.e., spraying water) to the excavation at that time would have been increased.

Results of the air monitoring conducted during SI activities indicate that 59 of the 59 measurement periods (i.e., 100 percent) did not exceed an action level for organic vapors, particulates or mercury vapors (Appendix F).

4.4.4.12 Photographic Documentation of Construction Operations

All key excavation activities performed during the SIR were photographed.

4.5 Operation and Maintenance

There are no post-remediation operation and maintenance requirements associated with the soil remediation (i.e., excavation and dewatering). Additionally, pursuant to Task 6 (Post-Work Plan Monitoring) of the SI Work Plan, quarterly monitoring at the five new wells and the six existing wells will be performed for one year.

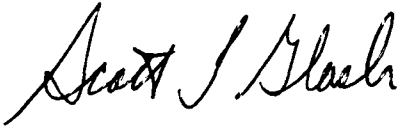
5.0 ENGINEER'S CERTIFICATION

Roux Associates, along with its associated engineering design firm Remedial Engineering, P.C., have completed this report describing implementation of the SIR at the Organics/Suciac Block, Pfizer Inc, Williamsburg facility, New York. This engineering certification is being submitted to the NYSDEC in accordance with the Voluntary Cleanup Agreement (Index No. D2-0001-97-02) effective March 27, 1997.

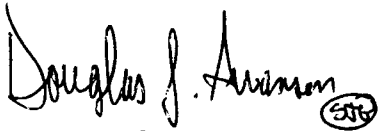
Remedial Engineering, P.C. hereby certifies that the SIR was implemented and construction activities were completed in accordance with the intent of the NYSDEC-approved Voluntary Cleanup Agreement effective March 27, 1997, and as described in this document.

Respectfully submitted,

ROUX ASSOCIATES, INC.



Scott J. Glash, C.P.G.
Senior Hydrogeologist/
Project Manager

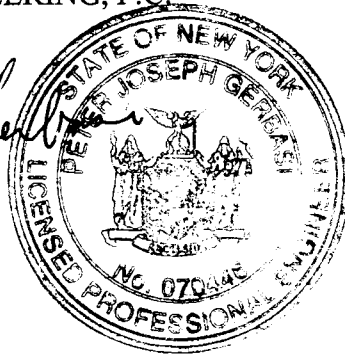


Douglas J. Swanson
President

REMEDIAL ENGINEERING, P.C.



Peter J. Gerbasi, P.E.
Principal Engineer



6.0 REFERENCES

New York State Department of Environmental Conservation, 1989. Technical and Administrative Guidance Memorandum #4031, Fugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Sites.

New York State Department of Health, 1994. Community Air Monitoring Plan.

Roux Associates, Inc., 1996a. Community Health and Safety Plan, July 10, 1996.

Roux Associates, Inc., 1996b. Block-Wide Soil Investigation Results and Interim Remedial Measure Work Plan, Organics/Suciac Block, December 6, 1996.

Roux Associates, Inc., 1997. Health and Safety Plan, as amended, Appendix H, Block-Wide Soil Investigation Results and Interim Remedial Measure Work Plan, Organics/Suciac Block, May 20, 1997.

TABLES

Table 1. Summary of Base Neutral Compounds Detected in Soil Using the Toxicity Characteristic Leaching Procedure, Organics/Suciac Block, Pfizer Inc, Brooklyn, New York

Parameter (Concentrations in µg/L)	Sample Designation:	OB-5A	OB-13A	OB-15A	OB-22A	OB-22B
	Sample Depth (ft bls):	4-6	5-6	4-6	6-8	6-8
	Date Sampled:	9/27/1999	9/30/1999	9/27/1999	9/27/1999	10/20/1999
		NYSDEC				
	STARS					
	Guidelines					
	(µg/L)					
Naphthalene	10	10 U	10 U	10 U	45	33
Acenaphthene	20	10 U	10 U	10 U	12	20 U
Fluorene	50	10 U	10 U	10 U	13	20 U
Phenanthrene	50	10 U	10 U	10 U	30	22
Anthracene	50	10 U	10 U	10 U	10 U	20 U
Fluoranthene	50	20 U	20 U	20 U	20 U	40 U
Pyrene	50	10 U	10 U	10 U	10 U	20 U
Benzo[a]anthracene	0.002	10 U	10 U	10 U	10 U	20 U
Chrysene	0.002	10 U	10 U	10 U	10 U	20 U
Benzo[b]fluoranthene	0.002	10 U	10 U	10 U	10 U	20 U
Benzo[k]fluoranthene	0.002	10 U	10 U	10 U	10 U	20 U
Benzo[a]pyrene	0.002	10 U	10 U	10 U	10 U	20 U
Indeno[1,2,3-cd]pyrene	0.002	10 U	10 U	10 U	10 U	20 U
Dibenzo[a,h]anthracene	50	10 U	10 U	10 U	10 U	20 U
Benzo[g,h,i]perylene	0.002	10 U	10 U	10 U	10 U	20 U

µg/L - Micrograms per liter

ft bls - Feet below land surface

U - Indicates compound analyzed for but not detected

NYSDEC - New York State Department of Environmental Conservation

STARS - Spill Technology and Remediation Series

Bold - Data highlighted in bold represent detections that exceed the NYSDEC STARS guidelines

Table 1. Summary of Base Neutral Compounds Detected in Soil Using the Toxicity Characteristic Leaching Procedure, Organics/Suciac Block, Pfizer Inc, Brooklyn, New York

Parameter (Concentrations in µg/L)	Sample Designation:				NYSDEC STARS Guidelines (µg/L)			
	Sample Depth (ft bls):				OB-22C			
	Date Sampled:				OB-22D			
					6-8	10/20/1999	OB-22E	OB-22F
					6-8	10/20/1999	6-8	6-8
							10/20/1999	11/2/1999
								11/2/1999
Naphthalene	10	100	20 U	20 U	20 U	20 U	20 U	20 U
Acenaphthene	20	58	20 U	20 U	20 U	20 U	20 U	20 U
Fluorene	50	59	20 U	20 U	20 U	20 U	20 U	20 U
Phenanthrene	50	120	20 U	20 U	20 U	20 U	20 U	20 U
Anthracene	50	30	20 U	20 U	20 U	20 U	20 U	20 U
Fluoranthene	50	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Pyrene	50	24	20 U	20 U	20 U	20 U	20 U	20 U
Benzo[a]anthracene	0.002	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Chrysene	0.002	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Benzo[b]fluoranthene	0.002	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Benzo[k]fluoranthene	0.002	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Benzo[a]pyrene	0.002	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Indeno[1,2,3-cd]pyrene	0.002	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Dibenzo[a,h]anthracene	50	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Benzo[g,h,i]perylene	0.002	20 U	20 U	20 U	20 U	20 U	20 U	20 U

µg/L - Micrograms per liter

ft bls - Feet below land surface

U - Indicates compound analyzed for but not detected

NYSDEC - New York State Department of Environmental Conservation

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Bold - Data highlighted in bold represent detections that exceed the NYSDEC STARS guidelines

Table 1. Summary of Base Neutral Compounds Detected in Soil Using the Toxicity Characteristic Leaching Procedure, Organics/Suciac Block, Pfizer Inc, Brooklyn, New York

Parameter (Concentrations in µg/L)	Sample Designation:				
	Sample Depth (ft bls):				
	Date Sampled:				
	OB-23 2-4	OB-24 5-7	MW-7 2-4	MW-8 4-6	MW-9 4-6
	9/27/1999	9/27/1999	9/30/1999	9/30/1999	9/30/1999
	NYSDEC STARS Guidelines (µg/L)				
Naphthalene	10	10 U	10 U	10 U	10 U
Acenaphthene	20	10 U	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U	10 U
Phenanthrene	50	10 U	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U	10 U
Fluoranthene	50	20 U	20 U	20 U	20 U
Pyrene	50	10 U	10 U	10 U	10 U
Benzo[a]anthracene	0.002	10 U	10 U	10 U	10 U
Chrysene	0.002	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002	10 U	10 U	10 U	10 U
Benzo[a]pyrene	0.002	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002	10 U	10 U	10 U	10 U
Dibenzo[a,h]anthracene	50	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	0.002	10 U	10 U	10 U	10 U

µg/L - Micrograms per liter

ft bls - Feet below land surface

U - Indicates compound analyzed for but not detected

NYSDEC - New York State Department of Environmental Conservation

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Bold - Data highlighted in bold represent detections that exceed the NYSDEC STARS guidelines

Table 1. Summary of Base Neutral Compounds Detected in Soil Using the Toxicity Characteristic Leaching Procedure, Organics/Suciac Block, Pfizer Inc, Brooklyn, New York

Parameter (Concentrations in µg/L)	Sample Designation:		
	Sample Depth (ft bls):		
	Date Sampled:		
	MW-10	MW-11	
	2-4	4-6	
	9/30/1999	9/30/1999	
	NYSDEC		
	STARS		
	Guidelines		
	(µg/L)		
Naphthalene	10	10 U	10 U
Acenaphthene	20	10 U	10 U
Fluorene	50	10 U	10 U
Phenanthrene	50	10 U	10 U
Anthracene	50	10 U	10 U
Fluoranthene	50	20 U	20 U
Pyrene	50	10 U	10 U
Benzo[a]anthracene	0.002	10 U	10 U
Chrysene	0.002	10 U	10 U
Benzo[b]fluoranthene	0.002	10 U	10 U
Benzo[k]fluoranthene	0.002	10 U	10 U
Benzo[a]pyrene	0.002	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002	10 U	10 U
Dibenzo[a,h]anthracene	50	10 U	10 U
Benzo[g,h,i]perylene	0.002	10 U	10 U

µg/L - Micrograms per liter

ft bls - Feet below land surface

U - Indicates compound analyzed for but not detected

NYSDEC - New York State Department of Environmental Conservation

STARS - Spill Technology and Remediation Series

Bold - Data highlighted in bold represent detections that exceed the NYSDEC STARS guidelines

Table 2. Summary of Base Neutral Compounds Detected in Perched Ground Water, Organics/Suciac Block, Pfizer Inc, Brooklyn, New York

Parameter (Concentrations in µg/L)	Sample Designation:		MW-2		MW-3		MW-4		MW-5		MW-6	
	Date Sampled:	11/5/1999	11/5/1999	11/5/1999	11/5/1999	11/5/1999	11/5/1999	11/5/1999	11/5/1999	11/5/1999	11/5/1999	11/5/1999
Naphthalene		10 U	20 U		10 U		10 U		10.6 U		22 U	
Acenaphthene		10 U	20 U		10 U		10 U		10.6 U		22 U	
Fluorene		10 U	20 U		10 U		10 U		10.6 U		22 U	
Phenanthrene		10 U	24		10 U		10 U		10.6 U		22 U	
Anthracene		10 U	20 U		10 U		10 U		10.6 U		22 U	
Fluoranthene		20 U	40 U		20 U		20 U		21.2 U		44 U	
Pyrene		10 U	20 U		10 U		10 U		10.6 U		22 U	
Benzo[a]anthracene		10 U	20 U		10 U		10 U		10.6 U		22 U	
Chrysene		10 U	20 U		10 U		10 U		10.6 U		22 U	
Benzo[b]fluoranthene		10 U	20 U		10 U		10 U		10.6 U		22 U	
Benzo[k]fluoranthene		10 U	20 U		10 U		10 U		10.6 U		22 U	
Benzo[a]pyrene		10 U	20 U		10 U		10 U		10.6 U		22 U	
Indeno[1,2,3-cd]pyrene		10 U	20 U		10 U		10 U		10.6 U		22 U	
Dibenzo[a,h]anthracene		10 U	20 U		10 U		10 U		10.6 U		22 U	
Benzo[g,h,i]perylene		10 U	20 U		10 U		10 U		10.6 U		22 U	

µg/L - Micrograms per liter

U - Indicates compound analyzed for but not detected

Table 2. Summary of Base Neutral Compounds Detected in Perched Ground Water, Organics/Suciac Block, Pfizer Inc, Brooklyn, New York

Parameter (Concentrations in µg/L)	Sample Designation:			
	MW-7 11/5/1999	MW-7R 11/5/1999	MW-8 11/5/1999	MW-9 11/5/1999
Naphthalene	10 U	10 U	10 U	10 U
Acenaphthene	10 U	10 U	10 U	10 U
Fluorene	10 U	10 U	10 U	10 U
Phenanthrene	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	10 U
Fluoranthene	20 U	20 U	20 U	20 U
Pyrene	10 U	10 U	10 U	10 U
Benzo[a]anthracene	10 U	10 U	10 U	10 U
Chrysene	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	10 U	10 U	10 U	10 U
Benzo[a]pyrene	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	10 U	10 U	10 U	10 U
Dibenzo[a,h]anthracene	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	10 U	10 U	10 U	10 U

µg/L - Micrograms per liter

U - Indicates compound analyzed for but not detected

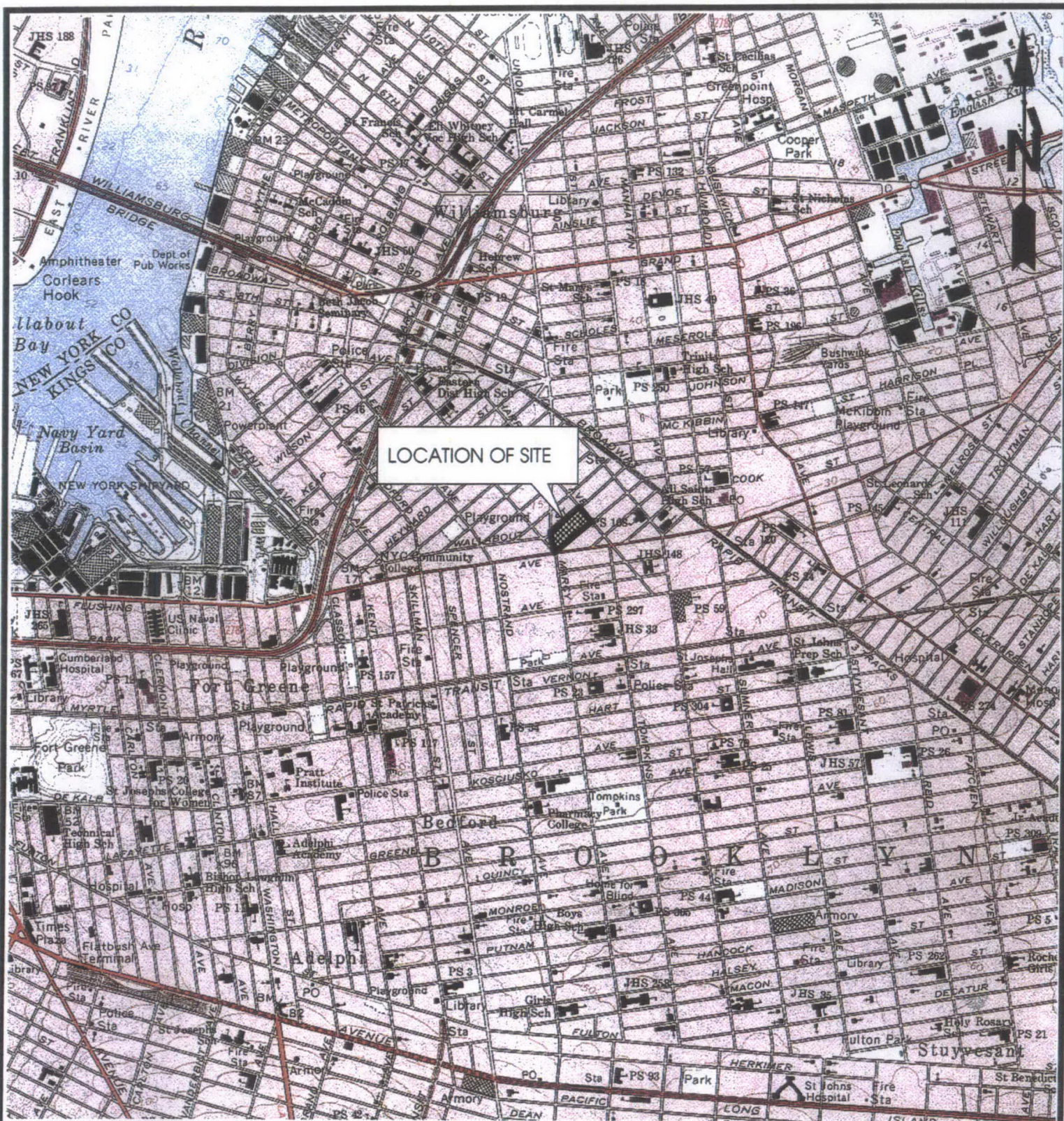
Table 2. Summary of Base Neutral Compounds Detected in Perched Ground Water, Organics/Suciac Block, Pfizer Inc, Brooklyn, New York

Parameter (Concentrations in µg/L)	Sample Designation:		OB-5A 9/27/1999	OB-13A 9/30/1999	OB-24 9/30/1999
	MW-11 Date Sampled:	11/5/1999			
Naphthalene	10.9 U		11.6 U	10 U	10 U
Acenaphthene	10.9 U		11.6 U	10 U	10 U
Fluorene	10.9 U		11.6 U	10 U	10 U
Phenanthrene	10.9 U		11.6 U	10 U	10 U
Anthracene	10.9 U		11.6 U	10 U	10 U
Fluoranthene	21.8 U		23.2 U	20 U	20 U
Pyrene	10.9 U		11.6 U	10 U	10 U
Benzo[a]anthracene	10.9 U		11.6 U	10 U	10 U
Chrysene	10.9 U		11.6 U	10 U	10 U
Benzo[b]fluoranthene	10.9 U		11.6 U	10 U	10 U
Benzo[k]fluoranthene	10.9 U		11.6 U	10 U	10 U
Benzo[a]pyrene	10.9 U		11.6 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	10.9 U		11.6 U	10 U	10 U
Dibenzo[a,h]anthracene	10.9 U		11.6 U	10 U	10 U
Benzo[g,h,i]perylene	10.9 U		11.6 U	10 U	10 U

µg/L - Micrograms per liter

U - Indicates compound analyzed for but not detect

FIGURES



SOURCE:
USGS BROOKLYN, NEW YORK
QUADRANGLE 7.5 MINUTE SERIES (TOPOGRAPHIC)

NEW YORK



QUADRANGLE
LOCATION

Title:

SITE LOCATION MAP

ORGANICS/SUCIAC BLOCK
SUPPLEMENTAL FINAL ENGINEERING REPORT

Prepared For:

PFIZER INC
WILLIAMSBURG FACILITY, BROOKLYN, NEW YORK

ROUX

ROUX ASSOCIATES, INC.
Environmental Consulting
& Management

Compiled by: S.J.G.

Prepared by: R.K.

Project Mgr: S.J.G.

File No: PF4431502

Date: 02AUG00

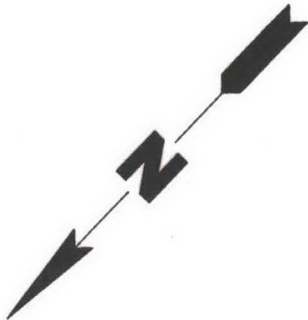
Scale: 1"=2,000'

Status: Final

Project: 04744Y02

FIGURE

1



LEGEND

- LOCATION OF SOIL BORING
- LOCATION OF MONITORING WELL



**LOCATION OF
ORGANICS/SUCIAC BLOCK**
ORGANICS/SUCIAC BLOCK
SUPPLEMENTAL FINAL ENGINEERING REPORT

Prepared For:		PFIZER INC	
WILLIAMSBURG FACILITY, BROOKLYN, NEW YORK		FIGURE	
ROUX ASSOCIATES, INC.		Compiled by: S.J.G.	Date: 02AUG00
Environmental Consulting & Management		Prepared by: R.K.	Scale: AS SHOWN
		Project Mgr: S.J.G.	Office: NY
		File No: PF4431501	Project: 04744Y02



CITRIC BLOCK SITE

HARRISON AVENUE

GERRY STREET

WALLABOUT STREET

CONCRETE WALK
UNION AVENUE

SOIL BORING DESIGNATION	SURVEYED FINAL DEPTH (ft bls)
OB-22	12.2
OB22-A	12.0
OB22-B	11.7
OB22-C	11.6
OB22-D	11.8
OB22-E	11.7
OB22-F	12.3
OB22-G	11.7



Title:

'AS-BUILT' DRAWING
EXCAVATION 0-12'

ORGANICS/SUCIAC BLOCK
SUPPLEMENTAL FINAL ENGINEERING REPORT

Prepared For:

PFIZER INC
WILLIAMSBURG FACILITY, BROOKLYN, NEW YORK



ROUX ASSOCIATES, INC.
Environmental Consulting & Management
Compiled by: S.J.G.
Prepared by: R.K.
Project Mgr: S.J.G.
File No: PF4431503
Date: 15AUG00
Scale: AS SHOWN
Office: NY
Project: 04744Y02

NOTE:

1. BUILDING DEMOLITION WAS COMPLETED BY MARCH 1, 1995

2. USTs = UNDERGROUND STORAGE TANKS

FINAL EXTENT OF EXCAVATION AND AREA OF REMOVED PERCHED GROUNDWATER

TCLP TOXICITY CHARACTERISTIC LEACHING PROCEDURE

FT BLS FEET BELOW LAND SURFACE

SIR SUPPLEMENTAL INVESTIGATION AND REMEDIATION

LEGEND

APPROXIMATE LOCATION OF NEW YORK CITY SEWER

APPROXIMATE LOCATION OF UNDERGROUND UTILITIES (e.g., ELECTRICAL LINES)

LOCATION AND DESIGNATION OF FORMER PETROLEUM USTs

LOCATION AND DESIGNATION OF FORMER PROCESS USTs

LOCATION AND DESIGNATION OF FORMER POWERHOUSE USTs

LOCATION AND DESIGNATION OF SIR SOIL SAMPLE THAT PASSED THE TCLP TEST

LOCATION AND DESIGNATION OF SIR DELINEATION SOIL SAMPLE THAT PASSED THE TCLP TEST

LOCATION AND DESIGNATION OF SIR SOIL SAMPLE THAT FAILED THE TCLP TEST

LOCATION AND DESIGNATION OF SIR DELINEATION SOIL SAMPLE THAT FAILED THE TCLP TEST

LOCATION AND DESIGNATION OF PREVIOUS SOIL BORING

LOCATION AND DESIGNATION OF TEMPORARY MONITORING WELL (GREEN INDICATES THAT THE SOIL SAMPLE COLLECTED FROM THE PILOT BOREHOLE OF THE NEW MONITORING WELLS PASSED THE TCLP TEST)

EXTENT OF PREVIOUSLY EXCAVATED FILL MATERIAL FROM LAND SURFACE TO THE CLAY LAYER AND AREA OF REMOVED PERCHED GROUNDWATER

OB-13A
OB-22F
OB-22
OB-22C
SB-1
MW-2



ATTACHMENTS

APPENDIX A

Soil Boring and Well Construction Logs



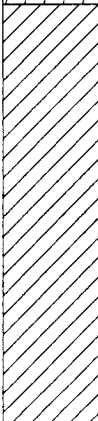
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SOIL BORING LOG

WELL NO. OB-5A	NORTHING	EASTING		
PROJECT NO./NAME 04744Y02 / Pfizer Inc		LOCATION Organics/Suciac Block		
APPROVED BY S. Glash	LOGGED BY N. Gorelick	Brooklyn, New York		
DRILLING CONTRACTOR/DRILLER ADT / Marty		GEOGRAPHIC AREA Organics/Suciac Block		
DRILL BIT DIAMETER/TYPE 2 inch / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 5400 / Geoprobe	SAMPLING METHOD 2" Macro-Core	START-FINISH DATE 9/27/99-9/27/99
LAND SURFACE ELEVATION (FT.)	DEPTH TO WATER (Feet BLS)	BACKFILL Bentonite		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID V a l u e s (ppm)	REMARKS	
1		Brown fine to medium SAND, trace Silt, little pieces of brick and gravel; Slightly Moist (Fill)		2000+	1 foot of concrete.	
2						
3						
4			Brown fine to medium SAND, trace brick and gravel; Moist (Fill)		2000+	Sample from 4-6 ft. for BNs NYSDEC STARS TCLP.
5						
6						
7			Brown fine to medium SAND, trace coal-like material; Moist to Wet (Fill)		2000+	Perched water encountered. Perched water sample collected for BNs NYSDEC STARS LIST analysis.
8			Black and green-grey CLAY; Moist to Dry		527	
9						
10						
11						
12						
Bottom of Borehole.						

BORING/WELL 04744Y02 GPJ ROUX GDT 8/3/00



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SOIL BORING LOG

WELL NO. OB-15A	NORTHING	EASTING		
PROJECT NO./NAME 04744Y02 / Pfizer Inc		LOCATION Organics/Suciac Block		
APPROVED BY S. Glash	LOGGED BY N. Gorelick	Brooklyn, New York		
DRILLING CONTRACTOR/DRILLER ADT / Marty		GEOGRAPHIC AREA Organics/Suciac Block		
DRILL BIT DIAMETER/TYPE 2 inch / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 5400 / Geoprobe	SAMPLING METHOD 2" Macro-Core	START-FINISH DATE 9/27/99-9/27/99
LAND SURFACE ELEVATION (FT.)	DEPTH TO WATER (Feet BLS)	BACKFILL Bentonite		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
1		Brown fine to medium SAND, trace Silt; Slightly Moist (Fill)		154	6 inches of concrete.
2					
3					
4					
5		Brown fine to medium SAND, little Silt, trace Clay, trace tiny shiny chips, trace tiny pieces coal-like material; Very Moist (Fill)		2000+	
6					
7					Sample from 6-8 feet for BNs NYSDEC STARS TCLP.
8		No recovery - piece of Grey-green Clay in Macro Core		none	
9					
10					
11					
12					Bottom of Borehole.

BORINGWELL 04744Y02 GPJ ROUX GDT 8/3/00



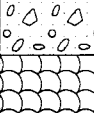
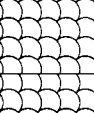
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SOIL BORING LOG

WELL NO. OB-13A	NORTHING	EASTING		
PROJECT NO./NAME 04744Y02 / Pfizer Inc		LOCATION Organics/Suciac Block		
APPROVED BY S. Glash	LOGGED BY N. Gorelick	Brooklyn, New York		
DRILLING CONTRACTOR/DRILLER ADT / Chris Stratton		GEOGRAPHIC AREA Organics/Suciac Block		
DRILL BIT DIAMETER/TYPE 4 inch /	BOREHOLE DIAMETER 6-inches	DRILLING EQUIPMENT/METHOD Mobile Drill B-61 / HSA	SAMPLING METHOD 2" Macro-Core	START-FINISH DATE 9/30/99-9/30/99
LAND SURFACE ELEVATION (FT.)	DEPTH TO WATER (Feet BLS)	BACKFILL Bentonite		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
1		Concrete pad		none	4 ft. of concrete
2					
3					
4					
5					
6		Brown to grey medium to coarse SAND, some Silt, little gravel; Moist (Fill)		102	Sample from 5-6 ft bls. for BNs NYSDEC STARS TCLP.
7					Perched water encountered. Perched water sample collected for BNs NYSDEC STARS.
8		Grey medium to coarse SAND, large pieces of coal-like material; Very Moist (Fill)		77.9	
9		Black CLAY; Very Moist			
Bottom of Borehole.					

BORINGWELL 04744Y02 GPJ ROUX GDT 8/3/00



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SOIL BORING LOG

WELL NO. OB-22A	NORTHING	EASTING		
PROJECT NO./NAME 04744Y02 / Pfizer Inc		LOCATION Organics/Suciac Block		
APPROVED BY S. Glash	LOGGED BY N. Gorelick	Brooklyn, New York		
DRILLING CONTRACTOR/DRILLER ADT / Marty		GEOGRAPHIC AREA Organics/Suciac Block		
DRILL BIT DIAMETER/TYPE 2 inch / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 5400 / Geoprobe	SAMPLING METHOD 2" Macro-Core	START-FINISH DATE 9/27/99-9/27/99
LAND SURFACE ELEVATION (FT.)	DEPTH TO WATER (Feet BLS)	BACKFILL Bentonite		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
1		Brown medium to coarse SAND, pieces of rock and brick; Slightly Moist (Fill)		1800	6 inches of concrete.
2					
3					
4					
5		Brown fine to coarse SAND, some crushed brick and gravel, large pieces of coal-like material, trace white Clay; Moist (Fill)		2000+	
6					
7					Sample from 6-8 ft. collected for BNs NYSDEC STARS TCLP.
8					
9		Gray fine to medium SAND, little Silt; Wet (Fill)		895	Perched water encountered.
10					
11					
12		Green-grey CLAY; Dry			
Bottom of Borehole.					

BORINGWELL 04744Y02 GPJ ROUX GDT 8/3/00



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SOIL BORING LOG

Page 1 of 1

WELL NO. OB-22B	NORTHING	EASTING		
PROJECT NO./NAME 04744Y02 / Pfizer Inc		LOCATION Organics/Suciac Block		
APPROVED BY S. Glash	LOGGED BY N. Gorelick	Brooklyn, New York		
DRILLING CONTRACTOR/DRILLER Roux Associates, Inc. / Peter Barzack		GEOGRAPHIC AREA Organics/Suciac Block		
DRILL BIT DIAMETER/TYPE 2 inch / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 5400 / Geoprobe	SAMPLING METHOD 2" Macro-Core	START-FINISH DATE 10/20/99-10/20/99
LAND SURFACE ELEVATION (FT.)	DEPTH TO WATER (Feet BLS)	BACKFILL Bentonite		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
1		Brown medium SAND and coal material, large pieces of brick and rock (Fill); Moist		0	1 inch of concrete.
2					
3					
4					
5		Brown medium SAND and brick, large pieces rock, little coal material, little white Clay; @ 8 ft. bls is black Sandy Silt with trace white clay; Moist (Fill)		0	
6					Sample collected from 6-8 feet for BNs NYSDEC STARS TCLP
7					
8					
Bottom of Borehole.					

BORING/WELL 04744Y02 GPJ ROUX GDT 8/3/00



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SOIL BORING LOG

WELL NO. OB-22C	NORTHING	EASTING		
PROJECT NO./NAME 04744Y02 / Pfizer Inc		LOCATION Organics/Suciac Block		
APPROVED BY S. Glash	LOGGED BY N. Gorelick	Brooklyn, New York		
DRILLING CONTRACTOR/DRILLER Roux Associates, Inc. / Peter Barzack		GEOGRAPHIC AREA Organics/Suciac Block		
DRILL BIT DIAMETER/TYPE 2 inch / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 5400 / Geoprobe	SAMPLING METHOD 2" Macro-Core	START-FINISH DATE 10/20/99-10/20/99
LAND SURFACE ELEVATION (FT.)	DEPTH TO WATER (Feet BLS)	BACKFILL Bentonite		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
1		Brown with orange medium SAND and coal material, brick and rock; Moist (Fill)		0	1 inch of concrete.
2					
3					
4					
5		Brown with orange medium SAND and SILT, little brick and rock, little pieces of wood material; @ 8 ft. bls is black Clay, trace green-grey clay; Moist (Fill)		0	
6					Sample collected from 6-8 feet for BNs NYSDEC STARS TCLP.
7					
8					
Bottom of Borehole.					

BORING/WELL 04744Y02 GPJ ROUX GDT 8/3/00



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SOIL BORING LOG

WELL NO. OB-22D	NORTHING	EASTING		
PROJECT NO./NAME 04744Y02 / Pfizer Inc		LOCATION Organics/Suciac Block		
APPROVED BY S. Glash	LOGGED BY N. Gorelick	Brooklyn, New York		
DRILLING CONTRACTOR/DRILLER Roux Associates, Inc. / Peter Barzack		GEOGRAPHIC AREA Organics/Suciac Block		
DRILL BIT DIAMETER/TYPE 2 inch / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 5400 / Geoprobe	SAMPLING METHOD 2" Macro-Core	START-FINISH DATE 10/20/99-10/20/99
LAND SURFACE ELEVATION (FT.)	DEPTH TO WATER (Feet BLS)	BACKFILL Bentonite		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID V a l u e s (ppm)	REMARKS
1		Brown medium SAND and brick, rock and coal material, trace black stained sand; Moist (Fill)		0	1 inch of concrete.
2					
3					
4					
5		Brown to orange medium SAND and brick, rock, coal, little white Clay, @ 8 ft. bls little black silty sand; Moist (Fill)		0	
6					Sample collected from 6-8 feet for BNs NYSDEC STARS TCLP.
7					
8					
Bottom of Borehole.					

BORING/WELL 04744Y02 GPJ ROUX GDT 8/3/00



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SOIL BORING LOG

WELL NO. OB-22E	NORTHING	EASTING		
PROJECT NO./NAME 04744Y02 / Pfizer Inc		LOCATION Organics/Suciac Block		
APPROVED BY S. Glash	LOGGED BY N. Gorelick	Brooklyn, New York		
DRILLING CONTRACTOR/DRILLER Roux Associates, Inc. / Peter Barzack		GEOGRAPHIC AREA Organics/Suciac Block		
DRILL BIT DIAMETER/TYPE 2 inch / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 5400 / Geoprobe	SAMPLING METHOD 2" Macro-Core	START-FINISH DATE 10/20/99-10/20/99
LAND SURFACE ELEVATION (FT.)	DEPTH TO WATER (Feet BLS)	BACKFILL Bentonite		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS	
		Brown medium SAND and brick, rock, pieces of coal material; Wet (Fill)		0	1 inch of concrete.	
1						
2						
3						
4						
5				Brown medium SAND and brick, rock, trace white Clay; @ 8 ft. bls is black Silt and Sand; Moist (Fill)	0	
6						Sample collected from 6-8 feet for BNs NYSDEC STARS TCLP.
7						
8					Bottom of Borehole	

BORING/WELL 04744Y02 GPJ ROUX GDT 8/3/00



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SOIL BORING LOG

WELL NO. OB-22F	NORTHING	EASTING		
PROJECT NO./NAME 04744Y02 / Pfizer Inc		LOCATION Organics/Suciac Block		
APPROVED BY S. Glash	LOGGED BY N. Gorelick	Brooklyn, New York		
DRILLING CONTRACTOR/DRILLER Roux Associates, Inc. / Rob Tweeddale		GEOGRAPHIC AREA Organics/Suciac Block		
DRILL BIT DIAMETER/TYPE 2 inch / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 5400 / Geoprobe	SAMPLING METHOD 2" Macro-Core	START-FINISH DATE 11/2/99-11/2/99
LAND SURFACE ELEVATION (FT.)	DEPTH TO WATER (Feet BLS)	BACKFILL Bentonite		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS	
1		Concrete then Brown medium SAND, bricks, crushed rocks, trace white rock and clay; Dry (Fill)		0	3 inches of concrete.	
2						
3						
4						
5		Brown medium SAND and Brick, rocks, then trace white clay. @ 8 ft bls grey to black stained clay; Moist (Fill)		0		
6						Sample collected from 6-8 feet for BNs NYSDEC STARS TCLP.
7						
8						

BORING/WELL 04744Y02.GPJ ROUX GDT 8/3/00



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SOIL BORING LOG

WELL NO. OB-22G	NORTHING	EASTING		
PROJECT NO./NAME 04744Y02 / Pfizer Inc		LOCATION Organics/Suciac Block		
APPROVED BY S. Glash	LOGGED BY N. Gorelick	Brooklyn, New York		
DRILLING CONTRACTOR/DRILLER Roux Associates, Inc. / Rob Tweeddale		GEOGRAPHIC AREA Organics/Suciac Block		
DRILL BIT DIAMETER/TYPE 2 inch / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 5400 / Geoprobe	SAMPLING METHOD 2" Macro-Core	START-FINISH DATE 11/2/99-11/2/99
LAND SURFACE ELEVATION (FT.)	DEPTH TO WATER (Feet BLS)	BACKFILL Bentonite		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
1		Brown medium SAND, little rocks; Slightly Moist (Fill)		0	
2					
3					
4					
5		Brick, very little medium sand (Fill)		2	
6					Sample from 6-8 feet bls for BNs NYSDEC STARS TCLP.
7					
8		BRICK, COAL and GRAVEL, trace Clay at 10 feet (Fill)		0	At 8 feet bls perched water was encountered.
9					
10					

Bottom of Borehole.

BORING/WELL 04744Y02 GPJ ROUX GDT 8/3/00



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SOIL BORING LOG

WELL NO. OB-23	NORTHING	EASTING		
PROJECT NO./NAME 04744Y02 / Pfizer Inc		LOCATION Organics/Suciac Block		
APPROVED BY S. Glash	LOGGED BY N. Gorelick	Brooklyn, New York		
DRILLING CONTRACTOR/DRILLER ADT / Marty		GEOGRAPHIC AREA Organics/Suciac Block		
DRILL BIT DIAMETER/TYPE 2 inch / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 5400 / Geoprobe	SAMPLING METHOD 2" Macro-Core	START-FINISH DATE 9/27/99-9/27/99
LAND SURFACE ELEVATION (FT.)	DEPTH TO WATER (Feet BLS)	BACKFILL Bentonite		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
1		Clean SAND, previous backfill; Dry (Fill)		0.0	3 inches of concrete.
2					Sample from 2-4 ft. for BNs NYSDEC STARS TCLP.
3					
4					
5		Clean SAND, previous backfill; Dry (Fill)		0.0	
6					
7					
8					
9		Green-grey CLAY; Wet to Dry		0.0	Perched water encountered.
10					Clay is dry.
11					
12					Bottom of Borehole.

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SOIL BORING LOG

WELL NO. OB-24	NORTHING	EASTING		
PROJECT NO./NAME 04744Y02 / Pfizer Inc		LOCATION Organics/Suciac Block		
APPROVED BY S. Glash	LOGGED BY N. Gorelick	Brooklyn, New York		
DRILLING CONTRACTOR/DRILLER ADT / Marty		GEOGRAPHIC AREA Organics/Suciac Block		
DRILL BIT DIAMETER/TYPE 2 inch / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 5400 / Geoprobe	SAMPLING METHOD 2" Macro-Core	START-FINISH DATE 9/27/99-9/27/99
LAND SURFACE ELEVATION (FT.)	DEPTH TO WATER (Feet BLS)	BACKFILL Bentonite		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
1		Light Brown medium to coarse SAND, little gravel, at 3.5 ft. dark brown sand, trace coal-like material; Dry (Fill)		2000+	3 inches of concrete.
2					
3					
4					
5		Brown medium to coarse SAND, coal-like pieces and rock fragments, little gravel, little brick; Wet (Fill)		185	Sample from 5-7 ft. for BNs NYSDEC STARS TCLP.
6					
7					Perched water encountered. Perched water sample collected for BNs NYSDEC STARS TCLP.
8		Black Clay, some Silt, trace green-grey clay; Moist to Dry		0.0	
9					
10					
11					
12					Bottom of Borehole.

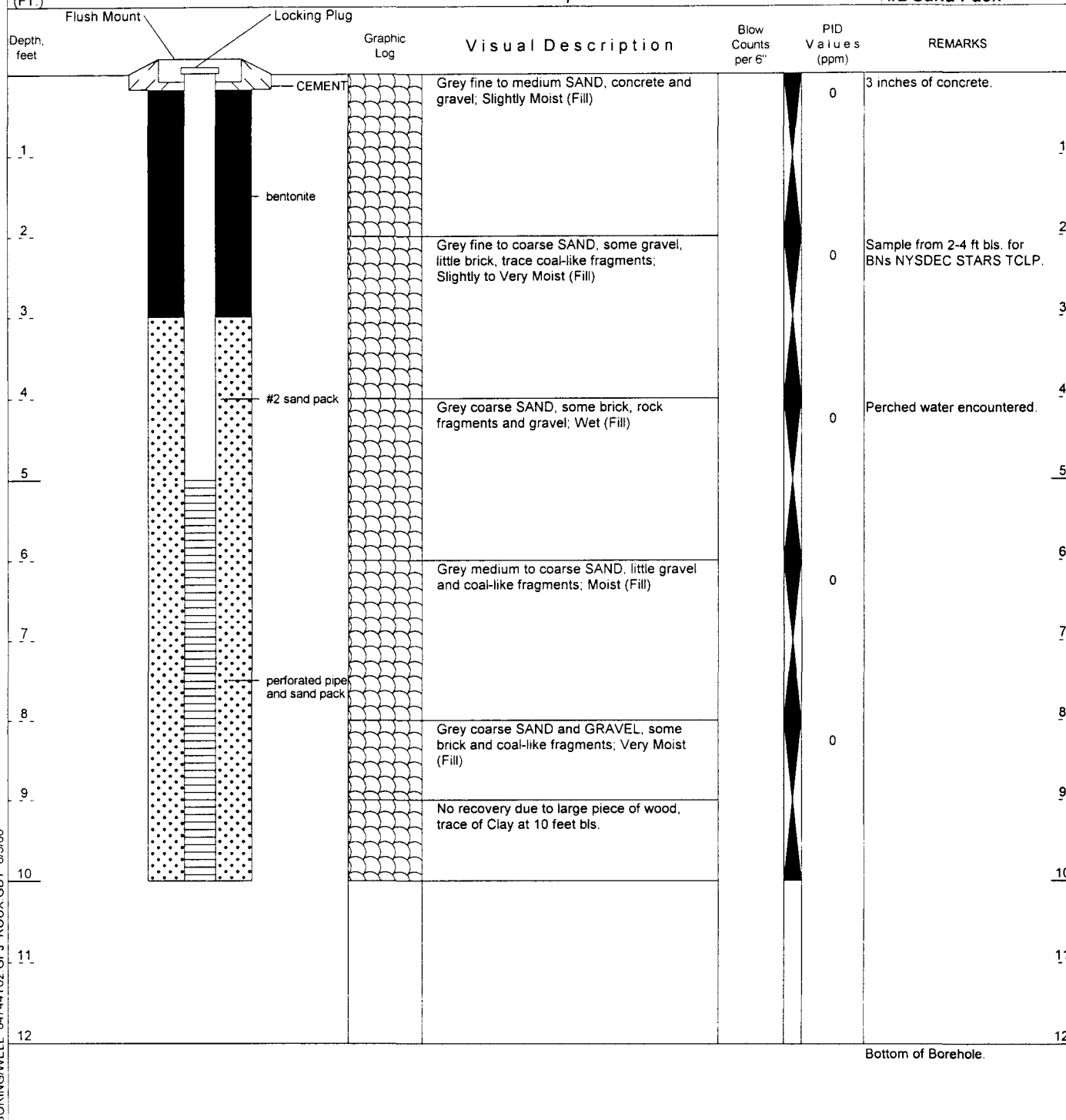
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WELL CONSTRUCTION LOG

WELL NO. MW-7		NORTHING		EASTING	
PROJECT NO./NAME 04744Y02 / Pfizer Inc			LOCATION Organics/Suciac Block		
APPROVED BY S. Glash		LOGGED BY N. Gorelick		Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER ADT / Chris Stratton			GEOGRAPHIC AREA Organics/Suciac Block		
DRILL BIT DIAMETER/TYPE 4 inch /		BOREHOLE DIAMETER 6-inches		SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 9/29/99-9/29/99
CASING MAT./DIA. PVC / 2-inch		SCREEN: TYPE Slotted		MAT. PVC	
ELEVATION OF: (FT.)		GROUND SURFACE		TOTAL LENGTH 5.0	DIA. 2-inch
		TOP OF WELL CASING		TOP & BOTTOM SCREEN	GW SURFACE
					SLOT SIZE 20-Slot
					GRAVEL PACK #2 Sand Pack



BORINGWELL 04744Y02.GPJ ROUX.GDT 8/3/00



WELL CONSTRUCTION LOG

Depth, feet	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0	CONCRETE, little medium to coarse Sand, trace coal-like fragments; DRY (Fill)		0	6 inches of concrete.
1				
2	Grey coarse SAND and SILT, little brick fragments, little gravel, trace white Clay, trace coal-like fragments; Moist (Fill)		0	
3				
4	Grey coarse SAND and SILT, little brick fragments, little gravel, trace white Clay, trace coal-like fragments; Moist (Fill)		0	Sample from 4-6 ft. bls for BNs NYSDEC STARS TCLP.
5				
6	Grey coarse SAND and SILT, little brick fragments, little gravel, trace white Clay, trace coal-like fragments; Moist (Fill)		0	
7				Perched water encountered.
8	Grey coarse SAND, trace of rock fragments and SILT, trace of Clay at 10 feet bls.; Moist (Fill)		0	
9				
10				Bottom of Borehole.
11				
12				

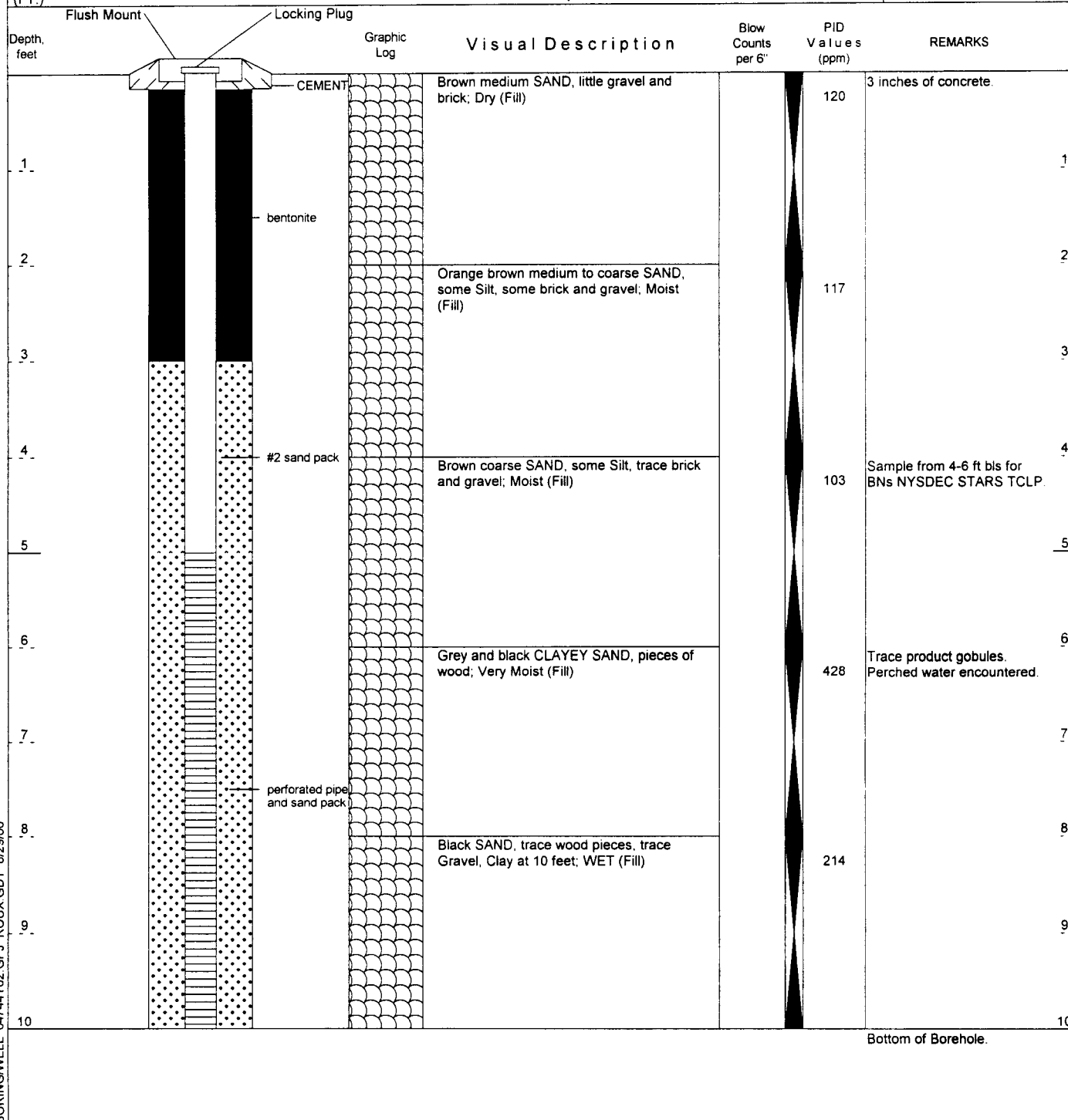
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WELL CONSTRUCTION LOG

WELL NO. MW-9		NORTHING		EASTING	
PROJECT NO./NAME 04744Y02 / Pfizer Inc			LOCATION Organics/Suciac Block		
APPROVED BY S. Glash		LOGGED BY N. Gorelick		Brooklyn, New York GEOGRAPHIC AREA Organics/Suciac Block	
DRILLING CONTRACTOR/DRILLER ADT / Chris Stratton			GEOGRAPHIC AREA Organics/Suciac Block		
DRILL BIT DIAMETER/TYPE 4 inch /	BOREHOLE DIAMETER 6-inches	DRILLING EQUIPMENT/METHOD Mobile Drill B-61 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 9/30/99-9/30/99	
CASING MAT./DIA. PVC / 2-inch	SCREEN: TYPE Slotted	MAT. PVC	TOTAL LENGTH 5.0	DIA. 2-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK #2 Sand Pack





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WELL CONSTRUCTION LOG

WELL NO. MW-10		NORTHING		EASTING	
PROJECT NO./NAME 04744Y02 / Pfizer Inc			LOCATION Organics/Suciac Block		
APPROVED BY S. Glash		LOGGED BY N. Gorelick		Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER ADT / Chris Stratton			GEOGRAPHIC AREA Organics/Suciac Block		
DRILL BIT DIAMETER/TYPE 4 inch /		BOREHOLE DIAMETER 6-inches		DRILLING EQUIPMENT/METHOD Mobile Drill B-61 / HSA	SAMPLING METHOD 2" Split Spoon
CASING MAT./DIA. PVC / 2-inch		SCREEN: TYPE Slotted		MAT. PVC	
ELEVATION OF: (FT.)		GROUND SURFACE		TOP & BOTTOM SCREEN	
		TOP OF WELL CASING		GW SURFACE	
				GRAVEL PACK	
				#2 Sand Pack	

Depth, feet	Flush Mount	Locking Plug	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
1				Grey medium to coarse SAND, little asphalt, little gravel; Slightly Moist (Fill)		2000+	3 inches of asphalt.
2				Dark grey medium to coarse SAND, little gravel, trace asphalt; Slightly Moist (Fill)		1785	Sample from 2-4 ft bls for BNs NYSDEC STARS TCLP.
3							
4				Grey to black medium to coarse SAND and SILT, trace gravel; Moist to Wet (Fill)		73.8	Perched water encountered
5							
6				Grey medium to coarse SAND with a green-grey CLAY, trace gravel; Moist (Fill)		102	
7							
8				Black SAND and Silt, some Brick, trace Asphalt, Clay at 10 feet; WET (Fill)		1783	Trace product globules.
9						876	
10							

Bottom of Borehole.

BORING/WELL 04744Y02 GPJ ROUX GDT 8/29/00



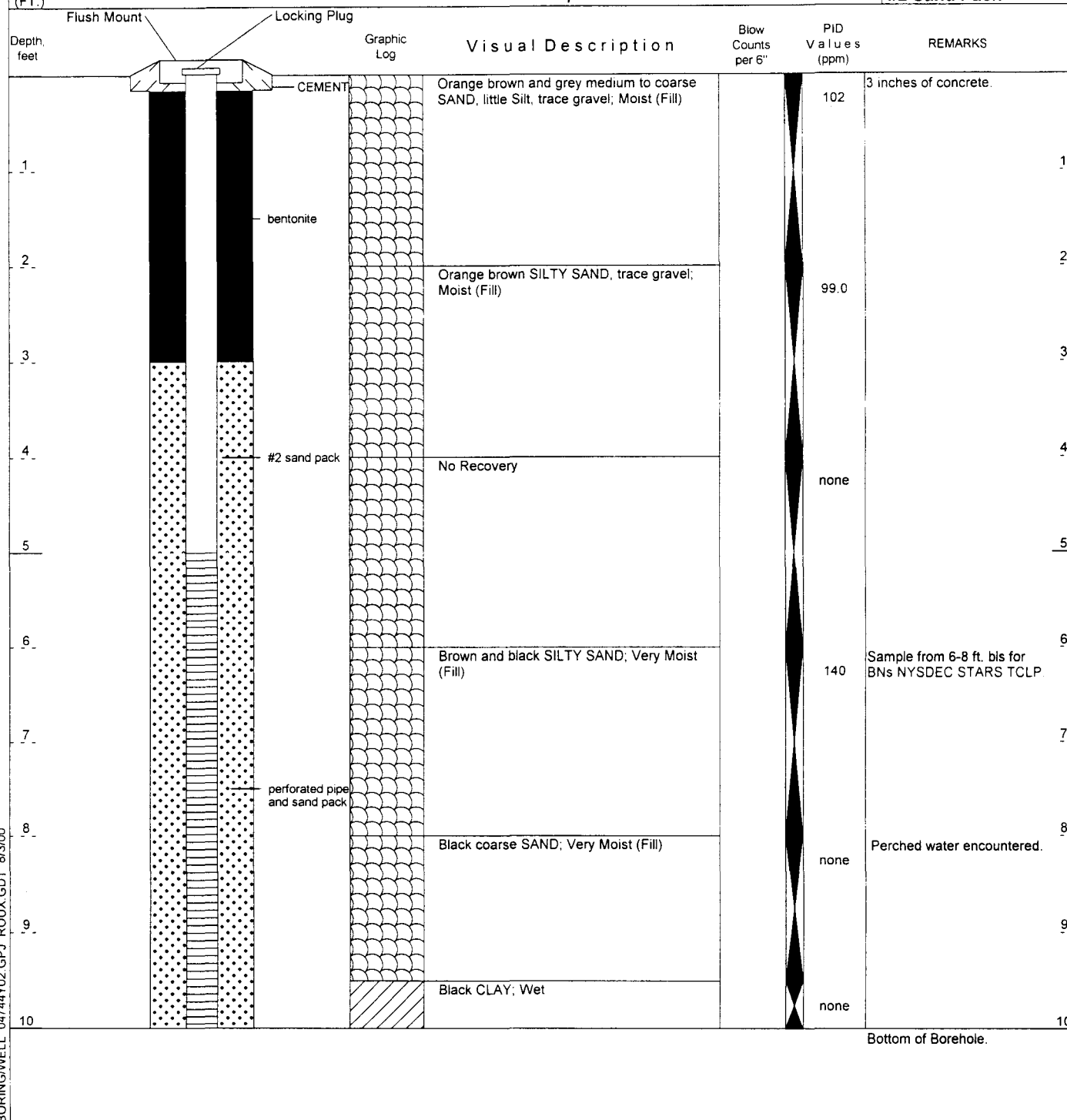
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WELL CONSTRUCTION LOG

WELL NO. MW-11	NORTHING	EASTING		
PROJECT NO./NAME 04744Y02 / Pfizer Inc		LOCATION Organics/Suciac Block		
APPROVED BY S. Glash	LOGGED BY N. Gorelick	Brooklyn, New York		
DRILLING CONTRACTOR/DRILLER ADT / Chris Stratton		GEOGRAPHIC AREA Organics/Suciac Block		
DRILL BIT DIAMETER/TYPE 4 inch /	BOREHOLE DIAMETER 6-inches	DRILLING EQUIPMENT/METHOD Mobile Drill B-61 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 9/29/99-9/29/99
CASING MAT./DIA. PVC / 2-inch	SCREEN: TYPE Slotted	MAT. PVC	TOTAL LENGTH 5.0	DIA. 2-inch SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN /	GW SURFACE GRAVEL PACK #2 Sand Pack



BORINGWELL 04744Y02.GPJ ROUX.GDT 8/3/00

APPENDIX B
Waste Classification Data

1
WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

WC-1

Lab Name: STL

Contract : _____

Lab Code: STL Case No.: 2949A

SAS No. : _____

SDG No. : A2949

Matrix (soil/water): SOIL

Lab Sample ID: 992949A-03

% Solids: 95.4

Date Received: 11/03/99

[illegible]

Comments:

TABLE GC-1.0
7099-2949A
ROUX ASSOCIATES
8082 POLYCHLORINATED BIPHENYLS (PCB's)
All values are ug/Kg dry weight basis.

Soil

Client Sample I.D.	Method Blank	PBLK10 QC	WC-1	Quant. Limits with no Dilution
Lab Sample I.D.	110599-B10	110599-B10QC	992949A-03	
Method Blank I.D.	PBLK10	PBLK10	PBLK10	
Quant. Factor	1.00	1.00	1.00	
Aroclor-1016	U	U	U	33.
Aroclor-1221	U	U	U	67.
Aroclor-1232	U	U	U	33.
Aroclor-1242	U	150X	U	33.
Aroclor-1248	U	U	U	33.
Aroclor-1254	U	U	U	33.
Aroclor-1260	U	150X	U	33.
Date Received			11/03/99	
Date Extracted	11/05/99	11/05/99	11/05/99	
Date Analyzed	11/09/99	11/09/99	11/10/99	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE VO-1.0
7000-1494A
ROUX ASSOCIATES
TCL VOLATILE ORGANICS

Aqueous

All values are ug/L.

Client Sample I.D.	Method Blank	DEWATER-1		Quant. Limits with no Dilution
Lab Sample I.D.	VBLKM4	001494A-01		
Method Blank I.D.	VBLKM4	VBLKM4		
Quant. Factor	1.00	1.00		
Chloromethane	U	U		10
Bromomethane	U	U		10
Vinyl Chloride	U	U		10
Chloroethane	U	U		10
Methylene Chloride	U	2J		5.0
Acetone	U	9J		10
Carbon Disulfide	U	U		5.0
Vinyl Acetate	U	U		10
1,1-Dichloroethene	U	U		5.0
1,1-Dichloroethane	U	U		5.0
cis-1,2-Dichloroethene	U	U		5.0
trans-1,2-Dichloroethene	U	U		5.0
Chloroform	U	U		5.0
1,2-Dichloroethane	U	U		5.0
2-Butanone	U	U		10
1,1,1-Trichloroethane	U	U		5.0
Carbon Tetrachloride	U	U		5.0
Bromodichloromethane	U	U		5.0
1,2-Dichloropropane	U	U		5.0
cis-1,3-Dichloropropene	U	U		5.0
Trichloroethene	U	U		5.0
Dibromochloromethane	U	U		5.0
1,1,2-Trichloroethane	U	U		5.0
Benzene	U	U		5.0
trans-1,3-Dichloropropene	U	U		5.0
Bromoform	U	U		5.0
4-Methyl-2-Pentanone	U	U		10
2-Hexanone	U	U		10
Tetrachloroethene	U	U		5.0
Toluene	U	U		5.0
1,1,2,2-Tetrachloroethane	U	U		5.0
Chlorobenzene	U	U		5.0
Ethylbenzene	U	U		5.0
Styrene	U	U		5.0
Xylene (total)	U	U		5.0
Date Received		07/17/00		
Date Extracted	N/A	N/A		
Date Analyzed	07/18/00	07/18/00		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

TABLE SV-1.0
7000-1494A
ROUX ASSOCIATES
TCL SEMI-VOLATILE ORGANICS

Aqueous
page 1 of 2

All values are ug/L.

Client Sample I.D.	Method Blank	DEWATER-1		Quant. Limits with no Dilution
Lab Sample I.D.	SBLKYS	001494A-01		
Method Blank I.D.	SBLKYS	SBLKYS		
Quant. Factor	1.00	1.06		
Phenol	U	U		10
Bis(2-Chloroethyl)ether	U	U		10
2-Chlorophenol	U	U		10
1,3-Dichlorobenzene	U	U		10
1,4-Dichlorobenzene	U	U		10
Benzyl alcohol	U	U		10
1,2-Dichlorobenzene	U	U		10
2-Methylphenol	U	U		10
2,2'-oxybis(1-Chloropropane)	U	14		10
4-Methylphenol	U	U		10
N-Nitroso-di-n-propylamine	U	U		10
Hexachloroethane	U	U		10
Nitrobenzene	U	U		10
Isophorone	U	U		10
2-Nitrophenol	U	U		10
2,4-Dimethylphenol	U	U		10
Benzoic acid	U	U		50
Bis(2-Chloroethoxy)methane	U	U		10
2,4-Dichlorophenol	U	U		10
1,2,4-Trichlorobenzene	U	U		10
Naphthalene	U	U		10
4-Chloroaniline	U	U		10
Hexachlorobutadiene	U	U		10
4-Chloro-3-methylphenol	U	U		10
2-Methylnaphthalene	U	U		10
Hexachlorocyclopentadiene	U	U		10
2,4,6-Trichlorophenol	U	U		10
2,4,5-Trichlorophenol	U	U		50
2-Chloronaphthalene	U	U		10
2-Nitroaniline	U	U		50
Dimethylphthalate	U	U		10
Acenaphthylene	U	U		10
2,6-Dinitrotoluene	U	U		10
3-Nitroaniline	U	U		50
Acenaphthene	U	.6J		10
Date Received		07/17/00		
Date Extracted	07/17/00	07/17/00		
Date Analyzed	07/18/00	07/18/00		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.0
7000-1494A
ROUX ASSOCIATES
TCL SEMI-VOLATILE ORGANICS

Aqueous
page 2 of 2

All values are ug/L.

Client Sample I.D.	Method Blank	DEWATER-1		Quant. Limits with no Dilution
Lab Sample I.D.	SBLKYS	001494A-01		
Method Blank I.D.	SBLKYS	SBLKYS		
Quant. Factor	1.00	1.06		
2,4-Dinitrophenol	U	U		50
4-Nitrophenol	U	U		50
Dibenzofuran	U	U		10
2,4-Dinitrotoluene	U	U		10
Diethylphthalate	U	U		10
4-Chlorophenyl-phenylether	U	U		10
Fluorene	U	U		10
4-Nitroaniline	U	U		20
4,6-Dinitro-2-methylphenol	U	U		50
N-Nitrosodiphenylamine (1)	U	U		10
4-Bromophenyl-phenylether	U	U		10
Hexachlorobenzene	U	U		10
Pentachlorophenol	U	U		50
Phenanthrene	U	2J		10
Anthracene	U	U		10
Carbazole	U	U		10
Di-n-butylphthalate	U	.3J		10
Fluoranthene	U	1J		10
Pyrene	U	1J		10
Butylbenzylphthalate	U	U		10
3,3'-Dichlorobenzidine	U	U		20
Benzo(a)anthracene	U	.5J		10
Chrysene	U	.4J		10
bis(2-Ethylhexyl)phthalate	.3J	2JB		10
Di-n-octylphthalate	U	U		10
Benzo(b)fluoranthene	U	.3J		10
Benzo(k)fluoranthene	U	.3J		10
Benzo(a)pyrene	U	.4J		10
Indeno(1,2,3-cd)pyrene	U	U		10
Dibenzo(a,h)anthracene	U	U		10
Benzo(g,h,i)perylene	U	U		10
Date Received		07/17/00		
Date Extracted	07/17/00	07/17/00		
Date Analyzed	07/18/00	07/18/00		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE AS-1.0
7000-1494A
ROUX ASSOCIATES
RCRA METALS

Aqueous

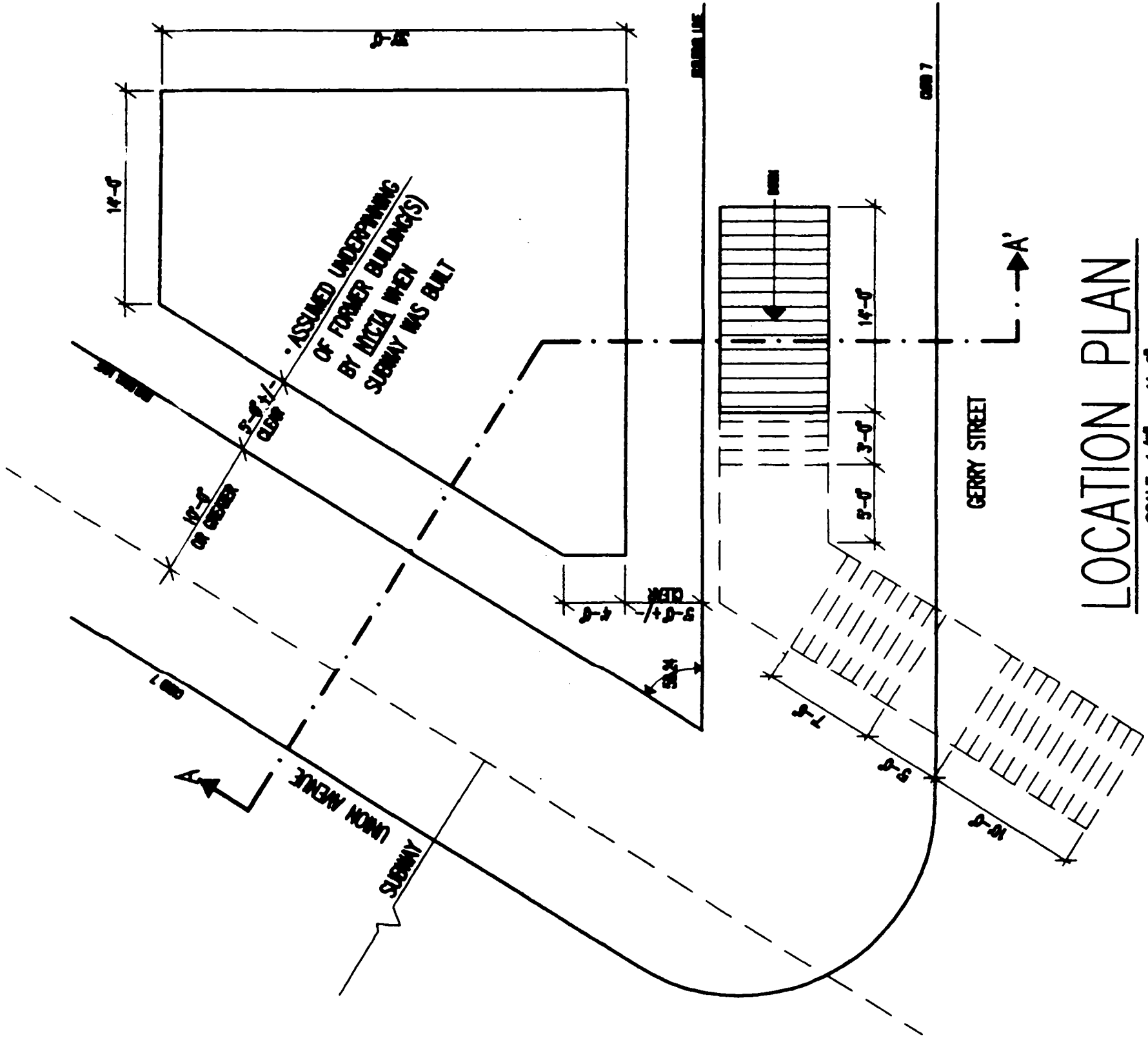
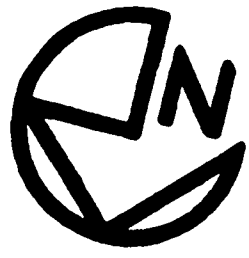
All values are ug/L.

Client Sample I.D.	DEWATER-1			
Lab Sample I.D.	001494A-01			
Arsenic	10.1			
Barium	315.			
Cadmium	5.00			
Chromium	10.00			
Lead	64.9			
Mercury	0.30			
Selenium	5.00			
Silver	10.00			

See Appendix for qualifier definitions

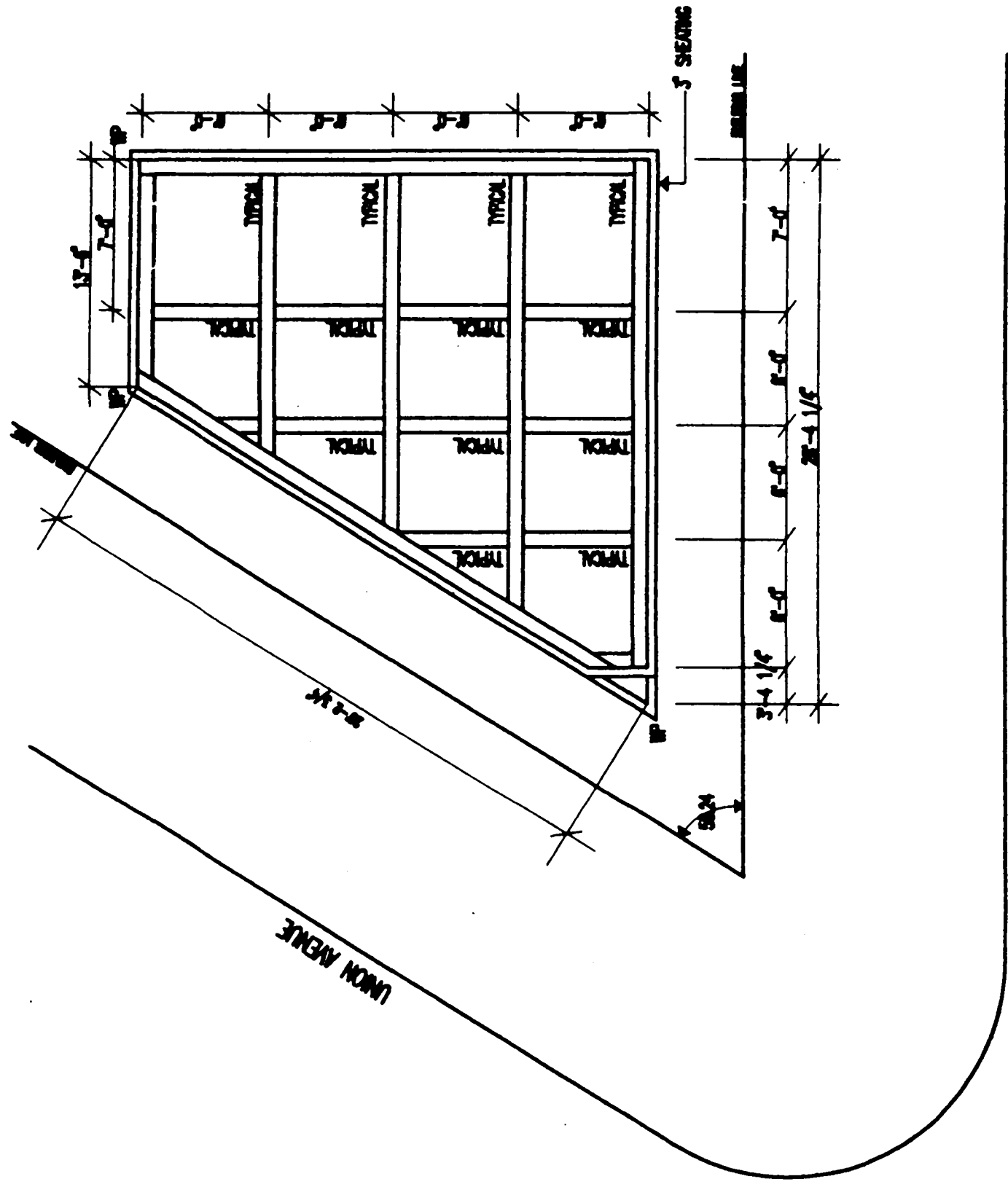
APPENDIX C

Shoring Design



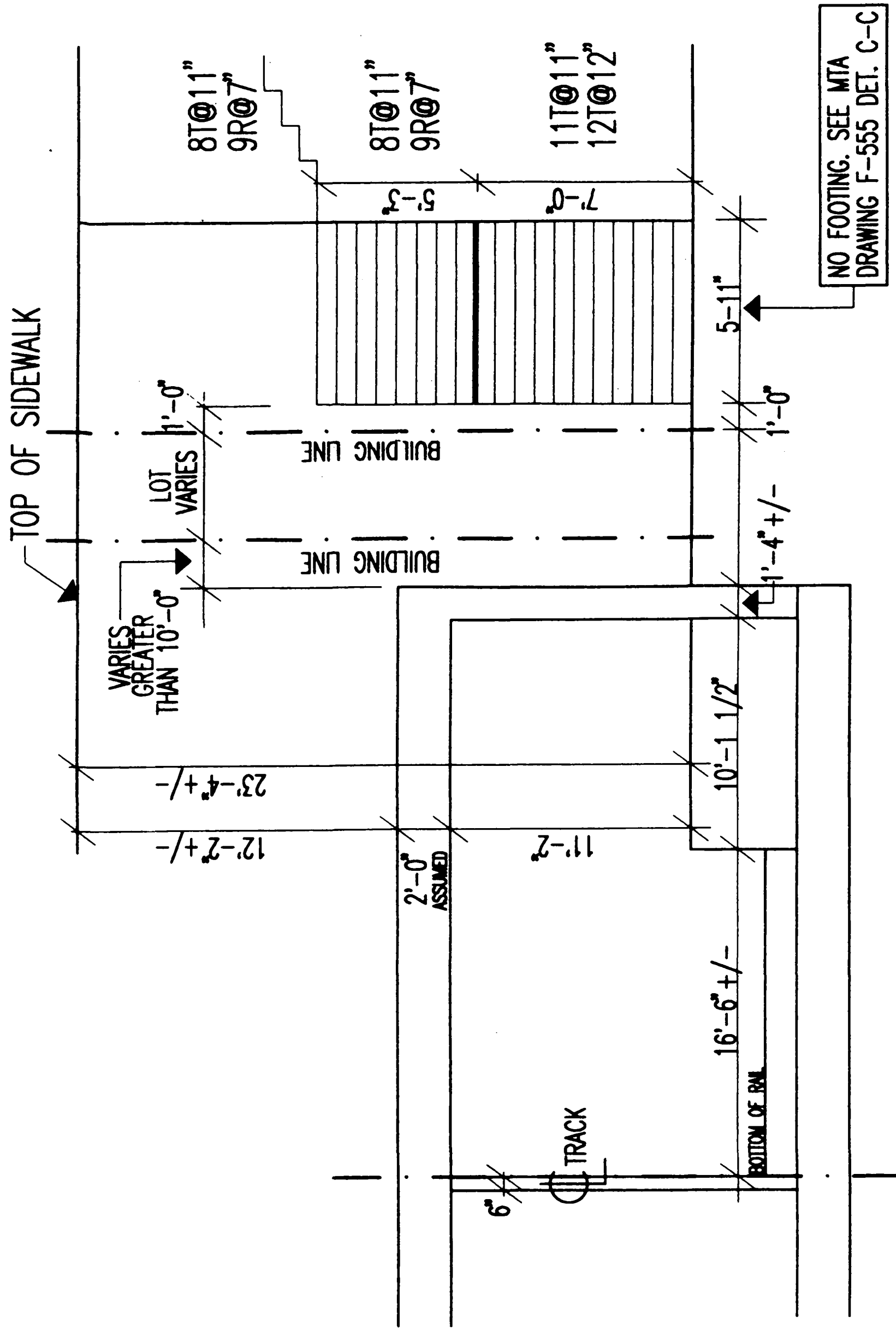
LOCATION PLAN

SCALE: 1/8" = 1'-0"



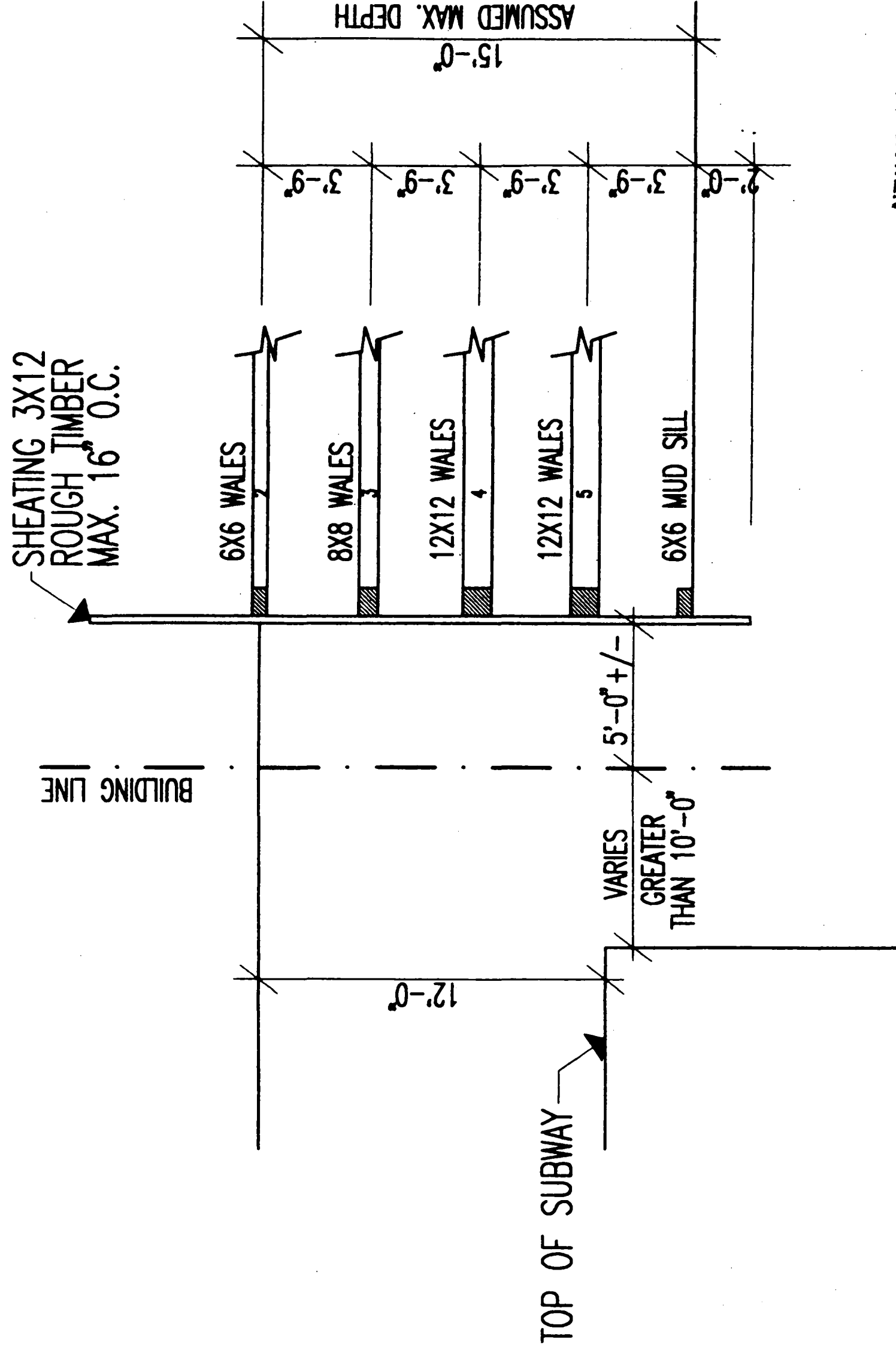
SHEATING PLAN

SCALE: 1/8" = 1'-0"



SECTION A-A'

SCALE: 1/8" = 1'-0"



SUPPORT DETAIL

SCALE: 1/8" = 1'-0"

NEW YORK CITY
TRANSIT AUTHORITY
To be Effect at
Approved MAY 7, 1998 Transit Facilities
Only
OUTSIDE PROPOSALS
ENGINEERING SERVICES DIVISION



DATE 05/19/00
PROJECT 000701
CHK. BY FLP
DWG. BY GED

SCALE IS NOTED

DRAWING NUMBER

A-1

SHEET NUMBER 3 OF 1

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ARCHITECT FRANK LO PRESTO, P.C. A.I.A.

ISSUE / REVISION
NO. DATE DESCRIPTION

PROJECT

PFIZER-BROOKLYN
35-47 GERRY STREET

DRAWING TITLE

SOIL REMOVAL
PLAN AND DETAILS

ARCHITECT
FRANK LO PRESTO
P.C. A.I.A.

ARCHITECTURE ENGINEERING
INTERIOR DESIGN
38 COURT STREET SUITE 908
BROOKLYN, NEW YORK 11201

(718 625-2481)

NYC TRANSIT
GENERAL NOTES

NOTE: The appropriate notes are to be made part of the Project's Contract Drawings.

- The NYC Transit Agency reserves the right to place inspectors, flagmen or other personnel in the subway structure during construction. The contractor shall provide a telephone system, if deemed necessary, to observe the effects of the construction on the transit facilities. It is expected that such personnel will be necessary when the construction comes within twenty-five feet of the subway structure. However, NYC Transit reserves the right to place such personnel whenever, in its opinion, the project conditions warrant such placement, regardless of distance. The cost of such personnel, telephone system and any reroutes, diversions or service, work trains, etc., made necessary by the project, must be borne by the Project or the responsible New York City/State Agency.
- All rock excavation adjacent to the transit structure is to be channel drilled two feet below subgrade.
- If top of rock is found below subway structure, the subway structure must be underpinned in accordance with drawings to be submitted to NYCT for approval.
- If rock is soft or sandy, lateral supports must be provided below the subway structure in accordance with drawings to be submitted to NYCT for approval.
- Blasting will be permitted only with light charges subject to the approval of NYCT's Engineer and in accordance with the regulations of the Fire Department. The contractor shall provide a detailed monitoring plan, providing for measurements of ground vibration, air blast, and ground displacement at critical locations of the NYCT structure. The monitoring plan shall be submitted to NYCT for approval. The contractor shall secure an approved seismologist to install and maintain seismic velocity gauges to continuously monitor particle velocity and an independent licensed surveyor to monitor displacements. The threshold maximum particle velocity above ambient caused by the blasting will be 0.5 inch per second. Values exceeding this level will be reviewed and evaluated by NYCT's Engineer. In no case will particle velocities exceed the upset level of 2.0 inches per second.
- Before placing concrete, the subgrade of the foundations in the vicinity of the subway structure is to be inspected and approved by NYCT's Engineer.
- If any portion of the subway structure or finish is damaged, it shall be repaired or replaced with the same materials in place, subject to the approval of NYCT's Engineer and at the expense of the Project.
- Excavation embankments are to be stored and braced. Drawings indicating a suggested method of construction are to be submitted to NYCT for approval in connection with the project's contract drawings. In case of excavation adjacent to the subway structure, underpinning may be required. Drawings for underpinning are to be submitted to NYCT for approval.
- Temporary shoring may be placed in direct contact with NYCT structures only if the NYCT structure is shown to be able to support all anticipated loads that can be transferred to it by temporary structures without damaging the existing structure. At the completion of the project, the temporary shoring and bracing systems are to be removed or cut-off as approved by NYCT.
- Construction work done near vent gratings and hatches shall be as follows:
 - Unless approved by the NYCT's Engineer, all vent gratings and hatches should remain outside the construction site, separated by a construction fence. Protective shields must be provided over vent gratings as required by NYCT's Engineer.
 - No building material, vehicles or construction equipment is to be stored or run on vent gratings, hatches or emergency exits.
 - Partitions and vent gratings, hatches and emergency exits are to be submitted to NYCT for approval.
- Tractors, cranes, excavators, etc. used in the vicinity of the elevated structures shall be isolated from the ground. Since the elevated structure is used as a negative return path, with a consequent potential between it and the ground, any contact between the structure and grounded equipment could result in burning of the steel.
- Temporary construction sheds, barricades or plywood partitions must be a minimum of 5'-0" from edge of finished platform.
- Stairway/Entrance Closings: The general requirements for Stairway/Entrance closings are as follows:
 - Only one stairway at each station will be permitted to be closed at the same time. Approvals for closing any stairway must be obtained from the Division of Station Management.
 - Mr. Branko Vavra, P.E., Director, Office of Station Programs; Telephone (718) 243-3579 of the Division of Stations must be notified one week prior to the actual closing and reopening of the entrance.
 - Ample signage must be supplied and posted at least one week in advance, advising the public of the proposed subway stair closing.
 - The street entrances stairway should not be closed unless manpower and materials are available to commence work on dates permitted.
 - At the locations of the proposed stair closing, the contractor must be placed at appropriate locations on the barricades or the street signs, mezzanine level, and the contractor's name, 24 hour emergency telephone number, contract number, the duration of the closing, direction to an alternate entrance/exit, and an apology for the inconvenience to our customers.
 - Existing station signage must be adjusted to reflect any changes in access/egress.
 - Barricades are to be painted and kept graffiti free at all times. The contractor must maintain the barricaded area clear of all debris.
 - Signage must be placed away from passenger traffic.
 - The contractor must remove all waste material and barricades from all station areas when construction is completed.
 - Inspection of the area under construction by authorized Station Department employees shall not be inhibited.
 - If street lights on the sidewalks are affected, temporary lights shall be provided.
 - If new concrete construction is joined to existing concrete, dowels and keyways are to be used in accordance with NYCT Standards.
- If the project involves construction or alteration of a subway facility on private property, the property owners will be required to enter into an agreement with NYCT pertaining to all work affecting the transit facilities and clearly defining limits and responsibility for maintenance and liability.

- When piles are to be driven adjacent to the subway structure, boring data, pile layouts, specifications and installation procedures are to be submitted to NYCT for approval. Velocity meters are to be installed in the subway tunnel at critical locations to monitor induced vibrations. Induced displacements along the tunnel structure and track invert are to be monitored during driving. The threshold maximum particle velocity above ambient caused by the driving will be 0.5 inch per second. Values exceeding this level will be reviewed and evaluated by NYCT's Engineer. In no case will particle velocities exceed the upset level of 2.0 inches per second.
- No piles are permitted to be installed by any method within three feet of subway structure, measured from the edge of the pile or casing to the wall. Cased-end piles will not be permitted to be driven within ten feet of the subway structure.
- All piles are to be placed within a preaugered cased hole to the influence line. The casing shall be cleaned without disturbing the soil outside the casing and the pile to be placed within the casing for installation. The piles may then be driven beyond the influence line within the casing.
- The influence line shall start at the bottom of the subway structure and extend at a 1:1 slope. For piles installed within ten feet of the subway structure, the casing shall be extended up to the bottom of the subway structure.
- At the completion of pile installation, the space between the pile and the casing is to be filled with either clean sand or grout. If the casing is to be removed, the filling must be completed prior to removal of the casing.
- All piles are to be driven a minimum of ten feet below the intersection of the pile center line and the influence line of the subway structure.
- The use of "down-the-hole-hammers" for installation of piles through overburden and fill will be permitted only to remove boulders. It will not be permitted to be driven to advance the hole. Their use to construct rock sockets will not be allowed within 5 feet of the NYCT structure.
- Vibratory hammers will not be permitted within 75 feet of subway structures. Hoarans will not be permitted within 25 feet of subway structures.
- Dynamic compaction methods using dropped heavy weights cannot be conducted within 1000 feet of any NYCT structure unless it is shown that induced settlements and vibrations will not damage these structures. A suitable monitoring plan including soil and vibration measurements must be approved by NYCT's Engineer for all such operations within these distances.
- There shall be no machine excavation within 3 feet of NYCT structures, power duct lines, or any other facilities until they have been carefully exposed by hand excavation.
- All dewatering operations conducted within 500 feet of the NYCT structure must be approved in accordance with drawings and procedures submitted to NYCT for approval. The contractor shall submit a dewatering plan indicating the location of the dewatering, the depth of the dewatering, the radius of influence of the dewatering program must be shown to have negligible influence on settlements of the NYCT structure.
- Subway entrances (ventilators, etc.) are to be underpinned or shored and braced if directed by NYCT's Engineer.

June 1999

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32. Construction work done near vent gratings and hatches shall be as follows:

- Unless approved by the NYCT's Engineer, all vent gratings and hatches should remain outside the construction site, separated by a construction fence. Protective shields must be provided over vent gratings as required by NYCT's Engineer.
- No building material, vehicles or construction equipment is to be stored or run on vent gratings, hatches or emergency exits.
- Partitions and vent gratings, hatches and emergency exits are to be submitted to NYCT for approval.

33. Tractors, cranes, excavators, etc. used in the vicinity of the elevated structures shall be isolated from the ground. Since the elevated structure is used as a negative return path, with a consequent potential between it and the ground, any contact between the structure and grounded equipment could result in burning of the steel.

34. Temporary construction sheds, barricades or plywood partitions must be a minimum of 5'-0" from edge of finished platform.

35. Stairway/Entrance Closings: The general requirements for Stairway/Entrance closings are as follows:

- Only one stairway at each station will be permitted to be closed at the same time. Approvals for closing any stairway must be obtained from the Division of Station Management.
- Mr. Branko Vavra, P.E., Director, Office of Station Programs; Telephone (718) 243-3579 of the Division of Stations must be notified one week prior to the actual closing and reopening of the entrance.
- Ample signage must be supplied and posted at least one week in advance, advising the public of the proposed subway stair closing.
- The street entrances stairway should not be closed unless manpower and materials are available to commence work on dates permitted.
- At the locations of the proposed stair closing, the contractor must be placed at appropriate locations on the barricades or the street signs, mezzanine level, and the contractor's name, 24 hour emergency telephone number, contract number, the duration of the closing, direction to an alternate entrance/exit, and an apology for the inconvenience to our customers.
- Existing station signage must be adjusted to reflect any changes in access/egress.
- Barricades are to be painted and kept graffiti free at all times. The contractor must maintain the barricaded area clear of all debris.
- Signage must be placed away from passenger traffic.
- The contractor must remove all waste material and barricades from all station areas when construction is completed.
- Inspection of the area under construction by authorized Station Department employees shall not be inhibited.
- If street lights on the sidewalks are affected, temporary lights shall be provided.
- If new concrete construction is joined to existing concrete, dowels and keyways are to be used in accordance with NYCT Standards.

general.doc

June 1999

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22. NYCT, at its discretion, reserves the right to require the project to close or maintain and protect existing subway entrances, ventilators, etc. adjacent to the project during construction. Such construction may include underpinning, shoring, bracing and erection of suitable barricades and/or canopies and shields. Such protection shall be in accordance with drawings submitted to NYCT for approval.

23. If shields are to be installed to protect NYCT facilities and/or the public, plans showing the location, type and method of attachment to the transit structure must be submitted to NYCT for approval.

24. All lumber and plywood used for protection of subway facilities must be fire retardant.

25. Subway emergency exits must be kept clear at all times.

26. In excavating over or near the subway roof, special care shall be exercised so that the thin concrete protection of the subway waterproofing is not damaged.

27. Burning of, welding to or drilling through existing steel structures will not be permitted except as shown on drawings approved by NYCT.

28. Horizontal and vertical control survey data of the existing NYCT structure is to be used for all construction. The contractor shall submit a plan showing that control during construction and to show that the induced movements are within allowables provided and approved by NYCT's Engineer. If any movements exceed allowables, remediation as approved by NYCT shall be performed.

29. Bus routes affected by the project will or may require bus diversions. These arrangements shall be made through:

Mr. Larry Gould, Director, Operations Analysis
New York City Transit
Livingston Street, Room 3033F
Brooklyn, New York 11201

Attention: Karl Stricker - Superintendent, Special Operations
Telephone Number (718) 694-5655

When impacting any bus stop, Special Operations must be notified two weeks in advance.

30. Duct lines must be maintained and protected during construction. Any interference with duct lines should be reported to NYCT Inspector. When a duct line containing cables is to be removed, or when masonry adjacent thereto is to be removed, penetrated, or drilled, the work shall be done with hand labor entirely, using hammer and chisel. Jackhammers, bull points or other power equipment shall not be used.

31. Where manholes are encountered:

- They shall be protected and raised or lowered as required, to match the new street grade.
- If manhole covers are raised or lowered, protect cables in manhole by wood sheeting of 2" nominal thickness.
- Prior to the start of construction operations affecting manholes and duct lines, seven days notice must be given to Mr. M. Fradua, Manager, Department of Maintenance of Way, at (718) 243-4358.

June 1999

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SOIL REMOVAL PROCEDURE

- TRENCH SOIL AND PLACE TO TOP WALES TO LINE UP WITH INTERIOR OF SHEATING.
- TRENCH AND PLACE TOP STRUTS (BRACING) AGAINST WALES.
- CRIB FULL SIZE 3'X12'X20FT. SHEATING EXTERIOR TO THE PLACED WALES TO A DEPTH OF APPROXIMATELY FIVE (5) FEET. DO NOT FIX WALES.
- BEGIN EXCAVATION WITH IN ENCLOSURE STARTING AT PERIMETER LEAVING THE CENTER AREA UNTIL THE NEXT LEVEL OF WALES ARE INSTALLED.
- TERMINATE EXCAVATION AT BOTTOM OF SECOND LEVEL OF WALES AND INSTALL SAME. AFTER CENTER SEGMENT OF EXCAVATION IS COMPLETED INSTALL STRUTS TO KEEP TOP WALES FROM DROPPING INTO A DIFFERENT POSITION.
- CRIB SHEATING AN ADDITIONAL FOUR (4) FEET.
- SAME AS STEP #4.
- TERMINATE EXCAVATION AT BOTTOM OF THIRD LEVEL OF WALES AND INSTALL SAME WITH STRUTS (BRACING). INSTALL 8'X8' POSTS BETWEEN THE SECOND AND THIRD SET OF WALES AT EVERY OTHER STRUT IN ORDER TO KEEP THE SETS OF WALES FROM DROPPING.
- CRIB SHEATING AN ADDITIONAL FOUR (4) FEET.
- SAME AS STEP #4.
- TERMINATE EXCAVATION AT BOTTOM OF FOURTH LEVEL OF WALES AND INSTALL SAME. AFTER CENTER SEGMENT OF EXCAVATION IS COMPLETED INSTALL 8'X8' POSTS BETWEEN WALES AT EVERY OTHER STRUT IN ORDER TO KEEP TOP WALES FROM DROPPING.
- CRIB SHEATING AN ADDITIONAL FOUR (4) FEET.
- SAME AS STEP #4.
- TERMINATE EXCAVATION AT BOTTOM OF FIFTH LEVEL OF WALES WHICH WILL BE SILL FOR THIS LEVEL. INSTALL STRUTS AND 8'X8' POSTS BETWEEN THE FIFTH AND SIXTH LEVEL OF WALES. AFTER CENTER SEGMENT OF EXCAVATION IS COMPLETED INSTALL STRUTS AT EVERY OTHER STRUT IN ORDER TO KEEP TOP WALES FROM DROPPING INTO DIFFERENT POSITION.
- CRIB SHEATING TO THE DEPTH BELOW SILL AS SHOWN ON ELEVATION.
- EXCAVATION TO THE LEVEL SHOWN MAX. DEPTH FIFTEEN (15) FEET IF, AFTER AS DETERMINED BY LABORATORY, CONTAMINATION NO LONGER EXISTS.

NEW YORK CITY

TRANSIT AUTHORITY

Is in Effect 12/1/99

Technical Facilities

Approved: MAY 21 1999

OUTSIDE PROJECTS DIVISION

ENGINEERING SERVICES DIVISION

REFERENCE DRAWINGS
MTA REEL 170

SEE DWG. T-2 FOR BACKFILL
OPERATION PROCEDURES

SCALE
NO SCALE

DRAWING NUMBER

T-1

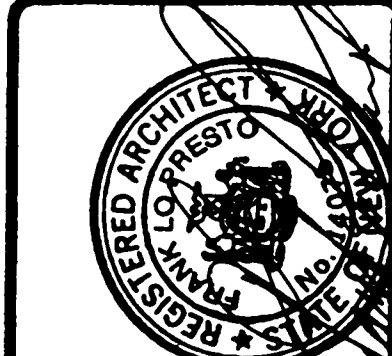
SHEET NUMBER 1 OF 3

CONTRACTOR
UNIVERSITY FRAME LO PRESTO, P.C. A.I.A.

ISSUE / REVISION
NO. DATE DESCRIPTION

ARCHITECT
FRANK LO PRESTO
P.C. A.I.A.

ARCHITECTURE ENGINEERING
INTERIOR DESIGN
32 COURT STREET SUITE 908
BROOKLYN, NEW YORK 11201
(718 625-8481)



DATE 05/19/00
PRELIMINARY 06/07/01
CHK BY
FLP
DWG. BY
GED

CATEGORY VI
\$2 MILLION PROTECTIVE LIABILITY INSURANCE (I)

Agencies with railroad exposures should require Railroad Protective Liability coverage while other Agencies not engaging in railroad operations should require Owners Protective Liability coverage

- Contracts Capital In Nature - NO REQUIREMENT NECESSARY
 - Coverage provided under All-Agency Protective Liability Policy.
- Contracts Non-Capital In Nature
 - Requirement up to the discretion of the Agency Risk Manager.
- Hazardous work performed on or adjacent to Agency property but not for the benefit of the Agency.
 - Protective coverage must be required. (I)

NOTES

Operating Agency and the Authority must be Named Insured.

Railroad Protective should be written on AASHO or ISO-RMA policy forms.

- (I) Excess limits of \$3 million are provided by the All Agency Protective Liability Policy generating a total limit of liability of \$5 million.
- (I) Self-assumption of the coverages usually provided by the commercial Protective Liability policy by the City of New York is allowed. A letter stating willingness to self-assume the risks must be provided.

1. A Commercial General Liability insurance policy (U.S.O. Form CG 00 11 18 or equivalent) in the Contractor's name with the New York City Transit Authority (NYCTA), Manhattan and Bronx Surface Transit Operating Authority (MBSTOA), Staten Island Rapid Transit Operating Authority (SIRTOA), Metropolitan Transportation Authority (MTA), its subsidiaries and affiliated companies, the City of New York and all other indemnified parties included in the contract as Additional Insureds (U.S.O. Form CG 20 10) with limits of liability of \$2,000,000 each occurrence on a combined single limit basis (aggregate must be at least \$4,000,000) for injuries (bodily injuries, including death and personal injuries) to persons and for damage to property. Such policies shall include Contractual Coverage for liability assumed by the Contractor (including construction work within the priority to railroad tracks and property, if applicable, and coverage for bodily injury sustained by an employee of the contractor) under the indemnity provision of the Contract coverage for "CUT" risks (Explosion, Collapse and Underground hazards), Products - Completed Operations coverage, Independent Contractors coverage, and shall not contain any other exclusion unacceptable to the Authority and Contracting Party.

2. A Railroad Protective Liability (or Owner's Protective Liability if no railroad exposure) policy will be required, at the discretion of the Authority, if the Authority deems the work "hazardous" to its property. The Protective Liability insurance policy (U.S.O. Form CG 00 35 11 05 or equivalent) must name the New York City Transit Authority (NYCTA), Manhattan and Bronx Surface Transit Operating Authority (MBSTOA), Staten Island Rapid Transit Operating Authority (SIRTOA), Metropolitan Transportation Authority (MTA), its subsidiaries and affiliated companies, the City of New York and all other indemnified parties as Named Insureds with limits of liability of \$2,000,000 each occurrence on a combined single limit basis (aggregate must be at least \$4,000,000) for injuries (bodily injuries, including death and personal injuries) to persons and for damage to property and physical damage to all property owned by, leased by or in the care, custody and control of the Authority.

3. An Automobile and Truck Liability insurance policy in Contractor's name with the New York City Transit Authority (NYCTA), Manhattan and Bronx Surface Transit Operating Authority (MBSTOA), Staten Island Rapid Transit Operating Authority (SIRTOA), Metropolitan Transportation Authority (MTA), its subsidiaries and affiliated companies, the City of New York and all other indemnified parties included in the contract as Additional Insureds with limits of liability of \$2,000,000 each occurrence on a combined single limit basis for claims for bodily injuries (including death) to persons and for damage to property arising out of the ownership, maintenance or use of any owned, hired or non-owned motor vehicle.

4. Worker's Compensation insurance (including Employer's Liability Insurance with limits of not less than \$1,000,000) meeting the Statutory limits of the New York State.

5. Any additional insurance policies necessary to obtain required permits or otherwise comply with applicable law, ordinances or regulations regarding the performance of the work.

INSURANCE CLAUSES

Responsibility of the Contractor. The Contractor shall be solely responsible for the safety and protection of the rapid transit subway lines and of all passengers, persons, or employees and of all property thereon.

(a) The Contractor shall be solely responsible for all injuries (including death) to persons (including, but not limited to, employees of the Contractor and subcontractors are employees of The City of New York (hereinafter called the City) or the New York City Transit Authority (hereinafter called the Authority) or damage to property (including, but not limited to, Property of the City, the Authority or the Contractor or subcontractors) occurring on account of or in connection with performance of the work hereunder and shall indemnify and save harmless the City and the Authority from loss and liability upon any and all claims on account of such injuries to persons or damage to property, and from all costs and expenses in suits which may be brought against the City and/or the Authority on account of any such injuries to persons or damage to property, irrespective of the actual cause of the accident and irrespective of whether it shall have been due to negligence of the Contractor or his subcontractors or negligence of the City or the Authority, their respective agents, servants or employees, or of any other person, but excepting injuries and property damage caused by or resulting from the sole negligence of the City and/or the Authority acting as agent of the City hereunder. The term "loss and liability", as used above, shall be deemed to include, but not to be limited to, liability for the payment of Worker's Compensation Benefits under the Worker's Compensation Law of the State of New York, and the Contractor specifically covenants to reimburse the Authority and the City for all payments of Worker's Compensation Benefits, including but not limited to benefits paid to employees of the Authority and the City which the Authority or the City shall be required to make to any employee who shall claim to have sustained injuries on account of or in connection with the work hereunder, whether or not such injuries shall have been sustained as a result of negligence of the Contractor, his subcontractors, the Authority or the City, their respective agents, servants or employees, or negligence of the injured employee, but excepting bodily injuries and property damage caused by or resulting from the sole negligence of the City and/or the Authority acting as agent of the City hereunder.

(b) The Contractor shall be solely responsible for the support, maintenance, safety and protection of the transit facilities of the New York City Transit System (hereinafter called the Railroad) and for the safety and protection of all persons, passengers, including passengers or employees and other persons, and of all property therein, and he shall be solely responsible and liable for any injury and damage thereto and for all injuries to persons or damage to property thereon occurring on account of or in connection with the performance of work under this contract whether due to the negligence, fault or default of the Contractor or not.

6. Contractor waives, and will require any and all subcontractor(s) to waive, any right of recovery for property damage (including, but not limited to, equipment, materials and any loss due to business interruption) against the New York City Transit Authority (NYCTA), Manhattan and Bronx Surface Transit Operating Authority (MBSTOA), Staten Island Rapid Transit Operating Authority (SIRTOA), Metropolitan Transportation Authority (MTA), and all of its subsidiaries and affiliated companies, the City of New York and any other indemnified parties included in the contract and agrees to effect a waiver of subrogation in favor of the above on all policies of insurance covering property (including, but not limited to, equipment, materials and any loss due to business interruption) owned, hired or in the care, custody or control of the contractor or subcontractor(s).

Revised: Nov. 1987/87

The Contractor shall fully protect and indemnify the City and the Authority from loss and from liability upon any and all claims on account of damage to the Railroad, or on account of such injuries to passengers, intending passengers, employees or other persons or damage to property, or on account of interruption of train operation, or on account of any work done by the Contractor on or affecting the Railroad, and from any costs and expenses in suits which may be brought against the City and/or the Authority for such injuries or damage.

(c) In case any damage shall occur to any part of the Railroad on account of or in connection with the work hereunder, and the Contractor is responsible therefore pursuant to paragraph (a) hereof, the City and/or the Authority shall have the right to cause such damage to be repaired and charge the expense of such repairs to the Contractor and to be reimbursed for the amount of such expense from any moneys due or becoming due to the Contractor hereunder.

(d) Approval by the Chief Engineer, Maintenance of Way, of the methods of doing the work or the failure of the Chief Engineer, Track & Structures, to call attention to improper or inadequate methods or to require a change in methods or to direct the Contractor to take any particular precaution or to refrain from doing any particular thing shall not excuse the Contractor in case of any such injury to person or damage to property.

It is understood and agreed that if during the course of the work under this contract, watchmen, flagmen and other employees of the City and/or the Authority are assigned to perform work in connection therewith, such employees are to be considered as employees of the Contractor.

(e) The Contractor shall procure, at its sole cost and expense, and shall maintain in force at all times until final acceptance by the Authority, policies of insurance as herein below set forth, written by companies approved by the Authority and shall deliver to the Authority evidence of such policies. A Certificate of Insurance may be supplied as evidence of such policies, however, if requested by the Authority, the Contractor shall deliver to the Authority a copy of such policies, certified by the insurer as being a true and complete copy. The Certificate of Insurance and Insurance policies must (1.) indicate the U.S.O. Form used by the carrier; (2.) be signed by an authorized representative of the broker or the insurance carrier; (3.) disclose any deductibles, self-insured retention (deductibles or self-insured retentions above \$25,000 will require approval from the Authority), aggregate limit or any exclusions to the policy that materially change the coverage; (4.) indicate that the NYCTA, MBSTOA, SIRTOA, MTA, its subsidiaries and affiliated companies and the City of New York and all other indemnified parties included in the contract are named as Additional Insureds on all policies (except Worker's Compensation or Professional Liability); (5.) reference the contract on the face of the certificate; (6.) include a special cancellation provision which shall read "The Authority is interested in the maintenance of this insurance, and it is agreed that this insurance will not be cancelled, materially changed or not renewed without at least 30 days prior written notice to the Authority, attention Director - Risk Management, Room 10094, 130 Livingston Street, Brooklyn, New York 11201, by Certified Mail, return receipt requested; and (7.) indicate that the coverage afforded under the policies shall apply as primary and not excess or contributing basis with any policies which may be available to the Authority. At least two weeks prior to the expiration of the original policies or any renewals thereof, evidence of renewal or replacement policies of insurance, with the same terms and limits as expiring, shall be delivered to the Authority.

BACKFILL OPERATION PROCEDURES

1. REMOVE MID STILL. BACK OFF REMAINING TO FIFTE LEVEL OF WALKS WHILE PERFORMING BACKFILL OPERATION. BACKFILL IN LAYERS OF 1'-0" WITH CLEAN COMPACTED SAND.
2. REMOVE WALKS AND BACK OFF REMAINING TO LEVEL OF NEXT UPPER LAYERS OF 1'-0" WITH CLEAN COMPACTED SAND.
3. REPEAT OPERATION OF NUMBER 2 AT EACH LEVEL OF WALKS TO LEVEL OF EXISTING FINAL GRADE.

NEW YORK CITY
TRANSIT AUTHORITY
As in Effect On
Approved: MAY 31 1990 Transit Facilities
Outside Projects
ENGINEERING SERVICES DIV/3011

REFERENCE DRAWINGS
MTA REEL 170

PROJECT :
PFIZER-BROOKLYN
35-47 GERRY STREET
DRAWING TITLE
PROTECTIVE
LIABILITY INSURANCE

ARCHITECT
FRANK LO PRESTO
P.C. A.I.A.
ARCHITECTURE ENGINEERING
INTERIOR DESIGN
32 COURT STREET SUITE 908
BROOKLYN, NEW YORK 11201
(718 625-2481)

DATE
05/19/90
ROLLNO.
000702
CHKD BY
FLP
DWG BY
GCD
SCALE
NO SCALE

DRAWING NUMBER
T-2
SHEET NUMBER 2 OF 3

APPENDIX D

Waste Tracking Information

Disposal Tracking Form
Pfizer Inc, Organics/Suciac Block, Brooklyn, New York

DATE	TRUCK LICENSE PLATE #	TRAILER LICENSE PLATE #	TRUCK NUMBERS	MANIFEST/ FORM NUMBER	TSDF	WASTE PROFILE CODE (if available)	WEIGHT (tons)	GENERAL DESCRIPTION & COMMENTS	INITIALS
7/12/2000	28678A	NA	NA	58211	110 Sand ⁽¹⁾	NA	15 ⁽²⁾	Concrete	KS
7/14/2000	28678A	NA	NA	54951	110 Sand ⁽¹⁾	NA	2 ⁽²⁾	Concrete	KS
7/13/2000	4469PB	T50H3T	11	42300	R3 Technologies ⁽³⁾	CAP9909010PH	40.50	Fill Material	KS
7/13/2000	4470PB	T51H3T	55	42301	R3 Technologies ⁽³⁾	CAP9909010PH	24.02	Fill Material	KS
7/14/2000	4339PB	T51H3T	6	42302	R3 Technologies ⁽³⁾	CAP9909010PH	41.62	Fill Material	KS
7/15/2000	AC738V	T45C1K	13	42303	R3 Technologies ⁽³⁾	CAP9909010PH	37.41	Fill Material	KS
7/16/2000	4469PB	T50H3T	11	42304	R3 Technologies ⁽³⁾	CAP9909010PH	42.52	Fill Material	KS
7/17/2000	4470PB	T51H3T	6	42305	R3 Technologies ⁽³⁾	CAP9909010PH	36.48	Fill Material	KS
7/18/2000	4339PB	T51H3T	55	42306	R3 Technologies ⁽³⁾	CAP9909010PH	28.11	Fill Material	KS
7/13/2000	AC738V	745C1K	13	42307	R3 Technologies ⁽³⁾	CAP9909010PH	33.2	Fill Material	KS
7/14/2000	4470PB	T51H3T	6	42308	R3 Technologies ⁽³⁾	CAP9909010PH	36.35	Fill Material	KS
7/14/2000	4469PB	T50H3T	11	42309	R3 Technologies ⁽³⁾	CAP9909010PH	42.75	Fill Material	KS
7/14/2000	4469PB	T50H3T	11	42310	R3 Technologies ⁽³⁾	CAP9909010PH	36.73	Fill Material	KS
7/14/2000	4470PB	T51H3T	6	42311	R3 Technologies ⁽³⁾	CAP9909010PH	20.64	Fill Material	KS
						TOTAL:	420.33		

Notes:

- TSDF - Transportation, Storage, and Disposal Facility
 (1) - 110 Sand and Gravel Mine, Melville, New York
 (2) - Cubic Yards
 (3) - R3 Technologies, Inc., Morrisville, Pennsylvania

Signatures:

Amberly Jernard



WASTE MANAGEMENT

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

Date: 07/12/2000
1052 IN 1125 PM
JED-124
GARITO CONTRACTING
791 NEPPERSON AVE
YONKERS NY 10720

P 58211

*DF/364/2000/12/12
Black*

1125 PM
Ticket: 175250

Driver: B

Truck: 20675A

Description	Quantity
MATERIAL SALES	15.00 YRD
Source: BRONX Type: 3H District: WSD	

Signature



P 54951

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

Date: 07/14/2000
TIME IN: 9:26 AM
WSD-134
GARITO CONTRACTING
791 NEPPERHAN AVE
YONKERS NY 10703

(MANUAL)

9:26 AM

Ticket: 181445

Driver: S

Truck: 28678A -

Description
MATERIAL SALES

Quantity
2.00 YRD

Source: BRONX Type: 312 District: WSD

Signature

A handwritten signature, possibly 'Lh', written in dark ink over a horizontal line.

P 54951



WASTE MANAGEMENT

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

Date: 07/14/2000 (SUNDAY)

TIME IN: 9:20 AM

WCD-134

GARITO CONTRACTING

791 NEPPERHAN AVE

YONKERS NY 10770

Driver: 5

Truck: 1051701

Description

MATERIAL SALES

Source: BRONX Type: JLD Disposal: LGS

Signature

A handwritten signature in black ink, appearing to be "Lh" or similar, written over a horizontal line.

60289

7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
(215) 428-1700

DATE: 07/13/00
TIME IN: 09:41
TIME OUT: 09:41
SCALE: 1

CARRIER: TEV TEV

CUSTOMER: CAP CAPITOL ENVIRONMENTAL SERVICES, INC.

TRUCK: 11

TRAILER:

PRODUCT: PH PETROLEUM HYDROCARBN

JOB: CAP99090100H

WGT IN GROSS: 109300 LBS

TARE: 28300 LBS P

NET: 81000 LBS = 40.50 TONS @ 0.00 PER TON

DRIVER SIGNATURE

WEIGHMASTER SIGNATURE

AMOUNT: \$ 0.00

LIC: 57873

Alot of
Brick

Alot of
Brick



technologies

Manifest No.: 42300

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste: _____

Company Name: (Print or Type) PFIZER CORP.

Pick-up Address: _____ (No.) 630 FLEMING AVE. (City) BROOKLYN NY (State) Alot of brick

Telephone Number: _____ Fax Number: _____

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: _____ Cubic Yards: 20 Other: (Specify) _____

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: none

PROFILE / WASTE STREAM I.D. NUMBER:

CAP9909010PH

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 7/13/00 Signature: [Signature] (Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: _____ (if applicable)

COMPANY NAME: TEV TRUCKING

ADDRESS: PT. NEWARK, NJ

Pick-up Date: 7/13/00 Truck No.: TEV 11 Vehicle Lic. No.: 496 4PB

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date: _____

(Signature of authorized agent and title)

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
(215) 428-1700

60290

DATE: 07/13/00
TIME IN: 10:12
TIME OUT: 10:12
SCALE: 16

CARRIER: TEV TEV

CUSTOMER: CAP CAPITOL ENVIRONMENTAL SERVICES, INC.

TRUCK: 55

TRAILER:

PRODUCT: PH PETROLEUM HYDROCARBON

JOB: CAP9909010PH

WGT IN GROSS: 75340 LBS

TARE: 27300 LBS P

NET: 48040 LBS = 24.02 TONS @

0.00 PER TON

DRIVER SIGNATURE

WEIGHMASTER SIGNATURE

AMOUNT: \$ 0.00

LIC: 57873

*Alot of
Brick work*



technologies

Manifest No.: 42302

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste:

Company Name: (Print or Type) PFIZER CORP.

Pick-up Address: 630 FLUSHING AVE., BROOKLYN NY
(No.) (Street) (City) (State)

Telephone Number: Fax Number:

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: Cubic Yards: 20 Other: (Specify)

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: none

PROFILE / WASTE STREAM I.D. NUMBER:

CAP9903010PH

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 7/13/00 Signature: (Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.:

(if applicable)

COMPANY NAME:

ADDRESS:

Pick-up Date:

Truck No.:

Vehicle Lic. No.:

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

(Signature of authorized agent and title)

3. Processing Facility: R3 Technologies, Inc.

7 Steel Road East

Morrisville, PA 19067-0847

Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date.

(Signature of authorized agent and title)

B3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
(215) 428-1700

60291

DATE: 07/13/00
TIME IN: 10:10
TIME OUT: 10:13
SCALE: 1

CARRIER: TEV TEV

CUSTOMER: CAP CAPITOL ENVIRONMENTAL SERVICES, INC.

TRUCK: 6

TRAILER:

PRODUCT: PH PETROLEUM HYDROCARBN

JOB: CAP9909010PH

WGT IN GROSS: 114860 LBS

TARE: 31620 LBS PB

NET: 83240 LBS = 41.62 TONS @ 0.00 PER TON

DRIVER SIGNATURE

WEIGHMASTER SIGNATURE

AMOUNT: \$ 0.00

LIC: 57873

*Alot of
Brick
At 10
Brick*



technologies

Manifest No.: 42301

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste: _____
Company Name: (Print or Type) PFIZER CORP.
Pick-up Address: 630 FLUSHING AVE., BROOKLYN NY
(No.) (Street) (City) (State)
Telephone Number: _____ Fax Number: Alot of
Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.
Tons: _____ Cubic Yards: 20 Other: (Specify) _____
Waste Type: Petroleum Contaminated Soil
Special Handling Instructions, if any: none

PROFILE / WASTE STREAM I.D. NUMBER:

CAP9903010PH

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 7/13/00 Signature: [Signature] (Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: _____ (if applicable)

COMPANY NAME: TEV TRUCKING

ADDRESS: PT. NEWARK, NJ

Pick-up Date: 7/13/00 Truck No.: 1111 Vehicle Lic. No.: TRUCK 4470PB

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date: _____

(Signature of authorized agent and title)

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
(215) 428-1700

60293

DATE: 07/13/80
TIME IN: 10:39
TIME OUT: 10:39
SCALE: 1

CARRIER: TEV TEV

CUSTOMER: CAP CAPITOL ENVIRONMENTAL SERVICES, INC.

TRUCK: 13

TRAILER:

PRODUCT: PH PETROLEUM HYDROCARBN

JOB: CAP9909010PH

WGT IN GROSS: 104560 LBS

TARE: 29740 LBS PB

NET: 74820 LBS = 37.41 TONS @

DRIVER SIGNATURE

0.00 PER TON
WEIGHMASTER SIGNATURE

AMOUNT: \$ 0.00

LIC: 57873

*Alot of
Brick*



technologies

Manifest No.: 42303

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste: _____

Company Name: (Print or Type) PFIZER CORP.

Pick-up Address: 630 FLUSHING AVE., BROOKLYN NY
(No.) (Street) (City) (State)

Telephone Number: _____ Fax Number: _____

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: _____ Cubic Yards: 20 Other: (Specify) _____

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: NONE

PROFILE / WASTE STREAM I.D. NUMBER:

CAF990901APH

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 7/13/00 Signature: [Signature]
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: _____

(if applicable)

COMPANY NAME: TEV TRUCKING (VAUGHN)

ADDRESS: PT. NEWARK, NJ

Pick-up Date: 7/13/00 Truck No.: 13 Vehicle Lic. No.: TRUCK: AC738V
TRLP 745C1K

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date:

(Signature of authorized agent and title)

7/13/00

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
(215) 428-1700

60300

DATE: 07/13/00
TIME IN: 14:16
TIME OUT: 14:16
SCALE: 1

CARRIER: TEV TEV

CUSTOMER: CAP CAPITOL ENVIRONMENTAL SERVICES, INC.

TRUCK: 11

TRAILER:

PRODUCT: PH PETROLEUM HYDROCARBN

JOB: CAP9909010PH

WGT IN GROSS: 113340 LBS

TARE: 28300 LBS P

NET: 85040 LBS = 42.52 TONS @ 0.00 PER TON

DRIVER SIGNATURE

WEIGHMASTER SIGNATURE

AMOUNT: \$ 0.00

LIC: 57873



technologies

Manifest No.: 42304

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste: _____

Company Name: (Print or Type) PFIZER CORP.

Pick-up Address: 630 FLUSHING AVE., BROOKLYN NY
(No.) (Street) (City) (State)

Telephone Number: _____ Fax Number: _____

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: _____ Cubic Yards: 20 Other: (Specify) _____

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: None

PROFILE / WASTE STREAM I.D. NUMBER:

CAP9909010PH

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 7/13/00 Signature: _____ (Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: _____ (if applicable)

COMPANY NAME: IV CONCRETE

ADDRESS: 901 NEWARK AVE

Pick-up Date: 7/13/00 Truck No.: 11 Vehicle Lic. No.: 100 446988-NY

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date: _____

(Signature of authorized agent and title)

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
(215) 428-1700

60301

DATE: 07/13/00
TIME IN: 14:18
TIME OUT: 14:18
SCALE: 1

CARRIER: TEV TEV

CUSTOMER: CAP CAPITOL ENVIRONMENTAL SERVICES, INC.

TRUCK: 6

TRAILER:

PRODUCT: PH PETROLEUM HYDROCARBN

JOB: CAP9903010PH

WGT IN GROSS: 104460 LBS

TARE: 31500 LBS P

NET: 72960 LBS = 36.48 TONS @

0.00 PER TON

DRIVER SIGNATURE

WEIGHMASTER SIGNATURE

AMOUNT: \$ 0.00

LIC: 57873



technologies

Manifest No.: 42305

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste: _____
Company Name: (Print or Type) PFIZER CORP.
Pick-up Address: 630 FLUSHING AVE., BROOKLYN NY
(No.) (Street) (City) (State)
Telephone Number: _____ Fax Number: _____
Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.
Tons: _____ Cubic Yards: 1.20 Other: (Specify) _____
Waste Type: Petroleum Contaminated Soil
Special Handling Instructions, if any: none

PROFILE / WASTE STREAM I.D. NUMBER:

CAF9909010PH

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 7/13/00 Signature: _____
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: _____
(if applicable)

COMPANY NAME: L.V. Trucking

ADDRESS: 100 N. 10th St.

Pick-up Date: 7/13/00 Truck No.: _____ Vehicle Lic. No.: 100 441 112 NY

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date: _____

(Signature of authorized agent and title)

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
(215) 428-1700

60304

DATE: 07/13/00
TIME IN: 15:14
TIME OUT: 15:14
SCALE: 1

CARRIER: TEV TEV

CUSTOMER: CAP CAPITOL ENVIRONMENTAL SERVICES, INC.

TRUCK: 55

TRAILER:

PRODUCT: PH PETROLEUM HYDROCARBN

JOB: CAP9909010PH

WGT IN GROSS: 83680 LBS

TARE: 27460 LBS PB

NET: 56220 LBS = 28.11 TONS @ 0.00 PER TON

DRIVER SIGNATURE

WEIGHMASTER SIGNATURE

AMOUNT: \$ 0.00

LIC: 57873

Manifest No.: 42306



technologies

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste: _____

Company Name: (Print or Type) PFIZER CORP.

Pick-up Address: 630 FLUSHING AVE., BROOKLYN NY
(No.) (Street) (City) (State)

Telephone Number: _____ Fax Number: _____

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: _____ Cubic Yards: 20 Other: (Specify) _____

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: none

PROFILE / WASTE STREAM I.D. NUMBER:

CAP9909010PH

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 7/13/00 Signature: [Signature] (Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: _____ (if applicable)

COMPANY NAME: T E V TRUCKING

ADDRESS: 1007 N. Main St. N.J.

Pick-up Date: 7/13/00 Truck No.: 102 Vehicle Lic. No.: 4B39 PR NY

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date: _____

(Signature of authorized agent and title)

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
(215) 428-1700

60307

DATE: 07/13/00
TIME IN: 15:43
TIME OUT: 15:43
SCALE: 1

CARRIER: TEV TEV

CUSTOMER: CAP CAPITOL ENVIRONMENTAL SERVICES, INC.

TRUCK: 13

TRAILER:

PRODUCT: PH PETROLEUM HYDROCARBN

JOB: CAP9909010PH

WGT IN GROSS: 95040 LBS

TARE: 28640 LBS P

NET: 66400 LBS = 33.20 TONS @ 0.00 PER TON

DRIVER SIGNATURE

WEIGHMASTER SIGNATURE

AMOUNT: \$ 0.00

LIC: 57873



technologies

Manifest No.: 42307

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste: _____
Company Name: (Print or Type) PETZER CORP.
Pick-up Address: 630 FLUSHING AVE. BROOKLYN NY
(No.) (Street) (City) (State)
Telephone Number: _____ Fax Number: _____
Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.
Tons: _____ Cubic Yards: 1.12 Other: (Specify) _____
Waste Type: Petroleum Contaminated Soil
Special Handling Instructions, if any: none

PROFILE / WASTE STREAM I.D. NUMBER:

CAP9909010FH

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 11/12/00 Signature: [Signature]
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: _____
(if applicable)

COMPANY NAME: VAUGHN - TRUCKING

ADDRESS: 2027 N. Main St. NJ

Pick-up Date: 11/12/00 Truck No.: 13 Vehicle Lic. No.: _____

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date: _____

(Signature of authorized agent and title)

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
(215) 428-1700

60315

DATE: 07/14/00
TIME IN: 09:56
TIME OUT: 09:56
SCALE: 1

CARRIER: TEV : TEV

CUSTOMER: CAP CAPITOL ENVIRONMENTAL SERVICES, INC.

TRUCK: 6

TRAILER:

PRODUCT: PH PETROLEUM HYDROCARBN

JOB: CAP9909010PH

WGT IN GROSS: 104200 LBS

TARE: 31500 LBS P

NET: 72700 LBS = 36.35 TONS @ 0.00 PER TON

DRIVER SIGNATURE

WEIGHMASTER SIGNATURE

AMOUNT: \$ 0.00

LIC: 57873



technologies

Manifest No.: 42308

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste: _____

Company Name: (Print or Type) PFIZER CORP.

Pick-up Address: 630 FLUSHING AVE., BROOKLYN NY
(No.) (Street) (City) (State)

Telephone Number: _____ Fax Number: _____

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: _____ Cubic Yards: 4.00 Other: (Specify) _____

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: NONE

PROFILE / WASTE STREAM I.D. NUMBER:

CAP9909010PH

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 7/14/00 Signature: _____ (Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: _____

(if applicable)

COMPANY NAME: TEV Trucking

ADDRESS: 2001 LEXINGTON RD

Pick-up Date: 7/14/00 Truck No.: 6 Vehicle Lic. No.: TEPS 447

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date: _____

(Signature of authorized agent and title)

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
(215) 428-1700

60314

DATE: 07/14/00
TIME IN: 09:54
TIME OUT: 09:54
SCALE: 1

CARRIER: TEV TEV

CUSTOMER: CAP CAPITOL ENVIRONMENTAL SERVICES, INC.

TRUCK: 11

TRAILER:

PRODUCT: PH PETROLEUM HYDROCARBN

JOB: CAP9909010PH

WGT IN GROSS: 113000 LBS

TARE: 28300 LBS P

NET: 85500 LBS = 42.75 TONS @

0.00 PER TON

DRIVER SIGNATURE

WEIGHMASTER SIGNATURE

AMOUNT: \$

0.00

LIC: 57873



technologies

Manifest No.: 42309

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No. Generator of Waste: _____

Company Name: (Print or Type) PFIZER CORP.

Pick-up Address: 630 FLUSHING AVE. BROOKLYN NY
(No.) (Street) (City) (State)

Telephone Number: _____ Fax Number: _____

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: _____ Cubic Yards: 20 Other: (Specify) _____

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: none

PROFILE / WASTE STREAM I.D. NUMBER:

CAP9909010PH

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 7/14/00 Signature: [Signature]
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: _____
(if applicable)

COMPANY NAME: T.E.V. Trucking

ADDRESS: Port Newark NJ

Pick-up Date: 7/14/00 Truck No.: 1 Vehicle Lic. No.: TRAC 44-1

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

[Signature]
(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date: _____

[Signature]
(Signature of authorized agent and title)

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
(215) 428-1700

60338

DATE: 07/14/00
TIME IN: 15:06
TIME OUT: 15:06
SCALE: 1

CARRIER: TEV TEV

CUSTOMER: CAP - CAPITOL ENVIRONMENTAL SERVICES, INC.

TRUCK: 11

TRAILER:

PRODUCT: PH PETROLEUM HYDROCARBN JOB: CAP9909010PH

WGT IN GROSS: 101760 LBS

TARE: 28300 LBS P

NET: 73460 LBS = 36.73 TONS @ 0.00 PER TON
DRIVER SIGNATURE WEIGHMASTER SIGNATURE

AMOUNT: \$ 0.00

LIC: 57873

moisture

Not

[Signature]



technologies

Manifest No.: 42310

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste:

Company Name: (Print or Type) PFIZER CORP.

Pick-up Address: 630 FLUSHING AVE., BROOKLYN NY
(No.) (Street) (City) (State)

Telephone Number: Fax Number:

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: Cubic Yards: Other: (Specify)

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: none

PROFILE / WASTE STREAM I.D. NUMBER:

CAP9909010PH

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 7/4/00 Signature: (Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.:

(if applicable)

COMPANY NAME: T E V. TRUCKING

ADDRESS: 1000 N. 10th St

Pick-up Date: 7/4/00 Truck No.: 11 Vehicle Lic. No.: 4460 PK

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

(Signature of authorized agent and title)

3. Processing Facility: R3 Technologies, Inc.
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date:

(Signature of authorized agent and title)

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
(215) 428-1700

60334

DATE: 07/14/80
TIME IN: 14:58
TIME OUT: 14:58
SCALE: 1

CARRIER: TEV TEV

CUSTOMER: CAP CAPITOL ENVIRONMENTAL SERVICES, INC.

TRUCK: 6

TRAILER:

PRODUCT: PH PETROLEUM HYDROCARBN

JOB: CAP9909010PH

WGT IN GROSS: 72780 LBS

TARE: 31500 LBS P

NET: 41280 LBS = 20.64 TONS @ 0.00 PER TON

DRIVER SIGNATURE

WEIGHMASTER SIGNATURE

AMOUNT: \$ 0.00

LIC: 57873

~~WET~~
~~WET~~
moisture



technologies

Manifest No.: 42311

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste: _____

Company Name: (Print or Type) HEITZ CORP.

Pick-up Address: 630 FLUSHING AVE. BROOKLYN NY
(No.) (Street) (City) (State)

Telephone Number: _____ Fax Number: _____

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: _____ Cubic Yards: 1.00 Other: (Specify) _____

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: none

PROFILE / WASTE STREAM I.D. NUMBER:

CAP9909010PH

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 7/14/00 Signature: [Signature] (Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: _____ (if applicable)

COMPANY NAME: TEV TRUCKING

ADDRESS: Port of New York

Pick-up Date: 7/14/00 Truck No.: 6 Vehicle Lic. No.: 7-1470

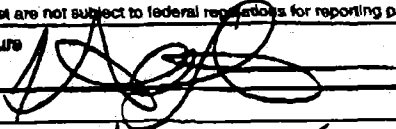
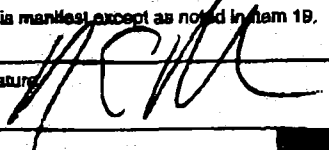
The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date: _____

(Signature of authorized agent and title)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID/No. N/A	Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address GARNO CONTRACTING INC 6211 11206 GENY ST BROOKLYN, NY 11206				
4. Generator's Phone (914) 965-5813				
5. Transporter 1 Company Name TERRACE TRANSPORTATION	6. US EPA ID Number N/A	A. Transporter's Phone (718) 981-4600		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address CLEAN WATER OF NY 3249 RICHMOND TERR STATEN ISLAND NY	10. US EPA ID Number N/A	C. Facility's Phone (718) 981-4600		
11. Waste Shipping Name and Description		12. Containers No.	Type	13. Total Quantity
a. NEW HAZ, ONLY WATER FOR PAPER TREATMENT		X-X-1	TT	X-1500 G
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name STEPHEN GRANU		Signature 		Month Day Year 8 10 00
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name THOMAS KING		Signature Thomas King		Month Day Year 8 10 00
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.				
Printed/Typed Name ALH		Signature 		Month Day Year 8 10 00

GENERATOR

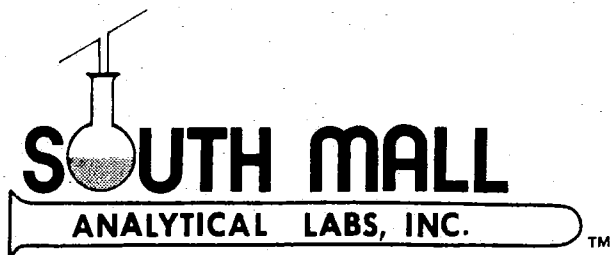
TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

APPENDIX E

Backfill Analytical Results



26 NORTH MALL • PLAINVIEW, NY 11803
(516) 293-2191 • FAX (516) 293-3152
E-Mail: info@SouthMallLabs.com
Website: www.SouthMallLabs.com

May 4, 2000

Roux Associates Inc.
1377 Motor Parkway, Suite 403
Islandia, NY 11788

Att.: Mr. Scott Glash

Sample Description: Soil - Backfill - 1
Sample Collected By: Roux Associates Inc.
Purchase Order Number: Verbal
Site Identification: Pfizer Backfill
Date Samples Received: 4/28/00
Analysis Number: 105848

<u>Analyte</u>	<u>Results</u>	<u>Method</u>
Arsenic, mg/kg	<0.850	200.7 ¹
Barium, mg/kg	5.44	200.7 ¹
Cadmium, mg/kg	0.170	200.7 ¹
Chromium, mg/kg	1.61	200.7 ¹
Lead, mg/kg	1.10	200.7 ¹
Mercury, mg/kg	<0.014	3112B ²
Selenium, mg/kg	<1.02	200.7 ¹
Silver, mg/kg	0.425	200.7 ¹
Dichlorodifluoromethane, µg/kg	<1.00	8260 ³
Chloromethane, µg/kg	<5.00	8260 ³
Vinyl chloride, µg/kg	<5.00	8260 ³
Bromomethane, µg/kg	<5.00	8260 ³
Chloroethane, µg/kg	<5.00	8260 ³
Trichlorofluoromethane, µg/kg	<1.00	8260 ³
1,1-Dichloroethene, µg/kg	<1.00	8260 ³
Methylene chloride, µg/kg	<1.00	8260 ³
trans-1,2-Dichloroethene, µg/kg	<5.00	8260 ³
1,1-Dichloroethane, µg/kg	<1.00	8260 ³
2,2-Dichloropropane, µg/kg	<5.00	8260 ³
cis-1,2-Dichloroethene, µg/kg	<5.00	8260 ³
Bromochloromethane, µg/kg	<1.00	8260 ³
Chloroform, µg/kg	<1.00	8260 ³
1,1,1-Trichloroethane, µg/kg	<1.00	8260 ³
Carbon tetrachloride, µg/kg	<5.00	8260 ³
1,1-Dichloropropene, µg/kg	<1.00	8260 ³
Benzene, µg/kg	<1.00	8260 ³

Ref. 105600

<u>Analyte</u>	<u>Results</u>	<u>Method</u>
1,2-Dichloroethane, µg/kg	<1.00	8260 ³
Trichloroethene, µg/kg	<1.00	8260 ³
1,2-Dichloropropane, µg/kg	<1.00	8260 ³
Dibromomethane, µg/kg	<1.00	8260 ³
Bromodichloromethane, µg/kg	<1.00	8260 ³
cis-1,3-Dichloropropene, µg/kg	<1.00	8260 ³
Toluene, µg/kg	<1.00	8260 ³
trans-1,3-Dichloropropene, µg/kg	<1.00	8260 ³
1,1,2-Trichloroethane, µg/kg	<5.00	8260 ³
Tetrachloroethene, µg/kg	<1.00	8260 ³
1,3-Dichloropropane, µg/kg	<1.00	8260 ³
Dibromochloromethane, µg/kg	<1.00	8260 ³
1,2-Dibromoethane, µg/kg	<1.00	8260 ³
Chlorobenzene, µg/kg	<1.00	8260 ³
1,1,1,2-Tetrachloroethane, µg/kg	<1.00	8260 ³
Ethylbenzene, µg/kg	<1.00	8260 ³
o-Xylene, µg/kg	<1.00	8260 ³
m,p-Xylene, µg/kg	<1.00	8260 ³
Styrene, µg/kg	<1.00	8260 ³
Bromoform, µg/kg	<1.00	8260 ³
Isopropylbenzene, µg/kg	<1.00	8260 ³
Bromobenzene, µg/kg	<1.00	8260 ³
1,1,2,2-Tetrachloroethane, µg/kg	<1.00	8260 ³
1,2,3-Trichloropropane, µg/kg	<5.00	8260 ³
n-Propylbenzene, µg/kg	<1.00	8260 ³
2-Chlorotoluene, µg/kg	<1.00	8260 ³
4-Chlorotoluene, µg/kg	<5.00	8260 ³
1,3,5-Trimethylbenzene	<5.00	8260 ³
tert-Butylbenzene, µg/kg	<5.00	8260 ³
1,2,4-Trimethylbenzene, µg/kg	<1.00	8260 ³
sec-Butylbenzene, µg/kg	<1.00	8260 ³
1,3-Dichlorobenzene, µg/kg	<1.00	8260 ³
4-Isopropyltoluene, µg/kg	<1.00	8260 ³
1,4-Dichlorobenzene, µg/kg	<1.00	8260 ³
1,2-Dichlorobenzene, µg/kg	<1.00	8260 ³
n-Butylbenzene, µg/kg	<1.00	8260 ³
1,2-Dibromo-3-chloropropane, µg/kg	<5.00	8260 ³
1,2,4-Trichlorobenzene, µg/kg	<5.00	8260 ³
Hexachlorobutadiene, µg/kg	<1.00	8260 ³
Naphthalene, µg/kg	<5.00	8260 ³
1,2,3-Trichlorobenzene, µg/kg	<5.00	8260 ³
Methyl-t-butyl ether, µg/kg	<1.00	8260 ³
Phenol, µg/kg	<33.3	8270 ³
bis(2-Chloroethyl)ether, µg/kg	<167.	8270 ³

Ref. 105600

<u>Analyte</u>	<u>Results</u>	<u>Method</u>
2-Chlorophenol, µg/kg	<167.	8270 ³
1,3-Dichlorobenzene, µg/kg	<167.	8270 ³
1,4-Dichlorobenzene, µg/kg	<167.	8270 ³
1,2-Dichlorobenzene, µg/kg	<167.	8270 ³
2-Methylphenol, µg/kg	<167.	8270 ³
bis(2-Chloroisopropyl)ether, µg/kg	<167.	8270 ³
4-Methylphenol, µg/kg	<167.	8270 ³
N-Nitrosodi-n-propylamine, µg/kg	<167.	8270 ³
Hexachloroethane, µg/kg	<167.	8270 ³
Nitrobenzene, µg/kg	<167.	8270 ³
Isophorone, µg/kg	<167.	8270 ³
2-Nitrophenol, µg/kg	<167.	8270 ³
2,4-Dimethylphenol, µg/kg	<167.	8270 ³
bis(2-Chloroethoxy)methane, µg/kg	<167.	8270 ³
2,4-Dichlorophenol, µg/kg	<167.	8270 ³
1,2,4-Trichlorobenzene, µg/kg	<167.	8270 ³
Naphthalene, µg/kg	<167.	8270 ³
4-Chloroaniline, µg/kg	<167.	8270 ³
Hexachlorobutadiene, µg/kg	<167.	8270 ³
4-Chloro-3-methylphenol, µg/kg	<167.	8270 ³
2-Methylnaphthalene, µg/kg	<167.	8270 ³
Hexachlorocyclopentadiene, µg/kg	<33.3	8270 ³
2,4,5-Trichlorophenol, µg/kg	<167.	8270 ³
2,4,6-Trichlorophenol, µg/kg	<167.	8270 ³
2-Chloronaphthalene, µg/kg	<167.	8270 ³
2-Nitroaniline, µg/kg	<167.	8270 ³
Dimethyl phthalate, µg/kg	<167.	8270 ³
Acenaphthylene, µg/kg	<167.	8270 ³
2,6-Dinitrotoluene, µg/kg	<167.	8270 ³
3-Nitroaniline, µg/kg	<167.	8270 ³
Acenaphthene, µg/kg	<167.	8270 ³
2,4-Dinitrophenol, µg/kg	<167.	8270 ³
4-Nitrophenol, µg/kg	<33.3	8270 ³
Dibenzofuran, µg/kg	<167.	8270 ³
2,4-Dinitrotoluene, µg/kg	<167.	8270 ³
Diethyl phthalate, µg/kg	<167.	8270 ³
Fluorene, µg/kg	<167.	8270 ³
4-Nitroaniline, µg/kg	<167.	8270 ³
4-Chlorophenol phenyl ether, µg/kg	<167.	8270 ³
2-Methyl-4,6-dinitrophenol, µg/kg	<167.	8270 ³
N-Nitrosodiphenylamine, µg/kg	<167.	8270 ³
4-Bromophenyl phenyl ether, µg/kg	<167.	8270 ³
Hexachlorobenzene, µg/kg	<167.	8270 ³
Pentachlorophenol, µg/kg	<167.	8270 ³
Phenanthrene, µg/kg	<167.	8270 ³

Ref. 105600

<u>Analyte</u>	<u>Results</u>	<u>Method</u>
Anthracene, µg/kg	<167.	8270 ³
Di-n-butylphthalate, µg/kg	<167.	8270 ³
Fluoranthene, µg/kg	<167.	8270 ³
Pyrene, µg/kg	<167.	8270 ³
Butyl benzyl phthalate, µg/kg	<167.	8270 ³
3,3'-Dichlorobenzidine, µg/kg	<167.	8270 ³
Benzo(a)anthracene, µg/kg	<167.	8270 ³
Chrysene, µg/kg	<167.	8270 ³
bis(2-Ethylhexyl)phthalate, µg/kg	<167.	8270 ³
Di-n-octylphthalate, µg/kg	<167.	8270 ³
Benzo(b)fluoranthene, µg/kg	<167.	8270 ³
Benzo(k)fluoranthene, µg/kg	<167.	8270 ³
Benzo(a)pyrene, µg/kg	<167.	8270 ³
Indeno(1,2,3-cd)pyrene, µg/kg	<167.	8270 ³
Dibenzo(a,h)anthracene, µg/kg	<167.	8270 ³
Benzo(g,h,i)perylene, µg/kg	<167.	8270 ³

¹EPA SW 846, 3rd edition

²Standard Methods for the Examination of Water and Wastewater, 19th edition

³Federal Register, Vol. 49, No. 209

New York State ELAP Laboratory Identification #10950

Laboratory Director: _____

Joseph P. Shaulys
Joseph P. Shaulys

JPS:po



WASTE MANAGEMENT

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

P 54909

Date: 07/14/2002

TIME IN: 6:55 AM

WSD-079

GARITO CONTRACTING (OUTBOUND)

791 NEPPERHAN AVE

YONKERS NY 10703

(MONDAY)

6:55 AM

Ticket: 101336

PPB/MLC

Driver: S

Trucks: 29675A

Description

OUTBOUND RECYCLABLES

Source: BRONX Type: R37 District: WSD

Quantity:

15,000 YRD

07/14/2002

6:55 AM

(MONDAY)

GARITO CONTRACTING (OUTBOUND)

791 NEPPERHAN AVE

YONKERS NY 10703

S

Trucks: 29675A

Quantity:

15,000 YRD

Source: BRONX Type: R37 District: WSD

6:55 AM
Ticket: 101336



WASTE MANAGEMENT

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

P 54929

Signature

Signature

Signature

Signature



WASTE MANAGEMENT

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

P 55016



WASTE MANAGEMENT

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

P 54980

Date: 07/14/2000
TIME IN: 12:13 PM
WSD-879

GARITO CONTRACTING (OUTBOUND)
791 NEPPERHAN AVE
YONKERS NY 10703

Driver: S

Truck: 286730

Description
OUTBOUND RECYCLABLES
Source: BRONX Type: 337 District: WSD

Quantity
15.02 YRD

Date: 07/14/2000
TIME IN: 12:13 PM
WSD-879

GARITO CONTRACTING (OUTBOUND)
791 NEPPERHAN AVE
YONKERS NY 10703

Driver: S

Truck: 286730

Description
INF POLYCYCLOPS
Source: BRONX Type: 337 District: WSD

Quantity
15.02 YRD

Signature

Signature

Date: 07/14/2000
TIME IN: 12:13 PM
WSD-879

GARITO CONTRACTING (OUTBOUND)
791 NEPPERHAN AVE
YONKERS NY 10703

Driver: S

Truck: 286730

Description
INF POLYCYCLOPS
Source: BRONX Type: 337 District: WSD

Quantity
15.02 YRD



WASTE MANAGEMENT

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

P 54950



WASTE MANAGEMENT

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

P 55037

Date: 07/14/2006

TIME IN: 9:25 AM

WSD-879

GARITO CONTRACTING (OUTBOUND)

791 NEPPERHAN AVE

YONKERS NY 10703

(MANUAL)

9:25 AM

Ticket: 101527

07/14/2006

9:25 AM

7/4

GARITO CONTRACTING (OUTBOUND)

791 NEPPERHAN AVE

YONKERS NY 10703

1:23 PM

Ticket: 101527

Driver: 3

Ticket: 286704

Ticket: 286704

Description

OUTBOUND RECYCLABLES

Source: BRONX Type: R37 District: WSD

Quantity

13.00 YRD

Quantity

13.00 YRD

Quantity

13.00 YRD

Signature

Sh

Sh



WASTE MANAGEMENT

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

P 55253

P 55211



WASTE MANAGEMENT

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

07/17/2020

IN: 9:22 AM

0-079

RITO CONTRACTING CORP

1 NEPPERHAN AVE

NY 10703

iver: S

scription

ITBOUND RECYCLABLES

Source: BRONX Type: 1037

Quantity: 500

Weight: 100

Volume: 100

07/17/2020
IN: 9:22 AM
0-079

RITO CONTRACTING CORP

1 NEPPERHAN AVE

NY 10703

07/17/2020

iver: S

scription

ITBOUND RECYCLABLES

Source: BRONX Type: 1037

Quantity: 500

Weight: 100

Volume: 100

[Signature]

Signature

[Signature]

Signature



WASTE MANAGEMENT

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

P 55232



WASTE MANAGEMENT

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

P 55290

Date: 07/17/2000

TIME IN: 8:11 AM

WSD-879

SARITO CONTRACTING OUTREACH

791 NEPPERHAN AVE

YONKERS NY 10703

Driver: S

Description

OUTBOUND RECYCLED

Source: BRONX Type: 342 0.00 1.00

06/11/01

06/11/01

06/11/01

06/11/01

06/11/01

06/11/01

TO: JAMES STINE / 1150 100

NEW YORK ON 10/17

06/11/01

06/11/01 06/11/01 06/11/01 06/11/01

06/11/01

06/11/01

06/11/01

Signature



WASTE MANAGEMENT

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

P 58169

7.12.00

PT 326/000011C
Black

CARITO CONTRACTING

15 Yards R37

SAND BACKFILL

A handwritten signature in black ink, appearing to be 'J. J. J.' or similar, with a large, stylized flourish.



P 58299

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

*Pfizer/Organic
Block*

Date: 07/13/2000

(MANUAL)

7:10 AM

TIME IN: 7:10 AM

Ticket: 179596

WSD-879

GARITO CONTRACTING (OUTBOUND)

791 NEPPERHAN AVE

YONKERS NY 10703

Driver: S

Truck: 28776A

Description

Quantity

REDWOOD CONTRACTING OUT

16.00 YRD

Source: BRONX Type: R37

District: WSD

NATIONAL BUSINESS FORMS (631) 243-3395

Signature



P 58334

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

*Phzer/Organic
Broth*

Date: 07/13/2000

(MANUAL)

8:41 AM

TIME IN: 8:41 AM

Tickets: 100115

WSD-879

GARITO CONTRACTING (OUTBOUND)

791 NEPPERHAN AVE

YONKERS NY 10703

Driver: S

Truck: 28675A

Description

Quantity

OUTBOUND RECYCLABLES

15.00 YRD

Source: BRONX Type: R37 District: WSE

NATIONAL BUSINESS FORMS (631) 243-3395

Signature



P 58355

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

*phzer/organic
BRX*

Date: 07/13/2000

(MANUAL)

9:52 AM

TIME IN: 9:52 AM

Ticket: 102217

WSD-879

GARITO CONTRACTING (OUTBOUND)

791 NEPPERHAN AVE

YONKERS NY 10703

Driver: S

Truck: 28675A

Description

Quantity

OUTBOUND RECYCLABLES

15.00 YRD

Source: BRONX Type: R37

District: W05

NATIONAL BUSINESS FORMS (631) 243-3395

Signature



P 58376

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

*Pfize/organic
Block*

Date: 07/13/2006

(MANUAL)

TIME IN: 10:49 AM

Ticket: 100299

WSD-879

GARITO CONTRACTING (OUTBOUND)

791 NEPPERHAN AVE

YONKERS NY 10703

Driver: S

Truck: 28575A

Description

Quantity

OUTBOUND RECYCLABLES

15.00 YRD

Source: BRONX Type: R37 District: WSD

NATIONAL BUSINESS FORMS (631) 243-3395

Signature



P 58401

50-04 73rd Place
Woodside, New York 11377
(718) 533-5400

*Pfizer/organic
block*

Date: 07/13/2000
TIME IN: 12:00 PM
WSD-879
GARITO CONTRACTING (OUTBOUND)
791 NEPPERHAN AVE
YONKERS NY 10703

12:07 PM
Ticket: 108417

Driver: S Truck: 28675A

Description	Quantity
OUTBOUND RECYCLABLES	15.00 YRD
Source: BRONX Type: R37 District: CSD	

NATIONAL BUSINESS FORMS (631) 243-3395

Signature _____

Lh

APPENDIX F

Air Monitoring Results

COMMUNITY & WORKER HEALTH AND SAFETY AIR MONITORING RECORD

Client: Pfizer Inc

Date: 7/12/2000

Project No: 04744Y02

Collected By: Kimberly Siemasko

[illegible]

COMMUNITY & WORKER HEALTH AND SAFETY AIR MONITORING RECORD

Client: Pfizer Inc

Date: 7/13/2000

Project No: 04744Y02

Collected By: Kimberly Siemasko

Sampling Time ¹	Temperature (°F)	Wind Direction	Volatile Organic Compounds ² Up/Down/Within (ppm)	Particulates ³ Up/Down/Within (mg/m ³)	Mercury Vapor ⁴ Within (mg/m ³)	Corrective Measure Required (Yes/No)
730	Mid 70's	Calm	0.0/0.0/0.4	0.034/0.030/0.060	0.000	Background
745	Upper 70's	Calm	0.0/0.0/0.1	0.048/0.035/0.090	0.000	No
800	Upper 70's	Calm	0.0/0.0/0.2	0.042/0.041/0.065	0.000	No
815	Upper 70's	Calm	0.0/0.0/0.0	0.057/0.131/0.059	0.000	No
830	Upper 70's	Calm	0.0/0.0/0.3	0.037/0.038/0.065	0.000	No
845	Upper 70's	Calm	0.0/0.0/0.3	0.054/0.070/0.061	0.000	No
900	Upper 70's	Calm	0.0/0.0/0.0	0.045/0.055/0.077	0.000	No
915	Upper 70's	Slight NW	0.0/0.0/0.2	0.040/0.063/0.046	0.000	No
930	Upper 70's	Slight NW	0.0/0.0/0.5	0.026/0.014/0.025	0.000	No
945	Upper 70's	Calm	0.0/0.0/0.5	0.032/0.049/0.052	0.000	No
1000	Upper 70's	Calm	0.0/0.0/1.5	0.025/0.027/0.045	0.000	No
1015	Upper 70's	Slight NW	0.0/0.0/4.0	0.018/0.035/0.067	0.000	No
1030	Low 80's	Slight N	0.0/0.0/2.5	0.017/0.029/0.047	0.000	No
1045	Low 80's	Slight W	0.0/0.0/1.5	0.014/0.015/0.030	0.000	No
1100	Low 80's	Slight N	0.0/0.0/0.5	0.010/0.012/0.029	0.000	No
1115	Low 80's	Slight NW	0.0/0.0/1.4	0.016/0.015/0.043	0.000	No
1130	Low 80's	Slight NW	0.0/0.0/0.5	0.013/0.012/0.029	0.000	No
1145	Low 80's	Slight E	0.0/0.0/0.5	0.018/0.020/0.038	0.000	No
1200	Low 80's	Slight SE	0.0/0.0/0.0	0.029/0.016/0.039	0.000	No
1215	Mid 80's	SE	0.0/0.0/0.0	0.023/0.015/0.034	0.000	No
1230	Mid 80's	E	0.0/0.0/0.0	0.045/0.026/0.054	0.000	No
1245	Mid 80's	SE	0.0/0.0/0.0	0.017/0.012/0.041	0.000	No
1300	Mid 80's	SE	0.0/0.0/0.0	0.019/0.018/0.057	0.000	No
1315	Mid 80's	SE	0.3/0.0/0.0	0.060/0.014/0.034	0.000	No
1330	Mid 80's	SE	0.0/0.0/0.0	0.019/0.015/0.050	0.000	No
1345	Mid 80's	SE	0.0/0.0/0.0	0.017/0.026/0.041	0.000	No
1415	Mid 80's	SW	0.0/0.0/0.0	0.045/0.019/0.050	0.000	No
1430	Mid 80's	W	0.0/0.0/0.0	0.017/0.051/0.065	0.000	No
1445	Mid 80's	E	0.0/0.0/0.0	0.090/0.018/0.120	0.000	No

COMMUNITY & WORKER HEALTH AND SAFETY AIR MONITORING RECORD

Client: Pfizer Inc

Date: 7/14/2000

Project No: 04744Y02

Collected By: Kimberly Siemasko

Sampling Time ¹	Temperature (°F)	Wind Direction	Volatile Organic Compounds ² Up/Down/Within (ppm)	Particulates ³ Up/Down/Within (mg/m ³)	Mercury Vapor ⁴ Within (mg/m ³)	Corrective Measure Required (Yes/No)
730	Mid 70's	NE	0.0/0.0/2.4	0.024/0.031/0.039	0.000	Background
745	Mid 70's	NE	0.0/0.0/2.1	0.020/0.032/0.039	0.000	No
800	Mid 70's	Slight NE	0.0/0.0/1.7	0.033/0.032/0.044	0.000	No
815	Mid 70's	Slight NE	0.0/0.8/1.6	0.042/0.035/0.049	0.000	No
830	Mid 70's	NE	0.0/0.0/0.6	0.016/0.032/0.044	0.000	No
845	Mid 70's	Slight NE	0.0/0.0/0.4	0.013/0.018/0.036	0.000	No
900	Mid 70's	Slight NE	0.0/0.0/0.1	0.053/0.015/0.032	0.000	No
915	Mid 70's	Slight NE	0.0/0.0/1.5	0.050/0.015/0.038	0.000	No
930	Mid 70's	Slight NE	0.0/0.0/0.5	0.012/0.020/0.066	0.000	No
945	Upper 70's	Slight NE	0.0/0.0/0.0	0.014/0.019/0.046	0.000	No
1000	Upper 70's	Slight NE	0.0/0.0/0.1	0.016/0.014/0.044	0.000	No
1015	Upper 70's	Slight NE	0.0/0.0/0.0	0.015/0.007/0.088	0.000	No
1030	Upper 70's	Slight NE	0.0/0.0/0.0	0.031/0.010/0.038	0.000	No
1115	Low 80's	Slight NE	0.0/0.0/0.0	0.024/0.012/0.035	0.000	No
1130	Low 80's	Slight NE	0.0/0.0/0.0	0.024/0.020/0.035	0.000	No
1145	Low 80's	Slight NE	0.0/0.0/0.0	0.020/0.020/0.053	0.000	No
1200	Low 80's	Slight NE	0.0/0.0/0.0	0.025/0.020/0.044	0.000	No
1210	Low 80's	Slight NE	0.0/0.0/0.1	0.023/0.030/0.044	0.000	No
1215	Low 80's	Slight NE	0.0/0.0/0.0	0.036/0.040/0.016	0.000	No
1230	Low 80's	Slight NE	0.0/0.0/0.0	0.036/0.040/0.016	0.000	No
1245	Low 80's	Slight NE	0.0/0.0/0.0	0.033/0.040/0.016	0.000	No
1300	Low 80's	Slight NE	0.0/0.0/0.0	0.036/0.040/0.016	0.000	No
1315	Low 80's	Slight NE	0.0/0.0/0.0	0.024/0.012/0.041	0.000	No
1330	Low 80's	Slight NE	0.0/0.0/0.5	0.024/0.016/0.041	0.000	No
1345	Low 80's	Slight NE	0.0/0.0/0.0	0.053/0.012/0.047	0.000	No

Notes:

1. Air Monitoring was conducted continuously with measurements collected every 15 minutes during intrusive activities.
2. VOCs were monitored upwind, downwind, and within the work area.
If the vapor levels, integrated over a period of 15 minutes, was greater than 5 ppm, work activities were halted and monitoring continued under the provisions of the Vapor Emission Response Plan.
3. Particulates were monitored continuously upwind, downwind and within the work area. If downwind particulate levels, integrated over a period of 15 minutes, was 0.150 mg/m³ greater than upwind particulate levels, then dust suppression techniques were increased.
4. Mercury Vapor was monitored continuously within the work area during fill material removal activities. If the vapor levels, integrated over a period of 15 minutes, was greater than 0.025 mg/m³, then dust suppression techniques were increased.
5. Dust suppression techniques were constantly employed during excavation via spraying water on fill material.
6. Upwind was generally between the excavation and Gerry Street.
7. Downwind was generally between the excavation and Union Avenue.

Legend:

^oF - degrees Fahrenheit
ppm - parts per million
mg/m³ - milligrams/cubic meter
up - upwind of excavation
down - downwind of excavation
within - within excavation
VOCs - Volatile Organic Compounds
NM - Not measured
NW - Northwest
SE - Southeast
E - East
SW - Southwest
W - West
NE - Northeast