FRITO-LAY

BROOKLYN, KINGS COUNTY, NEW YORK

Final Engineering Report

NYSDEC Site Number: C224133

Prepared for:

Rolling Frito-Lay Sales, LP

7701 Legacy Drive, 4C83

Plano, Texas 75024

Prepared by:

Gannett Fleming Engineers, P.C.

100 Crossways Park West

(516) 364-4140

NOVEMBER 2013

CERTIFICATIONS

I, Vincent Frisina, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Work Plan was implemented and that all construction activities were completed in substantial conformance with the Department-approved Remedial Work Plan.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the Remedial Work Plan and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established in for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by Department.

I certify that any financial assurance mechanisms required by the Department pursuant to Environmental Conservation Law have been executed.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Vincent Frisina, of Gannett Fleming Engineers, P.C., 100 Crossways Park West, Woodbury, New York, am certifying as Owner's Designated Site Representative for the site.

059115-1	11/5/2013	Vincent Frisina, P.E.
NYS Professional Engineer Number	Date	Gannett Fleming Engineers, P.C.

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LIST OF ACRONYMS

Acronym	Definition
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
cy	cubic yard
DER	Division of Environmental Remediation
DER-10	NYSDEC Technical Guidance for Site Investigation & Remediation
DUSR	Data Usability Summary Report
ECs	Engineering Controls
ECL	Environmental Conservation Law
ESA	Environmental Site Assessment
ft-bgs	Feet below ground surface
FER	Final Engineering Report
FWRIA	Fish and Wildlife Resources Impact Analysis
Frito-Lay	Rolling Frito-Lay Sales, LP
GF	Gannett Fleming Engineers, PC.
HHEA	Human Health Exposure Assessment
ICs	Institutional Controls
µg/L	Micrograms per Liter
µg/kg	Micrograms per Kilogram
mg/L	Milligrams per Liter
mg/kg	Milligrams per Kilogram
MW	Monitoring Well
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCBs	Polychlorinated Biphenyls
ppm	Parts per million
RA	Remedial Action
RAO	Remedial Action Objectives
RWP	Remedial Work Plan
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
SCG	Standards, Criteria, and Guidance
SCOs	Soil Cleanup Objectives
SMP	Site Management Plan
SSDS	Sub-Slab Depressurization System
SVOCs	Semi-Volatile Organic Compounds
TAL	Target Analyte List
TSCA	Toxic Substances Control Act
TOGS	Technical and Operations Guidance Series
TSCA	Toxic Substances Control Act
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

FINAL ENGINEERING REPORT

1.0 BACKGROUND AND SITE DESCRIPTION

Rolling Frito-Lay Sales, LP (Frito-Lay) entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in August 2009, to investigate and remediate a 2.76-acre property located in Brooklyn, Kings County, New York. The property was remediated to industrial use and will be used for use as fleet parking for the Frito-Lay's 222 Morgan Avenue operations.

The site is located in the County of Kings, New York and is identified Block 02942 and Lots 0105, 0111, and 0112 on the on the Kings County Tax Map # 2942. The site is situated on an approximately 2.76-acre area bounded by bounded by the Frito-Lay warehouse (222 Morgan Avenue) to the north, English Kills and an industrial property to the south, English Kills to the east, and Morgan Avenue to the west (see Figures 1-1 and 1-2). The boundaries of the site are fully described in Appendix A: Survey Map, Metes and Bounds/Permanent Survey Markers for Horizontal and Vertical Controls.

An electronic copy of this FER with all supporting documentation is included as Appendix B.

2.0 SUMMARY OF SITE REMEDY

2.1 REMEDIAL ACTION OBJECTIVES

Based on the results of the Remedial Investigation, the following Remedial Action Objectives (RAOs) were identified for this site.

2.1.1 Groundwater RAOs

RAOs for Public Health Protection

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer, to the extent practicable, to pre-disposal/pre-release conditions.
- Prevent the discharge of contaminants to surface water.
- Remove the source of ground ~~or surface~~ water contamination.

2.1.2 Soil RAOs

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure to, contaminants volatilizing from contaminated soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

2.1.3 Surface Water RAOs

Not Applicable

2.1.4 Sediment RAOs

Not Applicable

2.2 DESCRIPTION OF SELECTED REMEDY

The site was remediated in accordance with the remedy selected by the NYSDEC in the Remedial Work Plan (RWP) dated August 2011 and the Decision Document dated September 2011.

The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the selected remedy:

1. Excavation of soil/fill exceeding industrial SCOs listed in Table 2-1 to varying depths dependent on the depth of the original contamination presented on Figure 2-1, as applicable;

   Excavation and off-site disposal of soil/fill containing arsenic, lead, mercury, and PCBs exceeding Restricted Use - Protection of Groundwater and/or Restricted Use - Industrial Soil Cleanup Objectives (SCOs), and site-specific SCOs for arsenic, lead, and mercury - 100 mg/kg for arsenic, 10,000 mg/kg for lead, and 15 mg/kg for mercury, the Restricted Use - Industrial SCOs/EPA's Low Occupancy Area (LOA) criteria for PCB soils of 25 mg/kg and EPA's High Occupancy Area (HOA) criteria of 10 mg/kg for PCB soils within the footprint of the proposed future warehouse location.

   Approximately, 17,063 tons of hazardous PCB (exceeding 50 mg/kg) and non-TSCA PCB (concentrations exceeding 25 mg/kg), 390 tons non-hazardous PCB exceeding 10 mg/kg in the proposed future warehouse location) soil, 69 tons of hazardous lead soil, and 3,710 tons of arsenic, lead, mercury, and with concentrations exceeding the Restricted Use - Protection of Groundwater and/or Restricted Use - Industrial SCOs were excavated for off-site disposal, and placement of imported clean fill material back into the excavation area as part of the selected remedial alternative for the Site. The PCB impacted soil that was

considered "hazardous" required excavation, management, and off-site disposal in accordance with TSCA regulations.

Contaminated soil excavation and removal was completed in 24 individual areas including the eastern and southern bulkhead areas within the Site boundaries that contain concentrations exceeding the site-specific RAOs. The excavations limits both horizontally and vertically were confirmed with the collection of endpoint sampling or previous RI soil sample results.

2. Construction and maintenance of an soil and asphalt cover system consisting of imported clean fill material to prevent human exposure to remaining contaminated soil/fill remaining at the site and meet final grade, covered by asphalt pavement, prevents exposure to trespassers, construction workers, future workers, and visitors that could come into contact with soil containing concentrations of that exceed the Restricted Use - Protection of Groundwater and/or the Restricted Use - Industrial SCOs, even at low levels. The asphalt cover will also limit rain water infiltration into the subsurface and also limiting the potential for leaching of arsenic and lead contaminants into groundwater. For areas outside the asphalt cover area, landscaped areas and areas behind the bulkhead consist of an impermeable membrane was placed on top of the existing soil and generally below a minimum of 12 inches of rip-rap, stone, or top soil which is consistent with NYSDEC requirements. The final cover depths in these areas exceeded 1-foot in all areas.

   The asphalt cover system consists of a 2 inches asphalt top course, 4 inches of asphalt binder course, and includes 11 inches of sub base on top of the demarcation layer placed above soil containing arsenic concentrations exceeding the Restricted Use - Protection of Groundwater, and the lead and mercury concentrations exceeding the Restricted Use - Industrial SCOs and the site-specific RAOs (100 mg/kg for arsenic, 10,000 mg/kg for lead, and 15 mg/kg for mercury) present in the surficial soils.

3. A chain-linked fence with locked gates is located along the eastern and southern perimeter of the property, and a concrete block/brick wall is located along the western perimeter of the property which restricts access to the site. Along the northern perimeter, a partial concrete block/brick wall is opened to allow unrestricted access by Frito-Lay employees from the 222 Morgan Avenue facility

which is also surrounded by a fence or wall which restricts unauthorized access to both Frito-Lay properties.

4. Execution and recording of an Environmental Easement (Appendix C) to restrict industrial land use and prevent future exposure to any contamination remaining at the site.

5. Natural Attenuation - Development and implementation of groundwater Monitored Natural Attenuation (MNA) protocols to monitor the effectiveness of the natural attenuation processes that are at work in the remedial action remedy that include physical, chemical, and biological processes that act without human intervention to reduce mass, toxicity, mobility, volume, or concentration of contaminants in soil and groundwater. These in-situ processes can include biodegradation, dispersion, sorption, volatilization, and chemical or biological stabilization, transformation, or destruction of COCs.

6. The establishment of soil vapor mitigative measures (e.g. Sub Slab Depressurization System [SSDS] or NYSDEC/NYSDOH accepted alternative) to reduce and/or eliminate indoor air concentrations below NYSDOH standards, if necessary to address soil vapors detected during soil vapor intrusion (SVI) activities conducted before all new buildings, and expansion of the warehouse from the adjoining property. An active soil vapor mitigative system may be preferable as a more cost effective alternative to a passive sub-slab depressurization system. The piping and fan associated with an active system could be installed only after initial indoor air sampling indicates SVI mitigation is warranted.

7. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting; and,

8. Periodic certification of the institutional and engineering controls listed above.

3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS

The remedy for this site was performed as a single project, and no interim remedial measures, operable units or separate construction contracts were performed.

3.1 INTERIM REMEDIAL MEASURES

Not applicable.

3.2 OPERABLE UNITS

Not applicable.

3.3 REMEDIAL CONTRACTS

Not applicable.

4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved Remedial Work Plan (RWP) for the Frito-Lay site (August 2011). All deviations from the RWP are noted in Section 4.10 below.

On September 20, 2011, NYSDEC approved the RWP and on November 30, 2012, NYSDEC approved the "Bulkhead Environmental Investigation Results to Support the Remedial Action Work Plan (RAWP) Addendum" dated November 16, 2012 for the Frito-Lay site which are included in Appendix D.

4.1 GOVERNING DOCUMENTS

4.1.1 Site Specific Health & Safety Plan (HASP)

All remedial work performed under this Remedial Action was in full compliance with governmental requirements, including Site and worker safety requirements mandated by Federal OSHA.

The Health and Safety Plan (HASP) was complied with, for all remedial and invasive work performed at the Site.

4.1.2 Quality Assurance Project Plan (QAPP)

The QAPP is included as Appendix E which was previously approved by the NYSDEC. The previously approved QAPP describes the specific policies, objectives, organization, functional activities and quality assurance/ quality control activities designed to achieve the project data quality objectives.

4.1.3 Construction Quality Assurance Plan (CQAP)

The Construction Quality Assurance Plan(s) (CQAPs) managed performance of the Remedial Action tasks through designed and documented QA/QC methodologies applied in the field and in the lab. The CQAP provided a detailed description of the observation and testing activities that were used to monitor construction quality and confirm that remedial construction was in conformance with the remediation objectives and specifications.

4.1.3.1 Project Organization

The following is a list of key personnel responsible for design, management, and implementation of the remedial construction activities at the Site.

Rolling Frito-Lay Sales, LP is the owner of the Site, the Haskell Company was responsible for construction management during remediation and site improvement activities, and Gannett Fleming was responsible for environmental remediation design and oversight. The Engineer of Record for this project is Vincent Frisina, P.E. Principal personnel from Gannett Fleming who participated in the design and coordination for the remedial action include Michael Brady, P.E., Senior Engineer, and Bryan Tiskowitz, Environmental Scientist.

The remedial contractor responsible for day-to-day remedial activities at the site was Coppola Paving and Landscaping Corporation (CPLC). Brookside Environmental, Inc. was responsible for coordinating with the disposal facilities, coordinating with disposal transporters, and arranging for liquid waste sampling and off-site disposal.

4.1.3.2 Endpoint Soil Samples

Endpoint soil samples were collected to demonstrate that soil exceeding the site-specific SCOs for arsenic of 100 mg/kg, for lead of 10,000 mg/kg, for mercury of 15 mg/kg, and the Restricted Use - Industrial SCOs for PCBs of 25 mg/kg, the EPA's Low Occupancy Area (LOA) cleanup criteria of 25 mg/kg or the High Occupancy Area (HOA) cleanup criteria of 10 mg/kg for PCB contaminated soil had been removed. Upon reaching the initial excavation limits, endpoint samples were collected and analyzed in accordance with the NYSDEC-approved RWP. The endpoint sample results determined whether the excavation had met the site-specific SCOs, the Restricted Use – Industrial SCOs, the HOA, and EPA's LOA criteria for PCB contaminated soil or whether additional excavation was needed. The endpoint sampling results directed termination or continuation of the excavation.

Endpoint sidewall samples were generally collected from the northern, southern, eastern, and western sidewalls at a depth of 12 to 14 inches below the surface and subsurface endpoint sidewall samples were collected from the northern, southern, eastern, and western sidewalls at 12 to 14 below the mid-point excavation depth for each remedial area (RA). Bottom (center of the excavation area) endpoint samples were generally

collected 0 to 6 inches below the bottom of the excavation. The proposed endpoint sample locations are provided in Table 4-1 and are shown on Figure 4-1.

When additional excavation was required to achieve site cleanup levels, it was followed by additional round(s) of endpoint sampling until soil concentrations below the site-specific SCOs for arsenic, lead, and mercury, and the Restricted Use - Industrial SCOs, the LOA criteria, and/or the HOA criteria for PCBs were achieved. Sample depths were altered due to field limitations and the actual depth of groundwater at the time of sampling, as appropriate.

In accordance with NYSDEC's DER-10 (Technical Guidance for Site Investigation and Remediation) requirements, additional endpoint sidewall samples were collected for every additional 30 lineal feet of sidewall excavation and endpoint bottom samples were collected for every additional 900 square feet of bottom excavation, beyond the initial excavation limits.

In most instances, if an endpoint sidewall sample exceeded the site-specific SCOs for arsenic, lead, and mercury, and the Restricted Use - Industrial SCOs, the LOA criteria, and/or the HOA criteria for PCBs, excavation (the full excavation depth) was extended an additional 5 to 10 feet beyond the initial excavation limit in the direction where the failed sample was initially collected. This remedial excavation process continued until the surface and subsurface endpoint sample results were reported below the site-specific or Restricted Use – Industrial SCOs, the LOA criteria, and/or the HOA criteria for PCBs or a previously document sample was positioned outside the extended excavation area and the excavation proceeded to the previously documented sample which was below the applicable SCO. NYSDEC allowed the use of a previously documented sample as an endpoint sample as long as this sample was collected from the same sample depth interval consistent with the remedial excavation depth.

If the surface endpoint sample failed and the subsurface endpoint sample passed, excavation (the full excavation depth) continued in the direction of the failed surface endpoint sample and an additional endpoint sampling was collected at a depth of 12 to 14 inches below the surface. Alternately, if the subsurface endpoint sample failed and the surface endpoint sample passed, the excavation (the full excavation depth) continued in the direction of the failed subsurface endpoint sample. If the bottom endpoint sample failed, excavations proceeded an additional 1 foot in depth, unless the sample concentration significantly exceeding the specific SCO and a deeper excavation depth of 2 to 3 feet was warranted. This process continued until an endpoint sample passed or a

previously document RI sample location was positioned outside the extended excavation area and the excavation proceeded to the previously documented RI sample which was below the specific SCO.

Each endpoint sample was collected using dedicated sampling equipment for sample collection which was properly disposed after each sample was collected. Endpoint soil samples were placed into laboratory-supplied glassware, immediately stored in an ice-filled cooler, and shipped with chain-of-custody documentation to a NYSDOH-certified laboratory.

4.1.3.3 Progress Meetings

Progress meetings were held via daily conference calls to discuss, address, and resolve issues that occurred during remedial activities. Attendees included representatives from Frito-Lay, GF, the Haskell Company (Construction Management Consultant for Frito-Lay), Paulus, Sokolowski and Sartor, LLC (PS&S) (Site Civil Engineer), and Coppola Paving and Landscaping Corporation (CPLC) (Remedial Contractor), and other parties to the project as required. These meetings were held during the entire remedial activity process. In addition, weekly progress meetings were held every Wednesday via conference call to discuss, address, and resolve issues that occurred during remedial activities. Attendees included representatives from Frito-Lay, GF, Haskell, PS&S, and Coppola (Remedial Contractor), and other parties to the project as required.

Haskell prepared and distributed an agenda for each meeting, provided meeting minutes for these meetings, and distributed draft copies to all attendees. Comments were received and the minutes were amended accordingly. Final copies were then distributed to all attendees. Copies of the progress meetings conducted during the remedial activities are provided in Appendix F.

4.1.3.4 Progress and Daily Reports

In accordance with the BCP Agreement, monthly progress reports were submitted on the 10th day of each month. The monthly progress reports included descriptions of actions taken during the reporting period, anticipated actions for the next reporting period, approved modifications or changes to the scope, sampling and analytical results, if any, information regarding percentage of completion, unresolved delays, and citizen

participation activities. Copies of the monthly progress reports prepared and submitted to NYSDEC during the remedial activities are provided in Appendix F.

The monthly progress reports during the remedial actions also included:

- Requests for Modifications, if any
- Tabulation of Sample Results
- Air monitoring report
- Tabulation and Documentation of Waste Characterization Sampling
- Disposal Documentation
- Types and Quantities of Waste Generated and Disposed

Daily reports providing a summary of activities for each day of active remedial work were prepared at the end of each day are provided in Appendix F. These reports included:

- A statement of the activities and an update of progress made;
- Locations of work performed;
- Quantities of material imported and exported from the Site;
- Status of on-Site soil/fill stockpiles;
- A summary of all citizen complaints, with relevant details (basis of complaint; actions taken; etc.);
- A summary of CAMP excursions; and,
- Photographs of notable Site conditions and activities.

4.1.3.5 Data Quality Objectives

The data obtained from the samples collected at the site was used to provide information to satisfy the data quality objective (DQO) of investigating and delineating impacted soil and groundwater.

DQOs were based on the concept that different data uses may require different levels of data quality. DQOs were defined with respect to the types, number, and locations of samples that were collected, and the QA levels associated with the analysis. Soil samples were analyzed for PCBs and metals. Groundwater samples were analyzed for VOCs and metals.

The overall QA objective was to develop and implement procedures for field measurements, sampling, and analytical testing that will provide data of known quality that is consistent with the intended use of the information. This section defines the objectives by:

- describing the use of the data
- specifying the applicable QC effort (field checks and analytical support levels), and
- defining the QC objectives (data quality acceptance criteria).

Data Usage and Requirements

The laboratory analyses were used to support the remedial process. The intended uses of the data from the sample collection were to delineate on-site impacted soil for disposal purposes. The data was quantitative laboratory analyses.

The endpoint samples were collected with hand augers/plastic spatulas. All soil samples were collected as grab samples from the specified depth intervals. Additional endpoint samples were collected based on previous endpoint data that exceeded allowable contaminant concentrations. The groundwater samples were collected using a submersible or peristaltic pump.

Soil and groundwater samples were submitted to the laboratory certified by the New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP) for VOCs, PCBs, and metals analysis.

Quantification limits for the laboratory analyses were in conformance with the appropriate EPA methodology for the specified analyses unless dilution or interference effects make it necessary to raise them. The laboratory made every effort to achieve quantification limits as low as practicable and reported estimated concentration values at less than the detection limit by flagging the value with a "J".

Level of Quality Control Effort

The sampling team collected QA/QC samples including field and trip blanks, and duplicate samples to ensure and document the integrity of the sampling procedures, laboratory sample handling procedures, and the validity of the measurement data.

Analyte-free deionized water was obtained from the laboratory to be used for trip blanks, collecting field blanks, and the final decontamination rinse where required. This water was prepared and analyzed by the laboratory on a routine basis and a record of this

data was kept on file. Protocols for the handling of trip blanks, collection of field blanks, and decontamination of equipment was provided in the RWP. Field blanks were prepared and analyzed for the same parameters as the samples to determine if cross-contamination had occurred during sampling.

One trip blank, consisting of two 40-ml vials filled with analyte-free deionized water, was provided by the laboratory for each cooler used to ship and store volatile organic samples during each sampling event. Field blank and duplicate samples were collected at a frequency of one per 20 samples collected.

The level of QC effort provided by the laboratory when analyzing the samples collected at the site will conform to standard NYSDEC protocols (NYSDEC 2000).

Quality Control Objective

The QC objective for the remedial action was to provide data of known and acceptable quality. Several different types of QC check samples were analyzed and the results were compared to data quality acceptance criteria and/or QC control limits that are specified for each method. The laboratory routinely runs these QC samples in accordance with the protocols and frequencies specified in the analytical methods. The QC check samples included the following:

- Blank samples,
- Initial and continuing calibrations,
- Surrogate spikes,
- Matrix spikes/analytical spikes,
- Duplicate samples, and
- Control samples.

The specific types and frequencies of QC checks which were performed in support of each test method, the calibration procedures for each instrument, and the QC control limits and/or data quality acceptance criteria for each of the types of QC check samples, are specified in the laboratory's QAPP and were in accordance with ELAP protocol.

Sampling Methodology

Samples were collected in accordance with the RWP. The protocols for sampling methodology are described in Section 5 in the RWP.

Decontamination of Sampling Equipment

All non-dedicated sampling equipment was decontaminated prior to and following sample collection using a phosphate-free detergent wash and then rinsed with water.

Sample Packaging and Shipment

Samples were shipped to the laboratory at the completion of each day of sampling. Custody of the samples was maintained through the shipment of samples to the laboratory. Samples were in the custody of the sampling crew until relinquished directly to the laboratory in person or shipped via overnight courier using the following procedures:

- Place about three inches of inert cushioning material (i.e. bubble wrap) in the bottom of the cooler,
- Place and seal the sample containers in clear, reusable plastic bags and pack the containers in the cooler,
- Place suitable cushioning material around the sample containers,
- Place ice cubes into reusable plastic bags and pack the ice in the cooler; use sufficient ice to maintain 4^{o}C until the samples arrive at the laboratory,
- Sign and retain a copy of the Chain-of-Custody form; place the form into a reusable plastic bag and pack in the cooler,
- Apply signed custody seals to the front and back of the cooler so the seals bridge the cooler and lid,
- Secure the lid by completely wrapping it with clear plastic packaging tape, and,
- Attach the completed shipping label to the top of the cooler; retain the shipment tracking number on the copy of the Chain-of Custody form, and ship the cooler via overnight to the laboratory.

Sample Labeling

Sample labels were required to include the following information:

- Site name,
- Sample number,

- Sample matrix,
- Parameters to be analyzed,
- Date of collection,
- Time of collection,
- Type of preservative, and,
- Sampler's name.

Sample Numbering

A unique sample number was used to identify a location (e.g. grid cell), a sequential number for each sample type, a sample depth, and the date and time the sample was collected. The typical format for designating the sample number was XXX/XX/X/X-X, where:

XXX = alpha-numeric-alpha to indicate Remediation Cell/Area (e.g., H4C)

XX = alpha-numeric to indicate a shallow (S1) or deep (S2) sidewall sample

X = numeric digit to indicate the horizontal interval from which the sample was collected (e.g., 1 = 5 feet from original endpoint sample, 2 = 10 feet, etc.).

X-X = sample depth interval (in inches) from which the sample was collected

QA/QC samples were collected at a rate of one per 20 total samples collected. QA/QC samples were labeled as indicated below:

Blanks = B-XX/MMDDYY

Chain-of-Custody Record

The Chain-of-Custody provides an accurate written record that is used to trace the possession and handling of the sample from the time of collection to analysis. The Chain-of-Custody form was completed for each sample at the time of collection and was maintained while shipping the sample to the laboratory. The following information was entered on the Chain-of-Custody form:

- Project number,
- Project name,
- Signature of sampler,

- Sample number,
- Date and time,
- Sample matrix,
- Parameters for analysis, and,
- Remarks, as needed.

All samples were delivered to the laboratory within 24 hours from time of collection.

Sample Custody

A chain-of-custody record was maintained for each sample collected and provided an accurate written record that is used to trace the possession of samples from collection through analysis and reporting. Sample bottles used for this project were selected, prepared, and quality controlled according to OSWER Directive #9240-0-005 "Specifications and Guidance for Obtaining Contaminant-Free Sample Containers" (USEPA 1989b).

The procedures that were followed to provide the chain-of-custody in the field from sample collection through shipment to the laboratory (including sample preservation) were specified in the RWP. The procedures that were used to continue the chain-of-custody for each sample from its arrival in the laboratory through analysis and reporting was specified in the laboratory QAPP. The laboratory sample custody procedures conformed to USEPA guidelines. The project samples were retained by the laboratory for 30 days after completion of analyses.

Analytical Procedures

Samples were analyzed by a NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified laboratory. The laboratory maintains current NYSDOH certifications during the project. All analyses were performed in accordance with the EPA protocol established for the specified analyses. The specific parameters, and analytical methods used for analysis of the samples are provided in Section 5 of the RWP.

Data Reduction and Reporting

Data collected during the remedial investigation, including field and laboratory results, were reduced, reviewed, summarized, and reported. The reduction of the field data consisted of summarizing the raw field data, which was presented in the form of tables, logs,

illustrations, and graphs, as deemed appropriate by the project manager. The laboratory data were also reduced and tabulated electronically. The data was then suitable for inclusion in reports and was designed to facilitate comparison and evaluation of the results.

Data Usability Summary Reports

The Data Usability Summary Reports (DUSRs) provide a thorough evaluation of analytical data without third party data validation including post remedial samples. The primary objective of DUSRs was to determine whether or not the data meets the site/project specific criteria for data quality and data use. The DUSRs for post-remedial samples collected during implementation of the RWP is further discussed in Section 4.4.4.

4.1.3.6 Remediation Plans and Specifications

The remediation plans and specifications were prepared to provide the remedial contractor with the specific requirements to complete the remedial action for the Site. The specifications provided the remedial contractor with the requirements necessary to prepare and submit for review and approval: a site-specific Health and Safety Plan; Waste Management Plan and Report; Soil Stockpile Plan; Dewatering Plan; Spill Prevention and Response Plan; Fugitive Dust Emissions Control Plan; and Traffic Control Plan.

4.1.3.7 Corrective Action/Evaluation and Acceptance Reports/Criteria

The remedial contractor was required to develop specific documents, health and safety plan, submittals for transporter acceptance, disposal facility acceptance, clean fill acceptance, and other items in accordance with the project plans and specifications which required the review and approval of GF, Frito-Lay, and Haskell.

The remedial contractor normally made a submittal to GF depending on the requirements that needed to be implemented or evaluated. GF would review the submittal, evaluate the submittal against established site-specific or regulatory requirements, and identify items that required revision or modification prior to acceptance. A submittal review form was used by GF for every transporter/364 permit, clean fill analytical data, clean fill sampling plan, and other regulatory driven requirements.

If the submittal was unacceptable, a memorandum was prepared and submitted to the remedial contractor outlining the issues that needed correction or required additional information prior to issuance of a revised submittal. If the submittal was acceptable, a memorandum was prepared and submitted to the remedial contractor prior to implementation.

Corrective actions were addressed when it was found that the remedial contractor was implementing incorrect procedure or action during the excavation, loading, stockpiling, dewatering, soil erosion/sediment control, decontamination procedures, etc. Once an issue was identified, a meeting was held with the remedial contractor, Haskell, and GF representatives to discuss, evaluate, and correct the specific incorrect procedure or action. If this issue was not resolved, the remedial contractor was further evaluated with the assistance of Frito-Lay representatives in order to permanently correct the procedure or action.

Corrective actions were also implemented if organic vapors or dust emissions exceeded allowable criteria. If organic vapors or dust emissions exceeded allowable criteria, corrective measures were implemented including worker upgrade to a higher PPE and/or stopping work and implementing control measures such as dust suppression methods.

4.1.3.8 Record Retention

All environmental-related reports including the Remedial Work Plan (RWP), the Site Management Plan (SMP), and the FER that were prepared for the 202-218 Morgan Avenue site will be kept on file at Frito-Lay's 222 Morgan Avenue facility and will also be maintained at a location selected by Frito-Lay.

4.1.4 Soil/Materials Management Plan (S/MMP)

Soil excavation and removal activities were performed to achieve the site-specific RAOs for arsenic at 100 mg/kg, for lead at 10,000 mg/kg, and for mercury at 15 mg/kg, and for the Restricted Use - Industrial SCOs for PCBs at 25 mg/kg. These activities required the proper planning and implementation of site clearing, soil excavation, endpoint sampling and verification of results, stockpiling, waste characterization, transportation and off-site disposal.

Implementation of the soil remedial action plan generally consists of the following steps:

- Install soil erosion and sediment controls;
- Clear the site and remove debris;
- Excavate soil up to the initial excavation limits;
- Perform endpoint sampling in accordance with Section 4.1.3.3, determine whether cleanup goals have been satisfied, and if needed, conduct additional excavation followed by another round of endpoint sampling;
- Stage excavated soil, characterize each stockpile and identify an appropriate off-site disposal facility;
- Load stockpiled soil into trucks for off-site disposal;
- Transport for off-site disposal; and,
- Backfilling, grading, and restoring the site.

4.1.4.1 Waste Characterization

Waste characterization was performed for off-site disposal in a manner required by the receiving facility and in conformance with applicable permits. A waste manifest system or equivalent to oversee off-Site transportation of exported materials was implemented. A notification of Hazardous Waste Activities was submitted to the USEPA and EPA ID NJR000188193 was issued to the site.

Hazardous wastes derived from on-Site was transported, and disposed of in full compliance with applicable City, State, and Federal laws and regulations. Each sample was analyzed for the parameters required by the receiving disposal facility. Each waste classification sample was collected and analyzed for the following anticipated parameters: Full TCLP Waste Classification (Method SW846/EPA 1311), RCRA characteristics (Method SW846/EPA), Polychlorinated Biphenyls (Method SW846 8081/8082), volatile organic compounds (Method SW846 8260B), semi-volatile organic compounds (Method SW846 8270C), and TAL Metals (Method SW846/EPA 6010/7471). Additional analyses requested by individual facilities were performed to meet specific guidelines and criteria.

Over 90 waste characterization samples were collected prior to and during remedial activities to comply with disposal facility requirements. The waste characterization results were generally consistent with RI sample results; however, additional areas where PCB contaminated soil exceeded the Restricted Use - Industrial SCOs of 25 mg/kg and TSCA criteria of 50 mg/kg were identified. The waste

characterization sample locations are provided on Figure 4-2 and the waste characterization sample results are presented in Table 4-2.

4.1.4.2 Remedial Excavation

Each remedial area was excavated to the excavation depth and extent identified in the RWP. Excavated areas were widened or deepened if soil endpoint sampling data indicated that the contaminated soil removal objective had not been achieved. Excavation continued until the site-specific SCO and/or Industrial SCO was achieved.

Soils were excavated with a front-loader or backhoe and loaded directly to disposal vehicles. Open excavations were covered with polyethylene sheeting if rain was anticipated. Soils were managed for dust control as necessary based on air monitoring measurements and physical indications of dust generation or general dusty conditions. If wetting was insufficient for dust control, soil were covered or removed.

Loaded trucks were move to the truck decontamination pad/weigh station where soils were removed from fenders and tires and the bed was covered. Each loaded truck left the site with a completed manifest for transport of soil or other material to the disposal location. Soil loading and off-haul routes were provided by the Contractor prior to the removal of any soil from the Site.

Personnel on site observed OSHA safety standards and follow the approved Health and Safety Plan (as provided in Appendix C of August 2011 RWP), which addresses the safety of personnel entering excavations, if necessary, for the purposes of surveying and operating equipment.

4.1.4.3 Soil Load Out

Excavated soil was loaded directly into the disposal trucks. Loaded vehicles leaving the Site complied with all applicable materials transportation requirements (including appropriate tarping, secure covering, manifests, and placards) in accordance with City, State, and Federal laws and regulations, including use of licensed haulers in accordance with 6 NYCRR Part 364. Loose or incomplete truck covers were prohibited. If loads contain wet material capable of causing leakage from trucks, truck liners were used. Queuing of trucks was performed on-site, when possible in order to minimize off-site disturbance. Off-Site queuing by the remediation contractor was discouraged.

4.1.4.4 Disposal

Once the soil was characterized, the soil was acceptable for off-site disposal. Excavated soil was loaded directly into trucks for off-site transportation and disposal. The PCB contaminated soil with concentrations exceeding 50 mg/kg was disposed at Model City, New York, a TSCA permitted Subtitle "C" hazardous waste landfill. The PCB soils with concentrations less than 25 mg/kg and greater than 10 mg/kg, and arsenic concentrations exceeding the site-specific SCO of 100 mg/kg were disposed of at Chemical Waste Management's GROWS North Landfill and Tully Landfill, and hazardous lead concentrations were disposed of at Clean Earth of North Jersey.

4.1.5 Storm-Water Pollution Prevention Plan (SWPPP)

The erosion and sediment controls for all remedial construction were performed in conformance with requirements presented in the New York State Guidelines for Urban Erosion and Sediment Control and the site-specific Storm Water Pollution Prevention Plan prepared by Paulus, Sokolowski and Sartor, LLC (PS&S Engineering, Inc.) dated July 15, 2012 which is provided in Appendix G.

4.1.6 Community Air Monitoring Plan (CAMP)

A Community Air Monitoring Program (CAMP) was implemented during the remedial activities. Specifically, the CAMP outlines the air quality monitoring procedures that were followed to protect the downwind community (i.e., off-site receptors, including residents and off-site outside workers) from potential airborne contaminant releases that were a direct result of the remedial activities. The CAMP is consistent with the NYSDOH Generic CAMP.

The following sections describe the specific CAMP monitoring procedures for particulates, VOCs, and mercury vapors.

4.1.6.1 Particulate Monitoring

Ambient air was monitored in real-time during remedial activities. Air monitoring for particulates (i.e., dust) were performed continuously during remedial activities using both air monitoring equipment and visual observations. Monitoring equipment capable of measuring particulate matter smaller than 10 microns (PM-10) and capable of integrating (averaging) over periods of 15 minutes or less, at a minimum, were

set up at one upwind (background) and one downwind location, at heights approximately 4 feet to 5 feet above land surface (i.e., the breathing zone). This equipment recorded the 15-minute average concentrations for subsequent downloading and reporting. An audible alarm on the downwind particulate monitoring device was set at 100 micrograms per cubic meter ($\mu g/m^3$) above the background level (i.e., the upwind location).

Upwind concentrations were measured at the start of each workday and periodically throughout the day thereafter to establish background conditions. The CAMP coordinator recorded the wind direction and speed as described below. These readings allowed the CAMP coordinator to ensure that CAMP equipment was located appropriately based upon the wind direction. The particulate monitoring equipment was calibrated at the start of each day and as necessary throughout the day.

The monitoring results were compared to the following:

- If the downwind PM-10 particulate level was 100 $\mu g/m^3$ greater than background (upwind perimeter) for the 15-minute period or if airborne dust was observed leaving the work area, then dust suppression techniques (e.g., soil wetting) were employed. Work continued with dust suppression techniques, provided that downwind PM-10 particulate levels did not exceed 150 $\mu g/m^3$ above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels were greater than 150 $\mu g/m^3$ above the upwind level, work was reevaluated and changes initiated to reduce particulate levels to less than 150 $\mu g/m^3$ above background conditions and to prevent visible dust migration, including work stoppage when necessary.

Meteorological Data - Meteorological data consisting of wind speed, wind direction, temperature, and barometric pressure were recorded at a minimum of three times each day. These results were utilized to position the particulate monitoring equipment in appropriate upwind and downwind locations. A Davis Corporation wireless instrument station (or equivalent) was used to collect all meteorological monitoring data.

Potential Suppression Techniques - If the integrated particulate level at the downwind location exceeds the upwind level by more than 150 $\mu g/m^3$ at any time during sampling activities, work was stopped and dust suppression methods were employed.

Work continued with dust suppression techniques, provided that downwind PM-10 levels were not greater than 150 µg/m^3 greater than the upwind levels; all measures necessary to ensure PM-10 levels of less than 150 µg/m^3 above background were utilized.

There could also be situations where visible dust is generated by remedial activities and migrates to downwind locations but is not detected by the monitoring equipment at or above the action levels. Therefore, if visible dust was observed leaving the working area, dust suppression methods were employed. If dust suppression methods did not lower particulates to below 150 µg/m^3 or visible dust persists, additional measures, including work suspension if necessary, were implemented to remedy the situation.

Dust suppression methods were used throughout the duration of remediation. There were no specific instances where remedial activities were "shut-down" due to high levels of particulates. If an alarm was sounded, dust suppression methods were implemented to elevate these conditions. There were no complaints received during remedial activities due to visible dust conditions,

4.1.6.2 Volatile Organic Compound Monitoring

VOCs were monitored at the downwind perimeter of the immediate area surrounding the excavation area on a continuous basis. Upwind concentrations were measured at the start of each workday and periodically thereafter (not less than three times per day) to establish background conditions. The monitoring work was performed using equipment appropriate to measure the types of contaminants known or suspected to be present (MiniRAE 2000 PID or equivalent). The equipment was calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment was capable of calculating 15-minute running average concentrations, which were compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area exceeds 5 parts per million (ppm) above background for the 15-minute average, remedial activities were temporarily halted in the area of concern and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities resumed with continued monitoring.

- If total organic vapor levels at the downwind perimeter of the work area persisted at levels in excess of 5 ppm over background but less than 25 ppm, remedial activities were halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities resumed provided that the total organic vapor level at the downwind perimeter of the work area was below 5 ppm over background for the 15-minute average.
- If the organic vapor level was more than 25 ppm above background at the downwind perimeter of the work area, remedial activities were halted in the area of concern until corrective measures were identified and implemented to reduce emissions as described above.

There were no recorded incidents where organic vapor levels exceeding established criteria during remedial activities. All air monitoring data and the locations of monitoring equipment were recorded in the on-site files and are available for review.

4.1.6.3 Mercury Vapor Monitoring

Mercury monitoring in ambient air was conducted during remedial activities to assess the potential for fugitive mercury vapor concentration in air. This monitoring program employed two Jerome 431-X Gold Film Mercury Vapor Analyzers manufactured by Arizona Instrument, LLC of Chandler Arizona (Arizona Instruments). The Jerome 431-X is an ambient air analyzer with a range of 0.001 to 0.999 milligrams per cubic meter (mg/m^3 Hg). One unit was staged upwind and the second unit was staged downwind, with readings monitored and recorded every fifteen 15 minutes throughout remedial activities. A wind sock was employed to assist project staff in determining wind direction, and assist with identifying sudden changes in wind direction. Additionally, at least one day of baseline data, prior to the start of remedial activities was collected along the Site perimeter. Mercury vapor data was logged in the in a separate CAMP log book during the remedial activities.

Air quality criteria for mercury vapor concentrations in air greater than 0.1 mg/m^3 (OSHA permissible exposure limit [PEL]) above background levels was established as the work zone perimeter limit. To provide additional assurance, a lower control level 0.05 mg/m^3 above background levels was also established. If this lower level was exceeded for a 15-minute period, additional vapor suppression measures (such as increasing the use of water, reducing equipment speeds, or work stoppage) were

implemented. If the perimeter limit is exceeded, remedial activities were immediately halted and subsequently re-evaluated.

There were no recorded incidents where mercury vapor levels exceeding established criteria during remedial activities. All air monitoring data and the locations of monitoring equipment were recorded in the on-site files and are available for review. Figure 4-3 presents the location of the air monitoring equipment during remedial activities.

4.1.7 Contractors Site Operations Plans (SOPs)

The Remediation Engineer reviewed all plans and submittals for this remedial project (i.e. those listed above plus contractor and subcontractor submittals) and confirmed that they were in compliance with the RWP. All remedial documents were submitted to NYSDEC and NYSDOH in a timely manner and prior to the start of work.

4.1.8 Community Participation Plan

The Citizen's Participation Plan (CPP) was prepared in accordance with the NYSDEC Department of Environmental Remediation (DER)-23, Draft Citizen Participation Handbook for Remedial Programs.

The purpose of the CPP was to provide:

- An overview of the site history and contamination issues;
- The major elements of the site's remedial program;
- An updated list of the names and addresses of the interested public set forth in the Site contact list provided with the Brownfields program application;
- The name and address of the document repository; and,
- A description of citizen participation activities already conducted and planned for the Site.

The NYSDEC approved the first Public Notice Fact Sheet on January 6, 2009 for the implementation of remedial investigation activities. This Public Notice was sent to the required notification list on January 7, 2009. The Public Notice was published in the New York Daily News on January 12, 2009. The RWP Fact Sheet was approved by

NYSDEC and sent to the CPP addressees in June 2011 for the implementation of remedial activities. The Phase I Remedial Action Fact Sheet was approved by NYSDEC and was sent to the CPP addressees in January 2012.

After issuance of the Fact Sheets, 30-day (for RI Work Plans) and 45-day (for other documents) public comment periods followed. To date, no public comments have been received by NYSDEC from local citizens, residents, or the community pertaining to the fact sheets for the RWP or for the Remedial Action.

Project documents are available at the Brooklyn Public Library Bushwick Branch to help the public stay informed. These documents include the site remedial investigation work plan, the remedial investigation report, and the RWP.

4.2 REMEDIAL PROGRAM ELEMENTS

4.2.1 Contractors and Consultants

The remedial contractor that was responsible for day-to-day remedial activities at the site was Coppola Paving and Landscaping Corporation (CPLC). Coppola was responsible for the excavation and load-out of contaminated soil scheduled for off-sit disposal and were also responsible for the construction of the engineering controls (fleet parking area for Frito-Lay vehicles) and for the associated site improvements. Brookside Environmental, Inc. was responsible for coordinating with the disposal facilities (Chemical Waste Management, Clean Earth of North Jersey, and Model City), coordinating with disposal transporters, and arranging for liquid waste sampling and off-site disposal.

Frito-Lay contracted with the Haskell Company to serve as the construction management firm for managing remedial activities with Coppola and Brookside. The Engineer of Record for this project is Vincent Frisina, P.E. from Gannett Fleming Engineers, P.C.

4.2.2 Site Preparation

In accordance with DER-10 Section 1.4 (c), notice was made to NYSDEC a minimum of seven (7) calendar days prior to the actual start of any such field activities associated with the remedial action for the Site. On December 22, 2011, GF provided NYSDEC and NYSDOH with the required seven (7) day notification prior to the implementation of remedial activities at 202-218 Morgan Avenue, Brooklyn, New York.

The seven (7) day notification submitted to NYSDEC and NYSDOH is included in Appendix H.

4.2.2.1 Utility Clearance

The presence of utilities and easements on the Site were fully investigated prior to the performance of remedial activities by using the One-Call System (811) in December 2011. Underground utilities pose an electrocution, explosion, or other hazard during excavation or drilling activities. Utility companies and other responsible authorities were contacted to locate and mark the locations, and a copy of the Markout Ticket was retained by the contractor prior to the start of remedial activities. Overhead utilities also were present within the anticipated work zones. Electrical hazards associated with drilling in the vicinity of overhead utilities were prevented by maintaining a safe distance from overhead power lines.

Proper safety and protective measures pertaining to utilities and easements, and compliance with all laws and regulations were employed during invasive and other work contemplated under the RWP. The integrity and safety of on-Site and off-Site structures was maintained during all invasive, excavation or other remedial activity performed under the RWP.

4.2.2.2 Site Clearing

Prior to beginning soil excavation, the remedial areas were cleared of obstructing features and vegetation during December 2011 and January 2012. All surface debris scattered throughout the area of disturbance as collected and temporarily staged within an established staging areas. Any debris that had a potential to decay, compose, or cause odors was properly collected, containerized, labeled and disposed off-site. Site clearing consisted of the following activities:

- removal of general surface debris to complete the Work;
- removal of trees, shrubs, twigs, and grubbing of vegetation as needed to perform the Work, and transporting vegetation to a designated staging area for off-site disposal; and,
- removal and disposal/storage of all other wastes, at or above grade, as required to perform the Work.

4.2.2.3 Soil Erosion and Sediment Control

All applicable laws and regulations pertaining to stormwater pollution prevention were properly addressed during the remedial program. Erosion control measures were implemented in accordance with New York State Standards and Specifications for Erosion and Sediment Control (2005) during December 2011 and January 2012. A New York's State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity (GP-0-10-001) was obtained for the remedial action.

Erosion and sediment control measures were implemented to control incidental run-off from the excavation areas. Erosion and sediment control measures (silt fences and barriers, and hay bale checks) were installed around the entire perimeter of the remedial construction area and inspected once a week and after every storm event to ensure that they are operating appropriately. Where discharge locations or points were accessible, they were inspected to determine whether erosion control measures were effective in preventing significant impacts to receptors. Results of inspections were recorded in a logbook and maintained at the Site and available for inspection. All necessary repairs or noted deficiencies were made immediately. Accumulated sediments were removed as required to keep the barrier and hay bale check functional. Undercutting or erosion of the silt fence toe anchor was repaired immediately with appropriate backfill materials. Manufacturer's recommendations were followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures were also installed during the remedial of PCB contaminated soil that was located outside the fence line between the fence line and the timber and steel bulkheads along the eastern and southern portions of the site. The Bureau of Marine Resources required that the silt fencing be relocated to the limits of excavation and perpendicular to the timber crib/chain link fence and/or 3 to 5 feet landward of the seaward edge of the timber crib face of the to avoid twice daily inundation of tidal waters. As per Marine Resources request, the silt fence at this corner was relocated to the limits of excavation and perpendicular to the timber crib/chain link fence and/or 3 to 5 feet landward of the seaward edge of the timber crib face prior to excavation activities.

4.2.2.4 Truck Decontamination Pad/Weigh Station Construction

A truck decontamination pad/weigh station was constructed on top of an existing concrete vault close to the Site exit during January 2012. The concrete vault was used to allow rinsate water to drain for the collection of samples for classification and off-site disposal. The truck decontamination pad/weigh station was constructed by modifying the area above the concrete vault to accommodate the weight of the anticipated construction equipment and to provide a weight scale to weigh the outgoing excavated contaminated soil.

The truck decontamination pad/weigh station was ramped for easy entrance and exit for vehicles and equipment. The truck decontamination pad/weigh station was of sufficient size to handle the largest piece of equipment or any other item scheduled for handling at the truck decontamination pad/station. The Contractor prevented overspray outside the limits of the pad and the Exclusion Zone.

A pre-construction meeting was held with all contractors on January 9, 2012.

Documentation of agency approvals required by the RWP is included in Appendix D. Other non-agency permits and permit closeout documentation relating to the remediation project are provided in Appendix I.

All SEQRA requirements and all substantive compliance requirements for attainment of applicable natural resource or other permits were achieved during this Remedial Action.

A NYSDEC-approved project sign was erected at the project entrance and remained in place during all phases of the Remedial Action.

Upon completion of remediation, the truck decontamination pad/weigh station was dismantled, liquid and sludge was sampled, removed, and disposed off-site, the below ground concrete perimeter support walls were demolished with a jack hammer and left as fill for the subsurface vault, demarcation layer placed on top of the concrete, backfilled with crushed stone and sub base materials, and paved over with the asphalt cover.

4.2.3 General Site Controls

4.2.3.1 Site Security

During remedial activities, an 8-foot chain link fence was maintained for the duration of remedial activities, consistent with operations at the site since it was acquired by Frito-Lay in 2006.

The site is enclosed by a "newly" constructed 10-foot high chain linked fence installed on the eastern, western, and southern sides which prevents unauthorized access. Along the northern portion of the side, a partial fence exists; however, a portion of this area is open to allow vehicles from the 222 Morgan Avenue Facility access. Frito-Lay vehicles will be required to enter at the 222 Morgan Avenue entrance and will have access to the 202-218 Morgan Avenue site. A "newly" constructed electric opening parking gate was installed at the 202-218 Morgan Avenue site entrance to allow fleet vehicles to exit (only); all vehicle entry to the site will be from the 222 Morgan Avenue Facility entrance. Overall site security will be provided for both the 202-218 Morgan Avenue site and the 222 Morgan Avenue Facility, as one site.

4.2.3.2 Job Site Record Keeping

During remedial activities, all permits, the RWP, the HASP, material safety data sheets, required approvals, and other applicable documents were filed within the on-site construction trailer. Once remedial activities were completed, all appropriate records and documentation will be transferred to the 222 Morgan Avenue Facility and will also be maintained at a location selected by Frito-Lay.

Copies of the Site Management Plan (SMP), the FER, the Environmental Easement, and the COC will be maintained at the 222 Morgan Avenue Facility.

4.2.3.3 Equipment Decontamination and Residual Waste Management

As previously discussed, a truck decontamination pad/weigh station was constructed on top of an existing concrete vault close to the Morgan Avenue entrance. The concrete vault was used to allow rinsate water to drain for the collection of samples for classification, removal, and off-site disposal. The truck decontamination pad/weigh station was of sufficient size to handle the largest piece of equipment or any other item scheduled for decontamination.

All disposal vehicles and excavation equipment were required to stop at the truck decontamination pad/weigh station for inspection for evidence of contaminated soil on the undercarriage, body, excavation bucket, and wheels. After wetting with potable water, brooms or shovels were utilized for the bulk removal of soil from vehicles and equipment. The procedure for the removal of the remaining soil and liquids will consist of washing with potable water. The Contractor prevented overspray outside the limits of the pad and the Exclusion Zone.

On a regular basis, the liquid residual wastes from the decontamination procedures were sampled for proper characterization. The liquids were then removed via vacuum truck for disposal.

4.2.3.4 Soil Screening Results

Soil screening was not performed as part of the RWP and was not conducted during remedial activities. Endpoint sample results were used as to determine whether applicable soil cleanup objectives (SCOs) have been satisfied, and if needed, conduct additional excavation followed by an additional round(s) of endpoint sampling. Waste characterization was performed prior to off-site disposal in a manner required by the receiving facility and in conformance with applicable permits.

During initial remedial activities, field screening testing (HACH) were performed to determine whether an acceptable correlation existed between field testing and laboratory analyses. The results of this evaluation indicated that a reliable correlation could not be achieved; therefore, laboratory analyses by a NYSDOH-certified laboratory were the only sample results used to evaluate endpoint concentrations and excavation limits.

4.2.3.5 Stockpiling Methods

Stockpiling of excavated contaminated soil was not generally permitted during remedial excavation and direct vehicle loading operations occurred during remedial activities at the site. Direct load-out was used almost exclusively to minimize the potential for cross-contamination to other areas of the site and to minimize the potential of windblown dust from stockpiles to migrate to off-site locations.

Stockpiling did occur during backfilling operations when large amounts of clean fill were transported to the site. After clean fill analytical results were reviewed and

accepted by NYSDEC, clean fill was stockpiled for minimal periods to allow excavation areas to be backfilled as quickly as practical.

When used, stockpiles were placed-on and covered with a minimum of 8-mil polyethylene sheeting. All stockpiles included berms where surrounded by hay bales for containment of any water that drains from the soil. Stockpiles were inspected at several times daily and repaired as needed. At the end of each shift or when the stockpile were not in use for 2 hours or longer, the pile(s) were securely covered with a heavy duty plastic and tear resistant (fiber reinforced) liner and inspected. The surface of stockpile area was clean and free of debris prior to the placement of the bottom polyethylene sheeting. Stockpile heights were limited to a maximum height of 10 feet.

All stockpiles were managed to prevent and/or reduce potential dust emissions. A water truck was utilized for dust suppression to stabilize stockpiles, when necessary. Containment areas were maintained for the duration of the stockpile staging period in order to prevent runoff from contaminated soil, leaching of contaminants into surface waters, and fugitive dust emissions.

4.2.3.6 Problems Encountered

There were minimal problems encountered during remedial activities at the site. Although, waste disposal restrictions were encountered during remedial activities which prevented completion of excavation activities as initially planned and scheduled. Specifically, Model City was limited to the amount of PCB contaminated soil it was able to accept due to previous commitments. This required evaluation of alternative disposal methods and facilities which were investigated; however, this issue was resolved as additional landfill space was made available at Model City.

Additionally, in accordance with NYSDEC's Conditional Approval letter dated December 27, 2011, GF was required to prepare a Bulkhead Environmental Investigation (EI) Sampling Plan to characterize the surface and subsurface soil beyond the existing fence line to the bulkhead along the eastern side of the English Kills and on the southern side of the English Kills Basin. On May 8, 2012, GF submitted the Bulkhead EI sampling plan for NYSDEC review which was accepted on May 15, 2012.

No other problems or complaints were received during the duration of remedial activities at the site.

4.2.4 Nuisance controls

No odors were generated during remedial activities that required odor controls. A water truck was used to control dust for the entire site during remedial activities. A truck decontamination pad/weigh station, with a portable truck scale, was constructed on top of an existing concrete vault close to the Site entrance/exit and was used to clean truck tires and the undercarriage before leaving site. No nuisance complaints from the public were received during remedial activities.

4.2.4.1 Truck Decontamination and Egress Housekeeping

Before exiting the Site, trucks stopped at the truck decontamination pad/weigh station and were inspected for evidence of contaminated soil on the undercarriage, body, and wheels. Soil was removed from the trucks after wetting with potable water, and brooms or shovels were utilized for the bulk removal of soil from vehicles and equipment. The procedure for the removal of the remaining soil consisted of washing with potable water. The entrance/exit area of the site was inspected daily to keep this area clean and accumulated mud or soil was removed on a daily basis.

Maintenance of the truck decontamination pad/weigh station to minimize dust and mud accumulation was performed by the Contractor. The Contractor sampled the collected rinsate water and sludge which was disposed of in accordance with applicable regulatory requirements.

4.2.4.2 Dust Control

Dust control measures were implemented by the Contractor during excavation and soil-moving activities as required by the HASP. A fugitive dust control plan was implemented and perpetually managed throughout the remedial work to minimize the generation of particulate dust during remedial activities at the Site. This plan included:

- Using water hoses with firefighting grade nozzles to apply water to the Site prior to and during remedial activities;
- Wetting down open excavations and the interior haul roads at the end of each workday and when necessary;
- Covering all soil stockpiles with heavy plastic sheeting at the end of each workday;

- Utilizing a cover/tarp system on all trucks hauling fine or dusty material; and,
- Implementing dust control measures during remedial activities for transport vehicles, excavation equipment, haul roads, and material stockpiles, etc.

4.2.4.3 Odor Control

No odors were generated during remedial activities that required odor control measures.

4.2.4.4 Noise Control

Temporary construction noise resulted from excavation equipment, on-site vehicles, and soil transportation/disposal vehicles traveling to and from the site. Noise levels varied depending on phase of construction and task being undertaken. Noise control measures were implemented by the Contractor during excavation, on-site loading/stockpiling, and off-site transportation activities. All equipment and operations did not exceed permissible sound levels for construction and equipment operations established by all Federal, State and local agencies having jurisdiction. The placement of idling equipment, air compressors, and generators near noise sensitive receptors was avoided; such equipment not in use was powered down.

All mechanical equipment utilized on-site conformed to the New York City Noise Control Code, Title 24 of the Administrative Code of the City of New York, New York State, and local noise codes. Haul routes were selected to provide the maximum distance possible between the construction site and nearby residential receptors. Construction noise levels were restricted to 85dBA for mobile construction equipment operating near a residential zone. Every reasonable effort was made to minimize the effect of the construction operations on nearby residential receptors.

4.2.4.5 Traffic Control

All trucks were required to use the New York State Department of Transportation (NYSDOT) designated local truck routes to and from the Site. The main entrance to the site was located along the east side of Morgan Avenue. Signs were posted to direct haulers to the appropriate entrance.

Truck routing was planned to address the following factors: (a) limiting transport through residential areas and past sensitive sites; (b) use of City mapped truck routes; (c) minimizing off-Site queuing of trucks entering the facility; (d) limiting total distance to

major highways; (e) promoting safety in access to highways; and (f) overall safety in transport. To the extent possible, all trucks loaded with excavated contaminated soil travelled from the Site using these truck routes. Trucks did not stop or idle in the neighborhood after leaving the site. The truck routes discussed below was prepared and implemented in accordance with the New York City Department of Transportation (NYCDOT) New York City Truck Route Map (2010).

From the New York City area:

- Take I- 278 eastbound (Brooklyn-Queens Expressway) to exit 32 toward Metropolitan Avenue;
- Take exit 32 toward Metropolitan Avenue/Williamsburg Bridge/Manhattan;
- Merge onto Rodney Street;
- Turn right at Metropolitan Avenue; and
- Turn right at Morgan Avenue (the Site will be on the left)

From the Site:

- Turn right onto Morgan Avenue;
- Turn left at Metropolitan Avenue;
- Merge onto Rodney Street; and,
- Travel north towards I-278 (Brooklyn-Queens Expressway) entrance.

4.2.4.6 Responding to Complaints

No complaints were received from the public during remedial activities and no response to complaints was necessary.

4.2.5 CAMP Results

Air monitoring was conducted in accordance with the NYSDOH CAMP provided in the RI Work Plan and the CAMP requirements presented in the RWP. VOCs and particulates were monitored continuously during all remedial activities. Action levels described in the CAMP were utilized to monitor site activities. Monitors were set upgradient and downgradient of the remedial areas. A particulate monitor capable of measuring particulate matter less than 10 micrometers (µm) in size and capable of

integrating over a period of 15 minutes (or less) was used for comparison to the airborne particulate action levels.

The particulate monitor was equipped with data logging capabilities. The alarms for the dust monitor were set daily at the threshold values assigned in the CAMP. If the alarm sounded, work would have immediately been stopped to allow for the air particulate to disperse. Periodic checks were made to make sure the alarms and particulate monitor were working properly. High dust levels were not typically observed during work performed at the site. The upwind and downwind results of the daily monitoring conducted as part of the CAMP did exceed applicable action levels for short period of times and dust suppression techniques were implemented as deemed appropriate. The locations of the air monitoring equipment are shown in Figure 4-3.

Copies of all field data sheets relating to the CAMP are provided in electronic format in Appendix J.

4.2.6 Reporting

In accordance with the BCP Agreement, monthly progress reports were submitted on the 10th day of each month. The monthly progress reports included descriptions of actions taken during the reporting period, anticipated actions for the next reporting period, approved modifications or changes to the scope, sampling and analytical results, if any, information regarding percentage of completion, unresolved delays, and citizen participation activities. The monthly progress reports during the remedial actions also included:

- Requests for Modifications, if any
- Tabulation of Sample Results
- Air monitoring report
- Tabulation and Documentation of Waste Characterization Sampling
- Disposal Documentation
- Types and Quantities of Waste Generated and Disposed

Additional information was provided to NYSDEC in the monthly progress report during remedial action as deemed necessary or requested by NYSDEC.

All daily and monthly reports are included in electronic format in Appendix F.

The digital photo log required by the RWP is included in electronic format in Appendix K.

4.3 CONTAMINATED MATERIALS REMOVAL

The remedial strategy for the Site was consistent with Track 4 cleanup, as specified in 6 NYCRR §375-6.8(b) as the basis for site soil cleanup for the chemicals of concern (COC) identified at this Site. The SCOs for the major COCs found in the Site soils are 16 mg/kg for arsenic, 3,900 mg/kg for lead, 5.7 mg/kg for mercury, and 25 mg/kg for PCBs.

In soil, arsenic concentrations were present in the surface and subsurface soils at concentrations exceeding Part 375 Restricted Use - Protection of Groundwater SCOs. Lead, mercury, PCB, and SVOC concentrations were present in the surface and subsurface soils at concentrations exceeding 6 NYCRR 375 Unrestricted and Restricted Use SCOs. SVOCs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were present in the surface and subsurface soils at concentrations exceeding the 6 NYCRR Part 375 Restricted Use SCOs, and/or Restricted Use - Industrial SCOs.

Where concentrations of contaminants in soil exceed the Restricted Use - Protection of Groundwater SCOs for arsenic and the Restricted Use - Industrial SCOs for lead, mercury, and PCBs, a combination of soil excavation, removal, and off-site disposal, and an “engineered cover system” was implemented to prevent exposures in accordance with Track 4 cleanup requirements. Soil concentrations exceeding the Unrestricted Use SCOs for arsenic, lead, mercury, and PCBs that are expected to remain on-site and below an approved “engineered cover system” are referred to as “remaining contamination.” The major COCs that are expected to remain on-site at concentrations exceeding the Unrestricted Use SCOs (known as “remaining contamination”) are arsenic, lead, mercury, PCBs, and SVOCs (carcinogenic PAHs).

A list of the soil cleanup objectives (SCOs) for the contaminants of concern for this project is provided in Table 2-1.

A figure of the location of original sources and areas where excavations were performed is shown in Figure 2-1.

4.3.1 Underground Storage Tanks (USTs)

On June 1, 2012, a steel underground storage tank (UST) was uncovered from Cell D3 during remedial excavation activities. The 2,000-gallon UST measured approximately 12 feet in length and was 64 inches in width which contained an oily liquid with measured 44 inches within the UST. The UST was subsequently registered with NYSDEC and the proper notification was submitted to the FDNY, Bureau of Fire Prevention. Approximately 1,650 gallons of contaminated liquid was removed from the UST, it was properly purged in accordance with New York City Fire Codes, the appurtenance piping was removed and the UST and piping was recycled.

On December 17, 2012, a 1,000-gallon steel UST was uncovered from Cells A4/B4 during remedial excavation activities. The UST was subsequently registered with NYSDEC and the proper notification was submitted to the FDNY, Bureau of Fire Prevention. Approximately 800 gallons of contaminated liquid was removed from the UST, it was properly purged in accordance with New York City Fire Codes, the appurtenance piping was removed and the UST and piping was recycled.

A figure of the location of USTs is shown in Figure 4-4. A summary of the samples collected to characterize the soil surrounding the USTs and associated analytical results are summarized on Table 4-3. A summary of the samples collected to characterize the liquids from the USTs and the truck decontamination pad, and associated analytical results are summarized on Table 4-4. The NYSDEC UST Registration documentation is included in electronic format in Appendix L.

4.3.2 Disposal Details

Waste characterization was performed for off-site disposal in a manner required by the receiving facility and in conformance with applicable permits. A Waste Characterization Sampling Plan was implemented to collect pre-characterization analytical data to be submitted to the proposed transfer, storage and disposal facilities (TSDFs) prior to excavation and off-site disposal activities. The Waste Characterization Sampling Plan was developed to collect and laboratory analyze representative soil samples from the 'hot spot' remedial excavation areas and evaluate this data regarding the acceptance criteria of the six (6) specific waste streams and their Contractor proposed TSDFs.

Six (6) specific waste streams were to be generated during RA activities and included the following:

1. Soil with arsenic concentrations exceeding 1,000 mg/kg;
2. Soil with PCBs concentrations exceeding 50 mg/kg, which are regulated by the TSCA;
3. Soil with PCBs concentrations that are less than 50 mg/kg, but greater than 25 mg/kg;
4. Soil with PCBs concentrations that are less than 25 mg/kg, but greater than 10 mg/kg;
5. Soil with lead concentrations which exceed the RCRA hazardous waste leachable lead standard of 5 mg/L and contain concentrations of PCBs that are greater than 50 mg/ kg (TSCA regulated);
6. Non-hazardous impacted soil.

For each of the various waste streams, soil samples were collected from just beneath the surface to the proposed limits of the excavation by instructing the drilling outfit to advance a borehole within each of the color coded cells with hollow-stem augers, and then collect the soil samples by means of stainless steel split spoons. The borehole was advanced allowing for the collection of soil samples continuously to the proposed terminal depth of the remedial excavation. From each borehole, a composite sample was made up of five (5) equal parts from just beneath the surface to the proposed terminal depth of the remedial excavation. Additionally, for each of the various waste streams, grab soil samples were collected for VOCs analysis from just above the proposed limits of the excavation by utilizing a decontaminated hand auger to advance boreholes within each of the color coded cells. Grab samples were field-screened for soil vapor headspace in sealable sampling bags for VOCs utilizing a field calibrated PID. Those samples exhibiting the highest PID response were selected for VOC analyses. Composite and grab samples were immediately placed into a cooler containing ice, and then transported to the analytical laboratory by way of courier service, adhering to industry standard chain of custody procedures.

Over 90 waste characterization samples were collected prior to and during remedial activities to comply with disposal facility requirements. The waste characterization results were generally consistent with RI sample results; however, additional areas where PCB contaminated soil exceeded the Restricted Use - Industrial SCOs and LOA of 25 mg/kg and TSCA criteria of 50 mg/kg were identified.

Waste Stream No. 1 - Arsenic concentrations exceeding 1,000 mg/kg, was proposed to be disposed at Chemical Waste Management's GROWS, however, Cell (B1) exceeds the RCRA standards for lead and would be disposed of at Clean Earth of North Jersey. *Waste Stream No. 2* - PCB concentrations exceeding 50 mg/kg was proposed to be disposed at the Model City Landfill. The waste characterization sample results are consistent with the TSCA waste determination and the entire waste stream can be disposed at the Model City PCB Landfill. *Waste Stream No. 3* - PCB concentrations less than 50 mg/kg was proposed to be disposed at GROWS Landfill. *Waste Stream No. 4* - PCBs concentrations less than 25 mg/kg, but exceeding 10 mg/kg was proposed for disposal at GROWS Landfill. *Waste Stream No. 5* - Lead concentrations exceeding RCRA standard of 5 mg/L and PCB concentrations exceeding 50 mg/kg was proposed for disposal at Model City Landfill. *Waste Stream No. 6* - Non-hazardous contaminated soil, was proposed for disposal at GROWS Landfill.

A summary of the samples collected to characterize the waste, and associated analytical results are summarized on Table 4-2. A figure of the location of waste characterization sample locations is shown in Figure 4-2.

Excavation and off-site disposal of soil/fill containing arsenic, lead, mercury, and PCBs exceeding Restricted Use - Protection of Groundwater and/or Restricted Use - Industrial SCOs, and site- specific RAOs for arsenic, lead, and mercury - 100 mg/kg for arsenic, 10,000 mg/kg for lead, and 15 mg/kg for mercury, the Restricted Use - Industrial SCOs/EPA's LOA criteria for PCB soils of 25 mg/kg and EPA's HOA criteria of 10 mg/kg for PCB soils within the footprint of the proposed future warehouse location was performed between February 2012 and February 2013.

Approximately, 17,063 tons of hazardous PCB (exceeding 50 mg/kg) and non-TSCA PCB (concentrations exceeding 25 mg/kg), 390 tons exceeding 10 mg/kg in the proposed future warehouse location) soil, 69 tons of hazardous lead soil, and 3,710 tons of arsenic, lead, mercury, and with concentrations exceeding the Restricted Use - Protection of Groundwater and/or Restricted Use - Industrial SCOs were excavated for off-site disposal, and placement of imported clean fill material back into the excavation area as part of the selected remedial alternative for the Site. The PCB impacted soil that was considered "hazardous" required excavation, management, and off-site disposal in accordance with TSCA regulations.

Contaminated soil excavation and removal was completed in 24 individual areas including the eastern and southern bulkhead areas within the Site boundaries that contain concentrations exceeding the site-specific RAOs. The excavations limits both horizontally and vertically were confirmed with the collection of endpoint sampling or previous RI soil sample results.

The PCB contaminated soil with concentrations exceeding 50 mg/kg was disposed at Model City, New York, a TSCA permitted Subtitle "C" hazardous waste landfill. The PCB soils with concentrations less than 25 mg/kg and greater than 10 mg/kg, and arsenic concentrations exceeding the site-specific SCO of 100 mg/kg were disposed of at Chemical Waste Management's GROWS North Landfill and Tully Landfill, and hazardous lead concentrations were disposed of at Clean Earth of North Jersey.

4.3.3 On-Site Reuse

A modification request was submitted to NYSDEC allow for the consolidation of on-site PCB contaminated soils from Cells E1A, E1D, E3A, and E3D with concentrations ranging between 10 and 25 mg/kg to Cell B1 in lieu of off-site disposal. The soil from Cells E1A, E1D, E3A, and E3D were to be placed above the groundwater table and beneath an NYSDEC-approved (asphalt) cover system.

The PCB soil from Cells E1A, E1D, E3A, and E3D contain concentrations below the 25 mg/kg site cleanup goal for PCBs and were only excavated and managed to accommodate the USEPA's HOA criteria for the future warehouse area. Under Part 375 requirements, these soils would not require excavation and off-site disposal and could be left in-place under a NYSDEC-approved (asphalt or soil) cover system.

The total quantity of soil from these cells represented approximately 718 cubic yards (1,100 tons) of PCB soils contains concentrations above the HOA criteria of 10 mg/kg and below the 25 mg/kg. These soils were proposed, as part of this RWP modification request, for consolidation in the western sections of the site in an excavation area (Cell B1) outside the future warehouse area. Cell B1 required the excavation of approximately 926 cubic yards (1,400 tons) which will allow for the consolidation of the 718 cubic yards of soil from Cells E1A, E1D, E3A, and E3D to Cell B1 and the balance of soils were supplemented with imported clean fill material. The excavation depth of Cell B1 was approximately 10 ft-bgs and the depth to groundwater was observed at approximately 12.71 feet below ground surface from monitoring well

MW-1 which was approximately 50 feet south of Cell B1. The PCB contaminated soil from Cells E1A, E1D, E3A, and E3D, with concentrations less than 25 mg/kg, was excavated and transported directly to Cell B1 and was covered with the NYSDEC-approved asphalt cover system.

Endpoint samples were collected from the excavation sidewalls at a depth of 12 to 14 inches below ground surface for the shallow sidewall samples and from the mid-depth of each excavation along the north, south, east, and west sidewalls, and from the excavation base of each of the 4 cells.

The modification to the NYSDEC-approved RWP to allow the consolidation of low level PCB contaminated soil with concentrations below the Restricted Use – Industrial SCO of 25 mg/kg in other portions of the site provided protection to public health and the environment, achieved compliance with the SCGs, provided long- and short-term effectiveness, did not alter the reduction of toxicity or mobility, did increase the volume of contaminated soil remaining on-site, would likely receive community acceptance, and was consistent with the proposed future use of the site and with the overall intent of the NYSDEC- and USEPA-approved Notification of Self-Implementing Cleanup and Disposal of PCB Remediation Waste.

On April 17, 2012, EPA approved the modification request for the consolidation of PCB soils within Cell B1 in lieu of off-site disposal. On June 8, 2012, NYSDEC accepted the Proposed Modification to the NYSDEC-Approved Remedial Work Plan.

A majority of the contaminated soil that was reused in Cell B1 originated from Cell E1D. A figure of the location of soil reuse location is shown in Figure 4-5.

4.4 REMEDIAL PERFORMANCE/DOCUMENTATION SAMPLING

The remedial action for soil was consistent with the Part 375 Restricted Use - Industrial SCOs as specified in 6 NYCRR §375-6.8(b) and the EPA's HOA or LOA cleanup criteria as specified in 40 CFR 761.61(a)(4)(i)(A) and (B), respectively, as the basis for cleanup of PCB impacted soil identified at the Site. Where concentrations of contaminants in soil exceeded the Restricted Use – Protection of Groundwater SCO for arsenic, Restricted Use - Industrial SCOs for lead, mercury, and PCBs and/or the LOA cleanup criteria of 25 mg/kg or the HOA cleanup criteria of 10 mg/kg for PCBs in the

proposed future warehouse expansion location, a combination of soil removal and engineering control (asphalt cover) were implemented to prevent exposures in accordance with NYSDEC's restricted use requirements.

4.4.1 Description of "Hot Spot" Areas

The results of the Phase II ESA, RI, the Supplemental RI, and the Second Supplemental RI, as well as the results of the previous investigations conducted since 2003 indicated the presence of several "Hot Spots" with soil concentrations exceeding the Part 375 Restricted Use – Protection of Groundwater SCO for arsenic, Restricted Use - Industrial SCOs for lead, mercury, and PCBs and/or the LOA cleanup criteria of 25 mg/kg or the HOA cleanup criteria of 10 mg/kg for PCBs. "Hot Spots" were defined as areas where soil investigations at the Site have identified discrete areas of soil containing PCBs in sufficient concentrations to potentially migrate in that medium, or to release significant levels of contaminants to another medium, such as, groundwater, which could result in a threat to public health or the environment. "Hot Spots" for the Site, were identified as soil contaminants having concentrations exceeding the Restricted Use - Industrial SCOs and/or the LOA cleanup criteria of 25 mg/kg for PCBs or the TSCA criteria of 50 mg/kg. PCB concentrations exceeding the HOA cleanup criteria of 10 mg/kg within the area of the proposed future warehouse expansion location were also identified as "Hot Spots." These specific soil boring locations were identified as PCB "Hot Spots" which required remedial action.

The site-specific PCB "Hot Spot" were identified to include grid locations B5B, C5B, D2C, D3C, D5A, E1A, E1D, E3A, E3D, E4C, E4D, F4C, G2A, H3B, H3C, H3D, H4C, and J5.

Additional PCB "Hot Spot" areas were identified behind the entire eastern bulkhead (Cells J1, J2, J3, and J4) and southern bulkhead (Cells C5, D5, E5, F5, G5, H5, and I5) where contaminated soil contained PCB concentrations exceeding the Restricted Use - Industrial SCOs and/or the LOA cleanup criteria of 25 mg/kg, and several soils samples exceeded the TSCA criteria of 50 mg/kg.

4.4.2 Remedial Action for Soil

Based on the desire to remediate "Hot Spot" areas to a level that is commensurate for the anticipated future use and zoning of the Site, the most practical and cost effective remedial alternative which is protective to human health and the environment was "Hot

Spot" excavation of the areas identified above the Restricted Use – Protection of Groundwater SCO for arsenic, Restricted Use - Industrial SCOs for lead, mercury, and PCBs and/or the LOA cleanup criteria of 25 mg/kg or the HOA cleanup criteria of 10 mg/kg for PCBs and placement of a cover system (asphalt cover). Land use controls (environmental easement) were also implemented to limit the future use of the Site to be consistent with the current land-use of heavy manufacturing and to restrict handling of soil during future development and/or any soil excavation activities once remediation is deemed completed.

The remedial strategy included the excavation and off-site disposal of soil/fill containing soil concentrations exceeding the site- specific SCOs of 100 mg/kg for arsenic, 10,000 mg/kg for lead, and 15 mg/kg for mercury, the Restricted Use - Industrial SCOs/EPA's LOA criteria for PCB soils of 25 mg/kg and EPA's HOA criteria of 10 mg/kg for PCB soils within the footprint of the proposed future warehouse location and placement of a cover system (asphalt cover) consistent with NYSDEC cover requirements.

Contaminated soil excavation and removal was implemented in 24 individual areas which include grid locations A1, A2, A3, B1, B5B, C5B, D2C, D3C, D5A, E1A, E1D, E3A, E3D, E4B, E4C, E4D, F4C, G2A H3B, H3C, H3D, H4C, H4D, and J5. Grid locations B5B, C5B, D2C, E4C, E4D, F4C, G2A, and H3D contained PCB concentrations exceeding the TSCA criteria of 50 mg/kg required special handling, management and off-site disposal/treatment under TSCA regulations. Grid locations D2C, D3C, E1A, E1D, E3A, and E3D contained PCB concentrations exceeding the HOA cleanup criteria of 10 mg/kg within the proposed warehouse expansion location and were excavated for off-site disposal as part of the selected remedial action for soil. Contaminated soil excavation and removal was also implemented along the entire eastern bulkhead (Cells J1, J2, J3, and J4) and southern bulkhead (Cells C5, D5, E5, F5, G5, H5, and I5) where contaminated soil contained PCB concentrations exceeding the TSCA criteria of 50 mg/kg required special handling, management and off-site disposal/treatment under TSCA regulations.

The horizontal and vertical excavation limits of each RA were confirmed with the collection of endpoint samples as discussed in Section 4.2.1. A demarcation barrier was placed at the base of the excavation once the endpoint samples reported concentrations at or below the site-specific SCOs for arsenic, lead, and mercury, the Restricted Use - Industrial SCOs and/or the LOA cleanup criteria of 25 mg/kg for PCBs or the HOA

cleanup criteria of 10 mg/kg prior to the placement of imported clean fill material. Upon completion of backfilling operations, the Site was covered with a soil (rip-rap, stone, and top soil) and asphalt cover (base and final course) for primary use as a parking lot for Frito-Lay operations. The soil and asphalt cover system is further described in Section 5.4.

The placement of the soil and asphalt cover eliminates the potential that trespassers, construction workers, future workers, and visitors will come into contact with soil containing concentrations exceeding the LOA cleanup criteria, even at low levels. The soil and asphalt cover will also limit rain water infiltration into the subsurface limiting the potential for leaching of soil contaminants into groundwater. The implementation of land use or ICs controls (environmental easement) will ensure that construction workers can work safely at the Site in the future by establishing specific health and safety requirements for all future excavations at the Site, as long as, soil containing concentrations exceeding the HOA cleanup criteria are present at any depth.

4.4.3 Hot Spot Excavation, Restricted Use – Industrial SCOs and/or LOA Cleanup Criteria, or HOA Cleanup Criteria

In accordance with 40 CFR 761.61(a)(3)(D), the following section presents the specific sample locations where PCBs exceed the Restricted Use - Industrial SCOs and/or the LOA cleanup criteria of 25 mg/kg, the HOA cleanup criteria of 10 mg/kg for the proposed future warehouse expansion location or the TSCA criteria of 50 mg/kg where remedial activities were implemented. Each "Hot Spot" discussed below provides the corresponding concentration, the approximate surface area and depth, as well as the quantity of contaminated soil excavated for off-site disposal/treatment. Excavation limits were field verified through the collection of endpoint sampling in accordance with the guidance provided in NYSDEC's DER-10 (Technical Guidance for Site Investigation and Remediation). A demarcation barrier was placed at the base of the excavation once endpoint sampling indicated concentrations at or below the Restricted Use - Industrial SCOs and/or the LOA/HOA cleanup criteria prior to the placement of imported clean fill material. The 24 individual "Hot Spot" areas and along the eastern and southern bulkheads within the Site boundaries that contain concentrations of PCBs with concentrations exceeding the Restricted Use - Industrial SCOs and/or the LOA/HOA cleanup criteria, are presented on Figure 2-1. The proposed endpoint sampling locations, depth, and laboratory parameters are provided in Table 4-1.

Endpoint soil samples were collected to demonstrate that soils exceeding the Restricted Use - Industrial SCOs and/or the LOA/HOA cleanup criteria for PCBs were removed. The results of the endpoint sampling directed either termination or continuation of the excavation. If additional excavation was conducted, it was followed by additional round(s) of endpoint sampling. The endpoint sampling results determined whether the excavation has met the site-specific SCOs for arsenic, lead, and mercury, and the Restricted Use - Industrial SCO for PCBs or whether additional excavation was needed.

4.4.4 Remediation of Grid Locations

Contaminated soil excavation and removal was implemented in 24 individual "Hot Spot" areas which include grid locations A1, A2, A3, B1, B5B, C5B, D2C, D3C, D5A, E1A, E1D, E3A, E3D, E4B, E4C, E4D, F4C, G2A, H3B, H3C, H3D, H4C, H4D, and J5. Grid locations B5B, C5B, D2C, E4C, E4D, F4C, G2A, and H3D contained PCB concentrations exceeding the TSCA criteria of 50 mg/kg required special handling, management and off-site disposal/treatment under TSCA regulations. Grid locations D2C, D3C, E1A, E1D, E3A, and E3D contained PCB concentrations exceeding the HOA cleanup criteria of 10 mg/kg within the proposed warehouse expansion location and were excavated for off-site disposal as part of the selected remedial action for soil. Grid locations E1A, E3A, E3D, and E1D contain PCB concentrations exceeding the EPA's HOA criteria of 10 mg/kg and were excavated for on-site consolidation to Cell B1 as part of the remedial action for soil.

A table and figure summarizing all pre-excavation soil sample results is included in Table 4-5 and Figures 4-6, 4-7, 4-8, 4-9, 4-10, 4-11, and 4-12 depict the pre-excavation soil sample results for Metals and PCBs. A table and figure summarizing all end-point sampling is included in Table 4-5 and Figures 4-13, and 4-14 (Metal Endpoint Sample Results), respectively, and all exceedances of SCOs are highlighted.

Data Usability Summary Reports (DUSRs) were prepared for all data generated in this remedial performance evaluation program. These DUSRs are included in Appendix M, and associated raw is provided electronically in Appendix N.

4.4.4.1 Grid Location – Cell A1

Remedial soil excavation was performed in Cell A1 due to the presence of arsenic contaminated soil detected in RI soil sample SB-27 (1,160 mg/kg [48-120 inches]). The

arsenic soil concentration exceeded the site-specific SCO of 100 mg/kg to an approximate depth of 4 to 10 ft-bgs. The proposed excavation depth for this cell was estimated at 10 ft-bgs.

One (1) surface endpoint sample was collected from the northern excavation sidewall from a depth of 12 to 14 inches from the surface (A1-N1) and two (2) subsurface endpoint samples were collected from the northern and southern excavation sidewalls from a depth of 84 to 86 inches from the surface (12 to 14 inches below the mid-point excavation depth) (A1-N2 and A1-S2). Surface endpoint samples were not collected from the southern, eastern, and western sidewalls (A1-S1, A1-E1, and A1-W1) since Cell A2 and Cell B1 were previously excavated and no southern and eastern sidewalls were present, and the western sidewall was not present due to the location of the perimeter brick wall for the collection of endpoint samples. Subsurface endpoint samples were not collected from the eastern and western sidewalls (A1-E2 and A1-W2) since Cell B1 was previously excavated and no eastern sidewall was present, and the western sidewall was not present due to the location of the perimeter brick wall for the collection of endpoint samples. A bottom endpoint sample was collected from a depth of 144 to 150 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (A1-BOT). The endpoint samples were analyzed for arsenic by EPA Method 6010C.

The endpoint sample results from Cell A1 indicated that all of the reported arsenic concentrations were below the site-specific SCO of 100 mg/kg. Cell A1 was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell A1 was measured at 50 feet by 50 feet to a depth of 12 ft-bgs and 976 tons of arsenic contaminated soil was disposed off-site to the Waste Management, Inc. GROWS North Landfill Pennsylvania facility.

4.4.4.2 Grid Location – Cell A2

Remedial soil excavation was performed in Cell A2 due to the presence of arsenic and lead contaminated soils detected in RI soil sample SB-32 (144 mg/kg and 17,000 mg/kg [0-48 inches]). The arsenic and lead soil concentration exceeded the site-specific SCO of 100 mg/kg and 10,000 mg/kg, respectively, to an approximate depth of 0 to 4 ft-bgs. The proposed excavation depth for this cell was estimated at 4 ft-bgs.

One (1) surface endpoint sample was collected from the eastern excavation sidewall from a depth of 12 to 14 inches from the surface (A2-E1) and one (1) subsurface endpoint sample was collected from the eastern excavation sidewall from a depth of 36 to

38 inches from the surface (12 to 14 inches below the mid-point excavation depth) (A2-E2). Surface and subsurface endpoint samples were not collected from the northern, southern, and western sidewalls (A2-N1/A2-N2 and A2-S1/A2-S2) since Cell A1 and Cell A3 were previously excavated and no northern and southern sidewalls were present, and the western sidewall (A2-W1/A2-W2) was not present due to the location of the perimeter brick wall for the collection of endpoint samples. A bottom endpoint sample was collected from a depth of 48 to 54 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (A2-BOT). The endpoint samples were analyzed for arsenic and lead by EPA Method 6010C.

The endpoint sample results from Cell A2 indicated that all of the reported arsenic and lead concentrations were below the site-specific SCO of 100 mg/kg and 10,000 mg/kg, respectively. Cell A2 was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell A2 was measured at 50 feet by 50 feet to a depth of 4 ft-bgs and 569 tons of arsenic contaminated soil was disposed off-site to the Waste Management, Inc. GROWS North Landfill Pennsylvania facility.

4.4.4.3 Grid Location – Cell A3

Remedial soil excavation was performed in Cell A3 due to the presence of arsenic contaminated soil detected in RI soil sample SB-28 (104 mg/kg [0-48 inches]). The arsenic soil concentration exceeded the site-specific SCO of 100 mg/kg to an approximate depth of 0 to 4 ft-bgs. The proposed excavation depth for this cell was estimated at 4 ft-bgs.

Two (2) surface endpoint sample was collected from the southern and eastern excavation sidewalls from a depth of 12 to 14 inches from the surface (A3-S1 and A3-E1) and two (2) subsurface endpoint samples were collected from the southern and eastern excavation n sidewalls from a depth of 36 to 38 inches from the surface (12 to 14 inches below the mid-point excavation depth) (A3-S2 and A3-E2). Surface and subsurface endpoint samples were not collected from the northern and western sidewalls (A3-N1/A3-N2 and A3-W1/A3-W2) since Cell A2 was previously excavated and the western sidewall was not present due to the location of the perimeter brick wall for the collection of endpoint samples. A bottom endpoint sample was collected from a depth of 48 to 54 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (A3-BOT). The endpoint samples were analyzed for arsenic by EPA Method 6010C.

The endpoint sample results from Cell A3 indicated that all of the reported arsenic concentrations were below the site-specific SCO of 100 mg/kg. Cell A3 was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell A3 was measured at 50 feet by 50 feet to a depth of 12 ft-bgs and 673 tons of arsenic contaminated soil was disposed off-site to the Waste Management, Inc. GROWS North Landfill Pennsylvania facility.

4.4.4.4 Grid Location – Cell B1

Remedial soil excavation was performed in Cell B1 due to the presence of arsenic contaminated soil detected in RI soil sample SB-1 (168 mg/kg [84-108 inches]). The arsenic soil concentration exceeded the site-specific SCO of 100 mg/kg to an approximate depth of 0 to 10 ft-bgs. The proposed excavation depth for this cell was estimated at 10 ft-bgs.

Three (3) surface endpoint sample was collected from the northern, southern, and eastern excavation sidewalls from a depth of 12 to 14 inches from the surface (B1-N1, B1-S1, and B1-E1) and three (3) subsurface endpoint samples were collected from the southern and eastern excavation sidewalls from a depth of 72 to 74 inches from the surface (12 to 14 inches below the mid-point excavation depth) (B1-N2, B1-S2, and B1-E2). Surface and subsurface endpoint samples were not collected from the western sidewall (B1-W1/B2-W2) since Cell A1 was previously excavated and the western sidewall was not present for the collection of endpoint samples. A bottom endpoint sample was collected from a depth of 120 to 126 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (B1-BOT). The endpoint samples were analyzed for arsenic by EPA Method 6010C.

The endpoint sample results from Cell B1 indicated that all of the reported arsenic concentrations were below the site-specific SCO of 100 mg/kg. However, waste characterizations samples collected for disposal purposes detected a TCLP lead concentration exceeding 5 µg/L at a depth of 72 to 74 inches (WC-2-1, 5.28 µg/L) which required additional excavation to a depth of 12 ft-bgs. Cell B1 was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell B1 was measured at 50 feet by 50 feet to a depth of 12 ft-bgs and 1,299 tons of arsenic was disposed off-site to the Waste Management, Inc. GROWS North Landfill Pennsylvania facility and 69 tons of lead contaminated soil was disposed off-site to the Clean Earth of North Jersey facility.

4.4.4.5 Grid Location – Cell B5B

Remedial soil excavation was performed in Cell B5B due to the presence of PCB contaminated soil detected in RI soil sample SB-27 (3,200 mg/kg [0-48 inches] and 31 mg/kg [96-120 inches]). The PCB soil concentration exceeded the Restricted Use - Industrial SCO of 25 mg/kg and the TSCA criteria of 50 mg/kg to an approximate depth of 0 to 10 ft-bgs. The proposed excavation depth for this cell was estimated at 12 ft-bgs.

Four (4) surface endpoint samples were collected from each excavation sidewall from a depth of 12 to 14 inches from the surface (B5-N1, B5-S1, B5-E1, and B5-W1) and four (4) subsurface endpoint samples were collected from each excavation sidewall from a depth of 84 to 86 inches from the surface (12 to 14 inches below the mid-point excavation depth) (B5-N2, B5-S2, B5-E2, and B5-W2). A bottom endpoint sample was collected from a depth of 132 to 138 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (B5-BOT). Groundwater was encountered at 11 ft-bgs which terminated the final excavation depth for this cell. The endpoint samples were analyzed for PCBs by EPA Method 8082.

The endpoint sample results from Cell B5B indicated that all of the reported PCB concentrations were below the Restricted Use - Industrial SCOs of 25 mg/kg. Cell B5B was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell B5B was measured at 25 feet by 25 feet to a depth of 11 ft-bgs and 350 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.6 Grid Location – Cell C5B

Remedial soil excavation was performed in Cell C5B due to the presence of PCB contaminated soil detected in RI soil sample SB-23-4 (55 mg/kg [48-72 inches]). The PCB soil concentration exceeded the Restricted Use - Industrial SCO of 25 mg/kg and the TSCA criteria of 50 mg/kg to an approximate depth of 4 to 6 ft-bgs. The proposed excavation depth for this cell was estimated at 8 ft-bgs.

Three (3) surface endpoint samples were collected from the northern, southern, and western excavation sidewalls from a depth of 12 to 14 inches from the surface (C5-N1, C5-S1, and C5-W1) and three (3) subsurface endpoint samples were collected from the northern, southern, and western excavation sidewalls from a depth of 60 to 62 inches from the surface (12 to 14 inches below the mid-point excavation depth) (C5-N2, C5-S2, and C5-W2). Endpoint samples were not collected from the eastern sidewall (C5-E1 and

C5-E2) since Cell D5 was previously excavated and no eastern sidewall was present for the collection of endpoint samples. A bottom endpoint sample was collected from a depth of 96 to 102 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (C5-BOT). The endpoint samples were analyzed for PCBs by EPA Method 8082.

The endpoint sample results from Cell C5B indicated that all of the reported PCB concentrations were below the Restricted Use - Industrial SCO of 25 mg/kg with the exception of endpoint samples C5-S1, C5-S2, and C5-W2. Additional surface and subsurface endpoint samples C5-S1-1, C5-S1-2, C5-S2-1, C5-S2-2, C5-S3-1, and C5-S3-2 were collected from 5, 10, and to 15 feet, respectively, south of Cell C5B. PCB concentrations detected in subsurface endpoint sample C5-S3-2 exceeded the Restricted Use - Industrial SCO of 25 mg/kg and a decision was made to backfill C5B and investigate and remediate the southern bulkhead area separately which is further discussed on Section 4.4.4.26. An additional endpoint sample was not collected 5 feet beyond the western sidewall of Cell C5B, as previous RI soil sample SB-5 (2.8 mg/kg [0-60 inches], 2.3 mg/kg [60-84 inches], and non-detect [132-138 inches]) was used as the excavation limit for the western sidewall of Cell C5B.

Cell C5B was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell C5B was measured at 30 feet by 25 feet to a depth of 8 ft-bgs and 457 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.7 Grid Location – Cell D2C

Remedial soil excavation was performed in Cell D2C due to the presence of PCB contaminated soil detected in RI soil sample SB-24 (74 mg/kg [0-24 inches]). The PCB soil concentration exceeded the Restricted Use - Industrial SCO of 25 mg/kg, the HOA criteria of 10 mg/kg, and the TSCA criteria of 50 mg/kg to an approximate depth of 0 to 2 ft-bgs. The proposed excavation depth for this cell was estimated at 5 ft-bgs.

Four (4) surface endpoint samples were collected from each excavation sidewall from a depth of 12 to 14 inches from the surface (D2-N1, D2-S1, D2-E1, and D2-W1) and four (4) subsurface endpoint samples were collected from each excavation sidewall from a depth of 42 to 44 inches from the surface (12 to 14 inches below the mid-point excavation depth) (D2-N2, D2-S2, D2-E2, and D2-W2). A bottom endpoint sample was collected from a depth of 60 to 66 inches from the surface (0 to 6 inches below the center

of the excavation) of the excavation base (D2-BOT). The endpoint samples were analyzed for PCBs by EPA Method 8082.

The endpoint sample results from Cell D2C indicated that all of the reported PCB concentrations exceeded the HOA criteria of 10 mg/kg with the exception of endpoint samples D2-W1, D2-S2, and D2-E2. Additional endpoint samples D2-N1-1 and D2-N1-2 were collected 5 and 10 feet north of Cell D2C, endpoint samples D2-S1-1, D2-S1-2, and D2-S1-3 were collected 5, 10, and 15 feet south of Cell D2C, endpoint samples D2-E1-1 and D2-E1-2 were collected 5 and 10 feet east of Cell D2C, and endpoint samples D2-W2-1, D2-W2-2, and D2-W2-3 were collected 5, 10, and 15 feet west of Cell D2C. PCB concentrations detected in surface endpoint sample D2-N1-1 exceeded the HOA criteria of 10 mg/kg and surface endpoint sample D2-N1-2 was below the HOA criteria of 10 mg/kg. Previous RI soil sample SB-24-1 (6.3 mg/kg [0-48 inches]) was used as the northern excavation limit for Cell D2C. PCB concentrations detected in surface endpoint samples D2-S1-1, D2-S1-2, and D2-S1-3, and previous RI soil samples SB-6-1 (12 mg/kg [0-48 inches]) and SB-6 (7.6 mg/kg [0-60 inches], 33 mg/kg [60-84 inches], and 3 mg/kg [84-108 inches]) exceeded the HOA criteria of 10 mg/kg. The excavation for Cell D2C was terminated at the northern excavation sidewall of Cell D3C and further excavation southward is discussed under Cell D3C in Section 4.4.4.8.

PCB concentrations detected in surface endpoint samples D2-E1-1 and D2-E2-1 exceeded the HOA criteria of 10 mg/kg. Previous RI soil sample SB-24-3 (3.4 mg/kg [0-48 inches] and 2.36 mg/kg [48-72 inches]) was used as the eastern excavation limit for Cell D2C. PCB concentrations detected in subsurface endpoint samples D2-W2-1, D2-W2-2, and D2-W2-3 exceeded the HOA criteria of 10 mg/kg. Previous RI soil sample SB-51 (0.175 mg/kg [0-48 inches] and 0.21 mg/kg [48-96 inches]) was used as the western excavation limit for Cell D2C.

Cell D2C was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell D2C was measured at 30 feet by 25 feet to a depth of 5 ft-bgs and 500 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.8 Grid Location – Cell D3C

Remedial soil excavation was performed in Cell D3C due to the presence of PCB contaminated soil detected in RI soil sample SB-6 (33 mg/kg [60-84 inches]). The PCB soil concentration exceeded the Restricted Use - Industrial SCO of 25 mg/kg and the

HOA criteria of 10 mg/kg to an approximate depth of 5 to 7 ft-bgs. The proposed excavation depth for this cell was estimated at 7 ft-bgs.

Three (3) surface endpoint samples were collected from the southern, eastern, and western excavation sidewalls from a depth of 12 to 14 inches from the surface (D3-S1, D3-E1, and D3-W1) and three (3) subsurface endpoint samples were collected from the southern, eastern, and western excavation sidewalls from a depth of 54 to 56 inches from the surface (12 to 14 inches below the mid-point excavation depth) (D3-S2, D3-E2, and D3-W2). Endpoint samples were not collected from the northern sidewall (D3-N1 and D3-N2) since Cell D2C was previously excavated and no northern sidewall was present for the collection of endpoint samples. A bottom endpoint sample was collected from a depth of 84 to 90 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (D3-BOT). The endpoint samples were analyzed for PCBs by EPA Method 8082.

The endpoint sample results from Cell D3C indicated that all of the reported PCB concentrations exceeded the HOA criteria of 10 mg/kg with the exception of endpoint sample D3-BOT. Additional endpoint samples D3-S1-1 and D3-S2-1, D3-S2-2, and D3-S2-3 were collected 5, 10, and 15 feet south of Cell D3C, endpoint samples D3-E1-1 and D3-E2-1, and D3-E1-2 were collected 5 and 10 feet east of Cell D3C, and endpoint samples D3-W1-1 and D3-W2-1, D3-W1-2, D3-W1-3, and D3-W1-4 were collected 5, 10, 15, and 20 feet west of Cell D3C.

PCB concentrations detected in endpoint samples D3-S1, D3-S2, D3-S2-1, D3-S2-2, and D3-S2-2 exceeded the HOA criteria of 10 mg/kg and surface endpoint sample D2-S1-1 was below the HOA criteria of 10 mg/kg. Previous RI soil sample SB-42 (1.58 mg/kg [0-48 inches] and 0.49 mg/kg [48-120 inches]) was used as the southern excavation limit for Cell D3C. PCB concentrations detected in surface and subsurface endpoint samples D3-E1, D3-E2, D3-E1-1, and D3-E1-2 exceeded the HOA criteria of 10 mg/kg and subsurface endpoint sample D2-E2-1 was below the HOA criteria of 10 mg/kg. Previous RI soil sample SB-6-3 (0.69 mg/kg [0-48 inches]) was used as the eastern excavation limit for Cell D3C. PCB concentrations detected in surface and subsurface endpoint samples D3-W1, D3-W2, D3-W1-1, D3-W1-2, D3-W1-3, and D3-W1-4 exceeded the HOA criteria of 10 mg/kg and subsurface endpoint sample D2-W2-1 was below the HOA criteria of 10 mg/kg. Previous RI soil sample SB-25 (2.3 mg/kg [0-48 inches]) was used as the western excavation limit for Cell D3C.

Cell D3C was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell D3C was measured at 30 feet by 25 feet to a depth of 7 ft-bgs and 1,207 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.9 Grid Location – Cell D5A

Remedial soil excavation was performed in Cell D5A due to the presence of PCB contaminated soil detected in RI soil sample SB-23 (28 mg/kg [0-48 inches]). The PCB soil concentration exceeded the Restricted Use - Industrial SCO of 25 mg/kg to an approximate depth of 0 to 4 ft-bgs. The excavation depth for Cell D5A was extended to 7 ft-bgs to excavate lead (101,000 mg/kg [0-48 inches]) and mercury (15.1 mg/kg [0-48 inches]) contaminated soil detected in soil boring SB-23.

Three (3) surface endpoint samples were collected from the northern, southern, and eastern excavation sidewalls from a depth of 12 to 14 inches from the surface (D5-N1, D5-S1, and D5-E1) and three (3) subsurface endpoint samples were collected from the northern, southern, and eastern excavation sidewalls from a depth of 54 to 56 inches from the surface (12 to 14 inches below the mid-point excavation depth) (D5-N2, D5-S2, and D5-E2). Endpoint samples were not collected from the western sidewall (D5-W1 and D5-W2) since Cell C5B was excavated and no western sidewall was present for the collection of endpoint samples. A bottom endpoint sample was collected from a depth of 84 to 90 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (D5-BOT). The endpoint samples were analyzed for PCBs by EPA Method 8082, Metals by EPA Method 6010C, and mercury by EPA Method 7471B.

The endpoint sample results from Cell D5A indicated that all of the reported PCB concentrations exceeded the Restricted Use - Industrial SCO of 25 mg/kg with the exception of endpoint samples D5-N1 and D5-BOT. Additional endpoint sample D5-N2-1 was collected 5 feet north of Cell D5A, endpoint samples D5-S1-1, D5-S2-1, D5-S1-2, D5-S2-2, D5-S1-3, and D5-S2-3 were collected 5, 10, and 15 feet south of Cell D5A, and endpoint samples D5-E1-1 and D5-E2-1 were collected 5 feet east of Cell D5A. Subsurface endpoint sample D5-N2-1 exceeded the Restricted Use - Industrial SCO of 25 mg/kg and previous RI soil sample SB-23-1 (4.6 mg/kg [0-48 inches] and 3.93 mg/kg [48-72 inches]) was used as the northern excavation limit for Cell D5A. PCB concentrations detected in surface endpoint samples D5-S1-1, D5-S1-2, and D5-S1-3 exceeded the Restricted Use - Industrial SCO of 25 mg/kg, and a decision was made to

backfill D5A and investigate and remediate the southern bulkhead area separately which is further discussed on Section 4.4.4.26. PCB concentrations detected in subsurface endpoint sample D5-E2-1 exceeded the Restricted Use - Industrial SCO of 25 mg/kg. Previous RI soil sample SB-23-3 (9.2 mg/kg [0-48 inches] and 8.2 mg/kg [48-72 inches]) was used as the eastern excavation limit for Cell D5A.

Cell D5A was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell D5A was measured at 30 feet by 25 feet to a depth of 7 ft-bgs and 846 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.10 Grid Location – Cell E1A

Remedial soil excavation was performed in Cell E1A due to the presence of PCB contaminated soil detected in RI soil sample SB-7 (11 mg/kg [84-108 inches feet]). The PCB soil concentration exceeded the HOA criteria of 10 mg/kg to an approximate depth of 7 to 9 ft-bgs. The proposed excavation depth for this cell was estimated at 12 ft-bgs.

Four (4) surface endpoint samples were collected from each excavation sidewall from a depth of 12 to 14 inches from the surface (E1A-N1, E1A-S1, E1A-E1, and E1A-W1) and four (4) subsurface endpoint samples were collected from each excavation sidewall from a depth of 84 to 86 inches from the surface (12 to 14 inches below the mid-point excavation depth) (E1A-N2, E1A-S2, E1A-E2, and E1A-W2). A bottom endpoint sample was collected from a depth of 144 to 150 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (E1A-BOT). The endpoint samples were analyzed for PCBs by EPA Method 8082.

The endpoint sample results from Cell E1A indicated that all of the reported PCB concentrations were below the HOA criteria of 10 mg/kg with the exception of endpoint sample E1A-E2. Additional endpoint samples E1A-E2-1, E1A-E2-2, E1A-E2-3, E1A-E2-4, E1A-E2-5, E1A-E2-6, E1A-E2-7, and E1A-E2-8 were collected 5, 10, 15, 20, 25, 30, 35, and 40 feet east of Cell E1A. The PCB concentrations for all endpoint samples collected from beyond the initial eastern sidewall exceeded the HOA criteria of 10 mg/kg. Endpoint sample E1A-E2-8 (14.4 mg/kg) was collected outside the proposed warehouse expansion area, and since the PCB concentration was below the Restricted Use - Industrial SCO of 25 mg/kg, it was then used as the eastern excavation limit for Cell E1A. To comply with DER-10 sampling requirements an additional bottom endpoint sample was collected for each additional 900 square feet of excavation area,

E1A-OE1-BOT (144-150 inches) was collected and the PCB concentration (< 0.12 mg/kg) was reported below both the HOA criteria of 10 mg/kg and the Restricted Use - Industrial SCO of 25 mg/kg.

Cell E1A was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell E1A was measured at 30 feet by 25 feet to a depth of 12 ft-bgs and 430 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.11 Grid Location – Cell E1D

Remedial soil excavation was performed in Cell E1D due to the presence of PCB contaminated soil detected in RI soil sample SB-19 (22 mg/kg [48-72 inches]). The PCB soil concentration exceeded the HOA criteria of 10 mg/kg to an approximate depth of 4 to 6 ft-bgs. The proposed excavation depth for this cell was estimated at 8 ft-bgs.

Four (4) surface endpoint samples were collected from each excavation sidewall from a depth of 12 to 14 inches from the surface (E1D-N1, E1D-S1, E1D-E1, and E1D-W1) and four (4) subsurface endpoint samples were collected from each excavation sidewall from a depth of 60 to 62 inches from the surface (12 to 14 inches below the mid-point excavation depth) (E1D-N2, E1D-S2, E1D-E2, and E1D-W2). A bottom endpoint sample was collected from a depth of 96 to 102 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (E1D-BOT). The endpoint samples were analyzed for PCBs by EPA Method 8082.

The endpoint sample results from Cell E1D indicated that all of the reported PCB concentrations exceeded the HOA criteria of 10 mg/kg with the exception of endpoint sample E1D-BOT. Additional endpoint samples E1D-N1-1 and E1D-N2-1, and endpoint samples E1D-N1-2 and E1D-N2-2 were collected 5 and 10 feet north of Cell E1D, endpoint samples E1D-S1-1 and E1D-S2-1 were collected 5 feet south of Cell E1D, endpoint samples E1D-E1-1 and E1D-E2-1, and endpoint sample E1D-E1-2 were collected 5 and 10 feet east of Cell E1D, and endpoint samples E1D-W1-1 and E1D-W2-1 were collected 5 feet west of Cell E1D.

The endpoint sample results from Cell E1D indicated that all of the reported PCB concentrations exceeded the HOA criteria of 10 mg/kg with the exception of endpoint samples E1D-E2-1, E1D-W1-1, and E1D-W2-1. Soil excavation north of Cell E1D proceeded into Cell E1B and was excavated as part of Cell E1A to a depth of 12 feet. PCB concentrations detected in surface and subsurface endpoint samples E1D-S1-1 and

E1D-S2-1 exceeded the HOA criteria of 10 mg/kg. Previous RI soil sample SB-33 (1.77 mg/kg [0-48 inches] and 1.69 mg/kg [48-120 inches]) was used as the southern excavation limit for Cell E1D. PCB concentrations detected in surface endpoint samples E1D-E1-1 and E1D-E1-2 exceeded the HOA criteria of 10 mg/kg. Surface endpoint sample E1A-E1-2 (15.8 J mg/kg) was collected outside the proposed warehouse expansion area, was below the Restricted Use - Industrial SCO of 25 mg/kg, and was used as the eastern excavation limit for Cell E1D. PCB concentrations detected in surface and subsurface endpoint samples E1D-W1-1 and E1D-W2-1 were below the HOA criteria of 10 mg/kg and were used as the western excavation limit for Cell E1D.

Cell E1D was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell E1D was measured at 30 feet by 25 feet to a depth of 8 ft-bgs and 277 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.12 Grid Location – Cell E3A

Remedial soil excavation was performed in Cell E3A due to the presence of PCB contaminated soil detected in RI soil sample SB-9 (22 mg/kg [0-60 inches]). The PCB soil concentration exceeded the HOA criteria of 10 mg/kg to an approximate depth of 0 to 5 ft-bgs. The proposed excavation depth for this cell was estimated at 7 ft-bgs.

Four (4) surface endpoint samples were collected from each excavation sidewall from a depth of 12 to 14 inches from the surface (E3A-N1, E3A-S1, E3A-E1, and E3A-W1) and four (4) subsurface endpoint samples were collected from each excavation sidewall from a depth of 54 to 56 inches from the surface (12 to 14 inches below the mid-point excavation depth) (E3A-N2, E3A-S2, E3A-E2, and E3A-W2). A bottom endpoint sample was collected from a depth of 84 to 90 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (E3A-BOT). The endpoint samples were analyzed for PCBs by EPA Method 8082.

The endpoint sample results from Cell E3A indicated that all of the reported PCB concentrations exceeded the HOA criteria of 10 mg/kg with the exception of endpoint sample E3A-S1. Additional endpoint samples E3A-N1-1 and E3A-N2-1, E3A-N1-2 and E3A-N2-2, E3A-N1-3 and E3A-N2-3, E3A-N1-4 and E3A-N2-4 E3A,-N1-5 and E3A-N2-5, E3A-N1-6, and E3A-N1-7 were collected 5, 10, 15, 20, 25, 30, and 35 feet north of Cell E3A. Additional endpoint sample E3A-S2-1 was collected 5 feet south of Cell E3A. Additional endpoint samples E3A-E1-1 and E3A-E2-1, and E3A-E2-2 were collected 5

and 10 feet east of Cell E3A, and endpoint samples E3A-W1-1 and E3A-W2-1 were collected 5 feet west of Cell E3A. Endpoint sample E3A-BOT-1 was collected at 96 to 102 inches from the surface.

The endpoint sample results from Cell E3A indicated that all of the reported PCB concentrations exceeded the HOA criteria of 10 mg/kg with the exception of endpoint sample E3A-BOT-1. Previous RI soil sample SB-33 (1.77 mg/kg [0-48 inches] and 1.69 mg/kg [48-120 inches]) was used as the northern excavation limit for Cell E3A. Previous RI soil sample SB-9-2 (7.8 mg/kg [0-48 inches] and 2.69 mg/kg [96-102 inches]) was used as the southern excavation limit for Cell E3A. Previous RI soil sample SB-21 (9.9 mg/kg [0-24 inches]) was used as the eastern excavation limit for Cell E3A. Previous RI soil sample SB-6-2 (1.6 mg/kg [0-48 inches] and 6.1J mg/kg [72-96 inches]) was used as the western excavation limit for Cell E3A.

Additional endpoint samples E3A-N3 was collected at the interface of Cell E3B and Cell E2D to assess PCB contaminated soil, as the entire Cell E3B was excavated for off-site disposal. Endpoint samples E3A-N3-1, E3A-N3-2, E3A-N3-3, E3A-N3-4, and E3A-N3-5 were collected 5, 10, 15, 20, and 25 feet north of endpoint sample E3A-N3. The endpoint sample results from Cells E3B/E2D indicated that all of the reported PCB concentrations exceeded the HOA criteria of 10 mg/kg with the exception of endpoint sample E3A-N3-5, which was used as the northern excavation limit.

In accordance with DER-10 requirements, additional endpoint sidewall samples were collected for every additional 30 lineal feet of sidewall excavation and endpoint bottom samples were collected for every additional 900 square feet of bottom excavation, beyond the initial excavation limits of Cells E3B/E2D. Two (2) additional endpoint bottom samples E3A-OE1-BOT (84-90 inches) and E3A-OE2-BOT (84-90 inches) were collected from the bottom of the first and second 900 square foot over excavation area, respectively. PCB concentrations for endpoint samples E3A-OE1-BOT (84-90 inches) and E3A-OE2-BOT (84-90 inches) did not exceed the HOA criteria of 10 mg/kg. The over excavation sidewall endpoint samples were collected for each additional 30 linear feet of sidewall excavation. PCB concentrations for over excavation endpoint sidewall samples E3A-OE1-ESW (54-60 inches) and E3A-OE2-WSW (54-60 inches) did not exceed the HOA criteria of 10 mg/kg.

Cell E3A was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell E3A was measured at 30 feet by 25 feet to a depth of

8 ft-bgs and 905 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc., Model City facility.

4.4.4.13 Grid Location – Cell E3D

Remedial soil excavation was performed in Cell E3D due to the presence of PCB contaminated soil detected in RI soil sample SB-9-3 (11 J mg/kg [0-48 inches]). The PCB soil concentration exceeded the HOA criteria of 10 mg/kg to an approximate depth of 0 to 4 ft-bgs. The proposed excavation depth for this cell was estimated at 4 ft-bgs.

Three (3) surface endpoint samples were collected from the northern, eastern, and western excavation sidewalls from a depth of 12 to 14 inches from the surface (E3D-N1, E3D-E1, and E3D-W1) and three (3) subsurface endpoint samples were collected from the northern, eastern, and western excavation sidewalls from a depth of 36 to 38 inches from the surface (12 to 14 inches below the mid-point excavation depth) (E3D-N2, E3D-E2, and E3D-W2). Endpoint samples were not collected from the southern sidewall (E3D-S1 and E3D-S2) since Cell E4B was excavated and no southern sidewall was present for the collection of endpoint samples. A bottom endpoint sample was collected from a depth of 48 to 54 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (E3D-BOT). The endpoint samples were analyzed for PCBs by EPA Method 8082.

The endpoint sample results from Cell E3D indicated that all of the reported PCB concentrations exceeded the HOA criteria of 10 mg/kg with the exception of endpoint sample E3D-W1. Additional endpoint samples E3D-N1-1 and E3D-N2-1, E3D-N1-2 and E3D-N2-2 were collected 5 and 10 feet north of Cell E3D, endpoint samples E3D-E1-1 and E3D-E2-1, and E3D-E1-2 were collected 5 and 10 feet east of Cell E3D, and endpoint samples E3D-W2-1 and E3D-W2-2 were collected 5 and 10 feet west of Cell E3D. Endpoint samples E3D-BOT-1 and E3D-BOT-2 were collected at 72 to 78 inches and 96 to 102 inches, respectively from the surface.

The endpoint sample results from Cell E3D indicated that all of the reported PCB concentrations exceeded the HOA criteria of 10 mg/kg with the exception of endpoint samples E3D-N2-2 and E3D-BOT-2. PCB concentrations detected in surface sample E3D-N1-1, E3D-N1-2, and E3D-N2-2 exceeded the HOA criteria of 10 mg/kg. Soil excavation north of Cell E3D proceeded into Cell E3B and was excavated as part of Cell E3A to a depth of 12 feet. PCB concentrations detected in surface and subsurface endpoint samples E3D-E1-1, E3D-E2-1, and E3D-E2-2 exceeded the HOA criteria of 10

mg/kg. Soil excavation east of Cell E3D extended into the over excavation associated with Cell H3C, which was excavated to a depth of 8.5 feet. PCB concentrations detected in surface and subsurface endpoint samples E3D-W2-1 and E3D-W2-2 exceeded the HOA criteria of 10 mg/kg. Previous RI soil sample SB-9-2 (7.8 mg/kg [0-48 inches] and 2.69 mg/kg [96-120 inches]) was used as the western excavation limit for Cell E3D. PCB concentrations detected in bottom endpoint sample E3D-BOT-1 exceeded the HOA criteria of 10 mg/kg, but E3D-BOT-2 (96-102) was below the HOA criteria of 10 mg/kg and was used as the final excavation depth for Cell E3D.

Cell E3D was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell E3D was measured at 30 feet by 25 feet to a depth of 8 ft-bgs and 469 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.14 Grid Location – Cell E4B

Remedial soil excavation was performed in Cell E4B due to the presence of PCB contaminated soil detected in RI soil sample SB-8-1 (17.1 mg/kg [48-72 inches]). The PCB soil concentration exceeded the HOA criteria of 10 mg/kg to an approximate depth of 4 to 6 ft-bgs. The northern portion of Cell E4B is located within the future warehouse footprint and the PCB results will be compared to the HOA criteria of 10 mg/kg, and the remaining ports of this cell are outside the footprint and the PCB results will be compared to the Restricted Use – Industrial SCO of 25 mg/kg. The proposed excavation depth for this cell was estimated at 8 ft-bgs.

Two (2) surface endpoint samples were collected from the eastern and western excavation sidewalls from a depth of 12 to 14 inches from the surface (E4B-E1 and E4B-W1) and three (3) subsurface endpoint samples were collected from the northern, eastern, and western excavation sidewalls from a depth of 60 to 62 inches from the surface (12 to 14 inches below the mid-point excavation depth) (E4B-N2, E4B-E2, and E4B-W2). Endpoint samples were not collected from the northern sidewall (E4B-N1) and the southern sidewall (E4B-S1 and E4B-S2) since Cell E3D and Cell E4D were excavated and no sidewall was present for the collection of endpoint samples. A bottom endpoint sample was collected from a depth of 96 to 102 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (E4B-BOT). The endpoint samples were analyzed for PCBs by EPA Method 8082.

The endpoint sample results from Cell E4B indicated that all of the reported PCB concentrations exceeded the HOA criteria of 10 mg/kg. Additional endpoint sample E4B-N2-1 were collected 5 feet north of Cell E4B, endpoint samples E4B-E1-1 and E4B-E2-1, E4B-E1-2 and E4B-E2-2, and E4B-E1-3 and E4B-E2-3 were collected 5, 10, and 15 feet east of Cell E4B, and endpoint samples E4B-W2-1 and E4B-W2-1 were collected 5 feet west of Cell E4B. Endpoint samples E4B-BOT-1A, E4B-BOT-1B, and E4B-BOT-1C were collected at 108 to 114 inches, 120 to 126 inches, and 132 to 138 inches, respectively, from the surface.

The endpoint sample results from Cell E4B indicated that all of the reported PCB concentrations exceeded the HOA criteria of 10 mg/kg with the exception of endpoint sample E4B-BOT-1C. Soil excavation north of Cell E4B proceeded into Cell E3D and was excavated as part of Cell E3D to a depth of 8 feet. Soil excavation south of Cell E4B proceeded into Cell E4D and was excavated as part of Cell E4D to a depth of 8 feet. PCB concentrations detected in endpoint samples E4B-E1-1, E4B-E2-1, E4B-E1-2, E4B-E2-2, E4B-E1-3, and E4B-E2-3 all exceeded the HOA criteria of 10 mg/kg and the Restricted Use – Industrial SCO of 25 mg/kg. Previous RI soil sample SB-43 (6.1 mg/kg [0-48 inches] and 3.41 mg/kg [48-96 inches]) was used as the eastern excavation limit for Cell E4B. PCB concentrations detected in endpoint samples E4B-W1-1 and E4B-W2-1 exceeded the HOA criteria of 10 mg/kg. Previous RI soil sample SB-53 (6.5 mg/kg [0-48 inches] and 6.7 mg/kg [48-120 inches]) was used as the western excavation limit for Cell E4B. PCB concentrations detected in bottom endpoint samples E4B-BOT-1A and E4B-BOT-1B exceeded the HOA criteria of 10 mg/kg, but E4B-BOT-1C (132-138 inches) was below the HOA criteria of 10 mg/kg and was used as the final excavation depth for Cell E4B.

Cell E4B was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell E4B was measured at 30 feet by 25 feet to a depth of 11 ft-bgs and 410 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.15 Grid Location – Cell E4C

Remedial soil excavation was performed in Cell E4C due to the presence of PCB contaminated soil detected in RI soil sample SB-8 (100 mg/kg [0-60 inches]). The PCB soil concentration exceeded the Restricted Use – Industrial SCO of 25 mg/kg and the

TSCA criteria of 50 mg/kg to an approximate depth of 0 to 5 ft-bgs. The proposed excavation depth for this cell was estimated at 5 ft-bgs.

Three (3) surface endpoint samples were collected from the northern, southern, and western excavation sidewalls from a depth of 12 to 14 inches from the surface (E4C-N1, E4C-S1, and E4C-W1) and three (3) subsurface endpoint samples were collected from the northern, southern, and western excavation sidewalls from a depth of 42 to 44 inches from the surface (12 to 14 inches below the mid-point excavation depth) (E4C-N2, E4C-S2, and E4C-W2). Endpoint samples were not collected from the eastern sidewall (E4C-E1 and E4C-E2) since Cell E4D was excavated and no sidewall was present for the collection of endpoint samples. A bottom endpoint sample was collected from a depth of 78 to 84 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (E4C-BOT). The endpoint samples were analyzed for PCBs by EPA Method 8082.

The endpoint sample results from Cell E4C indicated that all of the reported PCB concentrations exceeded the Restricted Use – Industrial SCO of 25 mg/kg with the exception of endpoint samples E4C-S1 and E4C-W1. Additional endpoint sample E4C-W2-1 was collected 5 feet west of Cell E4C, and bottom endpoint samples E4C-BOT-1 and E4C-BOT-2 were collected at 78 to 84 inches and 102 to 108 inches, respectively, from the surface.

The endpoint sample results from Cell E4C indicated that all of the reported PCB concentrations exceeded the Restricted Use – Industrial SCO of 25 mg/kg with the exception of bottom endpoint sample E4B-BOT-2. Previous RI soil sample SB-53 (6.5 mg/kg [0-48 inches] and 6.7 mg/kg [48-120 inches]) was used as the northern excavation limit for Cell E4C. Previous RI soil sample SB-46 (3.2 mg/kg [0-48 inches] and 14.6 mg/kg [48-120 inches]) was used as the southern excavation limit for Cell E4C. Soil excavation east of Cell E4C proceeded into Cell E4D and was excavated as part of Cell E4D to a depth of 8 feet. Previous RI soil sample SB-23-2 (1.23 mg/kg [0-48 inches] and 14.7 mg/kg [72-96 inches]) was used as the western excavation limit for Cell E4B. PCB concentrations detected in bottom endpoint sample E4C-BOT-1 exceeded the Restricted Use – Industrial SCO of 25 mg/kg, but endpoint sample E4C-BOT-2 (102-108 inches) was below the Restricted Use – Industrial SCO of 25 mg/kg and was used as the final excavation depth for Cell E4B.

Cell E4C was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell E4C was measured at 30 feet by 25 feet to a depth of

8.5 ft-bgs and 652 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.16 Grid Location – Cell E4D

Remedial soil excavation was performed in Cell E4D due to the presence of PCB contaminated soil detected in RI soil sample SB-8-2 (28 mg/kg [0-72 inches]). The PCB soil concentration exceeded the Restricted Use – Industrial SCO of 25 mg/kg to an approximate depth of 0 to 6 ft-bgs. The proposed excavation depth for this cell was estimated at 8 ft-bgs.

One (1) surface endpoint sample was collected from the southern excavation sidewall from a depth of 12 to 14 inches from the surface (E4D-S1) and two (2) subsurface endpoint samples were collected from the southern and western excavation sidewalls from a depth of 60 to 62 inches from the surface (12 to 14 inches below the mid-point excavation depth) (E4D-S2 and E4D-W2). Endpoint samples were not collected from the northern sidewall (E4D-N1 and E4D-N2) since Cell E4B was excavated to a deeper depth and no sidewall was present for the collection of endpoint samples. Endpoint samples were not collected from the eastern sidewall (E4D-E1 and E4D-E2) since Cell F4C was excavated to a deeper depth and no sidewall was present for the collection of endpoint samples. The surface endpoint sample was not collected from the western sidewall (E4D-W1) since Cell E4C was excavated to a deeper depth and no sidewall was present for the collection of endpoint samples. A bottom endpoint sample was collected from a depth of 96 to 102 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (E4D-BOT). The endpoint samples were analyzed for PCBs by EPA Method 8082.

The endpoint sample results from Cell E4D indicated that all of the reported PCB concentrations exceeded the Restricted Use – Industrial SCO of 25 mg/kg with the exception of endpoint samples E4D-S1 and E4D-BOT. Additional endpoint sample E4D-S2-1 was collected at 60 to 62 inches 5 feet south of Cell E4D.

The endpoint sample results from Cell E4C indicated that the reported PCB concentrations exceeded the Restricted Use – Industrial SCO of 25 mg/kg for endpoint sample E4D-S2-1. Excavation north of Cell E4D was terminated at the southern sidewall to Cell E4B as the excavation for this cell was excavated to a deeper depth (11 ft-bgs) as compared to the excavation depth of Cell E4D (8 ft-bgs). Previous RI soil sample SB-46 (3.2 mg/kg [0-48 inches] and 14.6 mg/kg [48-120 inches]) was used as the southern

excavation limit for Cell E4D. Excavation east of Cell E4D was terminated at the western sidewall of Cell F4C as the excavation for this cell was excavated to a deeper depth (10 ft-bgs) as compared to the excavation depth of Cell E4D (8 ft-bgs). Excavation west of Cell E4D was terminated at the eastern sidewall of Cell E4C as the excavation for this cell was excavated to a deeper depth (8.5 ft-bgs) as compared to the excavation depth of Cell E4D (8 ft-bgs).

Cell E4D was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell E4D was measured at 30 feet by 25 feet to a depth of 8 ft-bgs and 349 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.17 Grid Location – Cell F4C

Remedial soil excavation was performed in Cell F4C due to the presence of PCB contaminated soil detected in RI soil sample SB-22 (78 mg/kg [0-90 inches]). The PCB soil concentration exceeded the Restricted Use – Industrial SCO of 25 mg/kg and the TSCA criteria of 50 mg/kg to an approximate depth of 0 to 7.5 ft-bgs. The proposed excavation depth for this cell was estimated at 10 ft-bgs.

Three (3) surface endpoint samples were collected from the northern, southern, and eastern excavation sidewalls from a depth of 12 to 14 inches from the surface (F4C-N1, F4C-S1, and F4C-E1) and three (3) subsurface endpoint samples were collected from the northern, southern, and eastern excavation sidewalls from a depth of 72 to 74 inches from the surface (12 to 14 inches below the mid-point excavation depth) (F4C-N2, F4C-S2, and F4C-E2). Endpoint samples were not collected from the western sidewall (F4C-W1 and F4C-W2) since Cell E4D was excavated and no sidewall was present for the collection of endpoint samples. A bottom endpoint sample was collected from a depth of 120 to 126 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (F4C-BOT). The endpoint samples were analyzed for PCBs by EPA Method 8082.

The endpoint sample results from Cell E4C indicated that the reported PCB concentrations for endpoint samples F4C-S1, F4C-S2, and F4C-E1 exceeded the Restricted Use – Industrial SCO of 25 mg/kg. Additional endpoint samples F4C-S1-1 and F4C-S2-1 were collected 5 feet south of Cell F4C, and endpoint sample F4C-E1-1 was collected 5 and 10 feet east of Cell F4C.

The endpoint sample results from Cell E4C indicated that the reported PCB concentrations for endpoint samples F4C-S1-1 and F4C-S2-1 exceeded the Restricted Use – Industrial SCO of 25 mg/kg. Endpoint samples F4C-N1 and F4C-N2 were used as the northern excavation limit for Cell F4C. Previous RI soil sample SB-22-2 (5.34 mg/kg [0-48 inches] and 3.52 mg/kg [48-72 inches]) was used as the southern excavation limit for Cell F4C. Endpoint samples F4C-E1-1 and F4C-E2 were used as the eastern excavation limit for Cell F4C. Excavation west of Cell F4C was terminated at the western sidewall of Cell E4D, as the excavation for this cell was excavated to a depth (8 ft-bgs) as compared to the excavation depth of Cell F4C (10 ft-bgs).

Cell F4C was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell F4C was measured at 30 feet by 25 feet to a depth of 10 ft-bgs and 548 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.18 Grid Location – Cell G2A

Remedial soil excavation was performed in Cell G2A due to the presence of PCB contaminated soil detected in RI soil sample SB-20 (56 mg/kg [0-4 feet]). The PCB soil concentration exceeded the Restricted Use – Industrial SCO of 25 mg/kg and the TSCA criteria of 50 mg/kg to an approximate depth of 0 to 4 ft-bgs. The proposed excavation depth for this cell was estimated at 4 ft-bgs.

Four (4) surface endpoint samples were collected from each excavation sidewall from a depth of 12 to 14 inches from the surface (G2-N1, G2-S1, G2-E1, and G2-W1) and four (4) subsurface endpoint samples were collected from each excavation sidewall from a depth of 36 to 38 inches from the surface (12 to 14 inches below the mid-point excavation depth) (G2-N2, G2-S2, G2-E2, and G2-W2). A bottom endpoint sample was collected from a depth of 48 to 54 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (G2-BOT). The endpoint samples were analyzed for PCBs by EPA Method 8082.

The endpoint sample results from Cell G2 indicated that all of the reported PCB concentrations exceeded the Restricted Use - Industrial SCO of 25 mg/kg with the exception of endpoint samples G2-N1 and G2-E2. Additional surface and subsurface endpoint samples G2-N2-1 and G2-N2-2 were collected 5 and 10 feet north of Cell G2, endpoint samples G2-S1-1 and G2-S2-1 were collected 5 feet south of Cell G2, endpoint

sample G2-E1-1 was collected 5 feet east of Cell G2, and endpoint samples G2-W1-1 and G2-W2-1 were collected 5 feet west of Cell G2.

PCB concentrations detected in subsurface endpoint sample G2-N2-2 was below the Restricted Use - Industrial SCO of 25 mg/kg and was used as the northern excavation limit of Cell G2. PCB concentrations detected in surface and subsurface endpoint samples G2-S1-1 and G2-S2-1 exceeded the Restricted Use - Industrial SCO of 25 mg/kg and previous RI soil sample SB-20-2 (7.78 mg/kg [0-4 feet] and 17.5 mg/kg [4-6 feet]) was used as the southern excavation limit of Cell G2. Surface endpoint sample G2-E1-1 (5.1 mg/kg) and previous RI soil sample SB-20-1 (14.4 mg/kg [0-4 feet] and 2.56 mg/kg [6-8 feet]) were used as the eastern excavation limit of Cell G2. PCB concentrations detected in surface and subsurface endpoint samples G2-W1-1 and G2-W2-1 were below the Restricted Use - Industrial SCO of 25 mg/kg and were used as the western excavation limit of Cell G2. The excavation bottom endpoint sample G2-BOT exceeded the Restricted Use - Industrial SCO of 25 mg/kg which required the additional excavation of two (2) feet of contaminated soil from the entire excavation limits of G2. Subsequent excavation bottom endpoint sample G2-BOT-1 (72 to 78 inches) was below the Restricted Use - Industrial SCO of 25 mg/kg and was used as the bottom excavation limit for Cell G2.

Cell G2 was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell G2 was measured at 30 feet by 25 feet to a depth of 8 ft-bgs and 306 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.19 Grid Location – Cell H3B

Remedial soil excavation was performed in Cell H3B due to the presence of PCB contaminated soil detected in RI soil sample SB-17-1 (39.3 mg/kg [0-48 inches]). The PCB soil concentration exceeded the Restricted Use – Industrial SCO of 25 mg/kg to an approximate depth of 0 to 4 ft-bgs. The proposed excavation depth for this cell was estimated at 5 ft-bgs.

Three (3) surface endpoint samples were collected from the northern, eastern, and western excavation sidewalls from a depth of 12 to 14 inches from the surface (H3B-N1, H3B-E1, and H3B-W1) and three (3) subsurface endpoint samples were collected from northern, eastern, and western excavation sidewalls from a depth of 42 to 44 inches from the surface (12 to 14 inches below the mid-point excavation depth) (H3B-N2, H3B-E2,

and H3B-W2). Endpoint samples were not collected from the southern excavation sidewall (H3B-S1 and H3B-S2) since Cell H3D was excavated and no sidewall was present for the collection of endpoint samples. A bottom endpoint sample was collected from a depth of 60 to 66 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (H3B-BOT). However, the excavation depth for Cell H3B was extended to a depth of 8 ft-bgs as the excavation depth for Cell H3D was extended into Cell H3B. The endpoint samples were analyzed for PCBs by EPA Method 8082.

The endpoint sample results from Cell H3B indicated that all of the reported PCB concentrations exceeded the Restricted Use – Industrial SCO of 25 mg/kg with the exception of endpoint sample H3B-BOT. Additional endpoint samples H3B-N1-1 and H3B-N2-1, endpoint samples H3B-N1-2 and H3B-N2-2, and endpoint samples H3B-N1-3 and H3B-N2-3 were collected 5, 10, and 15 feet north of Cell H3B, endpoint samples H3B-E1-1 and H3B-E2-1, endpoint samples H3B-E1-2 and H3B-E2-2, and endpoint samples H3B-E1-3 and H3B-E2-3 were collected 5, 10, and 15 feet east of Cell H3B, endpoint samples H3B-W1-1 and H3B-W2-1, endpoint samples H3B-W1-2 and H3B-W2-2, and endpoint sample H3B-W1-3 were collected 5, 10, and 15 feet west of Cell H3B.

The endpoint sample results from Cell H3B indicated that all of the reported PCB concentrations exceeded the Restricted Use – Industrial SCO of 25 mg/kg with the exception of endpoint sample H3B-W2-2. Previous RI soil sample SB-35 (5.0 mg/kg [0-48 inches] and 0.92 mg/kg [48-102 inches]) was used as the northern excavation limit for Cell H3B. Previous RI soil sample SB-39 (1.1 mg/kg [0-48 inches] and 0.73 mg/kg [48-102 inches]) was used as the eastern excavation limit for Cell H3B. Previous RI soil sample SB-12 (0.15 mg/kg [0-60 inches] and 0.72 mg/kg [60-84 inches]) was used as the western excavation limit for Cell H3B. Excavation south of Cell H3B was terminated at the northern sidewall of Cell H3D as the excavation for this cell was excavated to a depth (8 ft-bgs) as compared to the excavation depth of Cell H3B (5 ft-bgs). The excavation depth for Cell H3B was later extended to a depth of 8 ft-bgs due to the PCB contamination encountered at the northern sidewall of Cell H3D.

Cell H3B was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell H3B was measured at 30 feet by 25 feet to a depth of 8 ft-bgs and 945 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.20 Grid Location – Cell H3C

Remedial soil excavation was performed in Cell H3C due to the presence of PCB contaminated soil detected in RI soil sample SB-17-2 (30 mg/kg [0-72 inches]). The PCB soil concentration exceeded the Restricted Use – Industrial SCO of 25 mg/kg to an approximate depth of 0 to 6 ft-bgs. The proposed excavation depth for this cell was estimated at 8 ft-bgs.

Three (3) surface endpoint samples were collected from the northern, southern, and western excavation sidewalls from a depth of 12 to 14 inches from the surface (H3C-N1, H3C-S1, and H3C-W1) and three (3) subsurface endpoint samples were collected from the northern, southern, and western excavation sidewalls from a depth of 66 to 68 inches from the surface (12 to 14 inches below the mid-point excavation depth) (H3C-N2, H3C-S2, and H3C-W2). Endpoint samples were not collected from the eastern sidewall (H3C-E1 and H3C-E2) since Cell H3D was excavated and no sidewall was present for the collection of endpoint samples. A bottom endpoint sample was collected from a depth of 96 to 102 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (H3C-BOT). The endpoint samples were analyzed for PCBs by EPA Method 8082.

The endpoint sample results from Cell H3C indicated that all of the reported PCB concentrations exceeded the Restricted Use – Industrial SCO of 25 mg/kg with the exception of endpoint sample H3C-BOT. Additional endpoint samples H3C-N1-1 and H3C-N2-1 were collected 5 feet north of Cell H3C and endpoint samples H3C-S1-1 and H3C-S2-1 were collected 5 feet south of Cell H3C. Endpoint samples H3C-W1-1 and H3C-W2-1, endpoint samples H3C-W1-2 and H3C-W2-2, endpoint samples H3C-W1-3 and H3C-W2-3, endpoint samples H3C-W1-4 and H3C-W2-4, endpoint samples H3C-W1-5 and H3C-W2-5, endpoint samples H3C-W1-6 and H3C-W2-6, endpoint samples H3C-W1-7 and H3C-W2-7, and endpoint samples H3C-W1-8, H3C-W1-9, H3C-W1-10, and H3C-W1-11 were collected 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, and 55 feet, respectively, west of Cell H3C.

The endpoint sample results from Cell H3C indicated that all of the reported PCB concentrations exceeded the Restricted Use – Industrial SCO of 25 mg/kg with the exception of endpoint samples H3C-W2-7 and H3C-W1-11.

In accordance with DER-10 requirements, additional endpoint sidewall samples were collected for every additional 30 lineal feet of sidewall excavation and endpoint

bottom samples were collected for every additional 900 square feet of bottom excavation, beyond the initial excavation limits of Cell H3C. Two (2) additional bottom endpoint samples H3C-OE1-BOT (96-102 inches) and H3C-OE2-BOT (96-102 inches) were collected from the bottom of the first and second 900 square foot over excavation area, respectively. PCB concentrations for bottom endpoint samples H3C-OE1-BOT (96-102 inches) and H3C-OE2-BOT (96-102 inches) were below the Restricted Use – Industrial SCO of 25 mg/kg. The over excavation sidewall endpoint samples were collected for each additional 30 linear feet of sidewall excavation. Over excavation endpoint sidewall samples H3C-OE1-NSW (96-102 inches), H3C-OE2-NSW (96-102 inches), and previous RI sample SB-38 (1.3 mg/kg [0-48 inches] and 0.49 mg/kg [48-102 inches]) were collected along the northern over excavation sidewall. Over excavation endpoint sidewall samples H3C-OE1-SSW (96-102 inches) and previous RI sample SB-54 (7.0 mg/kg [0-48 inches] and 7.9 mg/kg [48-102 inches]) were collected along the southern over excavation sidewall.

The over excavation endpoint sidewall samples H3C-OE1-NSW (96-102 inches), H3C-OE2-NSW (96-102 inches), and H3C-OE1-SSW (96-102 inches) reported PCB concentrations exceeding the Restricted Use – Industrial SCO of 25 mg/kg. Over excavation endpoint sidewall samples H3C-OE1-NSW-1 and H3C-OE2-NSW-1 were collected 5 feet north of the over excavation associated with Cell H3C, over excavation endpoint sidewall sample H3C-OE1-SSW-1 was collected 5 feet south of the over excavation associated with Cell H3C, and over excavation endpoint sidewall samples H3C-OE2-NSW-2 and H3C-OE1-SSW-2 were collected 10 feet north and south, respectively, of the over excavation associated with Cell H3C. Over excavation endpoint sidewall samples H3C-OE2-NSW-2 and H3C-OE1-SSW-2 reported PCB concentrations below the Restricted Use – Industrial SCO of 25 mg/kg.

Previous RI soil sample SB-12 (0.15 mg/kg [0-60 inches] and 0.72 mg/kg [60-84 inches]) was used as the northern excavation limit for Cell H3C. Excavation south of Cell H3C was terminated at the northern sidewall of Cell H4C as the excavation for this cell was excavated to a depth (9 ft-bgs) as compared to the excavation depth of Cell H3C (8 ft-bgs). Excavation east of Cell H3C was terminated at the western sidewall of Cell H3D as the excavation for this cell was excavated to a depth (8 ft-bgs) as compared to the excavation depth of Cell H3C (8 ft-bgs). Endpoint sample H3C-W1-11 (16.5 mg/kg) was used as the western excavation limit of Cell H3C.

Cell H3C was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell H3C was measured at 30 feet by 25 feet to a depth of 8 ft-bgs and 1,615 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.21 Grid Location – Cell H3D

Remedial soil excavation was performed in Cell H3D due to the presence of PCB contaminated soil detected in RI soil sample SB-17 (69 mg/kg [0-48 inches] and 31 mg/kg [48-72 inches]). The PCB soil concentration exceeded the Restricted Use - Industrial SCO of 25 mg/kg and the TSCA criteria of 50 mg/kg to an approximate depth of 0 to 6 ft-bgs. The proposed excavation depth for this cell was estimated at 8 ft-bgs.

Two (2) surface endpoint samples were collected from the southern and eastern excavation sidewalls from a depth of 12 to 14 inches from the surface (H3D-S1 and H3D-E1) and three (3) subsurface endpoint samples were collected were collected from the northern, southern, and eastern excavation sidewalls from a depth of 60 to 62 inches from the surface (12 to 14 inches below the mid-point excavation depth) (H3D-N2, H3D-S2, and H3D-E2). Endpoint samples were not collected from the western sidewall (H3D-W1 and H3D-W2) since Cell H3C was excavated and no sidewall was present for the collection of endpoint samples. A bottom endpoint sample was collected from a depth of 96 to 102 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (H3D-BOT). The endpoint samples were analyzed for PCBs by EPA Method 8082.

The endpoint sample results from Cell H3D indicated that all of the reported PCB concentrations exceeded the Restricted Use – Industrial SCO of 25 mg/kg with the exception of endpoint samples H3D-E2 and H3D-BOT. Additional endpoint sample H3D-N2-1 was collected 5 feet north of Cell H3D, endpoint samples H3D-S1-1 and H3D-S2-1, and endpoint samples H3D-S1-2 and H3D-S2-2 were collected 5 and 10 feet south of Cell H3D. Endpoint samples H3D-E1-1, H3D-E1-2, H3D-E1-3, H3D-E1-4, H3D-E1-5, H3D-E1-6, H3D-E1-7, and endpoint samples H3D-E1-8 were collected 5, 10, 15, 25, 35, 45, 70, and 75 feet west of Cell H3D.

The endpoint sample results from Cell H3D indicated that all of the reported PCB concentrations exceeded the Restricted Use – Industrial SCO of 25 mg/kg and a decision was made to backfill Cell H3D and investigate and remediate the eastern bulkhead area separately which is further discussed on Section 4.4.4.26.

Excavation north of Cell H3D was terminated at the southern sidewall of Cell H3B as the excavation for this cell was excavated to a depth (8 ft-bgs) consistent with the excavation depth of Cell H3D (8 ft-bgs). Previous RI soil sample SB-44 (4.3 mg/kg [0-48 inches] and 1.4 mg/kg [48-120 inches]) was used as the southern excavation limit for Cell H3D. Endpoint sample H3D-E1-8 was used as the eastern excavation limit of Cell H3D. Excavation west of Cell H3D was terminated at the eastern sidewall of Cell H3C as the excavation for this cell was excavated to a depth (8 ft-bgs) consistent with the excavation depth of Cell H3D (8 ft-bgs). Investigation and remediation beyond H3D-E1-8 along the eastern bulkhead is further discussed on Section 4.4.4.26.

Cell H3D was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell H3D was measured at 30 feet by 25 feet to a depth of 8 ft-bgs and 544 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.22 Grid Location – Cell H4C

Remedial soil excavation was performed in Cell H4C due to the presence of PCB contaminated soil detected in RI soil sample SB-16 (26 mg/kg [0-48 inches] and 33 mg/kg [48-84 inches]). The PCB soil concentration exceeded the Restricted Use – Industrial SCO of 25 mg/kg to an approximate depth of 0 to 7 ft-bgs. The proposed excavation depth for this cell was estimated at 9 ft-bgs.

Three (3) surface endpoint samples were collected from the northern, southern, and western excavation sidewalls from a depth of 12 to 14 inches from the surface (H4C-N1, H4C-S1, and H4C-W1) and three (3) subsurface endpoint samples were collected from the northern, southern, and western excavation sidewalls from a depth of 66 to 68 inches from the surface (12 to 14 inches below the mid-point excavation depth) (H4C-N2, H4C-S2, and H4C-W2). Endpoint samples were not collected from the eastern sidewall (H4C-E1 and H4C-E2) and previous RI soil sample SB-16-1 (10.19 J mg/kg [0-48 inches] and 4.0 mg/kg [72-96 inches]) was used as the eastern excavation limit for Cell H4C. A bottom endpoint sample was collected from a depth of 108 to 114 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (H4C-BOT). The endpoint samples were analyzed for PCBs by EPA Method 8082.

The endpoint sample results from Cell H4C indicated that all of the reported PCB concentrations exceeded the Restricted Use – Industrial SCO of 25 mg/kg with the exception of endpoint sample H4C-BOT. Additional endpoint samples H4C-N1-1 and

H4C-N2-1 were collected 5 feet north of Cell H4C and endpoint samples H4C-S1-1 and H4C-S2-1 were collected 5 feet south of Cell H4C. Endpoint samples H4C-W1-1 and H4C-W2-1, H4C-W1-2 and H4C-W2-2, H4C-W1-3 and H4C-W2-3, H4C-W2-4, and H4C-W2-5 were collected 5, 10, 15, 20, and 25 feet west of Cell H4C.

The endpoint sample results from Cell H4C indicated that all of the reported PCB concentrations exceeded the Restricted Use – Industrial SCO of 25 mg/kg with the exception of endpoint sample H4C-W1-3.

Excavation north of Cell H4C was terminated 5 feet beyond the northern sidewall at endpoint samples H4C-N1/H4C-N2-1 and excavation beyond this point was excavated to a depth of 8 ft-bgs which is consistent with the excavation depth of Cell H3C. Previous RI soil sample SB-16-2 (7.57 J mg/kg [0-48 inches] and 0.69 mg/kg [72-96 inches]) was used as the southern excavation limit for Cell H4C. Previous RI soil sample SB-16-1 (10.19 J mg/kg [0-48 inches] and 4.0 mg/kg [72-96 inches]) was used as the eastern excavation limit for Cell H4C. Previous RI soil sample SB-11 (4.4 mg/kg [0-60 inches], 0.17 mg/kg [60-84 inches], and 0.31 mg/kg [84-132 inches]) was used as the western excavation limit for Cell H4C.

Cell H4C was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell H4C was measured at 30 feet by 25 feet to a depth of 8 ft-bgs and 1,107 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.23 Grid Location – Cell H4D

Remedial soil excavation was performed in Cell H4D due to the presence of lead contaminated soil detected in RI soil sample SB-16-1 (11,600 mg/kg [0-48 inches]). The lead soil concentration exceeded the site-specific SCO of 10,000 mg/kg to an approximate depth of 0 to 4 ft-bgs. The proposed excavation depth for this cell was estimated at 5 ft-bgs.

Three (3) surface endpoint samples were collected from northern, southern, and eastern excavation sidewalls from a depth of 12 to 14 inches from the surface (H4D-N1, H4D-S1, and H4D-E1) and three (3) subsurface endpoint samples were collected from northern, southern, and eastern excavation sidewalls from a depth of 42 to 44 inches from the surface (12 to 14 inches below the mid-point excavation depth) (H4D-N2, H4D-S2, and H4D-E2). Endpoint samples were not collected from the western sidewall (H4D-W1 and H4D-W2) as PCB soil excavation associated with Cell H4C extended into Cell H4D

and was terminated at previous RI soil sample SB-16-1 which was used as the western excavation limit for Cell H4D. A bottom endpoint sample was collected from a depth of 60 to 68 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (H4D-BOT). The endpoint samples were analyzed for lead by EPA Method 6010C.

The endpoint sample results from Cell H4C indicated that all of the reported lead concentrations did not exceeded the site-specific SCO for lead of 10,000 mg/kg.

Cell H4D was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell H4D was measured at 12.5 feet by 25 feet to a depth of 8 ft-bgs and 121 tons of lead contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.24 Grid Location – Cell J5

Remedial soil excavation was performed in Cell J5 due to the presence of PCB contaminated soil detected in RI soil sample SB-102 (37 mg/kg [0-4 feet]). The PCB soil concentration exceeded the Restricted Use - Industrial SCO of 25 mg/kg to an approximate depth of 4 ft-bgs. The excavation depth for Cell J5 was extended to 8 ft-bgs to excavate lead contaminated soil detected in previous RI soil sample SB-102 (17,200 mg/kg [4-6 feet]).

Four (4) surface endpoint samples were collected from each excavation sidewall from a depth of 12 to 14 inches from the surface (J5-N1, J5-S1, J5-E1, and J5-W1) and four (4) subsurface endpoint samples were collected from each excavation sidewall from a depth of 60 to 62 inches from the surface (12 to 14 inches below the mid-point excavation depth) (J5-N2, J5-S2, J5-E2, and J5-W2). A bottom endpoint sample was collected from a depth of 96 to 102 inches from the surface (0 to 6 inches below the center of the excavation) of the excavation base (J5-BOT). The endpoint samples were analyzed for PCBs by EPA Method 8082 and Metals by EPA Method 6010B.

The endpoint sample results from Cell J5 indicated that all of the reported PCB concentrations were below the Restricted Use - Industrial SCO of 25 mg/kg with the exception of J5-N2. Additional subsurface endpoint samples J5-N2-1 and J5-N2-2 were collected from 5 and 10 feet, respectively, north of Cell J5. Subsurface endpoint samples J5-N2-1 and J5-N2-2 exceeded the Restricted Use - Industrial SCO of 25 mg/kg. Previous RI soil sample SB-57 (6.6 mg/kg [0-4 feet] and 3.01 mg/kg [6-8 feet]) was used as the northern excavation limit for Cell J5.

Cell J5 was backfilled with clean fill material and was covered with an asphalt cover. The excavation area for Cell J5 was measured at 40 feet by 20 feet to a depth of 8 ft-bgs and 276 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.25 Grid Locations – Cells J1, J2, J3, and J4 - Eastern Bulkhead

NYSDEC requested additional soil sampling along the existing eastern bulkhead, which was conducted while remedial activities were performed within the fence line. Approximately 90 soil samples were collected behind the eastern bulkhead to assess, characterize, and delineate PCB concentrations exceeding the Restricted Use - Industrial SCOs and/or the LOA cleanup criteria of 25 mg/kg. Seventy (70) soil samples contained PCB concentrations exceeded the Restricted Use - Industrial SCOs and/or the LOA cleanup criteria of 25 mg/kg, and 45 soil samples contained PCB concentrations exceeding the TSCA criteria of 50 mg/kg.

A decision was made to excavate the PCB contaminated soil behind the entire eastern bulkhead to remove all PCB contaminated soil which contained concentrations exceeding the Restricted Use - Industrial SCOs of 25 mg/kg. The bulkhead engineering consultant estimated that the top of the timber cribbing was located at an approximate depth of 9 feet along the eastern bulkhead. Based on this information and the PCB result for the soil samples collected behind the entire eastern bulkhead, soil excavation proceeded to a depth of 9 feet to minimize damage to the timber cribbing structure.

According to DER-10 requirements, confirmatory endpoint bottom samples were collected for every 900 square feet of excavation area along the eastern bulkhead. The eastern bulkhead consisting of Cells J1, J2, J3, and J4 was subdivided into eight (8) individual 900 square foot areas for the collection of endpoint confirmatory samples.

Soil excavation along the eastern bulkhead was performed to an approximate depth of 9 feet where confirmatory endpoint samples ESB-1, ESB-2, ESB-3, ESB-4, ESB-5, ESB-6, ESB-7, and ESB-8 were collected for PCB analysis (EPA Method 8082). The endpoint sample results from the eastern bulkhead indicated that all of the reported PCB concentrations exceeded the Restricted Use - Industrial SCO of 25 mg/kg with the exception of confirmatory endpoint samples ESB-3 and ESB-4.

An additional 2 feet of PCB contaminated soil was excavated from the eastern bulkhead area and confirmatory endpoint samples ESB-1-1, ESB-2-1, ESB-5-1, ESB-6-1, ESB-7-1, and ESB-8-1 were collected at a depth of 132-138 inches. The endpoint sample

results from the eastern bulkhead indicated that all of the reported PCB concentrations exceeded the Restricted Use - Industrial SCO of 25 mg/kg with the exception of confirmatory endpoint samples ESB-1-1 and ESB-2-1.

An additional 2 feet of PCB contaminated soil was excavated from Cell J3 and Cell J4, and confirmatory endpoint samples ESB-5-2, ESB-6-2, ESB-7-2, and ESB-8-2 were collected at a depth of 156-162 inches. The endpoint sample results from Cell J3 and Cell J4 indicated that all of the reported PCB concentrations were below the Restricted Use - Industrial SCO of 25 mg/kg with the exception of confirmatory endpoint sample ESB-7-2.

An additional 0.5 feet of PCB contaminated soil was excavated from the northern portion of Cell J4 and confirmatory endpoint sample ESB-7-3 was collected at a depth of 162-168 inches. The confirmatory endpoint sample results from the northern portion of Cell J4 indicated that the reported PCB concentration from ESB-7-3 was below the Restricted Use - Industrial SCO of 25 mg/kg.

The excavation area for the eastern bulkhead was measured at 200 feet by 25 feet to a depth of 9 to 13.5 ft-bgs and 2,532 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility.

4.4.4.26 Grid Locations – Cells C5, D5, E5, F5, G5, H5, and I5 - Southern Bulkhead

NYSDEC requested additional soil sampling along the existing southern bulkhead, which was conducted while remedial activities were performed within the fence line. Approximately 177 soil samples were collected behind the southern bulkhead to assess, characterize, and delineate PCB concentrations exceeding the Restricted Use - Industrial SCOs and/or the LOA cleanup criteria of 25 mg/kg. 143 soil samples contained PCB concentrations exceeded the Restricted Use - Industrial SCOs and/or the LOA cleanup criteria of 25 mg/kg, and 84 soil samples contained PCB concentrations exceeding the TSCA criteria of 50 mg/kg.

A decision was made to excavate the PCB contaminated soil behind the entire eastern bulkhead to remove all PCB contaminated soil which contained concentrations exceeding the Restricted Use - Industrial SCOs of 25 mg/kg. The bulkhead engineering consultant estimated that the top of the timber cribbing was located at an approximate depth of 10 feet along the southern bulkhead. Based on this information and the PCB

result for the soil samples collected behind the entire southern bulkhead, soil excavation proceeded to a depth of 10 feet to minimize damage to the timber cribbing structure.

According to DER-10 requirements, confirmatory endpoint bottom samples were collected for every 900 square feet of excavation area along the southern bulkhead. The southern bulkhead consisting of Cells C5, D5, E5, F5, G5, H5, and I4 was subdivided into eight (8) individual 900 square foot areas for the collection of endpoint confirmatory samples.

Soil excavation along the southern bulkhead was performed to an approximate depth of 10 feet where confirmatory endpoint samples SSB-1, SSB-2, SSB-3, SSB-4, SSB-5, SSB-6, and SSB-7 were collected for PCB analysis (EPA Method 8082). Confirmatory endpoint sample SSB-8 was collected at a depth of 84-90 inches due to previous PCB results in Cell I5. The endpoint sample results from the southern bulkhead indicated that all of the reported PCB concentrations exceeded the Restricted Use - Industrial SCO of 25 mg/kg with the exception of confirmatory endpoint samples SSB-1, SSB-3, SSB-6, and SSB-7.

An additional 0.5 feet of PCB contaminated soil was excavated from Cell D5 and confirmatory endpoint sample SSB-2-1 was collected at a depth of 126-132 inches. An additional 1 foot for PCB contaminated soil was excavated from Cells F5 and G5, and confirmatory endpoint samples SSB-4-1 and SSB-5-1 were collected at a depth of 132-138 inches. An additional 2 feet for PCB contaminated soil was excavated from Cell I5 and confirmatory endpoint sample SSB-8-1 was collected at a depth of 108-114 inches. The endpoint sample results from Cells D5, F5, G5, and I5 indicated that all of the reported PCB concentrations were below the Restricted Use - Industrial SCO of 25 mg/kg with the exception of confirmatory endpoint sample SSB-5-1.

An additional 1 foot of PCB contaminated soil was excavated from Cell G5 and confirmatory endpoint sample SSB-5-2 was collected at a depth of 144-150 inches. The PCB concentrations from confirmatory sample SSB-5-2 was below the Restricted Use - Industrial SCO of 25 mg/kg.

The excavation area for the southern bulkhead was measured at 350 feet by 25 feet to a depth of 9 to 12.5 ft-bgs and 2,302 tons of PCB contaminated soil was disposed off-site to the Chemical Waste Management, Inc. Model City facility. Additionally, a portion of Cells C5 and D5 were excavated behind the southern that is included in the 1,302 tons excavated from these cells for off-site disposal.

Table 4-6 shows the total quantities of each category of material removed from the site and the disposal locations. Estimated cut and fill thicknesses for remedial activities at the site are included in Figure 4-15.

Letters from Applicants to disposal facility owners and acceptance letters from disposal facility owners are attached in Appendix O. Transporter 364 permits are attached in Appendix O.

Manifests and bills of lading are included in electronic format in Appendix O. Table 4-7 shows each manifest, the quantity for each manifest, and the applicable disposal location.

4.4.5 Baseline Post-Remedial Groundwater Sampling Results

The baseline post-remedial groundwater sampling program was conducted on June 11, 12, and 13, 2013 after completion of all soil remediation activities. The results of the baseline post-remedial groundwater sampling program indicates that several of the on-site groundwater monitoring wells exhibit concentrations of VOCs and TAL Metals above the TOGS standards. The baseline post-remedial groundwater samples were collected for VOCs and TAL Metal analyses, and TAL Metals were collected for total and dissolved sample analysis. Acetone concentrations detected during this sampling program were determined to be a laboratory contaminant and was discounted from this evaluation, as acetone was never detected during previous groundwater sampling at the site. In addition, monitoring well MW-3 was decommissioned in accordance with NYSDEC protocol due to the proposed future warehouse expansion.

The groundwater results from the baseline post-remedial groundwater sampling program indicated the presence of benzene, MTBE, and vinyl chloride with concentrations exceeding the TOGS standards in several on- and off-site monitoring wells. Benzene concentrations were detected in on-site monitoring wells MW-6 (1.1 µg/L) and off-site monitoring well MW-7 (3.2 µg/L) which exceed the TOGS standards of 1 µg/L. Previously, benzene was not detected in MW-6 during the 2011 groundwater sampling event and a benzene concentration of 5.1 µg/L was detected in MW-7 during the 2011 groundwater sampling. MTBE concentrations were detected in on-site monitoring well MW-4 (34 µg/L), MW-5 (16 µg/L), and MW-6 (16 µg/L) which exceed the TOGS standards of 10 µg/L. Previously, MTBE was detected in on-site monitoring wells MW-4 (36 µg/L), MW-5 (14 µg/L), and MW-6 (15 µg/L) was detected during the 2011 groundwater sampling. Vinyl chloride concentrations were detected in on-site

monitoring well MW-1 (3.4 µg/L) and MW-2R (4.7 µg/L) which exceed the TOGS standards of 2 µg/L. Previously, Vinyl chloride was detected in on-site monitoring wells MW-4 (2.8 µg/L) and MW-6 (17 µg/L) and was detected during the 2011 groundwater sampling. Additionally, total xylenes were detected in on-site monitoring wells MW-6 (5.2 µg/L) which exceed the TOGS standards of 5 µg/L and was not previously detected during the 2011 groundwater sampling.

Concentrations of aluminum, iron, lead, magnesium, manganese, and sodium are present with concentrations exceeding the TOGS standards in several on- and off-site monitoring wells. The unfiltered and filtered samples collected for aluminum, manganese, nickel, and sodium analyses indicated that concentrations exceeding the TOGS standard were detected at MW-7 and MW-8 (off-site monitoring wells) and are likely indicative of a regional or localized groundwater conditions. Lead concentrations were detected in the total (unfiltered) groundwater sample collected from MW-2R (120 µg/L) which exceed the TOGS standards of 25 µg/L and was not previously detected during the 2011 groundwater sampling. No other TAL Metal groundwater COCs were detected at concentrations exceeding the TOGS standards in either the unfiltered or filtered samples collected during the baseline post-remedial groundwater sampling program.

An evaluation of the samples collected during the baseline post-remedial groundwater sampling program suggests that the upgradient VOC contaminant plume detected in monitoring wells MW-7 and MW-8 appears to be attenuating and also appears to be occurring at monitoring wells MW-1 and MW-2R. VOC contaminant concentrations detected in monitoring wells MW-4, MW-5, and MW-6 are currently stable from the previous 2011 groundwater sampling. The unfiltered TAL Metal sample results are significantly lower for most parameters, including the groundwater COCs, since the 2011 groundwater sampling. Arsenic and lead were the only groundwater COCs detected at or exceeding the TOGS standard in the unfiltered groundwater sample. Iron, magnesium, manganese, and sodium were the only TAL Metals exceeding the TOGS standard from the filtered groundwater sample.

PCB groundwater sample collection was discontinued in 2009 and PCBs were not collected for or sampled during the 2013 groundwater sampling event. However, PCB groundwater samples are required for collection and analyses as part of the groundwater monitoring requirement established in the SMP.

Figures 4-16, 4-17, and 4-18, and Tables 4-8, 4-9, and 4-10 summarize the results of the baseline post-remedial groundwater sampling program after completion of Remedial Action that exceed the TOGS standards.

4.4.6 Site Management Plan

A SMP has been prepared for the Site to provide a detailed description of all procedures required for the removal of contaminated materials form the Site, to monitor the asphalt cover system, for groundwater monitoring, groundwater monitoring well repairs, replacement, and decommissioning, for soil vapor monitoring/mitigation, for site-wide inspections, for monitoring schedules, and to manage remaining contamination at the Site after completion of the remedial action. The SMP included: 1) implementation and management of all engineering controls (ECs)/institutional controls (IC)s; 2) media monitoring; 3) operation and maintenance for implementation and maintaining ECs as part of the remedial action; 4) performance of periodic inspections, certification of results, and submittal of Periodic Review Reports; and 5) defining criteria for termination of remedial operations.

The SMP also included three (3) plans: 1) an Engineering and Institutional Control Plan for implementation and management of EC/ICs; 2) a Monitoring Plan for implementation of Site Monitoring; and 3) an Operation and Maintenance Plan for implementation and maintaining ECs as part of the remedial action.

This plan also included a description of Periodic Review Reports for the periodic submittal of data, information, recommendations, and certifications to NYSDEC. The SMP will be prepared and submitted to NYSDEC review after remedial action have been completed at the Site and prior to submittal of the Final Engineering Report.

4.5 IMPORTED BACKFILL

Imported clean fill material was used to backfill the remedial excavation areas. The sources of backfill were sampled to assess the presence of soil contaminants with concentrations exceeding the Restricted Use - Industrial SCOs before it was brought to the Site. Sample collection and QA/QC procedures were performed in accordance with DER-10 Table 5.4(e) 10. Imported clean fill material stockpiles were sampled at the source at a frequency specified in Table 5.4(e) 10. The imported clean fill material could not contain soil concentrations exceeding the Commercial or Industrial Use criteria provided in Appendix 5 (Allowable Constituents Levels for Imported Fill or Soil –

Subdivision 5.4 [e]) of DER-10; otherwise it was rejected and replaced with soil containing concentrations that did not exceed these criteria.

The clean fill material was obtained from New York Recycling, LLC. Analytical data was collected Table 5.4(e) 10 and submitted for evaluation. The analytical data was compared to Appendix 5 (Allowable Constituents Levels for Imported Fill or Soil – Subdivision 5.4 [e]) of DER-10. Once the analytical results were evaluated and approved for on-site use as backfill material, the analytical results and a subsequent request for on-site use was submitted to NYSDEC for approval. The clean fill material was subsequently delivered to the site once concurrence was received by NYSDEC. Approximately 8,000 cubic yards of clean fill was approved from New York Recycling, LLC, and was placed in the remedial excavation areas across the site. Additionally, quantities of top soil, rip-rap, and course aggregate were also imported to the site for use as clean backfill materials for areas along the southern and eastern bulkheads.

A table of all sources of imported backfill with quantities for each source is shown in Table 4.11. Tables summarizing chemical analytical results for backfill, in comparison to allowable levels, are provided in Table 4.12 and Appendix P. A figure showing the site locations where backfill was used at the site is shown in Figure 4-15.

4.6 CONTAMINATION REMAINING AT THE SITE

Soil sample locations will remain on-site that exceed the Unrestricted Use and Restricted Use - Protection of Groundwater for arsenic, and the Unrestricted Use and Restricted Use - Industrial SCOs for lead, mercury, and PCBs which were not excavated as part of the selected and approved Remedial Alternative (Hot Spot Excavation, Site-Specific RAO and Restricted Use - Industrial SCOs). These soil sample locations were covered beneath the asphalt and soil cover system (EC), which will prevent dermal contact with soil that contains concentrations exceeding the Unrestricted Use and Restricted Use - Protection of Groundwater for arsenic, and the Unrestricted Use and Restricted Use Industrial SCOs for lead, mercury and PCBs.

The major COCs expected to remain on-site as “remaining contamination” are arsenic, lead, mercury, and SVOCs which have been evaluated to determine their potential to migrate to other environmental media. The “engineered cover system” would also provide protection for human health exposure from carcinogenic PAHs in surface soil.

After completion of soil/fill removal and prior to backfilling, the top elevation of residual contaminated soils documented the grade covered by the demarcation layer before the placement of the asphalt and soil cover system. A physical demarcation layer was placed on the surface to provide a visual reference. This demarcation layer constitutes the top of the "Residuals Management Zone", the zone that requires adherence to special conditions for disturbance of contaminated soils is defined in the SMP.

Orange construction fence was placed over the surficial soil prior to topsoil or sub base placement, and acts as a visual demarcation barrier that will alert construction workers or inspectors if the demarcation barrier has been compromised or as a warning during future redevelopment or construction activities at the Site.

Figure 4-15 provides the final excavation depths for each excavation area completed during remedial activities.

Table 4-13 and Figures 4-19, 4-20, 4-21, and 4-22 summarize the results of all soil samples remaining at the site after completion of Remedial Action that exceed the Track 1 (unrestricted) SCOs.

Figures 4-19, 4-20, 4-21, and 4-22 summarizes the results of all soil samples remaining at the site after completion of the remedial action that meet the SCOs for unrestricted use of the site.

Since contaminated soil, groundwater, and soil vapor remains beneath the site after completion of the Remedial Action, Institutional and Engineering Controls are required to protect human health and the environment. These Engineering and Institutional Controls (ECs/ICs) are described in the following sections. Long-term management of these EC/ICs and residual contamination will be performed under the Site Management Plan (SMP) approved by the NYSDEC.

4.7 SOIL AND ASPHALT COVER SYSTEM

Exposure to remaining contamination in soil/fill at the site is prevented by a soil cover system placed over the site. This cover system is comprised of a minimum of 12 inches of clean soil, asphalt pavement, crushed stone, and rip-rap. Figure 4-23 shows the location of each cover type built at the Site. An Excavation Work Plan, which outlines the procedures required in the event the cover system and/or underlying residual contamination are disturbed, is provided in Appendix C of the SMP.

The asphalt cover system consists of a 2 inches asphalt top course, 4 inches of asphalt binder course, and includes 11 inches of sub base top of the geotextile material, and on top of the demarcation layer in areas, where remedial excavation occurred, which contain soil concentrations exceeding the Restricted Use - Industrial SCOs. For areas outside the asphalt cover area, landscaped areas and areas behind the bulkhead consist of an impermeable membrane placed on top of the existing soil and generally below a minimum of 12 inches of rip-rap, stone, or top soil which is consistent with NYSDEC requirements. The final cover depths in these areas exceeded 1-foot in all areas. The asphalt mixture specifications and impermeable membrane specification sheets (material cut-sheets) are provided in Appendix Q.

Inspection of the soil and asphalt cover will be conducted annually in the spring after all snow has melted or has been plowed/cleared from the Site in accordance with the SMP which is required by NYSDEC under the BCP. If during the inspection the soil and asphalt cover is determined to be damaged, appropriate actions will be taken to repair, replace or reseal the damaged area. Areas of significant damage or damaged areas which have the potential to allow public access/exposure to sub-base materials, as determined by a Professional Engineer (P.E.), will be repaired immediately. The degree of repair (i.e. resealing and/or placement of new asphalt) will be dependent on type and size of the damaged area. If the damage is determined to be of great significance that may cause for the disturbance of impacted materials, the provisions within the SMP will be followed and worker protection measures implemented.

As-build drawings are provided in Appendix R.

4.8 OTHER ENGINEERING CONTROLS

Since remaining contaminated soil and groundwater/soil vapor exists beneath the site, Engineering Controls (EC) are required to protect human health and the environment. The site has the following primary Engineering Controls, as described in the following subsections.

The remedial action for the Site included placing an engineered cover system (soil, asphalt, stone, and rip-rap) above soils with arsenic concentrations exceeding the Restricted Use - Protection of Groundwater SCOs of 16 mg/kg and below the site-specific RAO of 100 mg/kg, with lead concentrations exceeding the Restricted Use - Industrial SCOs of 3,900 mg/kg and below the site-specific RAO of 10,000 mg/kg, with

mercury concentrations exceeding the Restricted Use - Industrial SCOs of 5.7 mg/kg and below the site-specific RAO of 15 mg/kg, and SVOC concentrations exceeding the Restricted Use - Industrial SCOs. The engineered cover system (asphalt) was at least 12 inches (which includes the sub-base for asphalt) thick above the soil containing arsenic concentrations exceeding the Restricted Use - Protection of Groundwater, and the lead and mercury concentrations exceeding the Restricted Use - Industrial SCOs present in the surficial soils.

The asphalt cover system consisted of (from top to bottom):

- 6 inches of asphalt (2 inches top course and 4 inches binder course);
- Geotextile membrane;
- 11 inches of sub base; and,
- Demarcation barrier.

The purpose of the asphalt cover system will block direct surface contact with the underlying contamination. Asphalt is acceptable as a barrier to direct contact with the underlying contamination, so long as it is adequately maintained. In addition to requiring proper maintenance, asphalt used to block surface contact was designed to handle anticipated vehicle or structural loads. However, asphalt usually develops cracks, especially in climates similar to Brooklyn where numerous freeze-thaw cycles occur every winter. Cracking can be accelerated by vehicle loading. Even if the cracks represent only a small fraction of the total surface area of the cover, they can allow considerable infiltration if they disrupt normal sheet flow across the surface. The SMP will recommend corrective action necessary to repair asphalt or concrete cracks to eliminate excessive infiltration thus promoting normal sheet flow across the Site. The cover detail for the soil and asphalt cover is shown on Figure 4-24.

Orange construction fence was placed over the surficial soil (remaining contamination) prior to topsoil or sub base placement, as part of the approved engineered cover system. The construction fence physically separates the impacted soil from the sub base and act as the demarcation barrier. The construction fence is durable and resists decomposition, and will also provide a visual barrier that will alert construction workers or inspectors if the demarcation barrier has been compromised or as a warning during future redevelopment or during future construction activities at the Site.

Before the sub base is placed, the ground surface was prepared. The surface soil preparation consisted of minor site grading to correct surface problems.

A chain-linked fence with locked gates is located along the eastern and southern perimeter of the property, and a concrete block/brick wall is located along the western perimeter of the property which restricts access to the site. Along the northern perimeter, a partial concrete block/brick wall is opened to allow unrestricted access by Frito-Lay employees from the 222 Morgan Avenue facility which is also surrounded by a fence or wall which restricts unauthorized access to both Frito-Lay properties

The remedy for the site did not require the construction of any other engineering control systems.

The site remedy does not rely on any mechanical systems, such as sub-slab depressurization systems (SSDS) or air sparge/soil vapor extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not included in this SMP. An active soil vapor mitigative system may be preferable as a more cost effective alternative to a passive sub-slab depressurization system. The piping and fan associated with an active system could be installed only after initial indoor air sampling indicates SVI mitigation is warranted.

The SMP also addresses inspection procedures that must occur after any severe weather condition has taken place that may affect on-site ECs.

4.9 INSTITUTIONAL CONTROLS

The site remedy requires that an environmental easement be placed on the property to (1) implement, maintain and monitor the Engineering Controls; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to Industrial uses only.

The environmental easement for the site was executed by the Department on September 18, 2013, and filed with the Office of City Register of the City of New York Clerk on September 26, 2013. The County Recording Identifier number for this filing is CRFN 2013000399904. A copy of the easement and proof of filing is provided in Appendix C.

4.10 DEVIATIONS FROM THE REMEDIAL ACTION WORK PLAN

There were two (2) deviations from the approved RWP that were implemented during the remedial activities performed at the Frito-Lay site. Specifically, NYSDEC requested that environmental sampling be conducted along the southern and eastern bulkheads beyond the existing chain link fence to assess the presence of PCB contaminated soil exceeding 25 mg/kg. Additionally, a modification request to the approved RWP was made to NYSDEC to allow for the use of low-level (< 25 mg/kg) PCB contaminated soil excavated from several cell locations and usage as backfill for another cell location.

On December 27, 2011, NYSDEC requested that the area between the fence line and bulkhead on the south and east sides of the site be characterized. On March 30, 2012, on April 30, 2012, and on May 4, 2012, GF submitted a Bulkhead Investigation Work Plan to perform additional soil sampling along the existing southern and eastern bulkheads. On May 15, 2012, NYSDEC accepted the Bulkhead Investigation Work Plan which was implemented while remedial activities were performed within the property fence line. Approximately 177 soil samples were collected behind the southern bulkhead and approximately 90 soil samples were collected behind the eastern bulkhead to assess, characterize, and delineate PCB concentrations exceeding the Restricted Use - Industrial SCO of 25 mg/kg.

A decision was made to excavate the PCB contaminated soil behind the entire southern and eastern bulkhead to remove all PCB contaminated soil which contained concentrations exceeding the Restricted Use - Industrial SCO of 25 mg/kg. The bulkhead engineering consultant estimated that the top of the timber cribbing was located at an approximate depth of 10 feet along the southern bulkhead and 9 feet along the eastern bulkhead. Based on this information and the PCB soil sample results, soil excavation proceeded to a depth of 10 feet behind the entire southern bulkhead to minimize damage to the timber cribbing structure and excavation proceeded to a depth of 9 feet behind the entire eastern bulkhead to minimize damage to the timber cribbing structure.

Approximately, 3,600 tons of PCB contaminated soil was excavated from behind the southern bulkhead and approximately 2,500 tons was excavated from behind the eastern bulkhead and disposed of at the Chemical Waste Management, Inc. Model City facility.

On May 4, 2012, GF requested a modification to the NYSDEC-approved RWP to allow for the consolidation of on-site PCB contaminated soils from Cells E1A, E1D, E3A, and E3D with concentrations between 10 and 25 mg/kg to Cell B1 in lieu of off-site disposal. The PCB contaminated soil from Cells E1A, E1D, E3A, and E3D was proposed to be placed above the groundwater table and beneath an NYSDEC-approved cover system. This modification request was also submitted to the EPA – Region 2 office on April 10, 2012 for concurrence, as it related to on-site reuse of PCB contaminated soil in lieu of off-site disposal. On April 17, 2012, EPA – Region 2 approved the modification request and on June 8, 2013, NYSDEC accepted the RWP modification to allow for the consolidation of on-site PCB contaminated soils from Cells E1A, E1D, E3A, and E3D to Cell B1 in lieu of off-site disposal. The total quantity of soil from these 4 cells represented approximately 720 cubic yards of PCB soil that contain concentrations between 10 and 25 mg/kg. Cell B1 required the excavation of approximately 926 cubic yards for off-site disposal which allowed for the consolidation of approximately 720 cubic yards of soil from Cells E1A, E1D, E3A, and E3D to Cell B1.

TABLES

TABLE 2-1
SOIL CLEANUP OBJECTIVES (SCOs)

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

PARAMETERS	CAS Number	Industrial SCOs [1]
Volatile Organic Compounds (VOCs) - mg/kg		
1,1,1-Trichloroethane	71-55-6	1,000
1,1-Dichloroethane	75-34-3	480
1,1-Dichloroethene	75-35-4	1,000
1,2-Dichlorobenzene	95-50-1	1,000
1,2-Dichloroethane	107-06-2	60
cis-1,2-Dichloroethene	156-59-2	1,000
trans-1,2-Dichloroethene	156-60-5	1,000
1,3-Dichlorobenzene	541-73-1	560
1,4-Dichlorobenzene	106-46-7	250
1,4-Dioxane	123-91-1	250
Acetone	67-64-1	1,000
Benzene	71-43-2	89
n-Butylbenzene	104-51-8	1,000
Carbon tetrachloride	56-23-5	44
Chlorobenzene	108-90-7	1,000
Chloroform	67-66-3	700
Ethylbenzene	100-41-4	780
Hexachlorobenzene	118-74-1	12
Methyl ethyl ketone	78-93-3	1,000
Methyl tert-butyl ether	1634-04-4	1,000
Methylene chloride	75-09-2	1,000
n-Propylbenzene	103-65-1	1,000
sec-Butylbenzene	135-98-8	1,000
tert-Butylbenzene	98-06-6	1,000
Tetrachloroethene	127-18-4	300
Toluene	108-88-3	1,000
Trichloroethene	79-01-6	400
1,2,4-Trimethylbenzene	95-63-6	380
1,3,5- Trimethylbenzene	108-67-8	380
Vinyl chloride	75-01-4	27
Xylene (mixed)	1030-20-7	1,000
PCBs - mg/kg		
PCB-1016	1336-36-3	25
PCB-1221	1336-36-3	25
PCB-1232	1336-36-3	25
PCB-1242	1336-36-3	25
PCB-1248	1336-36-3	25
PCB-1254	1336-36-3	25
PCB-1260	1336-36-3	25
PCB-1262	1336-36-3	25
PCB-1268	1336-36-3	25

PARAMETERS	CAS Number	Industrial SCOs [1]
Semi-Volatiles Organic Compounds (SVOCs) - mg/kg		
Acenaphthene	83-32-9	1,000
Acenapthylene	208-96-8	1,000
Anthracene	120-12-7	1,000
Benz(a)anthracene	50-32-8	11
Benzo(a)pyrene	56-55-3	1.1
Benz(b)fluoranthene	205-99-2	11
Benzo(g,h,i)perylene	191-24-2	1,000
Benzo(k)fluoranthene	207-08-9	110
Chrysene	218-01-9	110
Dibenz(a,h)anthracene	53-70-3	1.1
Fluoranthene	206-44-0	1,000
Fluorene	86-73-7	1,000
Indeno(1,2,3-cd)pyrene	193-39-5	11
m-Cresol	108-39-4	1,000
Naphthalene	91-20-3	1,000
o-Cresol	95-48-7	1,000
p-Cresol	106-44-5	1,000
Pentachlorophenol	87-86-5	55
Phenanthrene	85-01-8	1,000
Phenol	108-95-2	1,000
Pyrene	129-00-0	1,000
Total Metals - mg/kg		
Arsenic	7440-38-2	100 [2]
Barium	7440-39-3	10,000
Beryllium	7440-41-7	2,700
Cadmium	7440-43-9	60
Chromium	16065-83-1	800
Copper	7440-50-8	10,000
Total Cyanide	-------	10,000
Lead	7439-92-1	10,000 [2]
Manganese	7439-96-5	10,000
Mercury	-------	15 [2]
Nickel	7440-02-0	10,000
Selenium	7782-49-2	6,800
Silver	7440-22-4	6,800
Zinc	7440-66-6	10,000

NOTES:
1. Values per 6 NYCRR Part 375-6.8(b) for Industrial SCOs
2. Values derived site-specific SCOs

TABLE 4-1

ENDPOINT SAMPLE LOCATIONS

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Remedial Area	Sample Location Designation (Inches)	Proposed Sampling Depths	Soil Sample Analysis			
			Arsenic	Lead	Mercury	PCBs
A1	A1-N1 (12-14)	12 to 14 inches	x			
	A1-W1 (12-14)	12 to 14 inches	x			
	A1-N2 (84-86)	84 to 86 inches	x			
	A1-W2 (84-86)	84 to 86 inches	x			
	A1-S2 (84-86)	84 to 86 inches	x			
	A1-B1 (144-150)	144 to 150 inches	x			
A2	A2-W1 (12-14)	12 to 14 inches	x	x		
	A2-E1 (12-14)	12 to 14 inches	x	x		
	A2-W2 (36-38)	36 to 38 inches	x	x		
	A2-E2 (36-38)	36 to 38 inches	x	x		
	A2-B1 (48-54)	48 to 54 inches	x	x		
A3	A3-W1 (12-14)	12 to 14 inches	x			
	A3-S1 (12-14)	12 to 14 inches	x			
	A3-E1 (12-14)	12 to 14 inches	x			
	A3-W2 (36-38)	36 to 38 inches	x			
	A3-S2 (36-38)	36 to 38 inches	x			
	A3-E2 (36-38)	36 to 38 inches	x			
	A3-B1 (48-54)	48 to 54 inches	x			
B1	B1-N1 (12-14)	12 to 14 inches	x			
	B1-E1 (12-14)	12 to 14 inches	x			
	B1-S1 (12-14)	12 to 14 inches	x			
	B1-N2 (72-74)	72 to 74 inches	x			
	B1-E2 (72-74)	72 to 74 inches	x			
	B1-S2 (72-74)	72 to 74 inches	x			
	B1-B1 (120-126)	120 to 126 inches	x			
B5	B5-N1 (12-14)	12 to 14 inches			x	x
	B5-E1 (12-14)	12 to 14 inches			x	x
	B5-S1 (12-14)	12 to 14 inches			x	x
	B5-W1 (12-14)	12 to 14 inches			x	x
	B5-N2 (84-86)	84 to 86 inches			x	x
	B5-E2 (84-86)	84 to 86 inches			x	x
	B5-S2 (84-86)	84 to 86 inches			x	x
	B5-W2 (84-86)	84 to 86 inches			x	x
	B5-B1 (144-150)	144 to 150 inches			x	x
C5	C5-N1 (12-14)	12 to 14 inches				x
	C5-W1 (12-14)	12 to 14 inches				x
	C5-S1 (12-14)	12 to 14 inches				x
	C5-N2 (60-62)	60 to 62 inches				x
	C5-W2 (60-62)	60 to 62 inches				x
	C5-S2 (60-62)	60 to 62 inches				x
	C5-B1 (96-102)	96 to 102 inches				x
D2	D2-N1 (12-14)	12 to 14 inches				x
	D2-E1 (12-14)	12 to 14 inches				x
	D2-S1 (12-14)	12 to 14 inches				x
	D2-W1 (12-14)	12 to 14 inches				x
	D2-N2 (42-44)	42 to 44 inches				x
	D2-E2 (42-44)	42 to 44 inches				x
	D2-S2 (42-44)	42 to 44 inches				x
	D2-W2 (42-44)	42 to 44 inches				x
	D2-B1 (60-66)	60 to 66 inches				x
D3	D3-N1 (12-14)	12 to 14 inches		x		x
	D3-E1 (12-14)	12 to 14 inches		x		x
	D3-S1 (12-14)	12 to 14 inches		x		x
	D3-W1 (12-14)	12 to 14 inches		x		x
	D3-N2 (54-56)	54 to 56 inches		x		x
	D3-E2 (54-56)	54 to 56 inches		x		x
	D3-S2 (54-56)	54 to 56 inches		x		x
	D3-W2 (54-56)	54 to 56 inches		x		x
	D3-B1 (84-90)	84 to 90 inches		x		x

TABLE 4-1

ENDPOINT SAMPLE LOCATIONS

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Remedial Area	Sample Location Designation (Inches)	Proposed Sampling Depths	Soil Sample Analysis			
			Arsenic	Lead	Mercury	PCBs
D5	D5-N1 (12-14)	12 to 14 inches		x	x	x
	D5-E1 (12-14)	12 to 14 inches		x	x	x
	D5-S1 (12-14)	12 to 14 inches		x	x	x
	D5-N2 (54-56)	54 to 56 inches		x	x	x
	D5-E2 (54-56)	54 to 56 inches		x	x	x
	D5-S2 (54-56)	54 to 56 inches		x	x	x
	D5-B1 (84-90)	84 to 90 inches		x	x	x
E1A	E1A-N1 (12-14)	12 to 14 inches				x
	E1A-E1 (12-14)	12 to 14 inches				x
	E1A-S1 (12-14)	12 to 14 inches				x
	E1A-W1 (12-14)	12 to 14 inches				x
	E1A-N2 (84-86)	84 to 86 inches				x
	E1A-E2 (84-86)	84 to 86 inches				x
	E1A-S2 (84-86)	84 to 86 inches				x
	E1A-W2 (84-86)	84 to 86 inches				x
	E1A-B1 (144-150)	144 to 150 inches				x
E1D	E1D-N1 (12-14)	12 to 14 inches		x		x
	E1D-E1 (12-14)	12 to 14 inches		x		x
	E1D-S1 (12-14)	12 to 14 inches		x		x
	E1D-W1 (12-14)	12 to 14 inches		x		x
	E1D-N2 (60-62)	60 to 62 inches		x		x
	E1D-E2 (60-62)	60 to 62 inches		x		x
	E1D-S2 (60-62)	60 to 62 inches		x		x
	E1D-W2 (60-62)	60 to 62 inches		x		x
	E1D-B1 (96-102)	96 to 102 inches		x		x
E3A	E3A-N1 (12-14)	12 to 14 inches				x
	E3A-E1 (12-14)	12 to 14 inches				x
	E3A-S1 (12-14)	12 to 14 inches				x
	E3A-W1 (12-14)	12 to 14 inches				x
	E3A-N2 (54-56)	54 to 56 inches				x
	E3A-E2 (54-56)	54 to 56 inches				x
	E3A-S2 (54-56)	54 to 56 inches				x
	E3A-W2 (54-56)	54 to 56 inches				x
	E3A-B1 (84-90)	84 to 90 inches				x
E3D	E3D-N1 (12-14)	12 to 14 inches				x
	E3D-E1 (12-14)	12 to 14 inches				x
	E3D-W1 (12-14)	12 to 14 inches				x
	E3D-N2 (36-38)	36 to 38 inches				x
	E3D-E2 (36-38)	36 to 38 inches				x
	E3D-W2 (36-38)	36 to 38 inches				x
	E3D-B1 (48-54)	48 to 54 inches				x
E4B	E4B-E1 (12-14)	12 to 14 inches		x		x
	E4B-W1 (12-14)	12 to 14 inches		x		x
	E4B-E2 (60-62)	60 to 62 inches		x		x
	E4B-W2 (60-62)	60 to 62 inches		x		x
	E4B-N2 (60-62)	60 to 62 inches		x		x
	E4B-B1 (96-102)	96 to 102 inches		x		x
E4C	E4C-N1 (12-14)	12 to 14 inches				x
	E4C-W1 (12-14)	12 to 14 inches				x
	E4C-S1 (12-14)	12 to 14 inches				x
	E4C-N2 (42-44)	42 to 44 inches				x
	E4C-W2 (42-44)	42 to 44 inches				x
	E4C-S2 (42-44)	42 to 44 inches				x
	E4C-B1 (60-66)	60 to 66 inches				x
E4D	E4D-S1 (12-14)	12 to 14 inches		x		x
	E4D-S2 (60-62)	60 to 62 inches		x		x
	E4D-W2 (60-62)	**60 to 62 inches**		**x**		**x**
	E4D-B1 (96-102)	96 to 102 inches		x		x

TABLE 4-1

ENDPOINT SAMPLE LOCATIONS

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Remedial Area	Sample Location Designation (Inches)	Proposed Sampling Depths	Soil Sample Analysis			
			Arsenic	Lead	Mercury	PCBs
F4	F4-N1 (12-14)	12 to 14 inches		x		x
	F4-E1 (12-14)	12 to 14 inches		x		x
	F4-S1 (12-14)	12 to 14 inches		x		x
	F4-N2 (72-74)	72 to 74 inches		x		x
	F4-E2 (72-74)	72 to 74 inches		x		x
	F4-S2 (72-74)	72 to 74 inches		x		x
	F4-B1 (120-126)	120 to 126 inches		x		x
G2	G2-N1 (12-14)	12 to 14 inches				x
	G2-E1 (12-14)	12 to 14 inches				x
	G2-S1 (12-14)	12 to 14 inches				x
	G2-W1 (12-14)	12 to 14 inches				x
	G2-N2 (36-38)	36 to 38 inches				x
	G2-E2 (36-38)	36 to 38 inches				x
	G2-S2 (36-38)	36 to 38 inches				x
	G2-W2 (36-38)	36 to 38 inches				x
	G2-B1 (48-54)	48 to 54 inches				x
H3B	H3B-N1 (12-14)	12 to 14 inches				x
	H3B-E1 (12-14)	12 to 14 inches				x
	H3B-W1 (12-14)	12 to 14 inches				x
	H3B-N2 (42-44)	42 to 44 inches				x
	H3B-E2 (42-44)	42 to 44 inches				x
	H3B-W2 (42-44)	42 to 44 inches				x
	H3B-B1 (60-66)	60 to 66 inches				x
H3C	H3C-N1 (12-14)	12 to 14 inches				x
	H3C-W1 (12-14)	12 to 14 inches				x
	H3C-S1 (12-14)	12 to 14 inches				x
	H3C-N2 (60-62)	60 to 62 inches				x
	H3C-W2 (60-62)	60 to 62 inches				x
	H3C-S2 (60-62)	60 to 62 inches				x
	H3C-B1 (96-102)	96 to 102 inches				x
H3D	H3D-E1 (12-14)	12 to 14 inches				x
	H3D-S1 (12-14)	12 to 14 inches				x
	H3D-E2 (60-62)	60 to 62 inches				x
	H3D-S2 (60-62)	60 to 62 inches				x
	H3D-N2 (60-62)	**60 to 62 inches**				x
	H3D-B1 (96-102)	96 to 102 inches				x
H4C	H4C-N1 (12-14)	12 to 14 inches				x
	H4C-W1 (12-14)	12 to 14 inches				x
	H4C-S1 (12-14)	12 to 14 inches				x
	H4C-N2 (66-68)	66 to 68 inches				x
	H4C-W2 (66-68)	66 to 68 inches				x
	H4C-S2 (66-68)	66 to 68 inches				x
	H4C-E2 (66-68)	**66 to 68 inches**				x
	H4C-B1(108-114)	108 to 114 inches				x
H4D	H4D-N1 (12-14)	12 to 14 inches		x		
	H4D-E1 (12-14)	12 to 14 inches		x		
	H4D-S1 (12-14)	12 to 14 inches		x		
	H4D-N2 (42-44)	42 to 44 inches		x		
	H4D-E2 (42-44)	42 to 44 inches		x		
	H4D-S2 (42-44)	42 to 44 inches		x		
	H4D-B1 (60-66)	60 to 66 inches		x		
J5	J5-N1 (12-14)	12 to 14 inches		x		x
	J5-E1 (12-14)	12 to 14 inches		x		x
	J5-S1 (12-14)	12 to 14 inches		x		x
	J5-W1 (12-14)	12 to 14 inches		x		x
	J5-N2 (60-62)	60 to 62 inches		x		x
	J5-E2 (60-62)	60 to 62 inches		x		x
	J5-S2 (60-62)	60 to 62 inches		x		x
	J5-W2 (60-62)	60 to 62 inches		x		x
	J5-B1 (96-102)	96 to 102 inches		x		x

The endpoint sample analysis for SB-8-1 now includes PCBs based on the 9/29/11 sample results.
A1-S1 (12-14) Sample may be eliminated if additional soil is excavated from adjacent cell.

TABLE 4-2

SOIL ANALYTICAL RESULTS - VOCs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	WC-2-1	WC-2-2	WC-4-1	WC-5-1	WC-6-1
		WC-2-1	WC-2-2	WC-4-1	WC-5-1	WC-6-1
Date		7/19/2011	7/19/2011	7/19/2011	7/20/2011	7/20/2011
Volatile Organic Compounds (mg/kg) - Method 8260						
1,1,1-Trichloroethane	1,000	0.064 J	0.11 U	0.0011 U	0.12 U	0.13 U
1,1,2,2-Tetrachloroethane	---	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
1,1,2-Trichloroethane	---	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
1,1-Dichloroethane	480	0.11 U	0.11 U	0.0011 U	0.069 J	0.13 U
1,1-Dichloroethene	1,000	0.086 J	0.11 U	0.0011 U	0.12 U	0.13 U
1,2,4-Trichlorobenzene	380	0.11 U	0.97	0.0011 U	0.12 U	1.3
1,2-Dibromo-3-Chloropropane	---	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
1,2-Dibromoethane	---	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
1,2-Dichlorobenzene	1,000	0.11 U	0.043 J	0.0011 U	0.12 U	0.038 J
1,2-Dichloroethane	60	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
1,2-Dichloropropane	---	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
1,3-Dichlorobenzene	560	0.11 U	0.11 U	0.0011 U	0.12 U	0.11 J
1,4-Dichlorobenzene	250	0.11 U	0.062 J	0.0011 U	0.065 J	0.064 J
2-Butanone	---	1.1 U	1.1 U	0.011 U	1.2 U	1.3 U
2-Hexanone	---	1.1 U	1.1 U	0.011 U	1.2 U	1.3 U
4-Methyl-2-pentanone	---	0.23 J	0.51 J	0.01 J	1.2 U	1.3 U
Acetone	1,000	1.1 U	1.1 U	0.13	1.2 U	1.3 U
Benzene	89	0.11 U	0.089 J	0.00095 J	0.066 J	0.17
Bromodichloromethane	---	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
Bromoform	---	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
Bromomethane	---	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
Carbon disulfide	---	0.12	0.22	0.0049	0.088 J	0.13 U
Carbon tetrachloride	44	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
Chlorobenzene	1,000	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
Chloroethane	---	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
Chloroform	700	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
Chloromethane	---	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
cis-1,2-Dichloroethene	1,000	0.049 J	1.1	0.0016	0.091 J	0.16
cis-1,3-Dichloropropene	---	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
Cyclohexane	---	0.11 U	0.11 U	0.00066 J	0.12 U	0.085 J
Dibromochloromethane	---	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
Dichlorodifluoromethane	---	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
Ethylbenzene	780	0.087 J	0.63	0.0078	1.1	0.78
Freon TF	---	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
Isopropylbenzene	---	0.41	0.63	0.0011	1.1	1.1
Methyl acetate	---	3.2	0.22 U	0.0011 U	0.23 U	0.25 U
Methylcyclohexane	---	0.18	0.071 J	0.00086 J	0.13	0.13
Methylene Chloride	1,000	0.11 U	0.11 U	0.0016	0.12 U	0.13 U
MTBE	1,000	0.11 U	0.3	0.0032	0.053 J	0.25
Styrene	---	0.11 U	0.45	0.0012	0.51	0.25
Tetrachloroethene	300	0.22	6.5	0.012	0.53	0.092 J
Toluene	1,000	0.034 J	0.34	0.038	0.42	0.68
trans-1,2-Dichloroethene	1,000	0.11 U	0.028 J	0.0011 U	0.12 U	0.13 U
trans-1,3-Dichloropropene	---	0.11 U	0.11 U	0.0011 U	0.12 U	0.13 U
Trichloroethene	400	0.032 J	0.97	0.0014	0.14	0.14
Trichlorofluoromethane	---	0.28	0.92	0.0011 U	1.3	0.3
Vinyl chloride	27	0.11 U	0.11 U	0.0016	0.12 U	0.13 U
Xylenes, Total	1,000	0.15 J	1.5	0.013	1.3	2.8
Total Confident Conc.	---	5.142	15.333	0.22987	6.962	8.449
Total Estimated Conc. (TICs)	---	0	0	0	0	0

NOTES
Sample analysis by Test America of Edison, NJ
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial

TABLE 4-2

SOIL ANALYTICAL RESULTS - VOCs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	WC-7-1	MC-01	MC-02	MC-03	MC-04
		WC-7-1	MC-01	MC-02	MC-03	MC-04
Date		7/20/2011	9/11/2012	9/11/2012	9/11/2012	9/11/2012
Volatile Organic Compounds (mg/kg) - Method 8260						
1,1,1-Trichloroethane	1,000	0.12 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
1,1,2,2-Tetrachloroethane	---	0.12 U	0.0013 U	0.0019 U	0.0013 U	0.0014 U
1,1,2-Trichloroethane	---	0.12 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
1,1-Dichloroethane	480	0.12 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
1,1-Dichloroethene	1,000	0.12 U	0.0052 U	0.0076 U	0.0053 U	0.0055 U
1,2,4-Trichlorobenzene	380	0.17	0.0026 U	0.0038 U	0.0026 U	0.0028 U
1,2-Dibromo-3-Chloropropane	---	0.12 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
1,2-Dibromoethane	---	0.12 U	0.0013 U	0.0019 U	0.0013 U	0.0014 U
1,2-Dichlorobenzene	1,000	0.12 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
1,2-Dichloroethane	60	0.12 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
1,2-Dichloropropane	---	0.12 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
1,3-Dichlorobenzene	560	0.12 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
1,4-Dichlorobenzene	250	0.056 J	0.0026 U	0.0038 U	0.0026 U	0.0028 U
2-Butanone	---	1.2 U	0.0052 U	0.0076 U	0.0053 U	0.0055 U
2-Hexanone	---	1.2 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
4-Methyl-2-pentanone	---	1.2 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
Acetone	1,000	1.2 U	0.0013 U	0.0019 U	0.0013 U	0.0014 U
Benzene	89	0.05 J	0.0026 U	0.0038 U	0.0026 U	0.0028 U
Bromodichloromethane	---	0.12 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
Bromoform	---	0.12 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
Bromomethane	---	0.12 U	0.0013 U	0.0019 U	0.0013 U	0.0014 U
Carbon disulfide	---	0.077 J	0.0077 U	0.011 U	0.0079 U	0.0083 U
Carbon tetrachloride	44	0.12 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
Chlorobenzene	1,000	0.12 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
Chloroethane	---	0.12 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
Chloroform	700	0.12 U	0.0052 U	0.0076 U	0.0053 U	0.0055 U
Chloromethane	---	0.12 U	0.0013 U	0.0019 U	0.0013 U	0.0014 U
cis-1,2-Dichloroethene	1,000	0.29	0.0026 U	0.0038 U	0.0026 U	0.0028 U
cis-1,3-Dichloropropene	---	0.12 U	0.0013 U	0.0019 U	0.0013 U	0.0014 U
Cyclohexane	---	0.12 U				
Dibromochloromethane	---	0.12 U	0.0013 U	0.0019 U	0.0013 U	0.0014 U
Dichlorodifluoromethane	---	0.12 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
Ethylbenzene	780	0.44	0.0026 U	0.0038 U	0.0026 U	0.0028 U
Freon TF	---	0.12 U	0.0013 U	0.0019 U	0.0013 U	0.0014 U
Isopropylbenzene	---	0.31	0.0026 U	0.0038 U	0.0026 U	0.0028 U
Methyl acetate	---	0.24 U				
Methylcyclohexane	---	0.13				
Methylene Chloride	1,000	0.12 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
MTBE	1,000	0.21	0.0052 U	0.0076 U	0.0053 U	0.0055 U
Styrene	---	0.095 J	0.0026 U	0.0038 U	0.0026 U	0.0028 U
Tetrachloroethene	300	0.5	0.026 U	0.0039	0.006	0.0028 U
Toluene	1,000	0.34	0.0026 U	0.0038 U	0.0026 U	0.0028 U
trans-1,2-Dichloroethene	1,000	0.12 U	0.0026 U	0.0038 U	0.0026 U	0.0028 U
trans-1,3-Dichloropropene	---	0.12 U	0.0013 U	0.0019 U	0.0013 U	0.0014 U
Trichloroethene	400	0.39	0.0026 U	0.0038 U	0.0026 U	0.0028 U
Trichlorofluoromethane	---	0.86	0.0013 U	0.0019 U	0.0013 U	0.0014 U
Vinyl chloride	27	0.12 U	0.0013 U	0.0019 U	0.0013 U	0.0014 U
Xylenes, Total	1,000	1.3				
Total Confident Conc.	---	5.218				
Total Estimated Conc. (TICs)	---	0				

NOTES
Sample analysis by Test America of Edison, NJ
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial

TABLE 4-2

SOIL ANALYTICAL RESULTS - VOCs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	MC-05	MC-06	MC-07	MC-08	MC-09
		MC-05	MC-06	MC-07	MC-08	MC-09
Date		9/11/2012	9/11/2012	9/11/2012	9/11/2012	9/11/2012
Volatile Organic Compounds (mg/kg) - Method 8260						
1,1,1-Trichloroethane	1,000	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
1,1,2,2-Tetrachloroethane	---	0.0016 U	0.0015 U	0.0018 U	0.0013 U	0.0013 U
1,1,2-Trichloroethane	---	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
1,1-Dichloroethane	480	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
1,1-Dichloroethene	1,000	0.0065 U	0.0059 U	0.0072 U	0.005 U	0.0054 U
1,2,4-Trichlorobenzene	380	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
1,2-Dibromo-3-Chloropropane	---	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
1,2-Dibromoethane	---	0.0016 U	0.0015 U	0.0018 U	0.0013 U	0.0013 U
1,2-Dichlorobenzene	1,000	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
1,2-Dichloroethane	60	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
1,2-Dichloropropane	---	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
1,3-Dichlorobenzene	560	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
1,4-Dichlorobenzene	250	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
2-Butanone	---	0.0065 U	0.0059 U	0.0072 U	0.005 U	0.0054 U
2-Hexanone	---	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
4-Methyl-2-pentanone	---	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
Acetone	1,000	0.0016 U	0.0015 U	0.0018 U	0.0013 U	0.0013 U
Benzene	89	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
Bromodichloromethane	---	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
Bromoform	---	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
Bromomethane	---	0.0016 U	0.0015 U	0.0018 U	0.0013 U	0.0013 U
Carbon disulfide	---	0.0097 U	0.0089 U	0.011 U	0.0076 U	0.0081 U
Carbon tetrachloride	44	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
Chlorobenzene	1,000	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
Chloroethane	---	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
Chloroform	700	0.0065 U	0.0059 U	0.0072 U	0.005 U	0.0054 U
Chloromethane	---	0.0016 U	0.0015 U	0.0018 U	0.0013 U	0.0013 U
cis-1,2-Dichloroethene	1,000	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
cis-1,3-Dichloropropene	---	0.0016 U	0.0015 U	0.0018 U	0.0013 U	0.0013 U
Cyclohexane	---					
Dibromochloromethane	---	0.0016 U	0.0015 U	0.0018 U	0.0013 U	0.0013 U
Dichlorodifluoromethane	---	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
Ethylbenzene	780	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
Freon TF	---	0.0016 U	0.0015 U	0.0018 U	0.0013 U	0.0013 U
Isopropylbenzene	---	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
Methyl acetate	---					
Methylcyclohexane	---					
Methylene Chloride	1,000	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
MTBE	1,000	0.0065 U	0.0059 U	0.0072 U	0.005 U	0.0054 U
Styrene	---	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
Tetrachloroethene	300	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
Toluene	1,000	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
trans-1,2-Dichloroethene	1,000	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
trans-1,3-Dichloropropene	---	0.0016 U	0.0015 U	0.0018 U	0.0013 U	0.0013 U
Trichloroethene	400	0.0032 U	0.003 U	0.0036 U	0.0025 U	0.0027 U
Trichlorofluoromethane	---	0.0016 U	0.0015 U	0.0018 U	0.0013 U	0.0013 U
Vinyl chloride	27	0.0016 U	0.0015 U	0.0018 U	0.0013 U	0.0013 U
Xylenes, Total	1,000					
Total Confident Conc.	---					
Total Estimated Conc. (TICs)	---					

NOTES
Sample analysis by Test America of Edison, NJ
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial

TABLE 4-2

SOIL ANALYTICAL RESULTS - SVOCs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	WC-2-1	WC-2-2	WC-4-1	WC-5-1	WC-6-1	WC-7-1
		WC-2-1	WC-2-2	WC-4-1	WC-5-1	WC-6-1	WC-7-1
Date		7/19/2011	7/19/2011	7/19/2011	7/20/2011	7/20/2011	7/20/2011
Semivolatile Organic Compounds (mg/kg) - Method 8270							
2,4,5-Trichlorophenol	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
2,4,6-Trichlorophenol	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
2,4-Dichlorophenol	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
2,4-Dimethylphenol	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
2,4-Dinitrophenol	---	2.4 U	5.8 U	2.3 U	6 U	2.5 U	6.2 U
2,4-Dinitrotoluene	---	0.16 U	0.39 U	0.15 U	0.4 U	0.17 U	0.41 U
2,6-Dinitrotoluene	---	0.16 U	0.39 U	0.15 U	0.4 U	0.17 U	0.41 U
2-Chloronaphthalene	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
2-Chlorophenol	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
2-Methylnaphthalene	---	0.24 J	0.89 J	0.82	1 J	1.6	0.38 J
2-Methylphenol	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
2-Nitroaniline	---	1.6 U	3.9 U	1.5 U	4 U	1.7 U	4.1 U
2-Nitrophenol	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
3,3-Dichlorobenzidine	---	1.6 U	3.9 U	1.5 U	4 U	1.7 U	4.1 U
3-Nitroaniline	---	1.6 U	3.9 U	1.5 U	4 U	1.7 U	4.1 U
4,6-Dinitro-2-methylphenol	---	2.4 U	5.8 U	2.3 U	6 U	2.5 U	6.2 U
4-Bromophenyl phenyl ether	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
4-Chloro-3-methylphenol	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
4-Chloroaniline	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
4-Chlorophenyl phenyl ether	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
4-Methylphenol	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
4-Nitroaniline	---	1.6 U	3.9 U	1.5 U	4 U	1.7 U	4.1 U
4-Nitrophenol	---	2.4 U	5.8 U	2.3 U	6 U	2.5 U	6.2 U
Acenaphthene	1,000	0.51 J	0.81 J	1.4	1.8 J	1.4	0.72 J
Acenaphthylene	1,000	0.78 U	0.38 J	0.3 J	0.31 J	0.62 J	0.58 J
Acetophenone	---	0.78 U	1.9 U	0.13 J	2 U	0.13 J	2 U
Anthracene	1,000	1	2.4	3	3.8	3.4	2.7
Atrazine	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
Benzaldehyde	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
Benzo[a]anthracene	11	2.3	4.9	6.3	7.2	6.7	8.2
Benzo[a]pyrene	1.1	**2.5**	**4.5**	**5.8**	**6.9**	**5.3**	**6.9**
Benzo[b]fluoranthene	11	2.8	4.9	6.7	7.6	6.3	8.6
Benzo[g,h,i]perylene	1,000	1.5	1.5 J	3.3	2.2	2.5	2.4
Benzo[k]fluoranthene	110	0.86	2	2.3	3.1	2	3.6
bis (2-chloroisopropyl) ether	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
Bis(2-chloroethoxy)methane	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
Bis(2-chloroethyl)ether	---	0.078 U	0.19 U	0.075 U	0.2 U	0.082 U	0.2 U
Bis(2-ethylhexyl) phthalate	---	17	21	9.7	20	17	10
Butyl benzyl phthalate	---	0.92	1.1 J	2	2.1	2	2.3
Caprolactam	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
Carbazole	---	0.63 J	1.3 J	1.1	2	1.8	0.78 J
Chrysene	110	2.5	5	6.5	7.2	6.7	8.1
Dibenz(a,h)anthracene	1.1	0.36	0.43	0.96	0.62	0.77	0.64
Dibenzofuran	---	0.48 J	0.63 J	0.94	1.2 J	0.82 U	0.47 J
Diethyl phthalate	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
Dimethyl phthalate	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
Di-n-butyl phthalate	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
Di-n-octyl phthalate	---	0.78 U	1.9 U	1.6	2 U	0.82 U	2 U
Diphenyl	---	0.78 U	1.9 U	0.26 J	2 U	0.44 J	2 U
Fluoranthene	1,000	4.3	8.8	13	13	15	21
Fluorene	1,000	0.92	1.7 J	1.9	2.3	2.7	1 J
Hexachlorobenzene	---	0.078 U	0.19 U	0.075 U	0.2 U	0.082 U	0.2 U
Hexachlorobutadiene	---	0.16 U	0.39 U	0.15 U	0.4 U	0.17 U	0.41 U
Hexachlorocyclopentadiene	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
Hexachloroethane	---	0.078 U	0.19 U	0.075 U	0.2 U	0.082 U	0.2 U
Indeno[1,2,3-cd]pyrene	11	1.7	1.9	3.7	2.9	2.9	3.1
Isophorone	---	0.47 J	1.9 U	0.75 U	2 U	0.82 U	2 U
Naphthalene	1,000	0.39 J	0.68 J	0.79	1.5 J	1	0.46 J
Nitrobenzene	---	0.078 U	0.19 U	0.075 U	0.2 U	0.082 U	0.2 U
N-Nitrosodi-n-propylamine	---	0.078 U	0.19 U	0.075 U	0.2 U	0.082 U	0.2 U
N-Nitrosodiphenylamine	---	0.78 U	1.9 U	0.75 U	2 U	0.82 U	2 U
Pentachlorophenol	55	2.4 U	5.8 U	2.3 U	6 U	2.5 U	6.2 U
Phenanthrene	1,000	4.1	9	11	14	14	8.5
Phenol	1,000	0.78 U	1.9 U	0.097 J	2 U	0.82 U	2 U
Pyrene	1,000	5.4	10	13	11	13	14
Total Confident Conc.	---	50.88	83.82	96.597	111.73	107.26	104.43
Total Estimated Conc. (TICs)	---	0	0	0	0	0	0

NOTES
Sample analysis by Test America of Edison, NJ
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial

TABLE 4-2

SOIL ANALYTICAL RESULTS - SVOCs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	D5-N2-2	D5-WC	MC-01	MC-02	MC-03	MC-04
		D5-N2-2	D5-WC	MC-01	MC-02	MC-03	MC-04
Date		5/27/2012	6/6/2012	9/11/2012	9/11/2012	9/11/2012	9/11/2012
Semivolatile Organic Compounds (mg/kg) - Method 8270							
2,4,5-Trichlorophenol	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
2,4,6-Trichlorophenol	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
2,4-Dichlorophenol	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
2,4-Dimethylphenol	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
2,4-Dinitrophenol	---	13 U	6.5 U	6.5 U	9.2 U	8.1 U	6.5 U
2,4-Dinitrotoluene	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
2,6-Dinitrotoluene	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
2-Chloronaphthalene	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
2-Chlorophenol	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
2-Methylnaphthalene	---	8.1	4.3	1.7 U	2.4 U	2.1 U	1.7 U
2-Methylphenol	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
2-Nitroaniline	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
2-Nitrophenol	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
3,3-Dichlorobenzidine	---	3.3 U	1.7 U	1.7 U	2.4 U	2.1 U	1.7 U
3-Nitroaniline	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
4,6-Dinitro-2-methylphenol	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
4-Bromophenyl phenyl ether	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
4-Chloro-3-methylphenol	---	13 U	6.5 U	6.5 U	9.2 U	8.1 U	6.5 U
4-Chloroaniline	---	13 U	6.5 U	6.5 U	9.2 U	8.1 U	6.5 U
4-Chlorophenyl phenyl ether	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
4-Methylphenol	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
4-Nitroaniline	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
4-Nitrophenol	---	6.6 U	6.5 U	6.5 U	9.2 U	8.1 U	6.5 U
Acenaphthene	1,000	3.7	1.8	1.7 U	2.4 U	2.1 U	1.7 U
Acenaphthylene	1,000	3.3 U	1.7 U	1.7 U	2.4 U	2.1 U	1.7 U
Acetophenone	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
Anthracene	1,000	9.5	4.6	2.2	2.4 U	2.1 U	1.9
Atrazine	---	NR	NR	NR	NR	NR	NR
Benzaldehyde	---	NR	NR	NR	NR	NR	NR
Benzo[a]anthracene	11	**18**	7.3	7.2	2.4	2.1 U	7.2
Benzo[a]pyrene	1.1	**9.7**	**4.2**	6.7	2.4	2.1 U	7
Benzo[b]fluoranthene	11	**13**	7.5	7.3	4	2.4	9.8
Benzo[g,h,i]perylene	1,000	3.3 U	1.7 U	3.7	2.4 U	2.1 U	3.2
Benzo[k]fluoranthene	110	5.1	2.5	2.7	2.4 U	2.1 U	3.7
bis (2-chloroisopropyl) ether	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
Bis(2-chloroethoxy)methane	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
Bis(2-chloroethyl)ether	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
Bis(2-ethylhexyl) phthalate	---	11	14	9.3	4.7 U	33	18
Butyl benzyl phthalate	---	13 U	6.5 U	6.5 U	9.2 U	8.1 U	33
Caprolactam	---	NR	NR	NR	NR	NR	NR
Carbazole	---	3.6	1.7 U	1.7 U	2.4 U	2.1 U	1.7 U
Chrysene	110	18	7.3	7.4	2.7	2.1 U	7.4
Dibenz(a,h)anthracene	1.1	3.3 U	1.7 U	1.7 U	2.4 U	2.1 U	1.7 U
Dibenzofuran	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
Diethyl phthalate	---	13 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
Dimethyl phthalate	---	6.6 U	6.5 U	6.5 U	9.2 U	8.1 U	6.5 U
Di-n-butyl phthalate	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
Di-n-octyl phthalate	---	13 U	6.5 U	6.5 U	9.2 U	8.1 U	6.5 U
Diphenyl	---	NR	NR	NR	NR	NR	NR
Fluoranthene	1,000	39	18	9.10	3.3	2.1	10
Fluorene	1,000	8.6	4.4	1.7 U	2.4 U	2.1 U	1.7 U
Hexachlorobenzene	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
Hexachlorobutadiene	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
Hexachlorocyclopentadiene	---	13 U	6.5 U	6.5 U	9.2 U	8.1 U	6.5 U
Hexachloroethane	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
Indeno[1,2,3-cd]pyrene	11	3.3 U	2.1				
Isophorone	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
Naphthalene	1,000	3.3 U	4.2	1.7 U	2.4 U	2.1 U	1.7 U
Nitrobenzene	---	6.6 U	3.3 U	3.4 U	4.7 U	4.2 U	3.4 U
N-Nitrosodi-n-propylamine	---	6.6 U	3.3 U				
N-Nitrosodiphenylamine	---	6.6 U	3.3 U				
Pentachlorophenol	55	6.6 U	3.3 U				
Phenanthrene	1,000	41	23				
Phenol	1,000	6.6 U	3.3 U				
Pyrene	1,000	29	11				
Total Confident Conc.	---	217.3	116.2				
Total Estimated Conc. (TICs)	---	0	0				

NOTES
Sample analysis by Test America of Edison, NJ
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial

TABLE 4-2

SOIL ANALYTICAL RESULTS - SVOCs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	MC-05	MC-06	MC-07	MC-08	MC-09
		MC-05	MC-06	MC-07	MC-08	MC-09
Date		9/11/2012	9/11/2012	9/11/2012	9/11/2012	9/11/2012
Semivolatile Organic Compounds (mg/kg) - Method 8270						
2,4,5-Trichlorophenol	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
2,4,6-Trichlorophenol	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
2,4-Dichlorophenol	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
2,4-Dimethylphenol	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
2,4-Dinitrophenol	---	8.9 U	8.4 U	9.3 U	4.4 U	17 U
2,4-Dinitrotoluene	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
2,6-Dinitrotoluene	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
2-Chloronaphthalene	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
2-Chlorophenol	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
2-Methylnaphthalene	---	2.3 U	2.2 U	2.4 U	1.1 U	4.3 U
2-Methylphenol	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
2-Nitroaniline	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
2-Nitrophenol	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
3,3-Dichlorobenzidine	---	2.3 U	2.2 U	2.4 U	1.1 U	4.3 U
3-Nitroaniline	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
4,6-Dinitro-2-methylphenol	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
4-Bromophenyl phenyl ether	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
4-Chloro-3-methylphenol	---	8.9 U	8.4 U	9.3 U	4.4 U	17 U
4-Chloroaniline	---	8.9 U	8.4 U	9.3 U	4.4 U	17 U
4-Chlorophenyl phenyl ether	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
4-Methylphenol	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
4-Nitroaniline	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
4-Nitrophenol	---	8.9 U	8.4 U	9.3 U	4.4 U	17 U
Acenaphthene	1,000	2.3 U	2.2 U	2.4 U	1.1 U	4.3 U
Acenaphthylene	1,000	2.3 U	2.2 U	2.4 U	1.1 U	4.3 U
Acetophenone	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
Anthracene	1,000	2.3 U	2.2 U	2.4 U	1.1 U	4.3 U
Atrazine	---	NR	NR	NR	NR	NR
Benzaldehyde	---	NR	NR	NR	NR	NR
Benzo[a]anthracene	11	3.4	4	4.6	3.2	4.3 U
Benzo[a]pyrene	1.1	3.9	4.2	5.1	3.1	4.3 U
Benzo[b]fluoranthene	11	5.3	7.4	7.5	4.8	6.2
Benzo[g,h,i]perylene	1,000	2.5	2.5	2.7	1.5	4.3 U
Benzo[k]fluoranthene	110	2.3 U	2.7	2.7	1.8	4.3 U
bis (2-chloroisopropyl) ether	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
Bis(2-chloroethoxy)methane	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
Bis(2-chloroethyl)ether	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
Bis(2-ethylhexyl) phthalate	---	42	33	43	15	37
Butyl benzyl phthalate	---	8.9 U	8.4 U	15	13	31
Caprolactam	---	NR	NR	NR	NR	NR
Carbazole	---	2.3 U	2.2 U	2.4 U	1.1 U	4.3 U
Chrysene	110	3.6	4.4	4.6	3	4.3 U
Dibenz(a,h)anthracene	1.1	2.3 U	2.2 U	2.4 U	1.1 U	4.3 U
Dibenzofuran	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
Diethyl phthalate	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
Dimethyl phthalate	---	8.9 U	8.4 U	9.3 U	4.4 U	17 U
Di-n-butyl phthalate	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
Di-n-octyl phthalate	---	8.9 U	8.4 U	9.3 U	4.4 U	17 U
Diphenyl	---	NR	NR	NR	NR	NR
Fluoranthene	1,000	3.8	5	6	5.4	6.6
Fluorene	1,000	2.3 U	2.2 U	2.4 U	1.1 U	4.3 U
Hexachlorobenzene	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
Hexachlorobutadiene	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
Hexachlorocyclopentadiene	---	8.9 U	8.4 U	9.3 U	4.4 U	17 U
Hexachloroethane	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
Indeno[1,2,3-cd]pyrene	11					
Isophorone	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
Naphthalene	1,000	2.3 U	2.2 U	2.4 U	1.1 U	4.3 U
Nitrobenzene	---	4.6 U	4.3 U	4.8 U	2.3 U	8.5 U
N-Nitrosodi-n-propylamine	---					
N-Nitrosodiphenylamine	---					
Pentachlorophenol	55					
Phenanthrene	1,000					
Phenol	1,000					
Pyrene	1,000					
Total Confident Conc.	---					
Total Estimated Conc. (TICs)	---					

NOTES
Sample analysis by Test America of Edison, NJ
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial

TABLE 4-2

SOIL ANALYTICAL RESULTS - TAL METALS
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	WC-4-1	WC-6-1	WC-7-1		
		WC-4-1	WC-6-1	WC-7-1		
Date		7/18/2011	7/20/2011	7/20/2011		
Total Metals (mg/kg) - Method 6010B						
Arsenic	16	**19.6**	**39**	**30.9**		
Barium	10,000	651	1580	2080		
Cadmium	60	18.4	34.3	31.6		
Chromium	6,800	159	651	914		
Copper	10,000	2430	2060	6070		
Lead	3,900	3360	**12300**	**7070**		
Mercury	5.7	0.51	**13**	1.7		
Nickel	10,000	154	349	408		
Selenium	6,800	6.1	7.4 J	12.2		
Silver	6,800	2.9 J	6.4 J	4.7 J		
Zinc	10,000	4560	**12100**	**14000**		

NOTES
Sample analysis by Test America of Edison, NJ
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
NS - No standard available
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the RCRA/NYSDEC Hazardous Waste Regulatory Levels

TABLE 4-2

SOIL ANALYTICAL RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	WC-1-1	WC-1-2	WC-1-3	WC-1-4	WC-1-5	WC-1-6
		WC-1-1	WC-1-2	WC-1-3	WC-1-4	WC-1-5	WC-1-6
Date		7/18/2011	7/18/2011	7/18/2011	7/18/2011	7/18/2011	7/18/2011
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.087 U	0.08 U	0.078 U	0.078 U	0.079 U	0.078 U
Aroclor 1221	25*	0.087 U	0.08 U	0.078 U	0.078 U	0.079 U	0.078 U
Aroclor 1232	25*	0.087 U	0.08 U	0.078 U	0.078 U	0.079 U	0.078 U
Aroclor 1242	25*	0.087 U	0.08 U	0.078 U	0.078 U	0.079 U	0.078 U
Aroclor 1248	25*	0.087 U	0.08 U	0.078 U	0.078 U	0.079 U	0.078 U
Aroclor 1254	25*	0.087 U	1.5	1.4	0.91	1.4	1.4
Aroclor 1260	25*	0.57	0.08 U	0.078 U	0.078 U	0.079 U	0.078 U
Aroclor 1262	25*	0.087 U	0.87	0.66	0.51	0.9	0.99
Aroclor 1268	25*	0.087 U	0.08 U	0.078 U	0.078 U	0.079 U	0.078 U
Total Arochlors	25*	0.57	2.37	2.06	1.42	2.3	2.39

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	WC-2-1	WC-2-2	WC-3-1	WC-4-1	WC-5-1	WC-6-1
		WC-2-1	WC-2-2	WC-3-1	WC-4-1	WC-5-1	WC-6-1
Date		7/19/2011	7/19/2011	7/19/2011	7/18/2011	7/20/2011	7/20/2011
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	1.6 U	1.9 U	2 U	0.76 U	1.6 U	4.2 U
Aroclor 1221	25*	1.6 U	1.9 U	2 U	0.76 U	1.6 U	4.2 U
Aroclor 1232	25*	1.6 U	1.9 U	2 U	0.76 U	1.6 U	4.2 U
Aroclor 1242	25*	1.6 U	**33**	**35**	11	**29**	**74**
Aroclor 1248	25*	**28**	1.9 U	2 U	0.76 U	1.6 U	4.2 U
Aroclor 1254	25*	21	21	20	9	16	**47**
Aroclor 1260	25*	9.3	6.1	7	4.6	5.7	4.2 U
Aroclor 1262	25*	1.6 U	1.9 U	2 U	0.76 U	1.6 U	16
Aroclor 1268	25*	1.6 U	1.9 U	2 U	0.76 U	1.6 U	4.2 U
Total Arochlors	25*	**58.3**	**60.1**	**62.0**	24.6	**50.7**	**137.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	WC-7-1	WC-105	WC-106	WC-107	WC-108	WC-109
		WC-7-1	WC-105	WC-106	WC-107	WC-108	WC-109
Date		7/20/2011	9/29/2011	9/29/2011	9/29/2011	9/29/2011	9/29/2011
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.1 U	0.77 U	2.1 U	7.8 U	0.081 U	0.09 U
Aroclor 1221	25*	4.1 U	0.77 U	2.1 U	7.8 U	0.081 U	0.09 U
Aroclor 1232	25*	4.1 U	0.77 U	2.1 U	7.8 U	0.081 U	0.09 U
Aroclor 1242	25*	4.1 U	0.77 U	2.1 U	7.8 U	1.4	0.58
Aroclor 1248	25*	**84**	0.77 U	**35**	**99**	0.081 U	0.09 U
Aroclor 1254	25*	**45**	9.4	**42**	**160**	0.8	0.09 U
Aroclor 1260	25*	17	5.1	2.1 U	7.8 U	0.2	0.45
Aroclor 1262	25*	4.1 U	0.77 U	2.1 U	7.8 U	0.081 U	0.09 U
Aroclor 1268	25*	4.1 U	0.77 U	2.1 U	7.8 U	0.081 U	0.09 U
Total Arochlors	25*	**146.0**	14.5	**77.0**	**259.0**	2.4	1.03

NOTES
Sample analysis by Test America of Edison, NJ
* Standard applies to total arochlors
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial

TABLE 4-2

SOIL ANALYTICAL RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	WC-110	WC-111	WC-112	WC-120	WC-121	WC-200
		WC-110	WC-111	WC-112	WC-120	WC-121	WC-200
Date		9/29/2011	9/29/2011	9/29/2011	3/23/2012	3/23/2012	3/30/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.77 U	0.082 U	4.1 U	0.077 U	0.074 U	0.08 U
Aroclor 1221	25*	0.77 U	0.082 U	4.1 U	0.077 U	0.074 U	0.13 U
Aroclor 1232	25*	0.77 U	0.082 U	4.1 U	0.077 U	0.074 U	0.24 U
Aroclor 1242	25*	3.4	0.51	4.1 U	0.077 U	0.074 U	0.079 U
Aroclor 1248	25*	0.77 U	0.082 U	**90**	0.077 U	0.074 U	0.11 U
Aroclor 1254	25*	3.8	0.41	**42**	0.077 U	0.074 U	3.5
Aroclor 1260	25*	0.77 U	0.32	4.1 U	0.077 U	0.074 U	0.047 U
Aroclor 1262	25*	2	0.082 U	4.1 U	0.077 U	0.074 U	0.072 U
Aroclor 1268	25*	0.77 U	0.082 U	4.1 U	0.077 U	0.074 U	0.072 U
Total Arochlors	25*	9.2	1.24	**132.0**	U	U	3.5

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	WC-202	WC-204	WC-206	WC-208	WC-210	WC-212
		WC-202	WC-204	WC-206	WC-208	WC-210	WC-212
Date		3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.016 U	0.16 U	0.17 U	0.21 U	1.7 U	0.087 U
Aroclor 1221	25*	0.025 U	0.25 U	0.27 U	0.33 U	2.6 U	0.14 U
Aroclor 1232	25*	0.046 U	0.47 U	0.51 U	0.61 U	4.9 U	0.26 U
Aroclor 1242	25*	0.015 U	0.16 U	0.17 U	0.21 U	1.6 U	0.086 U
Aroclor 1248	25*	0.022 U	13	13	14	**110**	9.6
Aroclor 1254	25*	1.4	0.28 U	0.31 U	0.37 U	3.0 U	0.16 U
Aroclor 1260	25*	0.091 U	0.093 U	0.10 U	0.12 U	0.97 U	0.051 U
Aroclor 1262	25*	0.014 U	0.14 U	0.16 U	0.19 U	1.5 U	0.078 U
Aroclor 1268	25*	0.014 U	0.14 U	0.16 U	0.19 U	1.5 U	0.078 U
Total Arochlors	25*	1.4	13.0	13.0	14.0	**110**	9.6

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	WC-214	WC-216	D2C-SSW	E4B-NSW	H3D-NSW	H3D-WSW
		WC-214	WC-216	D2C-SSW	E4B-NSW	H3D-NSW	H3D-WSW
Date		3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.83 U	0.78 U	0.77 U	0.15 U	0.81 U	0.93 U
Aroclor 1221	25*	1.3 U	1.2 U	1.2 U	0.24 U	1.3 U	1.5 U
Aroclor 1232	25*	2.5 U	2.3 U	2.3 U	0.45 U	2.4 U	2.8 U
Aroclor 1242	25*	0.83 U	0.77 U	0.76 U	0.15 U	0.81 U	0.92 U
Aroclor 1248	25*	**79**	**32**	**44**	9.9	**56**	**84**
Aroclor 1254	25*	1.5 U	1.4 U	1.4 U	0.27 U	1.5 U	1.7 U
Aroclor 1260	25*	0.49 U	0.49 U	0.45 U	0.09 U	0.48 U	0.54 U
Aroclor 1262	25*	0.75 U	0.70 U	0.69 U	0.14 U	0.73 U	0.83 U
Aroclor 1268	25*	0.75 U	0.70 U	0.69 U	0.14 U	0.73 U	0.83 U
Total Arochlors	25*	**79.0**	**32.0**	**44.0**	9.9	**56.0**	**84.0**

NOTES
Sample analysis by Test America of Edison, NJ
* Standard applies to total arochlors
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for Protection of Public Health-Industrial

TABLE 4-2

SOIL ANALYTICAL RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H3D-WSW-1	H4D-WSW	H4D-WSW-1	H4D-WSW-2	WC-I3	D3-NSW-1
		H3D-WSW-1	H4D-WSW	H4D-WSW-1	H4D-WSW-2	WC-I3	D3-NSW-1
Date		4/10/2012	4/10/2012	4/16/2012	4/19/2012	3/14/2012	5/11/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	1.7 U	1.6 U	1.6 U	0.4 U	10 U	0.17 U
Aroclor 1221	25*	2.7 U	2.6 U	2.5 U	0.64 U	10 U	0.28 U
Aroclor 1232	25*	5.1 U	4.8 U	4.6 U	1.2 U	10 U	0.52 U
Aroclor 1242	25*	**36**	**63**	1.5 U	0.4 U	10 U	0.17 U
Aroclor 1248	25*	2.4 U	2.3 U	**100**	15	**81**	**13**
Aroclor 1254	25*	**23**	**27**	2.8 U	0.72 U	**53**	0.31 U
Aroclor 1260	25*	1.0 U	0.95 U	0.91 U	1.5 J	10 U	8.3
Aroclor 1262	25*	1.6 U	1.5 U	1.4 U	0.36 U	10 U	0.16 U
Aroclor 1268	25*	1.6 U	1.5 U	1.4 U	0.36 U	10 U	0.16 U
Total Arochlors	25*	**59.0**	**100.0**	**100.0**	16.5 J	**134.0**	**21.3**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	D3-NSW-2	D3-NSW-3	D3-NSW-4	E1A-WC-E1	E1A-WC-E2	E1A-WC-E3
		D3-NSW-2	D3-NSW-3	D3-NSW-4	E1A-WC-E1	E1A-WC-E2	E1A-WC-E3
Date		5/11/2012	5/11/2012	5/11/2012	6/28/2012	6/28/2012	6/28/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.082 U	0.095 U	0.016 U	0.033 U	0.016 U	0.032 U
Aroclor 1221	25*	0.13 U	0.15 U	0.025 U	0.053 U	0.025 U	0.051 U
Aroclor 1232	25*	0.24 U	0.28 U	0.048 U	0.099 U	0.048 U	0.096 U
Aroclor 1242	25*	0.082 U	0.094 U	0.016 U	0.033 U	0.016 U	0.032 U
Aroclor 1248	25*	5.1	6.6	1.5	2.7	1.1	2.5
Aroclor 1254	25*	0.15 U	0.17 U	0.029 U	2.1	0.7	2.5
Aroclor 1260	25*	2.4	2.7	0.67	0.020 U	0.0094 U	0.019 U
Aroclor 1262	25*	0.074 U	0.085 U	0.014 U	0.03 U	0.014 U	0.029 U
Aroclor 1268	25*	0.074 U	0.085 U	0.014 U	0.03 U	0.014 U	0.029 U
Total Arochlors	25*	7.5	10.3	2.17	4.80	1.80	5.0

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E1A-WC-E4	E1A-WC-E5	E1A-WC-E6	E1D-WC-E1	E1D-WC-E2	E1D-WC-E3
		E1A-WC-E4	E1A-WC-E5	E1A-WC-E6	E1D-WC-E1	E1D-WC-E2	E1D-WC-E3
Date		6/28/2012	6/28/2012	6/28/2012	6/28/2012	6/28/2012	6/28/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.036 U	0.076 U	0.078 U	0.15 U	0.15 U	0.15 U
Aroclor 1221	25*	0.057 U	0.12 U	0.12 U	0.23 U	0.24 U	0.23 U
Aroclor 1232	25*	0.11 U	0.22 U	0.23 U	0.44 U	0.46 U	0.44 U
Aroclor 1242	25*	0.036 U	0.075 U	0.078 U	0.15 U	0.15 U	0.15 U
Aroclor 1248	25*	3.5	5.1	7.1	9	7.5	12
Aroclor 1254	25*	3.7	3.2	4.7	3.5	3.6	3.5
Aroclor 1260	25*	0.021 U	0.044 U	0.046 U	0.087 U	0.09 U	0.09 U
Aroclor 1262	25*	0.032 U	0.068 U	0.071 U	0.13 U	0.14 U	0.14 U
Aroclor 1268	25*	0.032 U	0.068 U	0.071 U	0.13 U	0.14 U	0.14 U
Total Arochlors	25*	7.20	8.30	11.80	12.50	11.10	7.20

NOTES
Sample analysis by Test America of Edison, NJ
* Standard applies to total arochlors
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for Protection of Public Health-Industrial

TABLE 4-2

SOIL ANALYTICAL RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E1D-WC-E4	E1D-WC-E5	E1D-WC-E6	E1D-WC-S1	E1D-WC-S2	E1D-WC-S3
		E1D-WC-E4	E1D-WC-E5	E1D-WC-E6	E1D-WC-S1	E1D-WC-S2	E1D-WC-S3
Date		6/28/2012	6/28/2012	6/28/2012	6/28/2012	6/28/2012	6/28/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.31 U	0.076 U	0.16 U	0.082 U	0.08 U	0.033 U
Aroclor 1221	25*	0.49 U	0.12 U	0.26 U	0.13 U	0.13 U	0.052 U
Aroclor 1232	25*	0.92 U	0.23 U	0.48 U	0.24 U	0.24 U	0.097 U
Aroclor 1242	25*	0.31 U	0.076 U	0.16 U	0.082 U	0.079 U	0.032 U
Aroclor 1248	25*	18	5.9	11	6.5	3.7	0.91
Aroclor 1254	25*	4.6	2.3	6.2	6.4	5.4	0.79
Aroclor 1260	25*	0.18 U	0.045 U	0.095 U	0.048 U	0.046 U	0.019 U
Aroclor 1262	25*	0.28 U	0.069 U	0.15 U	0.07 U	0.07 U	0.03 U
Aroclor 1268	25*	0.28 U	0.069 U	0.15 U	0.07 U	0.07 U	0.03 U
Total Arochlors	25*	**22.60**	8.20	17.20	12.90	9.10	1.70

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E1D-WC-S4	E1D-WC-S5	E1D-WC-S6	E3A-WC-E1	E3A-WC-E2	E3A-WC-E3
		E1D-WC-S4	E1D-WC-S5	E1D-WC-S6	E3A-WC-E1	E3A-WC-E2	E3A-WC-E3
Date		6/28/2012	6/28/2012	6/28/2012	6/28/2012	6/28/2012	6/28/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.15 U	0.077 U	0.16 U	0.16 U	0.031 U	0.077 U
Aroclor 1221	25*	0.24 U	0.12 U	0.25 U	0.25 U	0.049 U	0.12 U
Aroclor 1232	25*	0.45 U	0.23 U	0.47 U	0.47 U	0.092 U	0.23 U
Aroclor 1242	25*	0.15 U	0.077 U	0.16 U	0.16 U	0.031 U	0.076 U
Aroclor 1248	25*	7.1	2.5	5.8	7.7	1.8	6.5
Aroclor 1254	25*	0.27	1.7	3.6	4.5	1.5	2.4
Aroclor 1260	25*	0.09 U	0.045 U	0.092 U	0.093 U	0.018 U	0.045 U
Aroclor 1262	25*	0.14 U	0.069 U	0.14 U	0.14 U	0.028 U	0.069 U
Aroclor 1268	25*	0.14 U	0.069 U	0.14 U	0.14 U	0.028 U	0.069 U
Total Arochlors	25*	7.37	4.20	9.40	12.20	3.30	8.90

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E3A-WC-E4	E3A-WC-E5	E3A-WC-E6	E3A-WC-E7	E3A-WC-W1	E3A-WC-W2
		E3A-WC-E4	E3A-WC-E5	E3A-WC-E6	E3A-WC-E7	E3A-WC-W1	E3A-WC-W2
Date		6/28/2012	6/28/2012	6/28/2012	6/28/2012	6/28/2012	6/28/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.16 U	0.079 U	0.16 U	0.71 U	0.16 U	0.077 U
Aroclor 1221	25*	0.25 U	0.12 U	0.26 U	1.1 U	0.25 U	0.12 U
Aroclor 1232	25*	0.47 U	0.23 U	0.49 U	2.1 U	0.46 U	0.23 U
Aroclor 1242	25*	0.16 U	0.078 U	0.16 U	0.7 U	0.16 U	0.076 U
Aroclor 1248	25*	**33** E	3.8	**51**	**45**	13	5.1
Aroclor 1254	25*	12	2.1	19	12	8.3	0.14
Aroclor 1260	25*	0.093 U	0.046 U	0.096 U	0.420 U	0.091 U	0.045 U
Aroclor 1262	25*	0.14 U	0.071 U	0.15 U	0.64 U	0.14 U	0.069 U
Aroclor 1268	25*	0.14 U	0.071 U	0.15 U	0.64 U	0.14 U	0.069 U
Total Arochlors	25*	**45.0**	5.90	**70.0**	**57.0**	**21.3**	5.24

NOTES
Sample analysis by Test America of Edison, NJ
* Standard applies to total arochlors
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for Protection of Public Health-Industrial

TABLE 4-2

SOIL ANALYTICAL RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E3A-WC-W3	E3A-WC-W4	E3A-WC-W5	E3A-WC-W6	E3-WC-N1	E3-WC-1S
		E3A-WC-W3	E3A-WC-W4	E3A-WC-W5	E3A-WC-W6	E3A-WC-N1	E3-WC-1S
Date		6/28/2012	6/28/2012	6/28/2012	6/28/2012	8/14/2012	8/14/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.15 U	0.079 U	0.16 U	0.76 U	0.15 U	0.075 U
Aroclor 1221	25*	0.24 U	0.12 U	0.25 U	1.2 U	0.24 U	0.12 U
Aroclor 1232	25*	0.46 U	0.23 U	0.47 U	2.2 U	0.44 U	0.22 U
Aroclor 1242	25*	0.15 U	0.078 U	0.16 U	0.75 U	0.15 U	0.075 U
Aroclor 1248	25*	7.6	4.9	9.6	**42**	6.7	5.2
Aroclor 1254	25*	5.1	2.9	0.28	12	8.5	4.4
Aroclor 1260	25*	0.090 U	0.046 U	0.093 U	0.440 U	0.087 U	0.044 U
Aroclor 1262	25*	0.14 U	0.071 U	0.14 U	0.680 U	0.13 U	0.068 U
Aroclor 1268	25*	0.14 U	0.071 U	0.14 U	0.680 U	0.13 U	0.068 U
Total Arochlors	25*	12.7	7.80	9.88	**54.0**	15.20	9.60

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E3-WC-N3-Full	WC-300
		E3-WC-N3-Full	WC-300
Date		8/14/2012	6/12/2012
PCBs (mg/kg) - Method 8082			
Aroclor 1016	25*	0.08 U	0.16 U
Aroclor 1221	25*	0.13 U	0.25 U
Aroclor 1232	25*	0.24 U	0.47 U
Aroclor 1242	25*	0.079 U	0.16 U
Aroclor 1248	25*	4.0	16
Aroclor 1254	25*	0.14 U	0.28 U
Aroclor 1260	25*	0.046 U	0.092 U
Aroclor 1262	25*	0.071 U	0.140 U
Aroclor 1268	25*	0.071 U	0.140 U
Total Arochlors	25*	4.0	16.0

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial
Date	
PCBs (mg/kg) - Method 8082	
Aroclor 1016	25*
Aroclor 1221	25*
Aroclor 1232	25*
Aroclor 1242	25*
Aroclor 1248	25*
Aroclor 1254	25*
Aroclor 1260	25*
Aroclor 1262	25*
Aroclor 1268	25*
Total Arochlors	25*

NOTES
Sample analysis by Test America of Edison, NJ
* Standard applies to total arochlors
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for Protection of Public Health-Industrial

TABLE 4-2

SOIL ANALYTICAL RESULTS - TCLP VOCs
RCRA Hazardous Wasste Regulatory Levels

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	RCRA Hazardous Waste Regulatory Level	WC-1-1	WC-1-2	WC-1-3	WC-1-4	WC-1-5	WC-1-6
		WC-1-1	WC-1-2	WC-1-3	WC-1-4	WC-1-5	WC-1-6
Date		7/18/2011	7/18/2011	7/18/2011	7/18/2011	7/18/2011	7/18/2011
TCLP Volatile Compounds (mg/L) - Method 8260B							
1,1-Dichloroethene	0.7	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,2-Dichloroethane	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,4-Dichlorobenzene	7.4	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Butanone	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzene	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Carbon tetrachloride	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chlorobenzene	100.0	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chloroform	6.0	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Tetrachloroethene	0.7	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Trichloroethene	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vinyl chloride	0.2	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Total TCLP VOCs		U	U	U	U	U	U

Compound	RCRA Hazardous Waste Regulatory Level	WC-3-1	WC-114	WC-115	WC-116	WC-117	WC-118
		WC-3-1	WC-114	WC-115	WC-116	WC-117	WC-118
Date		7/19/2011	1/27/2012	1/27/2012	1/27/2012	1/27/2012	1/27/2012
TCLP Volatile Compounds (mg/L) - Method 8260B							
1,1-Dichloroethene	0.7	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,2-Dichloroethane	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,4-Dichlorobenzene	7.4	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Butanone	NS	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzene	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Carbon tetrachloride	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chlorobenzene	100.0	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chloroform	6.0	0.01 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Tetrachloroethene	0.7	0.036	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Trichloroethene	0.5	0.017	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vinyl chloride	0.2	0.019	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Total TCLP VOCs		0.072	U	U	U	U	U

Compound	RCRA Hazardous Waste Regulatory Level	WC-119	WC-120	WC-121	WC-122	WC-200	WC-201
		WC-119	WC-120	WC-121	WC-122	WC-200	WC-201
Date		3/7/2012	3/23/2012	3/23/2012	3/23/2012	3/30/2012	3/30/2012
TCLP Volatile Compounds (mg/L) - Method 8260B							
1,1-Dichloroethene	0.7	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,2-Dichloroethane	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,4-Dichlorobenzene	7.4	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Butanone	NS	0.2 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzene	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Carbon tetrachloride	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chlorobenzene	100.0	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chloroform	6.0	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Tetrachloroethene	0.7	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Trichloroethene	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vinyl chloride	0.2	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Total TCLP VOCs		ND	U	U	U	U	U

NOTES
Sample analysis by Test America of Edison, NJ
All units are milligrams per liter (mg/L) - parts per million (ppm)
NS - No standard available
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the RCRA/NYSDEC Hazardous Waste Regulatory Levels

TABLE 4-2

SOIL ANALYTICAL RESULTS - TCLP VOCs
RCRA Hazardous Wasste Regulatory Levels

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	RCRA Hazardous Waste Regulatory Level	WC-202	WC-203	WC-204	WC-205	WC-206	WC-207
		WC-202	WC-203	WC-204	WC-205	WC-206	WC-207
Date		3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012
TCLP Volatile Compounds (mg/L) - Method 8260B							
1,1-Dichloroethene	0.7	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,2-Dichloroethane	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,4-Dichlorobenzene	7.4	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Butanone	NS	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzene	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Carbon tetrachloride	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chlorobenzene	100.0	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chloroform	6.0	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Tetrachloroethene	0.7	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Trichloroethene	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vinyl chloride	0.2	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Total TCLP VOCs		U	U	U	U	U	U

Compound	RCRA Hazardous Waste Regulatory Level	WC-208	WC-209	WC-211	WC-212	WC-213	WC-215
		WC-208	WC-209	WC-211	WC-212	WC-213	WC-215
Date		3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012
TCLP Volatile Compounds (mg/L) - Method 8260B							
1,1-Dichloroethene	0.7	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,2-Dichloroethane	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,4-Dichlorobenzene	7.4	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Butanone	NS	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzene	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Carbon tetrachloride	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chlorobenzene	100.0	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chloroform	6.0	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Tetrachloroethene	0.7	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Trichloroethene	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vinyl chloride	0.2	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Total TCLP VOCs		U	U	U	U	U	U

Compound	RCRA Hazardous Waste Regulatory Level	WC-216	WC-217	WC-300	WC-301	E3-WC-N3-VOC	E3-WC-N3-Full
		WC-216	WC-217	WC-300	WC-301	E3-WC-N3-Voc	E3-WC-N3-Full
Date		3/30/2012	3/30/2012	6/12/2012	6/12/2012	8/14/2012	8/14/2012
TCLP Volatile Compounds (mg/L) - Method 8260B							
1,1-Dichloroethene	0.7	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,2-Dichloroethane	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,4-Dichlorobenzene	7.4	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Butanone	NS	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzene	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Carbon tetrachloride	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0 U	0 U
Chlorobenzene	100.0	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chloroform	6.0	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Tetrachloroethene	0.7	0.01 U	0.01 U	0.01 U	0.01 U	0.0 U	0.0 U
Trichloroethene	0.5	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vinyl chloride	0.2	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Total TCLP VOCs		U	U	U	U		

NOTES
Sample analysis by Test America of Edison, NJ
All units are milligrams per liter (mg/L) - parts per million (ppm)
NS - No standard available
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the RCRA/NYSDEC Hazardous Waste Regulatory Levels

TABLE 4-2

SOIL ANALYTICAL RESULTS - TCLP SVOCs
RCRA Hazardous Waste Regulatory Levels

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	RCRA Hazardous Waste Regulatory Level	WC-1-1	WC-1-2	WC-1-3	WC-1-4	WC-1-5	WC-1-6	E3-WC-N3-Full
		WC-1-1	WC-1-2	WC-1-3	WC-1-4	WC-1-5	WC-1-6	E3-WC-N3-Full
Date		7/18/2011	7/18/2011	7/18/2011	7/18/2011	7/18/2011	7/18/2011	8/14/2012
TCLP Semivolatile Compounds (mg/L) - Method 8270C								
1,4-Dichlorobenzene	0.7	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	5 U	0.04 U
2,4,5-Trichlorophenol	400	0.04 U *	0.04 U *	0.04 U *	0.04 U *	0.04 U *	5 U *	0.04 U
2,4,6-Trichlorophenol	2.0	0.04 U *	0.04 U *	0.04 U *	0.04 U *	0.04 U *	5 U *	0.04 U
2,4-Dinitrotoluene	0.13	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	1 U	0.008 U
Hexachlorobenzene	0.13	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.5 U	0.004 U
Hexachlorobutadiene	0.5	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	1 U	0.008 U
Hexachloroethane	3.0	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.5 U	0.004 U
m & p - Cresol	200/200	0.04 U *	0.04 U *	0.04 U *	0.04 U *	0.04 U *	5 U *	0.04 U
Nitrobenzene	2.0	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.5 U	0.004 U
o-Cresol	200	0.04 U *	0.04 U *	0.04 U *	0.04 U *	0.04 U *	5 U *	0.04 U
Pentachlorophenol	100	0.12 U *	0.12 U *	0.12 U *	0.12 U *	0.12 U *	15 U *	0.12 U
Pyridine	5	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	5 U	0.04 U
2,4-D	10	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.017 U
Silvex (2,4,5-TP)	1	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.017 U
Total TCLP SVOCs		U	U	U	U	U	U	U

Compound	RCRA Hazardous Waste Regulatory Level	WC-3-1	WC-113	WC-120	WC-121	WC-200	WC-202	WC-204
		WC-3-1	WC-113	WC-120	WC-121	WC-200	WC-202	WC-204
Date		7/19/2011	1/27/2012	3/23/2012	3/23/2012	3/30/2012	3/30/2012	3/30/2012
TCLP Semivolatile Compounds (mg/L) - Method 8270C								
1,4-Dichlorobenzene	0.7	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
2,4,5-Trichlorophenol	400	0.04 U *	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
2,4,6-Trichlorophenol	2.0	0.04 U *	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
2,4-Dinitrotoluene	0.13	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U
Hexachlorobenzene	0.13	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Hexachlorobutadiene	0.5	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U
Hexachloroethane	3.0	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
m & p - Cresol	200/200	0.04 U *	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Nitrobenzene	2.0	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
o-Cresol	200	0.04 U *	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Pentachlorophenol	100	0.12 U *	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Pyridine	5	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
2,4-D	10	0.8 U	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U
Silvex (2,4,5-TP)	1	0.8 U	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U
Total TCLP SVOCs		U	U	U	U	U	U	U

Compound	RCRA Hazardous Waste Regulatory Level	WC-206	WC-208	WC-212	WC-216	WC-300		
		WC-206	WC-208	WC-212	WC-216	WC-300		
Date		3/30/2012	3/30/2012	3/30/2012	3/30/2012	6/12/2012		
TCLP Semivolatile Compounds (mg/L) - Method 8270C								
1,4-Dichlorobenzene	0.7	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U		
2,4,5-Trichlorophenol	400	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U		
2,4,6-Trichlorophenol	2.0	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U		
2,4-Dinitrotoluene	0.13	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U		
Hexachlorobenzene	0.13	0.004 U	0.004 U	0.004 U	0.004 U	0.00 U		
Hexachlorobutadiene	0.5	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U		
Hexachloroethane	3.0	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U		
m & p - Cresol	200/200	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U		
Nitrobenzene	2.0	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U		
o-Cresol	200	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U		
Pentachlorophenol	100	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U		
Pyridine	5	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U		
2,4-D	10	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U		
Silvex (2,4,5-TP)	1	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U		
Total TCLP SVOCs		U	U	U	U	U		

NOTES
Sample analysis by Test America of Edison, NJ
* Recovery or RPD exceeds control limits
All units are milligrams per liter (mg/L) - parts per million (ppm)
NS - No standard available
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the RCRA/NYSDEC Hazardous Waste Regulatory Levels

TABLE 4-2

SOIL ANALYTICAL RESULTS - TCLP PESTICIDES
RCRA Hazardous Waste Regulatory Levels

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	RCRA Hazardous Waste Regulatory Level	WC-1-1	WC-1-2	WC-1-3	WC-1-4	WC-1-5	WC-1-6	E3-WC-N3-Full
		WC-1-1	WC-1-2	WC-1-3	WC-1-4	WC-1-5	WC-1-6	E3-WC-N3-Full
Date		7/18/2011	7/18/2011	7/18/2011	7/18/2011	7/18/2011	7/18/2011	8/14/2012
TCLP Pesticides (mg/L) - Method 8081A								
Chlordane	0.03	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Endrin	0.02	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
gamma-BHC (Lindane)	0.4	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Heptachlor	0.008	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Heptachlor epoxide	NS	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Methoxychlor	10.0	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Toxaphene	0.5	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Total TCLP Pesticides		U	U	U	U	U	U	U

Compound	RCRA Hazardous Waste Regulatory Level	WC-3-1	WC-113	WC-120	WC-121	WC-200	WC-202	WC-204
		WC-3-1	WC-113	WC-120	WC-121	WC-200	WC-202	WC-204
Date		7/19/2011	1/27/2012	3/23/2012	3/23/2012	3/30/2012	3/30/2012	3/30/2012
TCLP Pesticides (mg/L) - Method 8081A								
Chlordane	0.03	0.005 U	5.0 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Endrin	0.02	0.0005 U	0.500 U*	0.0005 U	0.0005 U	0.0005 U*	0.0005 U*	0.0005 U*
gamma-BHC (Lindane)	0.4	0.0005 U	0.500 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Heptachlor	0.008	0.0005 U	0.500 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Heptachlor epoxide	NS	0.0005 U	0.500 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Methoxychlor	10.0	0.0005 U	0.500 U*	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Toxaphene	0.5	0.005 U	5.0 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Total TCLP Pesticides		U	U	U	U	U	U	U

Compound	RCRA Hazardous Waste Regulatory Level	WC-206	WC-208	WC-212	WC-216	WC-300	
		WC-206	WC-208	WC-212	WC-216	WC-300	
Date		3/30/2012	3/30/2012	3/30/2012	3/30/2012	6/12/2012	
TCLP Pesticides (mg/L) - Method 8081A							
Chlordane	0.03	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Endrin	0.02	0.0005 U*	0.0005 U*	0.0005 U*	0.0005 U*	0.0005 U*	
gamma-BHC (Lindane)	0.4	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	
Heptachlor	0.008	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	
Heptachlor epoxide	NS	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	
Methoxychlor	10.0	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	
Toxaphene	0.5	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Total TCLP Pesticides		U	U	U	U	U	

NOTES
Sample analysis by Test America of Edison, NJ
* Recovery or RPD exceeds control limits
All units are milligrams per liter (mg/L) - parts per million (ppm)
NS - No standard available
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the RCRA/NYSDEC Hazardous Waste Regulatory Levels

TABLE 4-2

SOIL ANALYTICAL RESULTS - TCLP METALS
RCRA Hazardous Waste Regulatory Levels

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	RCRA Hazardous Waste Regulatory Level	WC-1-1	WC-1-2	WC-1-3	WC-1-4	WC-1-5	WC-1-6
		WC-1-1	WC-1-2	WC-1-3	WC-1-4	WC-1-5	WC-1-6
Date		7/18/2011	7/18/2011	7/18/2011	7/18/2011	7/18/2011	7/18/2011
TCLP Metals (mg/L) - Method 6010B							
Arsenic	5	0.028	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Barium	100	1 U	1.17	1.24	1 U	1 U	1.05
Cadmium	1.0	0.025 U	0.0962	0.025 U	0.133	0.0508	0.0428
Chromium	5.0	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Copper	NS	0.825	0.125 U	0.125 U	0.315	0.125 U	0.125 U
Lead	5.0	0.421	**5.28**	0.567	2.71	1.21	0.863
Mercury	0.2	0.00041	0.00023	0.0002 U	0.0002	0.001	0.00035
Nickel	NS	0.2 U	0.446	0.503	0.376	0.249	0.261
Selenium	1.0	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Silver	5.0	0.05 U	0 U	0.05 U	0.05 U	0.05 U	0.05 U
Zinc	NS	8.58	24.2	14.9	39.3	17.3	15.8

Compound	RCRA Hazardous Waste Regulatory Level	WC-2-1	WC-2-2	WC-3-1	WC-4-1	WC-5-1	WC-6-1
		WC-2-1	WC-2-2	WC-3-1	WC-4-1	WC-5-1	WC-6-1
Date		7/19/2011	7/19/2011	7/19/2011	7/18/2011	7/20/2011	7/20/2011
TCLP Metals (mg/L) - Method 6010B							
Arsenic	5	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Barium	100	1 U	1 U	1 U	1 U	1 U	2.42
Cadmium	1.0	0.025 U	0.0353	0.036	0.0315	0.025 U	0.0262
Chromium	5.0	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Copper	NS	NR	NR	0.125 U	NR	NR	NR
Lead	5.0	0.025 U	0.712	0.179	0.525	0.951	4.7
Mercury	0.2	0.0002 U	0.0002 U	0.0002 U	0.00028	0.0002 U	0.0002 U
Nickel	NS	NR	NR	0.559	NR	NR	NR
Selenium	1.0	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Silver	5.0	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Zinc	NS	NR	NR	17.6	NR	NR	NR

Compound	RCRA Hazardous Waste Regulatory Level	WC-7-1	WC-101	WC-102	WC-103	WC-104	WC-107
		WC-7-1	WC-101	WC-102	WC-103	WC-104	WC-107
Date		7/20/2011	9/29/2011	9/29/2011	9/29/2011	9/29/2011	9/29/2011
TCLP Metals (mg/L) - Method 6010B							
Arsenic	5	0.025 U	NR	NR	NR	NR	NR
Barium	100	1 U	NR	NR	NR	NR	NR
Cadmium	1.0	0.141	NR	NR	NR	NR	NR
Chromium	5.0	0.05 U	NR	NR	NR	NR	NR
Copper	NS	NR	NR	NR	NR	NR	NR
Lead	5.0	1.65	0.222	0.347	1.58	2.67	1.07
Mercury	0.2	0.0002 U	NR	NR	NR	NR	NR
Nickel	NA	NR	NR	NR	NR	NR	NR
Selenium	1.0	0.05 U	NR	NR	NR	NR	NR
Silver	5.0	0.05 U	NR	NR	NR	NR	NR
Zinc	NS	NR	NR	NR	NR	NR	NR

NOTES
Sample analysis by Test America of Edison, NJ
All units are milligrams per liter (mg/L) - parts per million (ppm)
NS - No standrad available
NR - Not Analyzed
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the RCRA/NYSDEC Hazardous Waste Regulatory Levels

TABLE 4-2

SOIL ANALYTICAL RESULTS - TCLP METALS
RCRA Hazardous Waste Regulatory Levels

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	RCRA Hazardous Waste Regulatory Level	WC-111	B1A	WC-120	WC-121	B1A-BOT-1	B1A-SSW
		WC-111	B1A	WC-120	WC-121	BIA-BOT-1	B1A-SSW
Date		9/29/2011	3/9/2012	3/23/2012	3/23/2012	3/23/2012	3/23/2012
TCLP Metals (mg/L) - Method 6010B							
Arsenic	5	NR	NR	0.025 U	0.025 U	NR	NR
Barium	100	NR	NR	1.0 U	1.0 U	NR	NR
Cadmium	1.0	NR	NR	0.025 U	0.025 U	NR	NR
Chromium	5.0	NR	NR	0.05 U	0.05 U	NR	NR
Copper	NS	NR	NR	0.125 U	0.125 U	NR	NR
Lead	5.0	1.05	0.096	0.317	1.55	0.0336	0.979
Mercury	0.2	NR	NR	0.0002 U	0.0002 U	NR	NR
Nickel	NS	NR	NR	0.2 U	0.2 U	NR	NR
Selenium	1.0	NR	NR	0.05 U	0.05 U	NR	NR
Silver	5.0	NR	NR	0.05 U	0.05 U	NR	NR
Zinc	NS	NR	NR	0.15 U	0.543	NR	NR

Compound	RCRA Hazardous Waste Regulatory Level	B1A-ESW	WC-200	WC-202	WC-204	WC-206	WC-208
		B1A-ESW	WC-200	WC-202	WC-204	WC-206	WC-208
Date		3/23/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012
TCLP Metals (mg/L) - Method 6010B							
Arsenic	5	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Barium	100	NR	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium	1.0	NR	0.083	0.252	0.132	0.0712	0.025 U
Chromium	5.0	NR	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Copper	NS	NR	0.125 U	0.195	0.125 U	0.125 U	0.125 U
Lead	5.0	0.251	2.66	1.82	0.769	0.316	0.193
Mercury	0.2	NR	0.0002	0.0002	0.0002	0.0002	0.0002
Nickel	NS	NR	0.274	0.268	1.13	0.290	0.419
Selenium	1.0	NR	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Silver	5.0	NR	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Zinc	NS	NR	14.9	19.2	81.3	15.2	14.7

Compound	RCRA Hazardous Waste Regulatory Level	WC-212	WC-216	E4D-WSW	E4D-NSW	E4D-ESW	E4D-SSW
		WC-212	WC-216	E4D-WSW	E4D-NSW	E4D-ESW	E4D-SSW
Date		3/30/2012	3/30/2012	4/5/2012	4/5/2012	4/5/2012	4/5/2012
TCLP Metals (mg/L) - Method 6010B							
Arsenic	5	0.025 U	0.025 U	NR	NR	NR	NR
Barium	100	1.0 U	1.0 U	NR	NR	NR	NR
Cadmium	1.0	0.406	0.771	NR	NR	NR	NR
Chromium	5.0	0.05 U	0.05 U	NR	NR	NR	NR
Copper	NS	0.994	3.68	NR	NR	NR	NR
Lead	5.0	0.732	0.749	**7.1**	3.3	1.2	0.73
Mercury	0.2	0.0002	0.0002	NR	NR	NR	NR
Nickel	NA	0.412	0.461	NR	NR	NR	NR
Selenium	1.0	0.05 U	0.05 U	NR	NR	NR	NR
Silver	5.0	0.05 U	0.05 U	NR	NR	NR	NR
Zinc	NS	73.9	107.0	NR	NR	NR	NR

NOTES
Sample analysis by Test America of Edison, NJ
All units are milligrams per liter (mg/L) - parts per million (ppm)
NS - No standrad available
NR - Not Analyzed
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the RCRA/NYSDEC Hazardous Waste Regulatory Levels

TABLE 4-2

SOIL ANALYTICAL RESULTS - TCLP METALS
RCRA Hazardous Waste Regulatory Levels

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	RCRA Hazardous Waste Regulatory Level	E4D-WSW-1	D5-N2-2	D5-N2-3	D5-N2-4	E3-WC-N3-Full	MC-01
		E4D-WSW-1	D5-N2-2 (54-56)	D5-N2-3 (54-56)	D5-N2-4 (54-56)	E3-WC-N3-Full	MC-01
Date		4/11/2012	5/7/2012	5/7/2012	5/7/2012	8/14/2012	9/11/2012
TCLP Metals (mg/L) - Method 6010B							
Arsenic	5	NR	NR	NR	NR	0.025 U	0.049
Barium	100	NR	NR	NR	NR	1.15	0.26
Cadmium	1.0	NR	NR	NR	NR	0.025 U	0.11
Chromium	5.0	NR	NR	NR	NR	0.05 U	0.01 U
Copper	NS	NR	NR	NR	NR	0.125 U	NR
Lead	5.0	1.3	**16.0**	**15.0**	4.6	0.504	0.59
Mercury	0.2	NR	NR	NR	NR	0.0002 U	0.0001 U
Nickel	NS	NR	NR	NR	NR	0.77	NR
Selenium	1.0	NR	NR	NR	NR	0.05 U	0.05 U
Silver	5.0	NR	NR	NR	NR	0.05 U	0.005 U
Zinc	NS	NR	NR	NR	NR	21.4	NR

Compound	RCRA Hazardous Waste Regulatory Level	MC-02	MC-03	MC-04	MC-05	MC-06	MC-07
		MC-02	MC-03	MC-04	MC-05	MC-06	MC-07
Date		9/11/2012	9/11/2012	9/11/2012	9/11/2012	9/11/2012	9/11/2012
TCLP Metals (mg/L) - Method 6010B							
Arsenic	5	0.034	0.031	0.073	0.031	0.036	0.033
Barium	100	0.44	1.5	0.47	1.8	1.9	2.4
Cadmium	1.0	0.014	0.260	0.590	0.44	0.4	0.27
Chromium	5.0	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Copper	NS	NR	NR	NR	NR	NR	NR
Lead	5.0	0.079	0.19	0.25	0.39	0.66	0.19
Mercury	0.2	0.0001 U	0.0001 U	0.0001	0.0001 U	0.0001 U	0.0001 U
Nickel	NS	NR	NR	NR	NR	NR	NR
Selenium	1.0	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Silver	5.0	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Zinc	NS	NR	NR	NR	NR	NR	NR

Compound	RCRA Hazardous Waste Regulatory Level	MC-08	MC-09	MC-09-N1	MC-09-S1	MC-09-E1	MC-09-W1
		MC-08	MC-09	MC-09-N1	MC-09-S1	MC-09-E1	MC-09-W1
Date		9/11/2012	9/11/2012	10/13/2012	10/13/2012	10/13/2012	10/13/2012
TCLP Metals (mg/L) - Method 6010B							
Arsenic	5	0.033	0.027	NR	NR	NR	NR
Barium	100	0.65	2.4	NR	NR	NR	NR
Cadmium	1.0	0.52	1	0.32	0.39	0.66	0.31
Chromium	5.0	0.01 U	0.01 U	NR	NR	NR	NR
Copper	NS	NR	NR	NR	NR	NR	NR
Lead	5.0	0.4	0.3	NR	NR	NR	NR
Mercury	0.2	0.0001 U	0.0001 U	NR	NR	NR	NR
Nickel	NA	NR	NR	NR	NR	NR	NR
Selenium	1.0	0.05 U	0.05 U	NR	NR	NR	NR
Silver	5.0	0.005 U	0.005 U	NR	NR	NR	NR
Zinc	NS	NR	NR	NR	NR	NR	NR

NOTES
Sample analysis by Test America of Edison, NJ
All units are milligrams per liter (mg/L) - parts per million (ppm)
NS - No standrad available
NR - Not Analyzed
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the RCRA/NYSDEC Hazardous Waste Regulatory Levels

TABLE 4-2

SOIL ANALYTICAL RESULTS - TCLP METALS
RCRA Hazardous Waste Regulatory Levels

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	RCRA Hazardous Waste Regulatory Level	MC-09-BOT-1	WC-300
		MC-09-BOT-1	WC-300
Date		10/13/2012	6/12/2012
TCLP Metals (mg/L) - Method 6010B			
Arsenic	5	NR	0.025 U
Barium	100	NR	1.0 U
Cadmium	1.0	0.63	0.025 U
Chromium	5.0	NR	0.05 U
Copper	NS	NR	0.13 U
Lead	5.0	NR	0.211
Mercury	0.2	NR	0.0002 U
Nickel	NS	NR	0.47
Selenium	1.0	NR	0.05 U
Silver	5.0	NR	0.05 U
Zinc	NS	NR	6.46

Compound	RCRA Hazardous Waste Regulatory Level
Date	
TCLP Metals (mg/L) - Method 6010B	
Arsenic	5
Barium	100
Cadmium	1.0
Chromium	5.0
Copper	NS
Lead	5.0
Mercury	0.2
Nickel	NS
Selenium	1.0
Silver	5.0
Zinc	NS

Compound	RCRA Hazardous Waste Regulatory Level
Date	
TCLP Metals (mg/L) - Method 6010B	
Arsenic	5
Barium	100
Cadmium	1.0
Chromium	5.0
Copper	NS
Lead	5.0
Mercury	0.2
Nickel	NA
Selenium	1.0
Silver	5.0
Zinc	NS

NOTES
Sample analysis by Test America of Edison, NJ
All units are milligrams per liter (mg/L) - parts per million (ppm)
NS - No standrad available
NR - Not Analyzed
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the RCRA/NYSDEC Hazardous Waste Regulatory Levels

TABLE 4-2

SOIL ANALYTICAL RESULTS - WET CHEMISTRY

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	WC-1-1	WC-1-2	WC-1-3	WC-1-4	WC-1-5	WC-1-6
	WC-1-1	WC-1-2	WC-1-3	WC-1-4	WC-1-5	WC-1-6
Date	7/18/2011	7/18/2011	7/18/2011	7/18/2011	7/18/2011	7/18/2011
Wet Chemistry (Methods and Units Vary)						
Corrosivity (SU)	9.79 HF	8.23 HF	8.27 HF	9.65 HF	8.63 HF	8.59 HF
Cyanide, Reactive (mg/Kg)	25 U *	25 U *	25 U *	25 U *	25 U *	25 U *
Free Liquid (mL/100g)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Oil & Grease (mg/Kg)	337	3740	2040	3100	1080	568
Percent Moisture (%)	23.3	16.5	13.7	13.7	15	14.2
Percent Solids (%)	76.7	83.5	86.3	86.3	85	85.8
pH ,Dissolved (SU)	6.45	6.46	6.46	6.3	6.69	6.67
Sulfide, Reactive (mg/Kg)	9 J	9 J	9 J	9 J	9 J	9 J
Total Volatile Solids (µg/Kg)	25901	33000	15400	13100	26801	25801

Compound	WC-2-1	WC-2-2	WC-3-1	WC-4-1	WC-5-1	WC-6-1
	WC-2-1	WC-2-2	WC-3-1	WC-4-1	WC-5-1	WC-6-1
Date	7/19/2011	7/19/2011	7/19/2011	7/18/2011	7/20/2011	7/20/2011
Wet Chemistry (Methods and Units Vary)						
Corrosivity (SU)	NR	NR	8.49 HF	NR	NR	NR
Cyanide, Reactive (mg/Kg)	NR	NR	25 U *	NR	NR	NR
Free Liquid (mL/100g)	NR	NR	0.5 U	NR	NR	NR
Oil & Grease (mg/Kg)	NR	NR	14100	NR	NR	NR
Percent Moisture (%)	15.2	13.8	17.9	12.3	16.8	19.9
Percent Solids (%)	84.8	86.2	82.1	87.7	83.2	80.1
pH ,Dissolved (SU)	NR	NR	6.84	NR	NR	NR
Sulfide, Reactive (mg/Kg)	NR	NR	9 J	NR	NR	NR
Total Volatile Solids (µg/Kg)	NR	NR	34901	NR	NR	NR

Compound	WC-7-1	WC-113	WC-114	WC-115	WC-116	WC-117
	WC-7-1	WC-113	WC-114	WC-115	WC-116	WC-117
Date	7/20/2011	1/27/2012	1/27/2012	1/27/2012	1/27/2012	1/27/2012
Wet Chemistry (Methods and Units Vary)						
Corrosivity (SU)	NR	8.41 HF	NR	NR	NR	NR
Cyanide, Reactive (mg/Kg)	NR	25 U *	NR	NR	NR	NR
Free Liquid (mL/100g)	NR	0.5 U	NR	NR	NR	NR
Oil & Grease (mg/Kg)	NR	631 B	NR	NR	NR	NR
Percent Moisture (%)	18.8	22.9	21.5	13.5	13.1	17.8
Percent Solids (%)	81.2	77.1	78.5	86.5	86.9	82.2
pH ,Dissolved (SU)	NR	6.57	NR	NR	NR	NR
Sulfide, Reactive (mg/Kg)	NR	13 U	NR	NR	NR	NR
Total Volatile Solids (µg/Kg)	NR	9.9	NR	NR	NR	NR

NOTES
Sample analysis by Test America of Edison, NJ
U = Not Detected
D = Diluted Sample
J = Estimated Value
NR = Not Analyzed
* = Recovery or RPD exceeds control limits
HF = Field parameter with a holding time of 15 minutes
B = Compound was found in the blank and sample.

TABLE 4-2

SOIL ANALYTICAL RESULTS - WET CHEMISTRY

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	WC-118	WC-120	WC-121	WC-122	B1A-BOT-1	B1A-SSW
	WC-118	WC-120	WC-121	WC-122	BIA-BOT-1	B1A-SSW
Date	1/27/2012	3/23/2012	3/23/2012	3/23/2012	3/23/2012	3/23/2012
Wet Chemistry (Methods and Units Vary)						
Corrosivity (SU)	NR	5.0	5.14	NR	NR	NR
Cyanide, Reactive (mg/Kg)	NR	25.0 U	25.0 U	NR	NR	NR
Free Liquid (mL/100g)	NR	0.5 U	0.5 U	NR	NR	NR
Oil & Grease (mg/Kg)	NR	201	110	NR	NR	NR
Percent Moisture (%)	13.0	13.0	9.9	11.8	13.4	29.7
Percent Solids (%)	87.0	87.0	90.1	88.2	86.6	70.3
pH ,Dissolved (SU)	NR	5.0	5.14	NR	NR	NR
Sulfide, Reactive (mg/Kg)	NR	20.0 U	20.0 U	NR	NR	NR
Total Volatile Solids (µg/Kg)	NR	2.0	2.9	NR	NR	NR

Compound	B1A-ESW	WC-200	WC-202	WC-204	WC-206	WC-208
	B1AESW	WC-200	WC-202	WC-204	WC-206	WC-208
Date	3/23/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012
Wet Chemistry (Methods and Units Vary)						
Corrosivity (SU)	NR	7.5 HF	7.5 HF	6.81 HF	7.49 HF	7.07 HF
Cyanide, Reactive (mg/Kg)	NR	25 U *	25 U *	25 U *	25 U *	25 U *
Free Liquid (mL/100g)	NR	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Oil & Grease (mg/Kg)	NR	1,350	1,990	5,590	1,200	6,740
Percent Moisture (%)	29.9	15	16.8	20.8	24.6	32.6
Percent Solids (%)	70.1	85	83.2	79.2	75.4	67.4
pH ,Dissolved (SU)	NR	5.86	6.34	6.51	6.42	6.41
Sulfide, Reactive (mg/Kg)	NR	25 U	13 U	13 U	13 U	13 U
Total Volatile Solids (µg/Kg)	NR	7.7	9.7	12.9	11.8	19

Compound	WC-212	WC-216	E3-WC-N3-Full	WC-300		
	WC-212	WC-216	E3-WC-N3-Full	WC-300		
Date	3/30/2012	3/30/2012	8/14/2012	6/12/2012		
Wet Chemistry (Methods and Units Vary)						
Corrosivity (SU)	7.38 HF	6.9 HF	7.99 HF	6.61		
Cyanide, Reactive (mg/Kg)	25 U *	25 U *	25.00 U	NR		
Free Liquid (mL/100g)	0.5 U	0.5 U	0.50 U	NR		
Oil & Grease (mg/Kg)	2,770	3,460	11,200 B	7,070		
Percent Moisture (%)	22.8	23.5	15	NR		
Percent Solids (%)	77.2	76.5	85	NR		
pH ,Dissolved (SU)	6.28	6.17	6.46	7.7 HF		
Sulfide, Reactive (mg/Kg)	13 U	13 U	13 U	NR		
Total Volatile Solids (µg/Kg)	16.1	22.2	10.1	9.3		

NOTES
Sample analysis by Test America of Edison, NJ
U = Not Detected
D = Diluted Sample
J = Estimated Value
NR = Not Analyzed
* = Recovery or RPD exceeds control limits
HF = Field parameter with a holding time of 15 minutes
B = Compound was found in the blank and sample.

TABLE 4-2

SOIL ANALYTICAL RESULTS - TAL METALS

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	WC-1-1	WC-1-2	WC-1-3	WC-1-4	WC-1-5	WC-1-6
	WC-1-1	WC-1-2	WC-1-3	WC-1-4	WC-1-5	WC-1-6
Date	7/18/2011	7/18/2011	7/18/2011	7/18/2011	7/18/2011	7/18/2011
TCLP Wet Chemistry (Methods and Units Vary)						
Ammonia (as N) (mg/L)	0.1 U	0.21	0.86	0.09 J	0.3	0.38
Chemical Oxygen Demand (mg/L)	20.6	32.9	32.9	12.4	26.8	32.9
Oil & Grease (mg/L)	100 U	100 U	100 U	100 U	100 U	100 U
Total Solids (mg/L)	128 B	202 B	253 B	297 B	194 B	215 B

Compound	WC-3-1	WC-113	WC-120	WC-121	WC-200	WC-202
	WC-3-1	WC-113	WC-120	WC-121	WC-200	WC-202
Date	7/19/2011	1/27/2012	3/23/2012	3/23/2012	3/30/2012	3/30/2012
TCLP Wet Chemistry (Methods and Units Vary)						
Ammonia (as N) (mg/L)	0.56	0.076 J	0.08 J	0.17	1.57	NR
Chemical Oxygen Demand (mg/L)	55.5	32.4	43.9	45.9	10.5	8.4 J
Oil & Grease (mg/L)	100 U	28.6 U	100 U	100 U	NR	NR
Total Solids (mg/L)	376 B	204	90.1	89.6	175	252

Compound	WC-204	WC-206	WC-208	WC-212	WC-216	E3-WC-N3-Full
	WC-204	WC-206	WC-208	WC-212	WC-216	E3-WC-N3-Full
Date	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	8/14/2012
TCLP Wet Chemistry (Methods and Units Vary)						
Ammonia (as N) (mg/L)	1.57	1.83	1.44	1.46	1.49	0.013 U
Chemical Oxygen Demand (mg/L)	14.7	50.1	20.9	8.4 J	14.7	19.0
Oil & Grease (mg/L)	NR	NR	NR	NR	NR	28.0 U
Total Solids (mg/L)	499	686	572	266	162	328 B

Compound	WC-300					
	WC-300					
Date	6/12/2012					
TCLP Wet Chemistry (Methods and Units Vary)						
Ammonia (as N) (mg/L)	0.18					
Chemical Oxygen Demand (mg/L)	35.3					
Oil & Grease (mg/L)	7,070					
Total Solids (mg/L)	477					

NOTES
Sample analysis by Test America of Edison, NJ
U = Not Detected
D = Diluted Sample
J = Estimated Value
NR = Not analyzed.
B = Compound was found in the blank and sample.

TABLE 4-3

WASHDOWN PIT SEDIMENT ANALYTICAL RESULTS - VOCs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	DPS1-1
		DPS1-1
Date		3/20/2013
Volatile Organic Compounds (mg/kg) - Method 8260		
1,1,1-Trichloroethane	1,000	0.0122 U
1,1,2,2-Tetrachloroethane	---	0.061 U
1,1,2-Trichloroethane	---	0.061 U
1,1-Dichloroethane	480	0.0122 U
1,1-Dichloroethene	1,000	0.0122 U
1,2,4-Trichlorobenzene	380	0.61 U
1,2-Dibromo-3-Chloropropane	---	0.61 U
1,2-Dibromoethane	---	0.0122 U
1,2-Dichlorobenzene	1,000	0.61 U
1,2-Dichloroethane	60	NR
1,2-Dichloropropane	---	0.61 U
1,3-Dichlorobenzene	560	0.061 U
1,4-Dichlorobenzene	250	0.61 U
2-Butanone	---	0.283
2-Hexanone	---	NR
4-Methyl-2-pentanone	---	NR
Acetone	1,000	0.138
Benzene	89	0.0122 U
Bromodichloromethane	---	0.061 U
Bromoform	---	0.061 U
Bromomethane	---	NR
Carbon disulfide	---	NR
Carbon tetrachloride	44	0.0122 U
Chlorobenzene	1,000	0.061 U
Chloroethane	---	0.0122 U
Chloromethane	---	0.0122 U
Chloroform	700	0.0122 U
cis-1,2-Dichloroethene	1,000	0.0122 U
cis-1,3-Dichloropropene	---	0.061 U
Cyclohexane	---	NR
Dibromomethane	---	0.061 U
Dichlorodifluoromethane	---	0.0122 U
Ethylbenzene	780	0.061 U
Freon TF	---	NR
Isopropylbenzene	---	0.061 U
Methyl acetate	---	NR
Methylcyclohexane	---	NR
Methylene Chloride	1,000	0.0122 U
MTBE	1,000	0.0122 U
Styrene	---	NR
Tetrachloroethene	300	0.061 U
Toluene	1,000	0.061 U
trans-1,2-Dichloroethene	1,000	0.0122 U
trans-1,3-Dichloropropene	---	0.061 U
Trichloroethene	400	0.061 U
Trichlorofluoromethane	---	0.0122 U
Vinyl chloride	27	0.0122 U
Xylenes, Total	1,000	0.061 U

NOTES
Sample analysis by Long Island Analytical Laboratories, Inc.
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
--- = No standard available
NR = Not Analyzed
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial

TABLE 4-3

WASHDOWN PIT SEDIMENT ANALYTICAL RESULTS - SVOCs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	DPS1-1
		DPS1-1
Date		3/20/2013
Semivolatile Organic Compounds (mg/kg) - Method 8270		
2,4,5-Trichlorophenol	---	NR
2,4,6-Trichlorophenol	---	NR
2,4-Dichlorophenol	---	NR
2,4-Dimethylphenol	---	NR
2,4-Dinitrophenol	---	NR
2,4-Dinitrotoluene	---	NR
2,6-Dinitrotoluene	---	NR
2-Chloronaphthalene	---	NR
2-Chlorophenol	---	NR
2-Methylnaphthalene	---	NR
2-Methylphenol	---	NR
2-Nitroaniline	---	NR
2-Nitrophenol	---	NR
3,3-Dichlorobenzidine	---	NR
3-Nitroaniline	---	NR
4,6-Dinitro-2-methylphenol	---	NR
4-Bromophenyl phenyl ether	---	NR
4-Chloro-3-methylphenol	---	NR
4-Chloroaniline	---	NR
4-Chlorophenyl phenyl ether	---	NR
4-Methylphenol	---	NR
4-Nitroaniline	---	NR
4-Nitrophenol	---	NR
Acenaphthene	1,000	1.01
Acenaphthylene	1,000	NR
Acetophenone	---	NR
Anthracene	1,000	1.25
Atrazine	---	NR
Benzaldehyde	---	NR
Benzo[a]anthracene	11	3.3
Benzo[a]pyrene	1.1	**2.99**
Benzo[b]fluoranthene	11	4.15
Benzo[g,h,i]perylene	1,000	2.94
Benzo[k]fluoranthene	110	1.38
bis (2-chloroisopropyl) ether	---	NR
Bis(2-chloroethoxy)methane	---	NR
Bis(2-chloroethyl)ether	---	NR
Bis(2-ethylhexyl) phthalate	---	NR
Butyl benzyl phthalate	---	NR
Caprolactam	---	NR
Carbazole	---	NR
Chrysene	110	3.37
Dibenz(a,h)anthracene	1.1	0.976 U
Dibenzofuran	---	NR
Diethyl phthalate	---	NR
Dimethyl phthalate	---	NR
Di-n-butyl phthalate	---	NR
Di-n-octyl phthalate	---	NR
Diphenyl	---	NR
Fluoranthene	1,000	6.58
Fluorene	1,000	1.53
Hexachlorobenzene	---	NR
Hexachlorobutadiene	---	NR
Hexachlorocyclopentadiene	---	NR
Hexachloroethane	---	NR
Indeno[1,2,3-cd]pyrene	11	2.19
Isophorone	---	NR
Naphthalene	1,000	NR
Nitrobenzene	---	NR
N-Nitrosodi-n-propylamine	---	NR
N-Nitrosodiphenylamine	---	NR
Pentachlorophenol	55	NR
Phenanthrene	1,000	4.83
Phenol	1,000	NR
Pyrene	1,000	6.86

NOTES
Sample analysis by Long Island Analytical Laboratories, Inc.
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
--- = No standard available
NR = Not Analyzed
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial

TABLE 4-3

WASHDOWN PIT SEDIMENT ANALYTICAL RESULTS - TAL METALS
Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	DPS1-1 DPS1-1			
Date		3/20/2013			
Total Metals (mg/kg) - Method 6010B					
Arsenic	16	**33.4**			
Barium	10,000	888			
Cadmium	60	25.7			
Chromium	6,800	177			
Copper	10,000	NR			
Lead	3,900	3210			
Mercury	5.7	14.3			
Nickel	10,000	NR			
Selenium	6,800	17.4			
Silver	6,800	7.9			
Zinc	10,000	NR			

NOTES
Sample analysis by Long Island Analytical Laboratories, Inc.
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
--- = No standard available
NR = Not Analyzed
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives - Industrial Use.

TABLE 4-3

WASHDOWN PIT SEDIMENT ANALYTICAL RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	DPS1-1			
		DPS1-1			
Date		3/20/2013			
PCBs (mg/kg) - Method 8082A					
Aroclor 1016	25*	16.3			
Aroclor 1221	25*	0.122 U			
Aroclor 1232	25*	0.122 U			
Aroclor 1242	25*	0.122 U			
Aroclor 1248	25*	0.122 U			
Aroclor 1254	25*	14.8			
Aroclor 1260	25*	4.46			
Aroclor 1262	25*	0.122 U			
Aroclor 1268	25*	0.122 U			
Total Arochlors	25*	**35.56**			

NOTES
Sample analysis by Long Island Analytical Laboratories, Inc.
* Standard applies to total arochlors
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial

TABLE 4-3

WASHDOWN PIT WATER ANALYTICAL RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	NYSDEC Technical and Operational Guidance Series	FLDWS-2			
		FLDWS-2			
Date		3/14/2013			
PCBs (µg/L) - Method 608					
Aroclor 1016	5*	0.5 U			
Aroclor 1221	5*	0.5 U			
Aroclor 1232	5*	0.5 U			
Aroclor 1242	5*	**5.65**			
Aroclor 1248	5*	0.5 U			
Aroclor 1254	5*	3.52			
Aroclor 1260	5*	0.5 U			
Aroclor 1262	5*	NR			
Aroclor 1268	5*	NR			
Total Arochlors	5*	**9.17**			

NOTES
NYSDEC - New York State Department of Environmental Conservation
TOGS - Technical Operational and Guidance Series.
Sample analysis by Long Island Analytical Laboratories, Inc.
* Standard applies to total arochlors
All units are micrograms per kilogram (µg/L) - parts per billion (ppb)
U = Not Detected
NR = Not Analyzed
J = Estimated Value
Values in **bold** exceed the NYSDEC TOGS

TABLE 4-3

WASHDOWN PIT SEDIMENT ANALYTICAL RESULTS - TCLP METALS
RCRA Hazardous Waste Levels

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	RCRA Hazardous Waste Regulatory Level	DPS1-1			
		DPS1-1			
Date		3/20/2013			
TCLP Metals (mg/L) - Method 6010B					
Arsenic	5	0.2			
Barium	100	1.0 U			
Cadmium	1.0	0.05 U			
Chromium	5.0	0.05 U			
Copper	---	NR			
Lead	5.0	0.05			
Mercury	0.2	0.02			
Nickel	---	NR U			
Selenium	1.0	0.05 U			
Silver	5.0	0.05 U			
Zinc	NS	NR			

NOTES
Sample analysis by Long Island Analytical Laboratories, Inc.
All units are milligrams per liter (mg/L) - parts per million (ppm)
--- = No standard available
NR - Not Analyzed
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the RCRA/NYSDEC Hazardous Waste Regulatory Levels

TABLE 4-4

UST SOIL ANALYTICAL RESULTS - VOCs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	UST-E	UST-W	UST-BOT	UST-NE	UST-NW	UST-SE	UST-SW
		UST-E	UST-W	UST-BOT	UST-NE	UST-NW	UST-SE	UST-SW
Date		6/8/2012	6/8/2012	6/8/2012	6/8/2012	6/8/2012	6/8/2012	6/8/2012
Volatile Organic Coumpounds (mg/kg) - Method 8260								
1,1,1,2-Trichloroethane	1,000	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
1,1,1-Trichloroethane	1,000	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
1,1,2,2-Tetrachloroethane	NS	0.0013 U	0.0012 U	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0012 U
1,1,2-Trichloro-1,2,2-trifluoroethene	NS	0.013 U	0.012 U	0.012 U	0.013 U	0.011 U	0.011 U	0.012 U
1,1,2-Trichloroethane	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
1,1-Dichloroethane	480	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
1,1-Dichloroethyene	1,000	0.0051 U	0.0047 U	0.0047 U	0.0053 U	0.0045 U	0.0046 U	0.0048 U
1,1-Dichloropropane	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
1,2,3-Trichlorobenzene	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
1,2,3-Trichloropropane	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
1,2,4-Trichlorobenzene	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
1,2,4-Trimethybenzene	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
1,2-Dibromo-3-Chloropropane	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
1,2-Dibromoethane	NS	0.0013 U	0.0012 U	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0012 U
1,2-Dichlorobenzene	1,000	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
1,2-Dichloroethane	60	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
1,2-Dichloropropane	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
1,3,5-Trichlorobenzene	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
1,3,5-Trimethybenzene	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
1,3-Dichlorobenzene	560	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
1,3-Dichloropropane	NS	0.0013 U	0.0012 U	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0012 U
1,4-Dichlorobenzene	250	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
1,4-Dioxane	NS	0.13 U	0.12 U	0.12 U	0.13 U	0.11 U	0.11 U	0.12 U
2,2-Dichloropropane	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
2-Butanone	NS	0.051 U	0.047 U	0.047 U	0.053 U	0.045 U	0.046 U	0.048 U
2-Chorotoluene	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
2-Hexanone	NS	0.026 U	0.023 U	0.024 U	0.027 U	0.022 U	0.023 U	0.024 U
4-Chorotoluene	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
4-Methyl-2-pentanone	NS	0.026 U	0.023 U	0.024 U	0.027 U	0.022 U	0.023 U	0.024 U
Acetone	1,000	0.43	0.23	0.48	0.29	0.45	0.71	0.29
Acrylonitrile	NS	0.0077 U	0.0079 U	0.0071 U	0.008 U	0.0067 U	0.0068 U	0.0072 U
Benzene	89	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
Bromobenzene	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
Bromochloromethane	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
Bromodichloromethane	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
Bromoform	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
Bromomethane	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
Carbon disulfide	NS	0.0077 U	0.0079 U	0.0071 U	0.008 U	0.0067 U	0.0068 U	0.0072 U
Carbon tetrachloride	44	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
Chlorobenzene	1,000	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
Chlorodibromomethane	NS	0.0013 U	0.0012 U	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0012 U
Chloroethane	NS	0.026 U	0.023 U	0.024 U	0.027 U	0.022 U	0.023 U	0.024 U
Chloroform	700	0.0051 U	0.0047 U	0.0047 U	0.0053 U	0.0045 U	0.0046 U	0.0048 U
Chloromethane	NS	0.013 U	0.012 U	0.012 U	0.013 U	0.011 U	0.011 U	0.012 U
cis-1,2-Dichloroethene	1,000	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.23	0.21
cis-1,3-Dichloropropene	NS	0.0013 U	0.0012 U	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0012 U
Dibromochloromethane	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
Dichlorodifluoromethane	NS	0.026 U	0.023 U	0.024 U	0.027 U	0.022 U	0.023 U	0.024 U
Ethylbenzene	780	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
Hexachlorobutadiene	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
Isopropylbenzene	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
m+p Xylene	1,000	0.0051 U	0.0047 U	0.0047 U	0.0053 U	0.0045 U	0.0046 U	0.0048 U
MTBE	1,000	0.0051 U	0.0047 U	0.0047 U	0.0053 U	0.0045 U	0.0046 U	0.0048 U
Methylene Chloride	1,000	0.029	0.023 U	0.024 U	0.027 U	0.022 U	0.023 U	0.024 U
Naphthalene	NS	0.0051 U	0.0047 U	0.0047 U	0.0053 U	0.0045 U	0.0046 U	0.0048 U
n-Butylbenzene	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
n-Propylbenzene	1,000	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
o-Xylene	1,000	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
p-Iisopropyltoluene	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
sec-Butylbenzene	1,000	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
Styrene	NS	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
Tetrachloroethene	300	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
Toluene	1,000	0.0026 U	0.004	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
trans-1,2-Dichloroethene	1,000	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0023 U	0.0024 U
trans-1,3-Dichloropropene	NS	0.0013 U	0.0012 U	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0012 U
Trichloroethene	400	0.0026 U	0.0023 U	0.0024 U	0.0027 U	0.0022 U	0.0063	0.0035
Trichlorofluoromethane	NS	0.013 U	0.012 U	0.012 U	0.013 U	0.011 U	0.011 U	0.012 U
Vinyl chloride	27	0.013 U	0.012 U	0.012 U	0.013 U	0.011 U	0.061	0.065
Total Confident Conc.		0.459	0.234	0.48	0.290	0.45	1.007	0.569
Total Estimated Conc. (TICs)		0	0	0	0	0	0	0

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
NS = No standard available
NA = Not Analyzed
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial

TABLE 4-4

UST SOIL ANALYTICAL RESULTS - VOCs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	UST-2-N	UST-2-E	UST-2-W	UST-2-S	UST-2-BOT
		UST-2-N	UST-2-E	UST-2-W	UST-2-S	UST-2-BOT
Date		12/27/2012	12/27/2012	12/27/2012	12/27/2012	12/27/2012
Volatile Organic Coumpounds (mg/kg) - Method 8260						
1,1,1,2-Trichloroethane	1,000	0.0013 U	0.0014 U	0.0013 U	0.0012 U	0.0013 U
1,1,1-Trichloroethane	1,000	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,1,2,2-Tetrachloroethane	NS	0.0013 U	0.0014 U	0.0013 U	0.0012 U	0.0013 U
1,1,2-Trichloro-1,2,2-trifluoroethene	NS	0.013 U	0.014 U	0.013 U	0.012 U	0.013 U
1,1,2-Trichloroethane	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,1-Dichloroethane	480	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,1-Dichloroethyene	1,000	0.0053 U	0.0058 U	0.0053 U	0.0049 U	0.0052 U
1,1-Dichloropropane	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,2,3-Trichlorobenzene	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,2,3-Trichloropropane	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,2,4-Trichlorobenzene	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,2,4-Trimethybenzene	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,2-Dibromo-3-Chloropropane	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,2-Dibromoethane	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,2-Dichlorobenzene	1,000	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,2-Dichloroethane	60	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,2-Dichloropropane	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,3,5-Trichlorobenzene	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,3,5-Trimethybenzene	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,3-Dichlorobenzene	560	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,3-Dichloropropane	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,4-Dichlorobenzene	250	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
1,4-Dioxane	NS	0.13 U	0.14 U	0.13 U	0.12 U	0.13 U
2,2-Dichloropropane	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
2-Butanone	NS	0.053 U	0.058 U	0.053 U	0.049 U	0.052 U
2-Chorotoluene	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
2-Hexanone	NS	0.026 U	0.029 U	0.027 U	0.024 U	0.026 U
4-Chorotoluene	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
4-Methyl-2-pentanone	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
Acetone	1,000	0.13 U	0.28 U	0.13 U	0.21 U	0.31 U
Acrylonitrile	NS	0.0079 U	0.0086 U	0.008 U	0.0073 U	0.0077 U
Benzene	89	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
Bromobenzene	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
Bromochloromethane	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
Bromodichloromethane	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
Bromoform	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
Bromomethane	NS	0.013 U	0.014 U	0.013 U	0.012 U	0.013 U
Carbon disulfide	NS	0.0079 U	0.0086 U	0.008 U	0.0073 U	0.0077 U
Carbon tetrachloride	44	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
Chlorobenzene	1,000	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
Chlorodibromomethane	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
Chloroethane	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
Chloroform	700	0.0053 U	0.0058 U	0.0053 U	0.0049 U	0.0052 U
Chloromethane	NS	0.013 U	0.014 U	0.013 U	0.012 U	0.013 U
cis-1,2-Dichloroethene	1,000	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
cis-1,3-Dichloropropene	NS	0.0013 U	0.0014 U	0.0013 U	0.0012 U	0.0013 U
Dibromochloromethane	NS	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
Ethylbenzene	780	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
Hexachlorobutadiene	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
Isopropylbenzene	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
m+p Xylene	1,000	0.0053 U	0.0058 U	0.0053 U	0.0049 U	0.0052 U
MTBE	1,000	0.0053 U	0.0058 U	0.0053 U	0.0049 U	0.0052 U
Methylene Chloride	1,000	0.026 U	0.029 U	0.027 U	0.024 U	0.036
Naphthalene	NS	0.0053 U	0.0058 U	0.0053 U	0.0049 U	0.0052 U
n-Butylbenzene	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
n-Propylbenzene	1,000	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
o-Xylene	1,000	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
p-Iisopropyltoluene	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
sec-Butylbenzene	1,000	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
Styrene	NS	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
Tetrachloroethene	300	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
Toluene	1,000	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
trans-1,2-Dichloroethene	1,000	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
trans-1,3-Dichloropropene	NS	0.0013 U	0.0014 U	0.0013 U	0.0012 U	0.0013 U
Trichloroethene	400	0.0026 U	0.0029 U	0.0027 U	0.0024 U	0.0026 U
Trichlorofluoromethane	NS	0.013 U	0.014 U	0.013 U	0.012 U	0.013 U
Vinyl chloride	27	0.013 U	0.014 U	0.013 U	0.012 U	0.013 U
Total Confident Conc.		0	0	0	0	0.036
Total Estimated Conc. (TICs)		0	0	0	0	0

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
NS = No standard available
NA = Not Analyzed
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial

TABLE 4-4

UST SOIL ANALYTICAL RESULTS - SVOCs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	UST-E	UST-W	UST-BOT	UST-NE	UST-NW	UST-SE	UST-SW
		UST-E	UST-W	UST-BOT	UST-NE	UST-NW	UST-SE	UST-SW
Date		6/8/2012	6/8/2012	6/8/2012	6/8/2012	6/8/2012	6/8/2012	6/8/2012
Semivolatile Organic Coumpounds (mg/kg) - Method 8270								
1,2,4,5-Tetrachlorobenzene	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
1,2,4-Trichlorobenzene	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
1,2-Dichlorobenzene	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
1,2-Diphenylhydrazine	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
1,3-Dichlorobenzene	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
1,4-Dichlorobenzene	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
1-Methylnaphthalene	NS	0.86 U	0.8 U	0.84 U	1.7 U	0.75 U	0.41 U	0.41 U
2,4,5-Trichlorophenol	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
2,4,6-Trichlorophenol	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
2,4-Dichlorophenol	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
2,4-Dimethylphenol	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
2,4-Dinitrophenol	NS	3.3 U	3.1 U	3.3 U	6.5 U	2.9 U	1.6 U	1.6 U
2,4-Dinitrotoluene	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
2,6-Dinitrotoluene	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
2-Chloronaphthalene	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
2-Chlorophenol	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
2-Methylnaphthalene	NS	0.86 U	0.8 U	0.84 U	1.7 U	0.75 U	0.41 U	0.41 U
2-Methylphenol	1,000	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
2-Nitroaniline	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
2-Nitrophenol	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
3,3-Dichlorobenzidine	NS	0.86 U	0.8 U	0.84 U	1.7 U	0.75 U	0.41 U	0.41 U
3/4-Methylphenol	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
3-Nitroaniline	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
4,6-Dinitro-2-methylphenol	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
4-Bromophenyl phenyl ether	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
4-Chloro-3-methylphenol	NS	3.3 U	3.1 U	3.3 U	6.5 U	2.9 U	1.6 U	1.6 U
4-Chloroaniline	NS	3.3 U	3.1 U	3.3 U	6.5 U	2.9 U	1.6 U	1.6 U
4-Chlorophenyl phenyl ether	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
4-Nitroaniline	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
4-Nitrophenol	NS	3.3 U	3.1 U	3.3 U	6.5 U	2.9 U	1.6 U	1.6 U
Acenaphthylene	1,000	0.86 U	0.8 U	0.84 U	1.7 U	0.75 U	0.41 U	0.41 U
Acetophenone	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Aniline	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Anthracene	1,000	1.9	0.8 U	1.1	1.7 U	0.75 U	0.41 U	0.51
Benzidine	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Benzo[a]anthracene	11	8.2	1.4	2.5	1.7 U	0.99	0.41 U	1.4
Benzo[a]pyrene	1.1	**7.8**	**1.4**	**2.7**	1.7 U	0.75 U	0.41 U	**1.4**
Benzo[b]fluoranthene	11	**11**	2	4	1.7 U	0.75 U	0.42	1.7
Benzo[g,h,i]perylene	1,000	2.6	0.8 U	0.96	1.7 U	1	0.41 U	0.74
Benzo[k]fluoranthene	110	3.9	0.8 U	1.4	1.7 U	0.75 U	0.41 U	0.85
Benzoic Acid	NS	5 U	4.7 U	4.9 U	9.8 U	4.4 U	2.4 U	2.4 U
Bis (2-chloroisopropyl) ether	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Bis(2-chloroethoxy)methane	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Bis(2-chloroethyl)ether	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Bis(2-ethylhexyl) phthalate	NS	3.4	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	2
Butyl benzyl phthalate	NS	3.3 U	3.1 U	3.3 U	6.5 U	2.9 U	1.6 U	1.6 U
Carbazole	NS	1.2	0.8 U	0.84 U	1.7 U	0.75 U	0.41 U	0.41 U
Chrysene	110	7.7	1.4	2.6	1.7 U	1.9	0.41 U	1.5
Dibenz(a,h)anthracene	1	0.86 U	0.8 U	0.84 U	1.7 U	0.75 U	0.41 U	0.41 U
Dibenzofuran	1,000	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Diethyl phthalate	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Dimethyl phthalate	NS	3.3 U	3.1 U	3.3 U	6.5 U	2.9 U	1.6 U	1.6 U
Di-n-butyl phthalate	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Di-n-octyl phthalate	NS	3.3 U	3.1 U	3.3 U	6.5 U	2.9 U	1.6 U	1.6 U
Fluoranthene	1,000	19	3.1	8.9	1.7 U	4	0.85	4.5
Fluorene	1,000	0.86 U	0.8 U	0.84 U	1.7 U	0.75 U	0.41 U	0.41 U
Hexachlorobenzene	12	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Hexachlorobutadiene	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Hexachlorocyclopentadiene	NS	3.3 U	3.1 U	3.3 U	6.5 U	2.9 U	1.6 U	1.6 U
Hexachloroethane	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Indeno[1,2,3-cd]pyrene	11	3.6	0.87	1.2	1.7 U	1	0.41 U	0.92
Isophorone	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Naphthalene	1,000	0.86 U	0.8 U	0.84 U	1.7 U	0.75 U	0.41 U	0.41 U
Nitrobenzene	140	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
N-Nitrosodimethylamine	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
N-Nitrosodi-n-propylamine	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
N-Nitrosodiphenylamine	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Pentachloronitrobenzene	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Pentachlorophenol	55	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Phenanthrene	1,000	5.6	0.99	4.7	1.7 U	0.75 U	0.41 U	1.6
Phenol	1,000	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Pyrene	1,000	13	2.4	4	1.7 U	3.9	0.54	2.4
Pyridine	NS	1.7 U	1.6 U	1.7 U	3.3 U	1.5 U	0.81 U	0.82 U
Total Confident Conc.		175.9	13.56	34.06	0	12.79	1.81	19.52
Total Estimated Conc. (TICs)		0	0	0	0	0	0	0

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
NS = No standard available
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial

TABLE 4-4

UST SOIL ANALYTICAL RESULTS - SVOCs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	UST-2-N	UST-2-E	UST-2-W	UST-2-S	UST-2-BOT
		UST-2-N	UST-2-E	UST-2-W	UST-2-S	UST-2-BOT
Date		12/27/2012	12/27/2012	12/27/2012	12/27/2012	12/27/2012
Semivolatile Organic Coumpounds (mg/kg) - Method 8270						
1,2,4,5-Tetrachlorobenzene	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
1,2,4-Trichlorobenzene	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
1,2-Dichlorobenzene	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
1,2-Diphenylhydrazine	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
1,3-Dichlorobenzene	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
1,4-Dichlorobenzene	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
1-Methylnaphthalene	NS	2.1 U	0.46 U	0.58	0.67	0.22 U
2,4,5-Trichlorophenol	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
2,4,6-Trichlorophenol	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
2,4-Dichlorophenol	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
2,4-Dimethylphenol	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
2,4-Dinitrophenol	NS	8.3 U	1.8 U	1.6 U	1.6 U	0.85 U
2,4-Dinitrotoluene	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
2,6-Dinitrotoluene	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
2-Chloronaphthalene	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
2-Chlorophenol	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
2-Methylnaphthalene	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
2-Methylphenol	1,000	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
2-Nitroaniline	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
2-Nitrophenol	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
3,3-Dichlorobenzidine	NS	2.1 U	0.46 U	0.42 U	0.42 U	0.22 U
3/4-Methylphenol	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
3-Nitroaniline	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
4,6-Dinitro-2-methylphenol	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
4-Bromophenyl phenyl ether	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
4-Chloro-3-methylphenol	NS	8.3 U	1.8 U	1.6 U	1.6 U	0.85 U
4-Chloroaniline	NS	8.3 U	1.8 U	1.6 U	1.6 U	0.85 U
4-Chlorophenyl phenyl ether	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
4-Nitroaniline	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
4-Nitrophenol	NS	8.3 U	1.8 U	1.6 U	1.6 U	0.85 U
Acenaphthylene	1,000	2.1 U	0.46 U	0.42 U	0.42 U	0.22 U
Acetophenone	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
Aniline	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
Anthracene	1,000	14	1.4	18	1.1	1.7
Benzidine	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
Benzo[a]anthracene	11	**39**	5.7	**46**	5.5	4.2
Benzo[a]pyrene	1.1	**36**	**5.8**	**37**	**5.2**	**3.8**
Benzo[b]fluoranthene	11	**50**	**8.3**	**57**	**7.9**	**5**
Benzo[g,h,i]perylene	1,000	13	3	15	2.7	1.6
Benzo[k]fluoranthene	110	18	3.1	21	2.7	2
Benzoic Acid	NS	13 U	2.7 U	2.5 U	2.5 U	1.3 U
Bis (2-chloroisopropyl) ether	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
Bis(2-chloroethoxy)methane	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
Bis(2-chloroethyl)ether	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
Bis(2-ethylhexyl) phthalate	NS	9.9	9.8	15	2.3	1
Butyl benzyl phthalate	NS	8.3 U	4.5	2.7	1.6 U	0.85 U
Carbazole	NS	5.5	0.61	7.5	0.58	0.35
Chrysene	110	37	5.7	44	5.8	4.2
Dibenz(a,h)anthracene	1	**4.1**	0.85	**4.1**	0.74	0.51
Dibenzofuran	1,000	4.3 U	0.92 U	4.7	0.84 U	0.44 U
Diethyl phthalate	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
Dimethyl phthalate	NS	8.3 U	1.8 U	1.6 U	1.6 U	0.85 U
Di-n-butyl phthalate	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
Di-n-octyl phthalate	NS	8.3 U	1.8 U	1.6 U	1.6 U	0.85 U
Fluoranthene	1,000	82	9.5	99	15	8.7
Fluorene	1,000	5.7	0.46 U	7.4	0.42 U	0.47
Hexachlorobenzene	12	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
Hexachlorobutadiene	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
Hexachlorocyclopentadiene	NS	8.3 U	1.8 U	1.6 U	1.6 U	0.85 U
Hexachloroethane	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
Indeno[1,2,3-cd]pyrene	11	**15**	3.1	**17**	2.9	1.8
Isophorone	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
Naphthalene	1,000	2.3	0.46 U	1.4	0.42 U	0.29
Nitrobenzene	140	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
N-Nitrosodimethylamine	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
N-Nitrosodi-n-propylamine	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
N-Nitrosodiphenylamine	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
Pentachloronitrobenzene	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
Pentachlorophenol	55	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
Phenanthrene	1,000	52	5.3	57	5.7	5.8
Phenol	1,000	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
Pyrene	1,000	44	10	73	11	6.5
Pyridine	NS	4.3 U	0.92 U	0.85 U	0.84 U	0.44 U
Total Confident Conc.		418	71.0	506.4	63.6	38.9
Total Estimated Conc. (TICs)		0	0	0	0	0

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
All units are milligrams per kilogram (mg/kg) - parts per millio(ppm)
NS = No standard available
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial

TABLE 4-4

UST SOIL ANALYTICAL RESULTS - METALs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	UST-E	UST-W	UST-BOT	UST-NE	UST-NW	UST-SE
		UST-E	UST-W	UST-BOT	UST-NE	UST-NW	UST-SE
Date		6/8/2012	6/8/2012	6/8/2012	6/8/2012	6/8/2012	6/8/2012
Total Metals (mg/kg) - Method 6010B							
Arsenic	16	**24**	8.4	**26**	**46**	14	2.9 U
Barium	10,000	2,500	480	330	360	520	330
Cadmium	60	20	5.6	3.9	2.1	8.2	1.9
Chromium	6,800	160	81	31	20	120	31
Copper	10,000	NA	NA	NA	NA	NA	NA
Lead	3,900	**5,800**	1,900	790	**610**	2,300	700
Mercury	5.7	2.3	3	1.2	0.87	0.62	0.34
Nickel	10,000	NA	NA	NA	NA	NA	NA
Selenium	6,800	6.3 U	5.8 U	5.7 U	5.9 U	5.2 U	5.7 U
Silver	6,800	2.5	0.82	1	0.59 U	0.57 U	0.57 U
Zinc	10,000	NA	NA	NA	NA	NA	NA

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	UST-SW	UST-2-N	UST-2-E	UST-2-W	UST-2-S	UST-2-BOT
		UST-SW	UST-2-N	UST-2-E	UST-2-W	UST-2-S	UST-2-BOT
Date		6/8/2012	12/27/2012	12/27/2012	12/27/2012	12/27/2012	12/27/2012
Total Metals (mg/kg) - Method 6010B							
Arsenic	16	2.9 U	10	8.3	5.7	3 U	5
Barium	10,000	380	550	990	310	390	130
Cadmium	60	3.2	4.5	8	3.4	5.8	2.4
Chromium	6,800	49	59	130	47	48	18
Copper	10,000	NA	NA	NA	NA	NA	NA
Lead	3,900	1,000	1,700	2,500	720	1700	240
Mercury	5.7	3	4	4.7	2.1	3.8	1.8
Nickel	10,000	NA	NA	NA	NA	NA	NA
Selenium	6,800	5.9 U	6 U	6.5 U	6.1 U	12 U	6.3 U
Silver	6,800	13	0.8	1.6	0.61 U	1.2	0.63 U
Zinc	10,000	NA	NA	NA	NA	NA	NA

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
NS = No standard available
NA = Not Analyzed
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the RCRA/NYSDEC Hazardous Waste Regulatory Levels

TABLE 4-4

UST SOIL ANALYTICAL RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	UST-E	UST-W	UST-BOT	UST-NE	UST-NW	UST-SE
		UST-E	UST-W	UST-BOT	UST-NE	UST-NW	UST-SE
Date		6/8/2012	6/8/2012	6/8/2012	6/8/2012	6/8/2012	6/8/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	2.5 U	2.3 U	4.9 U	0.12 U	0.11 U	1.2 U
Aroclor 1221	25*	2.5 U	2.3 U	4.9 U	0.12 U	0.11 U	1.2 U
Aroclor 1232	25*	2.5 U	2.3 U	4.9 U	0.12 U	0.11 U	1.2 U
Aroclor 1242	25*	2.5 U	2.3 U	4.9 U	0.12 U	0.11 U	1.2 U
Aroclor 1248	25*	2.7	3.7	8.6	0.13	0.14 J	2
Aroclor 1254	25*	5	7.9	13	0.77	0.33	4.6
Aroclor 1260	25*	2.6	3.9	7.1	1.4	0.19	1.2 U
Aroclor 1262	25*	2.5 U	2.3 U	4.9 U	0.12 U	0.11 U	1.2 U
Aroclor 1268	25*	2.5 U	2.3 U	4.9 U	0.12 U	0.11 U	1.2 U
Total Arochlors	25*	10.3	15.5	**28.7**	2.3	0.66 J	6.6

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	UST-SW	UST-2-N	UST-2-E	UST-2-W	UST-2-S	UST-2-BOT
		UST-SW	UST-2-N	UST-2-E	UST-2-W	UST-2-S	UST-2-BOT
Date		6/8/2012	12/27/2012	12/27/2012	12/27/2012	12/27/2012	12/27/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	4.8 U	1.3 U	1.4 U	1.2 U	1.2 U	0.13 U
Aroclor 1221	25*	4.8 U	1.3 U	1.4 U	1.2 U	1.2 U	0.13 U
Aroclor 1232	25*	4.8 U	1.3 U	1.4 U	1.2 U	1.2 U	0.13 U
Aroclor 1242	25*	4.8 U	1.3 U	1.4 U	1.2 U	1.2 U	0.13 U
Aroclor 1248	25*	16 J	1.8	3.6	2.5	1.9	0.13 U
Aroclor 1254	25*	17	3.4	7.5	2.8	7.1	0.24
Aroclor 1260	25*	4.8 U	1.4	3	1.2 U	2.4	0.13 U
Aroclor 1262	25*	4.8 U	1.3 U	1.4 U	1.2 U	1.2 U	0.13 U
Aroclor 1268	25*	4.8 U	1.3 U	1.4 U	1.2 U	1.2 U	0.13 U
Total Arochlors	25*	**33 J**	6.6	14.1	5.3	11.4	0.24

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total arochlors
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial

TABLE 4-5

ENDPOINT SAMPLE RESULTS - METALS
Site-Specific SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	A1-S2	A1-BOT	A1-N1	A1-N2		
		A1-S2 (84-86)	A3-BOT (144-150)	A1-N1 (12-14)	A1-N2 (84-86)		
Date		3/12/2012	3/15/2012	4/12/2012	4/16/2012		
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	7.3	27.0	67.0	42.0		
Lead	10,000	NR	NR	NR	NR		
Mercury	15	NR	NR	NR	NR		

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	A2-E1	A2-E2	A2-BOT			
		A2-E1 (12-14)	A2-E2 (36-38)	A2-BOT (48-54)			
Date		3/8/2012	3/8/2012	3/8/2012			
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	15.0	3.3	23.0			
Lead	10,000	1,800	910	6,300			
Mercury	15	NR	NR	NR			

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	A3-S1	A3-S2	A3-E1	A3-E2	A3-BOT	
		A3-S1 (12-14)	A3-S2 (36-38)	A3-E1 (12-14)	A3-E2 (36-38)	A3-BOT (48-54)	
Date		3/2/2012	3/2/2012	3/2/2012	3/2/2012	3/5/2012	
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	4.0	2.7 U	13.0	6.0	2.7 U	
Lead	10,000	NR	NR	NR	NR	NR	
Mercury	15	NR	NR	NR	NR	NR	

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
NR = Not analyzed
NS - No standrad available
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Site-Specific SCOs

TABLE 4-5

ENDPOINT SAMPLE RESULTS - METALS
Site-Specific SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	B1-N1	B1-E1	B1-E2	B1-S1	B1-S2	B1-BOT
		B1-N1 (12-14)	B1-E1 (12-14)	B1-E2 (72-74)	B1-S1 (12-14)	B1-S2 (72-74)	B1-BOT (120-126)
Date		5/7/2012	5/7/2012	5/7/2012	5/7/2012	5/7/2012	5/7/2012
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	12.0	56.0	20.0	34.0	6.7	18.0
Lead	10,000	NR	NR	NR	NR	NR	NR
Mercury	15	NR	NR	NR	NR	NR	NR

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	B1-N2	B5-N1	B5-N2	B5-S1	B5-S2	B5-E1
		B1-N2 (72-74)	B5-N1 (12-14)	B5-N2 (84-86)	B5-S1 (12-14)	B5-S2 (84-86)	B5-E1 (12-14)
Date		5/14/2012	1/31/2013	1/31/2013	6/21/2012	6/21/2012	1/31/2013
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	15.0	NR	NR	NR	NR	NR
Lead	10,000	NR	NR	NR	NR	NR	NR
Mercury	15	NR	6.2	3.7	4.2	5.3	10

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	B5-E2	B5-W1	B5-W2	B5-BOT		
		B5-E2 (84-86)	B5-W1 (12-14)	B5-W2 (84-86)	B5-BOT (132-138)		
Date		1/31/2013	1/31/2013	1/31/2013	2/1/2013		
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	NR	NR	NR	NR		
Lead	10,000	NR	NR	NR	NR		
Mercury	15	3.4	6.4	4.17	0.33		

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
NR = Not analyzed
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J = Estimated Value
Values in **bold** exceed the NYSDEC Site-Specific SCOs

TABLE 4-5

ENDPOINT SAMPLE RESULTS - METALS
Site-Specific SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	C5-S1	C5-S2	C5-N2	C5-S1-2		
		C5-S1 (12-14)	C5-S2 (60-62)	C5-N2 (60-62)	C5-S1-2 (12-14)		
Date		5/2/2012	5/2/2012	5/2/2012	6/20/2012		
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	39.0	11.0	9.3	NR		
Lead	10,000	9,700	9,100	1,100	NR		
Mercury	15	**18**	6.8	2.7	**18**		

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives						
Date							
Total Metals (mg/kg) - Method 6010B							
Arsenic	100						
Lead	10,000						
Mercury	15						

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives						
Date							
Total Metals (mg/kg) - Method 6010B							
Arsenic	100						
Lead	10,000						
Mercury	15						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
NR = Not analyzed
NS - No standrad available
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Site-Specific SCOs

TABLE 4-5

ENDPOINT SAMPLE RESULTS - METALS
Site-Specific SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	D3-S1	D3-S2	D3-E1	D3-E2	D3-W1	D3-W2
		D3-S1 (12-14)	D3-S2 (54-56)	D3-E1 (12-14)	D3-E2 (54-56)	D3-W1 (12-14)	D3-W2 (54-56)
Date		6/8/2012	6/8/2012	6/8/2012	6/8/2012	6/8/2012	6/8/2012
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	NR	NR	NR	NR	NR	NR
Lead	10,000	8,900 J	4,900 J	2,600 J	3,700 J	4,900 J	2,500 J
Mercury	15	NR	NR	NR	NR	NR	NR

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	D3-BOT					
		D3-BOT (84-90)					
Date		6/8/2012					
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	NR					
Lead	10,000	69 J					
Mercury	15	NR					

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives						
Date							
Total Metals (mg/kg) - Method 6010B							
Arsenic	100						
Lead	10,000						
Mercury	15						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
NR = Not analyzed
NS - No standrad available
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Site-Specific SCOs

TABLE 4-5

ENDPOINT SAMPLE RESULTS - METALS
Site-Specific SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	D5-N1	D5-N2	D5-S1	D5-S2	D5-E1	D5-E2
		D5-N1 (12-14)	D5-N2 (54-56)	D5-S1 (12-14)	D5-S2 (54-56)	D5-E1 (12-14)	D5-E2 (54-56)
Date		4/30/2012	4/30/2012	4/30/2012	4/30/2012	4/30/2012	4/30/2012
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	NR	NR	7.5	3.2 U	NR	NR
Lead	10,000	1,700	**15,000**	3,800	8,300	6,700	**12,000**
Mercury	15	2.9	11	8.7	13	9.6	9.1

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	D5-BOT	D5-N2-1	D5-E2-1	D5-N2-2	D5-N2-3	D5-N2-4
		D5-BOT (84-90)	D5-N2-1 (54-56)	D5-E2-1 (54-56)	D5-N2-2 (54-56)	D5-N2-3 (54-56)	D5-N2-4 (54-56)
Date		4/30/2012	5/3/2012	5/3/2012	5/7/2012	5/14/2012	5/17/2012
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	NR	NR	NR	NR	NR	NR
Lead	10,000	76 J	**11,000**	4,900	**20,000**	**14,000**	9,900 J
Mercury	15	0.12 J	NR	NR	NR	NR	NR

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives						
Date							
Total Metals (mg/kg) - Method 6010B							
Arsenic	100						
Lead	10,000						
Mercury	15						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
NR = Not analyzed
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J = Estimated Value
Values in **bold** exceed the NYSDEC Site-Specific SCOs

TABLE 4-5

ENDPOINT SAMPLE RESULTS - METALS
Site-Specific SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	E1D-N1	E1D-N2	E1D-S1	E1D-S2	E1D-E1	E1D-E2
		E1D-N1 (12-14)	E1D-N2 (60-62)	E1D-S1 (12-14)	E1D-S2 (60-62)	E1D-E1 (12-14)	E1D-E2 (60-62)
Date		5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	NR	NR	NR	NR	NR	NR
Lead	10,000	980 J	6,400 J	560 J	4,300 J	3,900 J	3,000 J
Mercury	15	NR	NR	NR	NR	NR	NR

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	E1D-W1	E1D-W2	E1D-BOT			
		E1D-W1 (12-14)	E1D-W2 (60-62)	E1D-BOT (96-102)			
Date		5/17/2012	5/17/2012	5/17/2012			
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	NR	NR	NR			
Lead	10,000	2,200 J	2,500 J	130 J			
Mercury	15	NR	NR	NR			

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives						
Date							
Total Metals (mg/kg) - Method 6010B							
Arsenic	100						
Lead	10,000						
Mercury	15						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
NR = Not analyzed
NS - No standrad available
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D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Site-Specific SCOs

TABLE 4-5

ENDPOINT SAMPLE RESULTS - METALS
Site-Specific SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	E4B-E1	E4B-W1	E4B-W2	E4B-E2	E4B-N2	E4B-BOT
		E4B-E1 (12-14)	E4B-W1 (12-14)	E4B-W2 (60-62)	E4B-E2 (60-62)	E4B-N2 (60-62)	E4B-BOT (96-102)
Date		3/19/2012	3/19/2012	3/19/2012	3/20/2012	3/20/2012	3/22/2012
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	NR	NR	NR	NR	NR	NR
Lead	10,000	4,400	1,500	**14,000**	9,400	5,600	5,300 J
Mercury	15	NR	NR	NR	NR	NR	NR

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	E4B-W2-1		E4C-BOT-1			
		E4B-W2-1 (60-62)		E4C-BOT-1 (78-84)			
Date		3/23/2012		5/1/2012			
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	NR		NR			
Lead	10,000	5,600		9,000			
Mercury	15	NR		NR			

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	E4D-S1	E4D-S2	E4D-W2	E4D-BOT		
		E4D-S1 (12-14)	E4D-S2 (60-62)	E4D-W2 (60-62)	E4D-BOT (96-102)		
Date		4/25/2012	4/25/2012	4/25/2012	4/25/2012		
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	NR	NR	NR	NR		
Lead	10,000	2,800	9,200	**16,000**	2,200		
Mercury	15	NR	NR	NR	NR		

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
NR = Not analyzed
NS - No standrad available
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D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Site-Specific SCOs

TABLE 4-5

ENDPOINT SAMPLE RESULTS - METALS
Site-Specific SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	F4-N1	F4-N2	F4-S1	F4-S2	F4-E1	F4-E2
		F4-N1 (12-14)	F4-N2 (72-74)	F4-S1 (12-14)	F4-S2 (72-74)	F4-E1 (12-14)	F4-E2 (72-74)
Date		4/26/2012	4/27/2012	4/26/2012	4/27/2012	4/26/2012	4/27/2012
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	NR	NR	NR	NR	NR	NR
Lead	10,000	32	870	1,600	3,400	1,600	1,500
Mercury	15	NR	NR	NR	NR	NR	NR

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	F4-BOT					
		F4-BOT (120-126)					
Date		4/27/2012					
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	NR					
Lead	10,000	1,200					
Mercury	15	NR					

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives						
Date							
Total Metals (mg/kg) - Method 6010B							
Arsenic	100						
Lead	10,000						
Mercury	15						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
NR = Not analyzed
NS - No standrad available
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Site-Specific SCOs

TABLE 4-5

ENDPOINT SAMPLE RESULTS - METALS
Site-Specific SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	H4D-N1	H4D-N2	H4D-S1	H4D-S2	H4D-E1	H4D-E2
		H4D-N1 (12-14)	H4D-N2 (42-44)	H4D-S1 (12-14)	H4D-S2 (42-44)	H4D-E1 (12-14)	H4D-E2 (42-44)
Date		5/10/2012	5/10/2012	5/10/2012	5/10/2012	5/10/2012	5/10/2012
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	NR	NR	NR	NR	NR	NR
Lead	10,000	1,700	2,800	2,400	1,400	2,700	3,000
Mercury	15	NR	NR	NR	NR	NR	NR

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	H4D-BOT					
		H4D-BOT (60-66)					
Date		5/10/2012					
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	NR					
Lead	10,000	510					
Mercury	15	NR					

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	H3D-E1-7					
		H3D-E1-7 (12-14)					
Date		5/15/2012					
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	4.9					
Lead	10,000	2,600					
Mercury	15	11					

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
NR = Not analyzed
NS - No standrad available
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J = Estimated Value
Values in **bold** exceed the NYSDEC Site-Specific SCOs

TABLE 4-5

ENDPOINT SAMPLE RESULTS - METALS
Site-Specific SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	J5-N1	J5-N2	J5-S1	J5-S2	J5-E1	J5-E2
		J5-N1 (12-14)	J5-N2 (60-62)	J5-S1 (12-14)	J5-S2 (60-62)	J5-E1 (12-14)	J5-E2 (60-62)
Date		2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/16/2012
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	NR	NR	NR	NR	NR	NR
Lead	10,000	2,810	2,450	2,240	1,950	2,270	3,750
Mercury	15	NR	NR	NR	NR	NR	NR

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	J5-W1	J5-W2	J5-BOT			
		J5-W1 (12-14)	J5-W2 (60-62)	J5-BOT (96-102)			
Date		2/16/2012	2/16/2012	2/17/2012			
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	NR	NR	NR			
Lead	10,000	3,030	2,860	1,460			
Mercury	15	NR	NR	NR			

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives						
Date							
Total Metals (mg/kg) - Method 6010B							
Arsenic	100						
Lead	10,000						
Mercury	15						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
NR = Not analyzed
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J = Estimated Value
Values in **bold** exceed the NYSDEC Site-Specific SCOs

TABLE 4-5

ENDPOINT SAMPLE RESULTS - METALS
Site-Specific SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	SB-58	SB-58	SB-59	SB-59	SB-60	SB-60
		SB-58 (0-2)	SB-58 (2-4)	SB-59 (0-2)	SB-59 (2-4)	SB-60 (0-2)	SB-60 (2-4)
Date		5/15/2012	5/15/2012	5/15/2012	5/15/2012	5/15/2012	5/15/2012
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	3.7	3.4 J	3.3 J	4.8	3.0 J	3.6
Lead	10,000	2,500	2,800	1,500	2,400	3,000	4,400
Mercury	15	**15**	**20**	4.5	4.2	10	10

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	SB-58-1					
		SB-58-1 (2-4)					
Date		6/1/2012					
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	NR					
Lead	10,000	NR					
Mercury	15	6					

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives						
Date							
Total Metals (mg/kg) - Method 6010B							
Arsenic	100						
Lead	10,000						
Mercury	15						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
NR = Not analyzed
NS - No standrad available
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J = Estimated Value
Values in **bold** exceed the NYSDEC Site-Specific SCOs

TABLE 4-5

ENDPOINT SAMPLE RESULTS - METALS
Site-Specific SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives	DUP-3	DUP-4	DUP-8	DUP-9	DUP-11	
		DUP-3 (A3-E1)	DUP-4 (E4B-BOT)	DUP-8 (E4D-S1)	DUP-9 (D5-BOT)	DUP-11 (E1D-N2)	
Date		3/2/2012	3/22/2012	4/25/2012	4/30/2012	5/17/2012	
Total Metals (mg/kg) - Method 6010B							
Arsenic	100	2.8	NR	NR	NR	NR	
Lead	10,000	NR	3,600 J	1,100	720 J	**12,000** J	
Mercury	15	NR	NR	NR	0.65 J	NR	

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives						
Date							
Total Metals (mg/kg) - Method 6010B							
Arsenic	100						
Lead	10,000						
Mercury	15						

Compound	NYSDEC Approved Site-Specific Soil Cleanup Objectives						
Date							
Total Metals (mg/kg) - Method 6010B							
Arsenic	100						
Lead	10,000						
Mercury	15						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
NR = Not analyzed
NS - No standrad available
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Site-Specific SCOs

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	B5-S1	B5-S2	B5-N1	B5-N2	B5-E1	B5-E2
		B5-S1 (12-14)	B5-S2 (84-86)	B5-N1 (12-14)	B5-N2 (84-86)	B5-E1 (12-14)	B5-E2 (84-86)
Date		6/21/2012	6/21/2012	1/31/2013	1/31/2013	1/31/2013	1/31/2013
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	1.2 U	1.2 U	0.49 U	0.53 U	5.1 U	0.46 U
Aroclor 1221	25*	1.2 U	1.2 U	0.49 U	0.53 U	5.1 U	0.46 U
Aroclor 1232	25*	1.2 U	1.2 U	0.49 U	0.53 U	5.1 U	0.46 U
Aroclor 1242	25*	1.2 U	1.2 U	0.49 U	0.53 U	5.1 U	0.46 U
Aroclor 1248	25*	1.2 U	1.7	1.4	0.85	8.6	0.87
Aroclor 1254	25*	3	3.4	4.1	1.9	12	1.2
Aroclor 1260	25*	1.8	1.5	1.9	0.84	5.1 U	0.46 U
Aroclor 1262	25*	1.2 U	1.2 U	0.49 U	0.53 U	5.1 U	0.46 U
Aroclor 1268	25*	1.2 U	1.2 U	0.49 U	0.53 U	5.1 U	0.46 U
Total Arochlors	25*	4.8	6.6	7.4	3.59	20.6	2.07

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	B5-W1	B5-W2	B5-BOT			
		B5-W1 (12-14)	B5-W2 (84-86)	B5-BOT (132-138)			
Date		1/31/2013	1/31/2013	2/1/2013			
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	0.46 U	0.45 U	0.13 U			
Aroclor 1221	25*	0.46 U	0.45 U	0.13 U			
Aroclor 1232	25*	0.46 U	0.45 U	0.13 U			
Aroclor 1242	25*	0.46 U	0.45 U	0.13 U			
Aroclor 1248	25*	1.6 J	1.7	0.13 U			
Aroclor 1254	25*	3.4	1.8	0.13 U			
Aroclor 1260	25*	1.4	0.67	0.13 U			
Aroclor 1262	25*	0.46 U	0.45 U	0.13 U			
Aroclor 1268	25*	0.46 U	0.45 U	0.13 U			
Total Arochlors	25*	6.4 J	4.17	0.13 U			

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	C5-N1	C5-N2	C5-S1	C5-S2	C5-W1	C5-W2
		C5-N1 (12-14)	C5-N2 (60-62)	C5-S1 (12-14)	C5-S2 (60-62)	C5-W1 (12-14)	C5-W2 (60-62)
Date		5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.6 U	4.4 U	5.6 U	5.3 U	4.6 U	5.0 U
Aroclor 1221	25*	4.6 U	4.4 U	5.6 U	5.3 U	4.6 U	5.0 U
Aroclor 1232	25*	4.6 U	4.4 U	5.6 U	5.3 U	4.6 U	5.0 U
Aroclor 1242	25*	4.6 U	4.4 U	5.6 U	5.3 U	4.6 U	5.0 U
Aroclor 1248	25*	5.4	8.2	15	**28**	6.3	**26**
Aroclor 1254	25*	8.9	10	**29**	22	7.4	**40**
Aroclor 1260	25*	4.6 U	4.4 U	9.3	7.5	4.6 U	17
Aroclor 1262	25*	4.6 U	4.4 U	5.6 U	5.3 U	4.6 U	5.0 U
Aroclor 1268	25*	4.6 U	4.4 U	5.6 U	5.3 U	4.6 U	5.0 U
Total Arochlors	25*	14.3	18.2	**53.3**	**57.5**	13.7	**83.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	C5-BOT	C5-S1-1	C5-S2-1	C5-S1-2	C5-S2-2	C5-S1-3
		C5-BOT (96-102)	C5-S1-1 (12-14)	C5-S2-1 (60-62)	C5-S1-2 (12-14)	C5-S2-2 (60-62)	C5-S1-3 (12-14)
Date		5/2/2012	6/1/2012	6/1/2012	6/20/2012	6/20/2012	6/20/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	0.12 U	4.8 U	4.7 U	4.9 U	4.7 U	4.4 U
Aroclor 1221	25*	0.12 U	4.8 U	4.7 U	4.9 U	4.7 U	4.4 U
Aroclor 1232	25*	0.12 U	4.8 U	4.7 U	4.9 U	4.7 U	4.4 U
Aroclor 1242	25*	0.12 U	4.8 U	4.7 U	4.9 U	4.7 U	4.4 U
Aroclor 1248	25*	0.12 U	14	8.5	18 J	13	14
Aroclor 1254	25*	0.12 U	**26**	14	16	22	9
Aroclor 1260	25*	0.12 U	7.4	5.3	5.1	5.4	4.4 U
Aroclor 1262	25*	0.12 U	4.7 U	4.7 U	4.9 U	4.7 U	4.4 U
Aroclor 1268	25*	0.12 U	4.7 U	4.7 U	4.9 U	4.7 U	4.4 U
Total Arochlors	25*	0.12 U	**47.4**	**27.8**	**39.1 J**	**40.4**	23.0

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	C5-S2-3	C5-S1/S2-3				
		C5-S2-3 (60-62)	C5-S1/S2-3 (96-102)				
Date		6/20/2012	7/25/2012				
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.8 U	0.12 U				
Aroclor 1221	25*	4.8 U	0.12 U				
Aroclor 1232	25*	4.8 U	0.12 U				
Aroclor 1242	25*	4.8 U	0.12 U				
Aroclor 1248	25*	15	0.12 U				
Aroclor 1254	25*	**25**	0.12 U				
Aroclor 1260	25*	7.2	0.12 U				
Aroclor 1262	25*	4.8 U	0.12 U				
Aroclor 1268	25*	4.8 U	0.12 U				
Total Arochlors	25*	**47.2**	0.12 U				

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	D2-N1	D2-S1	D2-E1	D2-W1	D2-E1-1	D2-S1-1
		D2-N1 (12-14)	D2-S1 (12-14)	D2-E1 (12-14)	D2-W1 (12-14)	D2-E1-1 (12-14)	D2-S1-1 (12-14)
Date		2/23/2012	2/23/2012	2/23/2012	2/23/2012	3/5/2012	3/5/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.17 U	1.8 U	0.84 U	0.17 U	14 U	15 U
Aroclor 1221	25*	0.26 U	2.8 U	1.3 U	0.27 U	14 U	15 U
Aroclor 1232	25*	0.49 U	5.3 U	2.5 U	0.51 U	14 U	15 U
Aroclor 1242	25*	0.16 U	1.8 U	0.83 U	0.17 U	14 U	15 U
Aroclor 1248	25*	**11**	**110**	**60 J**	5.3 J	**100**	**120**
Aroclor 1254	25*	0.3 U	3.2 U	1.5 U	0.3 U	**49**	**83**
Aroclor 1260	25*	0.097 U	1.0 U	0.49 U	0.099 U	14 U	20
Aroclor 1262	25*	0.15 U	1.6 U	0.76 U	0.15 U	14 U	15 U
Aroclor 1268	25*	0.15 U	1.6 U	0.76 U	0.15 U	14 U	15 U
Total Arochlors	25*	**11.0**	**110.0**	**60 J**	5.3 J	**149.0**	**223.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	D2-N1-1	D2-N1-2	D2-S1-2	D2-E1-2	D2-BOT	D2-N2
		D2-N1-1 (12-14)	D2-N1-2 (12-14)	D2-S1-2 (12-14)	D2-E1-2 (12-14)	D2-BOT (60-66)	D2-N2 (42-44)
Date		3/8/2012	3/9/2012	3/9/2012	3/9/2012	3/12/2012	3/12/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	11 U	0.14 U	5.2 U	6.0 U	0.11 U	4.9 U
Aroclor 1221	25*	11 U	0.14 U	5.2 U	6.0 U	0.11 U	4.9 U
Aroclor 1232	25*	11 U	0.14 U	5.2 U	6.0 U	0.11 U	4.9 U
Aroclor 1242	25*	11 U	0.14 U	5.2 U	6.0 U	0.11 U	4.9 U
Aroclor 1248	25*	**120**	1	**19**	**14**	0.11 U	**10**
Aroclor 1254	25*	**84**	1.4	**14**	7.2	0.44	**12**
Aroclor 1260	25*	11 U	0.42 J	5.4 J	6.0 U	0.62	8.6
Aroclor 1262	25*	11 U	0.14 U	5.2 U	6.0 U	0.11 U	4.9 U
Aroclor 1268	25*	11 U	0.14 U	5.2 U	6.0 U	0.11 U	4.9 U
Total Arochlors	25*	**204.0**	2.82 J	**38.4 J**	**21.2**	1.06	**30.6**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	D2-S2	D2-E2	D2-W2	D2-S1-3	D2-W2-1	D2-W2-2
		D2-S2 (42-44)	D2-E2 (42-44)	D2-W2 (42-44)	D2-S1-3 (42-44)	D2-W2-1 (42-44)	D2-W2-2 (42-44)
Date		3/12/2012	3/12/2012	3/12/2012	3/14/2012	3/14/2012	3/20/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.12 U	0.12 U	4.8 U	1.3 U	4.6 U	4.8 U
Aroclor 1221	25*	0.12 U	0.12 U	4.8 U	1.3 U	4.6 U	4.8 U
Aroclor 1232	25*	0.12 U	0.12 U	4.8 U	1.3 U	4.6 U	4.8 U
Aroclor 1242	25*	0.12 U	0.12 U	4.8 U	1.3 U	4.6 U	4.8 U
Aroclor 1248	25*	0.92	0.87	4.8 U	4.3	**27**	**34**
Aroclor 1254	25*	1.1	1.4	**11**	9 J	**17**	**33**
Aroclor 1260	25*	0.5	0.98	**13**	7.2	6.9 J	**50**
Aroclor 1262	25*	0.12 U	0.12 U	4.8 U	1.3 U	4.6 U	4.8 U
Aroclor 1268	25*	0.12 U	0.12 U	4.8 U	1.3 U	4.6 U	4.8 U
Total Arochlors	25*	2.52	3.25	**24.0**	**20.5 J**	**50.9 J**	**117.0**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	D2-W2-3					
		D2-W2-3 (42-44)					
Date		3/23/2012					
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.6 U					
Aroclor 1221	25*	4.6 U					
Aroclor 1232	25*	4.6 U					
Aroclor 1242	25*	4.6 U					
Aroclor 1248	25*	**31**					
Aroclor 1254	25*	**26 J**					
Aroclor 1260	25*	**36**					
Aroclor 1262	25*	4.6 U					
Aroclor 1268	25*	4.6 U					
Total Arochlors	25*	**93 J**					

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg usedfor remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	D3-S1	D3-S2	D3-E1	D3-E2	D3-W1	D3-W2
		D3-S1 (12-14)	D3-S2 (54-56)	D3-E1 (12-14)	D3-E2 (54-56)	D3-W1 (12-14)	D3-W2 (54-56)
Date		6/8/2012	6/8/2012	6/8/2012	6/8/2012	6/8/2012	6/8/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	5.1 U	4.6 U	4.8 U	8.6 U	4.9 U	4.6 U
Aroclor 1221	25*	5.1 U	4.6 U	4.8 U	8.6 U	4.9 U	4.6 U
Aroclor 1232	25*	5.1 U	4.6 U	4.8 U	8.6 U	4.9 U	4.6 U
Aroclor 1242	25*	5.1 U	4.6 U	4.8 U	8.6 U	4.9 U	4.6 U
Aroclor 1248	25*	**18**	**20**	4.8 U	**71**	**35**	**13**
Aroclor 1254	25*	**30**	**31**	**10**	**58**	**57**	**13**
Aroclor 1260	25*	**10**	8.2	7.4	**12**	**15**	4.6 U
Aroclor 1262	25*	5.1 U	4.6 U	4.8 U	8.6 U	4.9 U	4.6 U
Aroclor 1268	25*	5.1 U	4.6 U	4.8 U	8.6 U	4.9 U	4.6 U
Total Arochlors	25*	**58.0**	**59.2**	**17.4**	**141.0**	**107.0**	**26.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	D3-BOT	D3-S1-1	D3-S2-1	D3-E1-1	D3-E2-1	D3-W1-1
		D3-BOT (84-90)	D3-S1-1 (12-14)	D3-S2-1 (54-56)	D3-E1-1 (12-14)	D3-E2-1 (54-56)	D3-W1-1 (12-14)
Date		6/8/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	0.11 U	4.4 U	49 U	4.9 U	5.1 U	5.1 U
Aroclor 1221	25*	0.11 U	4.4 U	49 U	4.9 U	5.1 U	5.1 U
Aroclor 1232	25*	0.11 U	4.4 U	49 U	4.9 U	5.1 U	5.1 U
Aroclor 1242	25*	0.11 U	4.4 U	49 U	4.9 U	5.1 U	5.1 U
Aroclor 1248	25*	0.11 U	6.2	**290**	**23**	5.7	**40**
Aroclor 1254	25*	0.11 U	4.4 U	49 U	**18**	5.1 U	**25**
Aroclor 1260	25*	0.11 U	4.4 U	49 U	4.9 U	5.1 U	7.7
Aroclor 1262	25*	0.11 U	4.4 U	49 U	4.9 U	5.1 U	5.1 U
Aroclor 1268	25*	0.11 U	4.4 U	48 U	4.9 U	5.1 U	5.1 U
Total Arochlors	25*	0.11 U	6.2	**290.0**	**41.0**	5.7	**72.7**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	D3-W2-1	D3-S2-2	D3-E1-2	D3-W1-2	D3-S2-3	D3-W1-3
		D3-W2-1 (54-56)	D3-S2-2 (54-56)	D3-E1-2 (12-14)	D3-W1-2 (12-14)	D3-S2-3 (54-56)	D3-W1-3 (12-14)
Date		6/13/2012	6/15/2012	6/15/2012	6/15/2012	6/21/2012	6/21/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.52 U	4.8 U	4.8 U	4.6 U	9.8 U	4.8 U
Aroclor 1221	25*	0.52 U	4.8 U	4.8 U	4.6 U	9.8 U	4.8 U
Aroclor 1232	25*	0.52 U	4.8 U	4.8 U	4.6 U	9.8 U	4.8 U
Aroclor 1242	25*	0.52 U	4.8 U	4.8 U	4.6 U	9.8 U	4.8 U
Aroclor 1248	25*	1.2	**31**	8.7	6.8	**46**	4.8 U
Aroclor 1254	25*	1.6	**33**	7.1	7.2	**31**	**20**
Aroclor 1260	25*	0.52 U	4.8 U	4.8 U	4.6 U	9.8 U	5.9
Aroclor 1262	25*	0.52 U	4.8 U	4.8 U	4.6 U	9.8 U	4.8 U
Aroclor 1268	25*	0.52 U	4.8 U	4.8 U	4.6 U	9.8 U	4.8 U
Total Arochlors	25*	2.8	**64.0**	**15.8**	**14.0**	**77.0**	**25.9**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	D3-W1-4					
		D3-W1-4 (12-14)					
Date		6/25/2012					
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	9.5 U					
Aroclor 1221	25*	9.5 U					
Aroclor 1232	25*	9.5 U					
Aroclor 1242	25*	9.5 U					
Aroclor 1248	25*	**50**					
Aroclor 1254	25*	**12**					
Aroclor 1260	25*	9.5 U					
Aroclor 1262	25*	9.5 U					
Aroclor 1268	25*	9.5 U					
Total Arochlors	25*	**62.0**					

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	D5-N1	D5-N2	D5-S1	D5-S2	D5-E1	D5-E2
		D5-N1 (12-14)	D5-N2 (54-56)	D5-S1 (12-14)	D5-S2 (54-56)	D5-E1 (12-14)	D5-E2 (54-56)
Date		4/30/2012	4/30/2012	4/30/2012	4/30/2012	4/30/2012	4/30/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.4 U	9.9 U	4.9 U	26 U	5.0 U	9.9 U
Aroclor 1221	25*	4.4 U	9.9 U	4.9 U	26 U	5.0 U	9.9 U
Aroclor 1232	25*	4.4 U	9.9 U	4.9 U	26 U	5.0 U	9.9 U
Aroclor 1242	25*	4.4 U	9.9 U	4.9 U	26 U	5.0 U	9.9 U
Aroclor 1248	25*	6.8	**51**	12 J	**120**	**33**	**53**
Aroclor 1254	25*	6.1	**34**	15	**45**	**32**	**48**
Aroclor 1260	25*	4.4 U	9.9 U	4.9 U	26 U	6.5	11
Aroclor 1262	25*	4.4 U	9.9 U	4.9 U	26 U	5.0 U	9.9 U
Aroclor 1268	25*	4.4 U	9.9 U	4.9 U	26 U	5.0 U	9.9 U
Total Arochlors	25*	12.9	**85.0**	**27 J**	**165.0**	**71.5**	**112.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	D5-BOT	D5-N2-1	D5-E1-1	D5-E2-1	D5-S1-1	D5-S2-1
		D5-BOT (84-90)	D5-N2-1 (54-56)	D5-E1-1 (12-14)	D5-E2-1 (54-56)	D5-S1-1 (12-14)	D5-S2-1 (54-56)
Date		4/30/2012	5/3/2012	5/3/2012	5/3/2012	6/1/2012	6/1/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	0.11 U	4.9 U	1.2 U	5.6 U	5.2 U	5.0 U
Aroclor 1221	25*	0.11 U	4.9 U	1.2 U	5.6 U	5.2 U	5.0 U
Aroclor 1232	25*	0.11 U	4.9 U	1.2 U	5.6 U	5.2 U	5.0 U
Aroclor 1242	25*	0.11 U	4.9 U	1.2 U	5.6 U	5.2 U	5.0 U
Aroclor 1248	25*	0.11 U	**34**	3.9	**36**	**41 J**	**38 J**
Aroclor 1254	25*	0.11 U	**25**	3.4	**30**	**64**	**47**
Aroclor 1260	25*	0.11 U	6.7	1.2 U	6.9	11 J	9.4 J
Aroclor 1262	25*	0.11 U	4.9 U	1.2 U	5.6 U	5.2 U	5.0 U
Aroclor 1268	25*	0.11 U	4.9 U	1.2 U	5.6 U	5.2 U	5.0 U
Total Arochlors	25*	0.11 U	**65.7**	7.3	**72.9**	**116 J**	**94.4 J**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	D5-S1-2	D5-S2-2	D5-S1-3	D5-S2-3	D5-S1/S2-3	
		D5-S1-2 (12-14)	D5-S2-2 (54-56)	D5-S1-3 (12-14)	D5-S2-3 (54-56)	D5-S1/S2-3 (96-102)	
Date		6/20/2012	6/20/2012	6/20/2012	6/20/2012	7/25/2012	
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	5.0 U	5.3 U	4.8 U	5.2 U	0.11 U	
Aroclor 1221	25*	5.0 U	5.3 U	4.8 U	5.2 U	0.11 U	
Aroclor 1232	25*	5.0 U	5.3 U	4.8 U	5.2 U	0.11 U	
Aroclor 1242	25*	5.0 U	5.3 U	4.8 U	5.2 U	0.11 U	
Aroclor 1248	25*	13	**26**	**26 J**	**26**	0.11 U	
Aroclor 1254	25*	**26**	**54**	**48**	**25**	0.11 U	
Aroclor 1260	25*	5.0 U	10 J	4.8 U	5.6	0.11 U	
Aroclor 1262	25*	5.0 U	5.3 U	4.8 U	5.2 U	0.11 U	
Aroclor 1268	25*	5.0 U	5.3 U	4.8 U	5.2 U	0.11 U	
Total Arochlors	25*	**39.0**	**90 J**	**74 J**	**56.6**	0.11 U	

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E1A-N1	E1A-N2	E1A-S1	E1A-S2	E1A-E1	E1A-E2
		E1A-N1 (12-14)	E1A-N2 (84-86)	E1A-S1 (12-14)	E1A-S2 (84-86)	E1A-E1 (12-14)	E1A-E2 (84-86)
Date		2/24/2012	5/17/2012	2/24/2012	2/24/2012	2/24/2012	2/24/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.017 U	1.2 U	0.014 U	0.017 U	0.015 U	0.32 U
Aroclor 1221	25*	0.026 U	1.2 U	0.023 U	0.027 U	0.024 U	0.51 U
Aroclor 1232	25*	0.05 U	1.2 U	0.043 U	0.05 U	0.045 U	0.96 U
Aroclor 1242	25*	0.017 U	1.2 U	0.014 U	0.017 U	0.015 U	0.32 U
Aroclor 1248	25*	0.45	1.2 U	0.02 U	1.2	0.021 U	**23 J**
Aroclor 1254	25*	0.43	2.3	1.0	1.1	0.28	0.58 U
Aroclor 1260	25*	0.0098 U	1.2 U	0.0085 U	0.0098 U	0.0088 U	0.19 U
Aroclor 1262	25*	0.015 U	1.2 U	0.013 U	0.87	0.014 U	0.29 U
Aroclor 1268	25*	0.015 U	1.2 U	0.013 U	0.015 U	0.014 U	0.29 U
Total Arochlors	25*	0.88	2.3	1.0	3.17	0.28	**23 J**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E1A-W1	E1A-W2	E1A-BOT	E1A-E2-1	E1A-E2-2	E1A-E2-3
		E1A-W1 (12-14)	E1A-W2 (84-86)	E1A-BOT (144-150)	E1A-E2-1 (84-86)	E1A-E2-2 (84-86)	E1A-E2-3 (84-86)
Date		2/24/2012	2/24/2012	5/17/2012	5/17/2012	5/22/2012	5/31/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	0.016 U	0.017 U	0.13 U	4.7 U	5.1 U	5.0 U
Aroclor 1221	25*	0.025 U	0.026 U	0.13 U	4.7 U	5.1 U	5.0 U
Aroclor 1232	25*	0.047 U	0.05 U	0.13 U	4.7 U	5.1 U	5.0 U
Aroclor 1242	25*	0.016 U	0.017 U	0.13 U	4.7 U	5.1 U	5.0 U
Aroclor 1248	25*	1.4 J	0.023 U	0.13 U	**21**	**16**	**17**
Aroclor 1254	25*	0.85	0.04 J	0.13 U	**12**	**15**	**20**
Aroclor 1260	25*	0.0093 U	0.0098 U	0.13 U	4.7 U	5.1 U	5.0 U
Aroclor 1262	25*	0.014 U	0.015 U	0.13 U	4.7 U	5.1 U	5.0 U
Aroclor 1268	25*	0.014 U	0.015 U	0.13 U	4.7 U	5.1 U	5.0 U
Total Arochlors	25*	2.25 J	0.04 J	0.13 U	**33.0**	**31.0**	**37.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E1A-E2-4	E1A-E2-5	E1A-E2-6	E1A-E2-7	E1A-E2-8	E1A-OE1-BOT
		E1A-E2-4 (84-86)	E1A-E2-5 (84-86)	E1A-E2-6 (84-86)	E1A-E2-7 (84-86)	E1A-E2-8 (84-86)	E1A-OE1-BOT (144-150)
Date		6/5/2012	6/7/2012	6/12/2012	6/14/2012	6/21/2012	6/28/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.7 U	4.7 U	4.9 U	5.0 U	2.7 U	0.12 U
Aroclor 1221	25*	4.7 U	4.7 U	4.9 U	5.0 U	2.7 U	0.12 U
Aroclor 1232	25*	4.7 U	4.7 U	4.9 U	5.0 U	2.7 U	0.12 U
Aroclor 1242	25*	4.7 U	4.7 U	4.9 U	5.0 U	2.7 U	0.12 U
Aroclor 1248	25*	**12 J**	**20**	**38**	12	4.6	0.12 U
Aroclor 1254	25*	**20**	**18**	**17**	15	6.9	0.12 U
Aroclor 1260	25*	8.2	5.2	4.9 U	5.0 U	2.9	0.12 U
Aroclor 1262	25*	4.7 U	4.7 U	4.9 U	5.0 U	2.7 U	0.12 U
Aroclor 1268	25*	4.7 U	4.7 U	4.9 U	5.0 U	2.7 U	0.12 U
Total Arochlors	25*	**40.2 J**	**43.2**	**55.0**	**27.0**	14.4	0.12 U

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
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All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E1D-N1	E1D-N2	E1D-S1	E1D-S2	E1D-E1	E1D-E2
		E1D-N1 (12-14)	E1D-N2 (60-62)	E1D-S1 (12-14)	E1D-S2 (60-62)	E1D-E1 (12-14)	E1D-E2 (60-62)
Date		5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	2.3 U	4.9 U	4.2 U	5.0 U	4.8 U	9.9 U
Aroclor 1221	25*	2.3 U	4.9 U	4.2 U	5.0 U	4.8 U	9.9 U
Aroclor 1232	25*	2.3 U	4.9 U	4.2 U	5.0 U	4.8 U	9.9 U
Aroclor 1242	25*	2.3 U	4.9 U	4.2 U	5.0 U	4.8 U	9.9 U
Aroclor 1248	25*	6.5	**20**	**14**	9.4	**17**	**53**
Aroclor 1254	25*	6.5	6.1	6.5	**10**	**20**	**15**
Aroclor 1260	25*	2.3 U	4.9 U	4.2 U	5.0 U	4.8	9.9 U
Aroclor 1262	25*	2.3 U	4.9 U	4.2 U	5.0 U	4.8 U	9.9 U
Aroclor 1268	25*	2.3 U	4.9 U	4.2 U	5.0 U	4.8 U	9.9 U
Total Arochlors	25*	**13.0**	**26.1**	**20.5**	**19.4**	**41.8**	**68.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E1D-W1	E1D-W2	E1D-BOT	E1D-N1-1	E1D-N2-1	E1D-S1-1
		E1D-W1 (12-14)	E1D-W2 (60-62)	E1D-BOT (96-102)	E1D-N1-1 (12-14)	E1D-N2-1 (60-62)	E1D-S1-1 (12-14)
Date		5/17/2012	5/17/2012	5/17/2012	5/22/2012	5/22/2012	5/22/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	2.2 U	4.8 U	1.1 U	4.4 U	5.1 U	1.2 U
Aroclor 1221	25*	2.2 U	4.8 U	1.1 U	4.4 U	5.1 U	1.2 U
Aroclor 1232	25*	2.2 U	4.8 U	1.1 U	4.4 U	5.1 U	1.2 U
Aroclor 1242	25*	2.2 U	4.8 U	1.1 U	4.4 U	5.1 U	1.2 U
Aroclor 1248	25*	4.7	**11**	1.1 U	4.4 U	5.1 U	**11**
Aroclor 1254	25*	6.3	**11**	2.3	**48**	**17**	4.9
Aroclor 1260	25*	2.2 U	4.8 U	4.5	4.4 U	5.3	1.3
Aroclor 1262	25*	2.2 U	4.8 U	1.1 U	4.4 U	5.1 U	1.2 U
Aroclor 1268	25*	2.2 U	4.8 U	1.1 U	4.4 U	5.1 U	1.2 U
Total Arochlors	25*	**11.0**	**22.0**	6.8	**48.0**	**22.3**	**17.2**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E1D-S2-1	E1D-E1-1	E1D-E2-1	E1D-W1-1	E1D-W2-1	E1D-N1-2
		E1D-S2-1 (60-62)	E1D-E1-1 (12-14)	E1D-E2-1 (60-62)	E1D-W1-1 (12-14)	E1D-W2-1 (60-62)	E1D-N1-2 (12-14)
Date		5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/31/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.9 U	5.3 U	1.2 U	0.56 U	2.2 U	4.8 U
Aroclor 1221	25*	4.9 U	5.3 U	1.2 U	0.56 U	2.2 U	4.8 U
Aroclor 1232	25*	4.9 U	5.3 U	1.2 U	0.56 U	2.2 U	4.8 U
Aroclor 1242	25*	4.9 U	5.3 U	1.2 U	0.56 U	2.2 U	4.8 U
Aroclor 1248	25*	**14**	**19**	1.2 U	1.3	3.3	**11**
Aroclor 1254	25*	**21**	**10**	2.4	1	2.7	**12**
Aroclor 1260	25*	6.6	5.3 U	1.2 U	0.56 U	2.2 U	4.8 U
Aroclor 1262	25*	4.9 U	5.3 U	1.2 U	0.56 U	2.2 U	4.8 U
Aroclor 1268	25*	4.9 U	5.3 U	1.2 U	0.56 U	2.2 U	4.8 U
Total Arochlors	25*	**41.6**	**29.0**	2.4	2.3	6.0	**23.0**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E1D-E1-2 E1D-E1-2 (12-14)	E1D-N2-2 E1D-N2-2 (60-62)				
Date		5/31/2012	5/31/2012				
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.9 U	4.8 U				
Aroclor 1221	25*	4.9 U	4.8 U				
Aroclor 1232	25*	4.9 U	4.8 U				
Aroclor 1242	25*	4.9 U	4.8 U				
Aroclor 1248	25*	7.7 J	**20**				
Aroclor 1254	25*	8.1	**23**				
Aroclor 1260	25*	4.9 U	6.8				
Aroclor 1262	25*	4.9 U	4.8 U				
Aroclor 1268	25*	4.9 U	4.8 U				
Total Arochlors	25*	**15.8 J**	**49.8**				

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
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Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E3A-N1	E3A-N2	E3A-S1	E3A-S2	E3A-E1	E3A-E2
		E3A-N1 (12-14)	E3A-N2 (54-56)	E3A-S1 (12-14)	E3A-S2 (54-56)	E3A-E1 (12-14)	E3A-E2 (54-56)
Date		5/30/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	10 U	4.7 U	1.1 U	4.8 U	4.6 U	4.3 U
Aroclor 1221	25*	10 U	4.7 U	1.1 U	4.8 U	4.6 U	4.3 U
Aroclor 1232	25*	10 U	4.7 U	1.1 U	4.8 U	4.6 U	4.3 U
Aroclor 1242	25*	10 U	4.7 U	1.1 U	4.8 U	4.6 U	4.3 U
Aroclor 1248	25*	**56**	**29**	2.3	**16**	**25**	**31**
Aroclor 1254	25*	**23**	**19**	1.4	7.7	7.8	**15**
Aroclor 1260	25*	10 U	6.9	1.1 U	4.8 U	4.6 U	6.4
Aroclor 1262	25*	10 U	4.7 U	1.1 U	4.8 U	4.6 U	4.3 U
Aroclor 1268	25*	10 U	4.7 U	1.1 U	4.8 U	4.6 U	4.3 U
Total Arochlors	25*	**79.0**	**54.9**	3.7	**23.7**	**32.8**	**52.4**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E3A-W1	E3A-W2	E3A-BOT	E3A-N1-1	E3A-N2-1	E3A-S2-1
		E3A-W1 (12-14)	E3A-W2 (54-56)	E3A-BOT (84-90)	E3A-N1-1 (12-14)	E3A-N2-1 (54-56)	E3A-S2-1 (54-56)
Date		5/30/2012	5/30/2012	5/30/2012	6/5/2012	6/5/2012	6/5/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	48 U	4.6 U	1.3 U	5.1 U	4.6 U	4.6 U
Aroclor 1221	25*	48 U	4.6 U	1.3 U	5.1 U	4.6 U	4.6 U
Aroclor 1232	25*	48 U	4.6 U	1.3 U	5.1 U	4.6 U	4.6 U
Aroclor 1242	25*	48 U	4.6 U	1.3 U	5.1 U	4.6 U	4.6 U
Aroclor 1248	25*	**410**	**29**	5.5	**30**	**14**	**11**
Aroclor 1254	25*	55	**24**	3.6	9.4	4.7	4.9
Aroclor 1260	25*	48 U	6.8	3.7	5.1 U	4.6 U	4.6 U
Aroclor 1262	25*	48 U	4.6 U	1.3 U	5.1 U	4.6 U	4.6 U
Aroclor 1268	25*	48 U	4.6 U	1.3 U	5.1 U	4.6 U	4.6 U
Total Arochlors	25*	**465.0**	**59.8**	**12.8**	**39.4**	**18.7**	**15.9**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E3A-E1-1	E3A-E2-1	E3A-W1-1	E3A-W2-1	E3A-BOT-1	E3A-N1-2
		E3A-E1-1 (12-14)	E3A-E2-1 (54-56)	E3A-W1-1 (12-14)	E3A-W2-1 (54-56)	E3A-BOT-1 (96-102)	E3A-N1-2 (12-14)
Date		6/5/2012	6/5/2012	6/5/2012	6/5/2012	6/5/2012	6/8/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.6 U	4.8 U	5.1 U	4.8 U	0.14 U	5.0 U
Aroclor 1221	25*	4.6 U	4.8 U	5.1 U	4.8 U	0.14 U	5.0 U
Aroclor 1232	25*	4.6 U	4.8 U	5.1 U	4.8 U	0.14 U	5.0 U
Aroclor 1242	25*	4.6 U	4.8 U	5.1 U	4.8 U	0.14 U	5.0 U
Aroclor 1248	25*	**30**	**20 J**	**32**	**26**	0.14 U	**51**
Aroclor 1254	25*	7	**17**	**11**	**14**	0.14 U	**22**
Aroclor 1260	25*	4.6 U	4.8 U	5.1 U	5.0	0.14 U	5.1
Aroclor 1262	25*	4.6 U	4.8 U	5.1 U	4.8 U	0.14 U	5.0 U
Aroclor 1268	25*	4.6 U	4.8 U	5.1 U	4.8 U	0.14 U	5.0 U
Total Arochlors	25*	**37.0**	**37 J**	**43.0**	**45.0**	0.14 U	**78.1**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E3A-N2-2	E3A-N1-3	E3A-N2-3	E3A-N1-4	E3A-N2-4	E3A-N1-5
		E3A-N2-2 (54-56)	E3A-N1-3 (12-14)	E3A-N2-3 (54-56)	E3A-N1-4 (12-14)	E3A-N2-4 (54-56)	E3A-N1-5 (12-14)
Date		6/8/2012	6/13/2012	6/13/2012	6/15/2012	6/15/2012	6/21/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	9.6 U	10 U	5.0 U	5.0 U	4.8 U	5.0 U
Aroclor 1221	25*	9.6 U	10 U	5.0 U	5.0 U	4.8 U	5.0 U
Aroclor 1232	25*	9.6 U	10 U	5.0 U	5.0 U	4.8 U	5.0 U
Aroclor 1242	25*	9.6 U	10 U	5.0 U	5.0 U	4.8 U	5.0 U
Aroclor 1248	25*	**25**	**73 J**	**19**	**46**	8.1	**24**
Aroclor 1254	25*	**37**	**37**	**19**	**24**	**11**	**12**
Aroclor 1260	25*	**72**	10 U	5.0 U	5.0 U	4.8 U	5.0 U
Aroclor 1262	25*	9.6 U	10 U	5.0 U	5.0 U	4.8 U	5.0 U
Aroclor 1268	25*	9.6 U	10 U	5.0 U	5.0 U	4.8 U	5.0 U
Total Arochlors	25*	**134.0**	**110 J**	**38.0**	**70.0**	**19.1**	**36.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E3A-N2-5	E3A-N1-6	E3A-N1-7	E3A-OE1-BOT	E3A-OE1-WSW	E3A-OE1-ESW
		E3A-N2-5 (54-56)	E3A-N1-6 (12-14)	E3A-N1-7 (12-14)	E3A-OE1-BOT (84-90)	E3A-OE1-WSW (54-56)	E3A-OE1-ESW (84-90)
Date		6/21/2012	6/25/2012	6/28/2012	6/28/2012	6/28/2012	6/28/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	4.5 U	9.4 U	5.0 U	0.46 U	0.48 U	0.46 U
Aroclor 1221	25*	4.5 U	9.4 U	5.0 U	0.46 U	0.48 U	0.46 U
Aroclor 1232	25*	4.5 U	9.4 U	5.0 U	0.46 U	0.48 U	0.46 U
Aroclor 1242	25*	4.5 U	9.4 U	5.0 U	0.46 U	0.48 U	0.46 U
Aroclor 1248	25*	9.4	**37**	14	0.94	1.4	1.4
Aroclor 1254	25*	4.5 U	**11**	12	1.1	2.4	1
Aroclor 1260	25*	4.5 U	9.4 U	5.0 U	0.60 J	1.1 J	0.46 U
Aroclor 1262	25*	4.5 U	9.4 U	5.0 U	0.46 U	0.48 U	0.46 U
Aroclor 1268	25*	4.5 U	9.4 U	5.0 U	0.46 U	0.48 U	0.46 U
Total Arochlors	25*	9.4	**48.0**	**26.0**	2.64 J	4.9 J	2.4

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E3A-OE2-BOT	E3A-N3	E3A-E2-2	E3A-N3-1	E3A-N3-2	E3A-N3-3
		E3A-OE2-BOT (84-90)	E3A-N3 (54-56)	E3A-E2-2 (54-56)	E3A-N3-1 (60-62)	E3A-N3-2 (60-62)	E3A-N3-3 (60-62)
Date		7/6/2012	7/6/2012	7/6/2012	7/10/2012	7/16/2012	7/16/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.44 U	4.8 U	4.9 U	5.2 U	4.7 U	4.8 U
Aroclor 1221	25*	0.44 U	4.8 U	4.9 U	5.2 U	4.7 U	4.8 U
Aroclor 1232	25*	0.44 U	4.8 U	4.9 U	5.2 U	4.7 U	4.8 U
Aroclor 1242	25*	0.44 U	4.8 U	4.9 U	5.2 U	4.7 U	4.8 U
Aroclor 1248	25*	0.94 J	**15**	**13**	**13**	**19**	8.1
Aroclor 1254	25*	0.82	**18**	7.3	**12**	**15**	**11**
Aroclor 1260	25*	0.44 U	8.8	4.9 U	5.2 U	4.7 U	8.2
Aroclor 1262	25*	0.44 U	4.8 U	4.9 U	5.2 U	4.7 U	4.8 U
Aroclor 1268	25*	0.44 U	4.8 U	4.9 U	5.2 U	4.7 U	4.8 U
Total Arochlors	25*	1.76 J	**41.8**	20.3	**25.0**	**34.0**	**27.3**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
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U = Not Detected
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J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E3A-N3-4	E3A-N3-5				
		E3A-N3-4 (60-62)	E3A-N3-5 (60-62)				
Date		7/16/2012	7/16/2012				
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.7 U	0.1 U				
Aroclor 1221	25*	4.7 U	0.1 U				
Aroclor 1232	25*	4.7 U	0.1 U				
Aroclor 1242	25*	4.7 U	0.1 U				
Aroclor 1248	25*	13	0.3				
Aroclor 1254	25*	4.7 U	0.1 U				
Aroclor 1260	25*	4.7 U	0.1 U				
Aroclor 1262	25*	4.7 U	0.1 U				
Aroclor 1268	25*	4.7 U	0.1 U				
Total Arochlors	25*	**18.3**	0.30				

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
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** = Recovery or RPD exceeds control limits
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U = Not Detected
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J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E3D-N1	E3D-N2	E3D-E1	E3D-E2	E3D-W1	E3D-W2
		E3D-N1 (12-14)	E3D-N2 (36-38)	E3D-E1 (12-14)	E3D-E2 (36-38)	E3D-W1 (12-14)	E3D-W2 (36-38)
Date		5/18/2012	5/18/2012	5/18/2012	5/18/2012	5/18/2012	5/18/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.8 U	5.5 U	5.0 U	5.1 U	4.7 U	4.5 U
Aroclor 1221	25*	4.8 U	5.5 U	5.0 U	5.1 U	4.7 U	4.5 U
Aroclor 1232	25*	4.8 U	5.5 U	5.0 U	5.1 U	4.7 U	4.5 U
Aroclor 1242	25*	4.8 U	5.5 U	5.0 U	5.1 U	4.7 U	4.5 U
Aroclor 1248	25*	**13**	**18**	**26**	**26**	8.8	**11**
Aroclor 1254	25*	7.1	**14**	**17**	**12**	4.7 U	5.3
Aroclor 1260	25*	4.8 U	5.5 U	5.0 U	5.1 U	4.7 U	4.5 U
Aroclor 1262	25*	4.8 U	5.5 U	5.0 U	5.1 U	4.7 U	4.5 U
Aroclor 1268	25*	4.8 U	5.5 U	5.0 U	5.1 U	4.7 U	4.5 U
Total Arochlors	25*	**20.1**	**32.0**	**43.0**	**38.0**	8.8	**16.3**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E3D-BOT	E3D-N1-1	E3D-N2-1	E3D-E1-1	E3D-E2-1	E3D-W2-1
		E3D-BOT (48-54)	E3D-N1-1 (12-14)	E3D-N2-1 (36-38)	E3D-E1-1 (12-14)	E3D-E2-1 (36-38)	E3D-W2-1 (36-38)
Date		5/18/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	4.7 U	4.5 U	4.9 U	4.7 U	52 U	4.6 U
Aroclor 1221	25*	4.7 U	4.5 U	4.9 U	4.7 U	52 U	4.6 U
Aroclor 1232	25*	4.7 U	4.5 U	4.9 U	4.7 U	52 U	4.6 U
Aroclor 1242	25*	4.7 U	4.5 U	4.9 U	4.7 U	52 U	4.6 U
Aroclor 1248	25*	**52**	**12**	**24**	**14**	**240**	**16**
Aroclor 1254	25*	**26**	6.4	9.2	6.9	**79**	8.8
Aroclor 1260	25*	7.8	4.5 U	4.9 U	4.7 U	52 U	4.6 U
Aroclor 1262	25*	4.7 U	4.5 U	4.9 U	4.7 U	52 U	4.6 U
Aroclor 1268	25*	4.7 U	4.5 U	4.9 U	4.7 U	52 U	4.6 U
Total Arochlors	25*	**85.8**	**18.4**	**33.2**	**20.9**	**319.0**	**24.8**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E3D-BOT-1	E3D-N1-2	E3D-N2-2	E3D-E2-2	E3D-W2-2	E3D-BOT-2
		E3D-BOT-1 (72-78)	E3D-N1-2 (12-14)	E3D-N2-2 (36-38)	E3D-E2-2 (36-38)	E3D-W2-2 (36-38)	E3D-BOT-2 (96-102)
Date		5/31/2012	6/5/2012	6/5/2012	6/5/2012	6/5/2012	6/5/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.5 U	5.1 U	1.3 U	9.6 U	4.9 U	0.11 U
Aroclor 1221	25*	4.5 U	5.1 U	1.3 U	9.6 U	4.9 U	0.11 U
Aroclor 1232	25*	4.5 U	5.1 U	1.3 U	9.6 U	4.9 U	0.11 U
Aroclor 1242	25*	4.5 U	5.1 U	1.3 U	9.6 U	4.9 U	0.11 U
Aroclor 1248	25*	**12**	**21**	6.8	**52**	9.7	0.48
Aroclor 1254	25*	**10**	8.5	2.6	16	5.1	0.47
Aroclor 1260	25*	5.1	5.1 U	1.3 U	9.6 U	4.9 U	0.22
Aroclor 1262	25*	4.5 U	5.1 U	1.3 U	9.6 U	4.9 U	0.11 U
Aroclor 1268	25*	4.5 U	5.1 U	1.3 U	9.6 U	4.9 U	0.11 U
Total Arochlors	25*	**27.1**	**29.5**	9.4	**68.0**	**14.8**	1.17

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
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USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E4B-E1	E4B-W1	E4B-W2	E4B-E2	E4B-N2	E4B-N2-1
		E4B-E1 (12-14)	E4B-W1 (12-14)	E4B-W2 (60-62)	E4B-E2 (60-62)	E4B-N2 (60-62)	E4B-N2-1 (60-62)
Date		3/19/2012	3/19/2012	3/19/2012	3/20/2012	3/20/2012	3/23/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.7 U	4.8 U	4.5 U	4.9 U	4.8 U	4.8 U
Aroclor 1221	25*	4.7 U	4.8 U	4.5 U	4.9 U	4.8 U	4.8 U
Aroclor 1232	25*	4.7 U	4.8 U	4.5 U	4.9 U	4.8 U	4.8 U
Aroclor 1242	25*	4.7 U	4.8 U	4.5 U	4.9 U	4.8 U	4.8 U
Aroclor 1248	25*	**44**	17	**20**	**28 J**	**15 J**	**35**
Aroclor 1254	25*	**24**	9.9	**27**	**35**	**10**	**14**
Aroclor 1260	25*	5.2 J	4.8 U	7.9 J	**28**	4.8 U	4.8 U
Aroclor 1262	25*	4.7 U	4.8 U	4.5 U	4.9 U	4.8 U	4.8 U
Aroclor 1268	25*	4.7 U	4.8 U	4.5 U	4.9 U	4.8 U	4.8 U
Total Arochlors	25*	**73.2 J**	**26.9**	**54.9 J**	**91 J**	**25 J**	**49.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E4B-E1-1	E4B-E2-1	E4B-W1-1	E4B-W2-1	E4B-BOT	E4B-BOT-1A
		E4B-E1-1 (12-14)	E4B-E2-1 (60-62)	E4B-W1-1 (12-14)	E4B-W2-1 (60-62)	E4B-BOT (96-102)	E4B-BOT-1A (108-114)
Date		3/22/2012	3/23/2012	3/22/2012	3/23/2012	3/22/2012	3/28/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	5.0 U	5.1 U	1.1 U	5.0 U	4.9 U	4.7 U
Aroclor 1221	25*	5.0 U	5.1 U	1.1 U	5.0 U	4.9 U	4.7 U
Aroclor 1232	25*	5.0 U	5.1 U	1.1 U	5.0 U	4.9 U	4.7 U
Aroclor 1242	25*	5.0 U	5.1 U	1.1 U	5.0 U	4.9 U	4.7 U
Aroclor 1248	25*	**21**	**45**	7.3	**40**	**43**	**30**
Aroclor 1254	25*	**15**	**20**	5.3	**30**	**29**	**26**
Aroclor 1260	25*	5.0 U	5.1 U	1.9 J	8.1	**11**	**11**
Aroclor 1262	25*	5.0 U	5.1 U	1.1 U	5.0 U	4.9 U	4.7 U
Aroclor 1268	25*	5.0 U	5.1 U	1.1 U	5.0 U	4.9 U	4.7 U
Total Arochlors	25*	**36.0**	**65.0**	**14.5 J**	**78.1**	**83.0**	**67.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E4B-BOT-1B	E4B-BOT-1C	E4B-E1-2	E4B-E2-2	E4B-E1-3	E4B-E2-3
		E4B-BOT-1B (120-126)	E4B-BOT-1C (132-138)	E4B-E1-2 (12-14)	E4B-E2-2 (60-62)	E4B-E1-3 (12-14)	E4B-E2-3 (60-62)
Date		3/28/2012	3/28/2012	3/30/2012	3/30/2012	4/4/2012	4/4/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.7 U	1.1 U	10 U	5 U	5.0 U	24 U
Aroclor 1221	25*	4.7 U	1.1 U	10 U	5 U	5.0 U	24 U
Aroclor 1232	25*	4.7 U	1.1 U	10 U	5 U	5.0 U	24 U
Aroclor 1242	25*	4.7 U	1.1 U	10 U	5 U	5.0 U	24 U
Aroclor 1248	25*	**25**	2.6	**84**	**40**	**30**	**94**
Aroclor 1254	25*	**19**	3.9	**22**	15	13	**34**
Aroclor 1260	25*	**7.1**	1.1 U	10 U	5 U	5.0 U	24 U
Aroclor 1262	25*	4.7 U	1.1 U	10 U	5 U	5.0 U	24 U
Aroclor 1268	25*	4.7 U	1.1 U	10 U	5 U	5.0 U	24 U
Total Arochlors	25*	**51.1**	6.5	**106.0**	**55.0**	**43.0**	**128.0**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E4C-N1	E4C-N2	E4C-S1	E4C-S2	E4C-W1	E4C-W2
		E4C-N1 (12-14)	E4C-N2 (42-44)	E4C-S1 (12-14)	E4C-S2 (42-44)	E4C-W1 (12-14)	E4C-W2 (42-44)
Date		4/27/2012	4/27/2012	4/27/2012	4/27/2012	4/27/2012	4/27/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.41 U	4.9 U	4.4 U	4.9 U	4.6 U	10 U
Aroclor 1221	25*	0.41 U	4.9 U	4.4 U	4.9 U	4.6 U	10 U
Aroclor 1232	25*	0.41 U	4.9 U	4.4 U	4.9 U	4.6 U	10 U
Aroclor 1242	25*	0.41 U	4.9 U	4.4 U	4.9 U	4.6 U	10 U
Aroclor 1248	25*	0.45	18	9.9	**37**	13	**41**
Aroclor 1254	25*	0.41 U	23	9.7	**39**	7.9	**63**
Aroclor 1260	25*	0.41 U	11	4.4 U	11	4.6 U	17
Aroclor 1262	25*	0.41 U	4.9 U	4.4 U	4.9 U	4.6 U	10 U
Aroclor 1268	25*	0.41 U	4.9 U	4.4 U	4.9 U	4.6 U	10 U
Total Arochlors	25*	0.45	**52.0**	19.6	**87.0**	20.9	**121.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E4C-BOT	E4C-S2-1	E4C-W2-1	E4C-BOT-1	E4C-BOT-2	
		E4C-BOT (60-66)	E4C-S2-1 (42-44)	E4C-W2-1 (42-44)	E4C-BOT-1 (78-84)	E4C-BOT-2 (102-108)	
Date		4/27/2012	5/1/2012	5/1/2012	5/1/2012	5/3/2012	
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	4.6 U	4.9 U	4.7 U	4.9 U	4.8 U	
Aroclor 1221	25*	4.6 U	4.9 U	4.7 U	4.9 U	4.8 U	
Aroclor 1232	25*	4.6 U	4.9 U	4.7 U	4.9 U	4.8 U	
Aroclor 1242	25*	4.6 U	4.9 U	4.7 U	4.9 U	4.8 U	
Aroclor 1248	25*	24	**28**	15	**39 J**	7.6	
Aroclor 1254	25*	19	**20**	17 J	**35**	6.6	
Aroclor 1260	25*	13	5.2	20	11	4.8 U	
Aroclor 1262	25*	4.6 U	4.9 U	4.7 U	4.9 U	4.8 U	
Aroclor 1268	25*	4.6 U	4.9 U	4.7 U	4.9 U	4.8 U	
Total Arochlors	25*	**56.0**	**53.2**	**52 J**	**85 J**	14.2	

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
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All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E4D-BOT	E4D-S1	E4D-S2	E4D-W2	E4D-S2-1	
		E4D-BOT (96-102)	E4D-S1 (12-14)	E4D-S2 (60-62)	E4D-W2 (60-62)	E4D-S2-1 (60-62)	
Date		4/25/2012	4/25/2012	4/25/2012	4/25/2012	5/1/2012	
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.7 U	5.2 U	20 U	11 U	5.3 U	
Aroclor 1221	25*	4.7 U	5.2 U	20 U	11 U	5.3 U	
Aroclor 1232	25*	4.7 U	5.2 U	20 U	11 U	5.3 U	
Aroclor 1242	25*	4.7 U	5.2 U	20 U	11 U	5.3 U	
Aroclor 1248	25*	6.5	10 J	**75**	**67**	**41**	
Aroclor 1254	25*	4.9 J	10 J	**46 J**	**60**	**26**	
Aroclor 1260	25*	4.7 U	5.2 U	20	14	6.7	
Aroclor 1262	25*	4.7 U	5.2 U	20 U	11 U	5.3 U	
Aroclor 1268	25*	4.7 U	5.2 U	20 U	11 U	5.3 U	
Total Arochlors	25*	11.4 J	20 J	**121 J**	**141.0**	**73.7**	

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
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U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	F4-N1	F4-N2	F4-S1	F4-S2	F4-E1	F4-E2
		F4-N1 (12-14)	F4-N2 (72-74)	F4-S1 (12-14)	F4-S2 (72-74)	F4-E1 (12-14)	F4-E2 (72-74)
Date		4/26/2012	4/27/2012	4/26/2012	4/27/2012	4/26/2012	4/27/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.10 U	4.6 U	10 U	5.0 U	4.4 U	2.5 U
Aroclor 1221	25*	0.10 U	4.6 U	10 U	5.0 U	4.4 U	2.5 U
Aroclor 1232	25*	0.10 U	4.6 U	10 U	5.0 U	4.4 U	2.5 U
Aroclor 1242	25*	0.10 U	4.6 U	10 U	5.0 U	4.4 U	2.5 U
Aroclor 1248	25*	0.10 U	5.3 J	**34**	21	18	6.5
Aroclor 1254	25*	0.10 U	9.6	**41**	19	10	4.8
Aroclor 1260	25*	0.10 U	4.6 U	10 U	5.0 U	4.4	2.5 U
Aroclor 1262	25*	0.10 U	4.6 U	10 U	5.0 U	4.4 U	2.5 U
Aroclor 1268	25*	0.10 U	4.6 U	10 U	5.0 U	4.4 U	2.5 U
Total Arochlors	25*	0.10 U	14.9 J	**75.0**	**40.0**	**28.0**	11.3

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	F4-BOT	F4-S1-1	F4-S2-1	F4-E1-1		
		F4-BOT (120-126)	F4-S1-1 (12-14)	F4-S2-1 (72-74)	F4-E1-1 (12-14)		
Date		4/27/2012	5/1/2012	5/1/2012	5/1/2012		
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	2.3 U	5.2 U	5.1 U	4.7 U		
Aroclor 1221	25*	2.3 U	5.2 U	5.1 U	4.7 U		
Aroclor 1232	25*	2.3 U	5.2 U	5.1 U	4.7 U		
Aroclor 1242	25*	2.3 U	5.2 U	5.1 U	4.7 U		
Aroclor 1248	25*	5.6	**37**	20	9.9		
Aroclor 1254	25*	4.7	21	15	6.4		
Aroclor 1260	25*	2.3 U	9	5.1 U	4.7 U		
Aroclor 1262	25*	2.3 U	5.2 U	5.1 U	4.7 U		
Aroclor 1268	25*	2.3 U	5.2 U	5.1 U	4.7 U		
Total Arochlors	25*	10.3	**67.0**	**35.0**	16.3		

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
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J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	G2-N1	G2-N2	G2-S1	G2-S2	G2-E1	G2-E2
		G2-N1 (12-14)	G2-N2 (36-38)	G2-S1 (12-14)	G2-S2 (36-38)	G2-E1 (12-14)	G2-E2 (36-38)
Date		2/21/2012	2/21/2012	2/20/2012	2/20/2012	2/20/2012	2/20/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.031 U	0.16 U	0.3 U	0.31 U	0.74 U	0.16 U
Aroclor 1221	25*	0.05 U	0.26 U	0.48 U	0.48 U	1.2 U	0.25 U
Aroclor 1232	25*	0.093 U	0.48 U	0.9 U	0.91 U	2.2 U	0.47 U
Aroclor 1242	25*	0.031 U	0.16 U	24	**31**	**46**	18 J
Aroclor 1248	25*	3.5 J	16 J	0.42 U	0.42 U	1 U	0.22 U
Aroclor 1254	25*	0.056 U	0.29 U	7.1	10	15	5.5
Aroclor 1260	25*	0.018 U	11 J	0.18 U	0.18 U	0.43 U	0.092 U
Aroclor 1262	25*	0.028 U	0.15 U	0.27 U	0.27 U	0.67 U	0.14 U
Aroclor 1268	25*	0.028 U	0.15 U	0.27 U	0.27 U	0.67 U	0.14 U
Total Arochlors	25*	3.5 J	**27 J**	**31.1**	**41.0**	**61.0**	23.5 J

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	G2-W1	G2-W2	G2-BOT	G2-S1-1	G2-S2-1	G2-E1-1
		G2-W1 (12-14)	G2-W2 (36-38)	G2-BOT (48-54)	G2-S1-1 (12-14)	G2-S2-1 (36-38)	G2-E1-1 (12-14)
Date		2/20/2012	2/20/2012	2/21/2012	2/22/2012	2/22/2012	2/22/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	0.80 U	0.76 U	0.81 U	0.84 U	0.079 U	0.08 U
Aroclor 1221	25*	1.3 U	1.2 U	1.3 U	1.3 U	0.12 U	1.3 U
Aroclor 1232	25*	2.4 U	2.2 U	2.4 U	2.5 U	0.23 U	2.4 U
Aroclor 1242	25*	**45**	**75**	0.8 U	0.84 U	0.078 U	0.079 U
Aroclor 1248	25*	1.1 U	1.1 U	**45**	1.2 U	6.6 J	5.1 J
Aroclor 1254	25*	13	14	1.4 U	1.5 U	0.14 U	0.14 U
Aroclor 1260	25*	0.46 U	0.44 U	0.47 U	**58 J**	0.046 U	0.047 U
Aroclor 1262	25*	0.71 U	0.68 U	0.72 U	0.76 U	0.071 U	0.072 U
Aroclor 1268	25*	0.71 U	0.68 U	0.72 U	0.76 U	0.071 U	0.072 U
Total Arochlors	25*	**58.0**	**89.0**	**45.0**	**58 J**	6.6 J	5.1 J

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	G2-W1-1	G2-W2-1	G2-N2-1	G2-BOT-1	G2-N2-2	
		G2-W1-1 (12-14)	G2-W2-1 (36-38)	G2-N2-1 (36-38)	G2-BOT-1 (72-78)	G2-N2-2 (36-38)	
Date		2/22/2012	2/22/2012	2/24/2012	2/24/2012	3/2/2012	
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.019 U	0.19 U	0.18 U	0.15 U	1.2 U	
Aroclor 1221	25*	0.030 U	0.3 U	0.29 U	0.24 U	1.2 U	
Aroclor 1232	25*	0.057 U	0.56 U	0.54 U	0.44 U	1.2 U	
Aroclor 1242	25*	0.019 U	0.19 U	0.18 U	0.15 U	1.2 U	
Aroclor 1248	25*	0.97	9.5	17	7.6	4.6	
Aroclor 1254	25*	0.034 U	0.34 U	10	4.9 J	3.8	
Aroclor 1260	25*	0.011 U	0.11 U	0.11 U	0.087 U	1.2 U	
Aroclor 1262	25*	0.017 U	0.17 U	0.16 U	0.13 U	1.2 U	
Aroclor 1268	25*	0.017 U	0.17 U	0.16 U	0.13 U	1.2 U	
Total Arochlors	25*	0.97	9.5	**27.0**	12.5 J	8.4	

NOTES
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J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H3B-N1	H3B-N2	H3B-E1	H3B-E2	H3B-W1	H3B-W2
		H3B-N1 (12-14)	H3B-N2 (42-44)	H3B-E1 (12-14)	H3B-E2 (42-44)	H3B-W1 (12-14)	H3B-W2 (42-44)
Date		4/11/2012	4/11/2012	4/11/2012	4/11/2012	4/11/2012	4/11/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	11 U	26 U	22 U	21 U	5.8 U	5.1 U
Aroclor 1221	25*	11 U	26 U	22 U	21 U	5.8 U	5.1 U
Aroclor 1232	25*	11 U	26 U	22 U	21 U	5.8 U	5.1 U
Aroclor 1242	25*	11 U	26 U	22 U	21 U	5.8 U	5.1 U
Aroclor 1248	25*	**78**	**160**	**120**	**130**	**38**	**41**
Aroclor 1254	25*	**28**	**49**	**59**	**58**	**22**	**18**
Aroclor 1260	25*	11 U	26 U	22 U	21 U	5.8 U	5.1 U
Aroclor 1262	25*	11 U	26 U	22 U	21 U	5.8 U	5.1 U
Aroclor 1268	25*	11 U	26 U	22 U	21 U	5.8 U	5.1 U
Total Arochlors	25*	**106.0**	**209.0**	**179.0**	**188.0**	**60.0**	**59.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H3B-BOT	H3B-N1-1	H3B-N2-1	H3B-E1-1	H3B-E2-1	H3B-W1-1
		H3B-BOT (60-66)	H3B-N1-1 (12-14)	H3B-N2-1 (42-44)	H3B-E1-1 (12-14)	H3B-E2-1 (42-44)	H3B-W1-1 (12-14)
Date		4/12/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	4.6 U	9.9 U	22 U	27 U	26 U	5.1 U
Aroclor 1221	25*	4.6 U	9.9 U	22 U	27 U	26 U	5.1 U
Aroclor 1232	25*	4.6 U	9.9 U	22 U	27 U	26 U	5.1 U
Aroclor 1242	25*	4.6 U	9.9 U	22 U	27 U	26 U	5.1 U
Aroclor 1248	25*	12	**87**	**110**	**140**	**170**	**59**
Aroclor 1254	25*	8	**40**	**51**	**93**	**87**	**31**
Aroclor 1260	25*	4.6 U	9.9 U	22 U	27 U	26 U	7.8
Aroclor 1262	25*	4.6 U	9.9 U	22 U	27 U	26 U	5.1 U
Aroclor 1268	25*	4.6 U	9.9 U	22 U	26 U	26 U	5.1 U
Total Arochlors	25*	20.0	**127.0**	**161.0**	**233.0**	**257.0**	**97.8**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H3B-W2-1	H3B-N1-2	H3B-N2-2	H3B-E1-2	H3B-E2-2	H3B-W1-2
		H3B-W2-1 (42-44)	H3B-N1-2 (12-14)	H3B-N2-2 (42-44)	H3B-E1-2 (12-14)	H3B-E2-2 (42-44)	H3B-W1-2 (12-14)
Date		4/13/2012	4/17/2012	4/17/2012	4/17/2012	4/17/2012	4/17/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	5.0 U	10 U	21 U	19 U	5.2 U	4.8 U
Aroclor 1221	25*	5.0 U	10 U	21 U	19 U	5.2 U	4.8 U
Aroclor 1232	25*	5.0 U	10 U	21 U	19 U	5.2 U	4.8 U
Aroclor 1242	25*	5.0 U	10 U	21 U	19 U	5.2 U	4.8 U
Aroclor 1248	25*	**50**	**99**	**93**	**140**	**31**	**35**
Aroclor 1254	25*	**61**	**44**	**38**	**66**	**17**	**15**
Aroclor 1260	25*	9.1 J	10 U	21 U	19 U	5.2 U	4.8 U
Aroclor 1262	25*	5.0 U	10 U	21 U	19 U	5.2 U	4.8 U
Aroclor 1268	25*	5.0 U	10 U	21 U	19 U	5.2 U	4.8 U
Total Arochlors	25*	**120.1 J**	**143.0**	**131.0**	**206.0**	**48.0**	**50.0**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
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U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H3B-W2-2	H3B-N1-3	H3B-N2-3	H3B-E1-3	H3B-E2-3	H3B-W1-3
		H3B-W2-2 (42-44)	H3B-N1-3 (12-14)	H3B-N2-3 (42-44)	H3B-E1-3 (12-14)	H3B-E2-3 (42-44)	H3B-W1-3 (12-14)
Date		4/17/2012	4/20/2012	4/20/2012	4/20/2012	4/20/2012	4/20/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.9 U	23 U	25 U	26 U	25 U	4.9 U
Aroclor 1221	25*	4.9 U	23 U	25 U	26 U	25 U	4.9 U
Aroclor 1232	25*	4.9 U	23 U	25 U	26 U	25 U	4.9 U
Aroclor 1242	25*	4.9 U	23 U	25 U	26 U	25 U	4.9 U
Aroclor 1248	25*	9.8	**130**	**100**	**120**	**170**	**29**
Aroclor 1254	25*	4.9 U	**100**	**44**	**57**	**87**	**17**
Aroclor 1260	25*	4.9 U	23 U	25 U	26 U	25 U	4.9 U
Aroclor 1262	25*	4.9 U	23 U	25 U	26 U	25 U	4.9 U
Aroclor 1268	25*	4.9 U	23 U	25 U	26 U	25 U	4.9 U
Total Arochlors	25*	9.8	**230.0**	**144.0**	**177.0**	**257.0**	**46.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H3C-N1	H3C-N2	H3C-S1	H3C-S2	H3C-W1	H3C-W2
		H3C-N1 (12-14)	H3C-N2 (60-62)	H3C-S1 (12-14)	H3C-S2 (60-62)	H3C-W1 (12-14)	H3C-W2 (60-62)
Date		4/16/2012	4/16/2012	4/16/2012	4/16/2012	4/16/2012	4/16/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	4.9 U	4.9 U	9.0 U	24 U	9.9 U	27 U
Aroclor 1221	25*	4.9 U	4.9 U	9.0 U	24 U	9.9 U	27 U
Aroclor 1232	25*	4.9 U	4.9 U	9.0 U	24 U	9.9 U	27 U
Aroclor 1242	25*	4.9 U	4.9 U	9.0 U	24 U	9.9 U	27 U
Aroclor 1248	25*	**57**	**55**	**53**	**84**	**66**	**150**
Aroclor 1254	25*	**30**	**27**	**29**	**37**	**31**	**62**
Aroclor 1260	25*	4.9 U	4.9 U	9.0 U	24 U	9.9 U	27 U
Aroclor 1262	25*	4.9 U	4.9 U	9.0 U	24 U	9.9 U	27 U
Aroclor 1268	25*	4.9 U	4.9 U	9.0 U	24 U	9.9 U	27 U
Total Arochlors	25*	**87.0**	**82.0**	**82.0**	**121.0**	**97.0**	**212.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H3C-BOT	H3C-N1-1	H3C-N2-1	H3C-S1-1	H3C-S2-1	H3C-W1-1
		H3C-BOT (96-102)	H3C-N1-1 (12-14)	H3C-N2-1 (60-62)	H3C-S1-1 (12-14)	H3C-S2-1 (60-62)	H3C-W1-1 (12-14)
Date		4/16/2012	4/18/2012	4/18/2012	4/18/2012	4/18/2012	4/18/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	0.46 U	25 U	27 U	20 U	21 U	30 U
Aroclor 1221	25*	0.46 U	25 U	27 U	20 U	21 U	30 U
Aroclor 1232	25*	0.46 U	25 U	27 U	20 U	21 U	30 U
Aroclor 1242	25*	0.46 U	25 U	27 U	20 U	21 U	30 U
Aroclor 1248	25*	2.1	**74**	**62 J**	**95**	**110**	**180**
Aroclor 1254	25*	1.3	**33**	**180**	**58**	**49**	**83**
Aroclor 1260	25*	0.46 U	25 U	**210**	20 U	21 U	30 U
Aroclor 1262	25*	0.46 U	25 U	27 U	20 U	21 U	30 U
Aroclor 1268	25*	0.46 U	25 U	27 U	20 U	21 U	30 U
Total Arochlors	25*	3.4	**107.0**	**452 J**	**153.0**	**159.0**	**263.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H3C-W2-1	H3C-W1-2	H3C-W2-2	H3C-W1-3	H3C-W2-3	H3C-W1-4
		H3C-W2-1 (60-62)	H3C-W1-2 (12-14)	H3C-W2-2 (60-62)	H3C-W1-3 (12-14)	H3C-W2-3 (60-62)	H3C-W1-4 (12-14)
Date		4/18/2012	4/20/2012	4/20/2012	4/24/2012	4/24/2012	4/26/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	28 U	52 U	5.5 U	59 U	11 U	4.9 U
Aroclor 1221	25*	28 U	52 U	5.5 U	59 U	11 U	4.9 U
Aroclor 1232	25*	28 U	52 U	5.5 U	59 U	11 U	4.9 U
Aroclor 1242	25*	28 U	52 U	5.5 U	59 U	11 U	4.9 U
Aroclor 1248	25*	**96**	**390 J**	**28**	**280**	**51**	17
Aroclor 1254	25*	**40**	**580**	**13**	**150**	**23**	11
Aroclor 1260	25*	28 U	52 U	5.5 U	59 U	11 U	4.9 U
Aroclor 1262	25*	28 U	52 U	5.5 U	59 U	11 U	4.9 U
Aroclor 1268	25*	28 U	52 U	5.5 U	59 U	11 U	4.9 U
Total Arochlors	25*	**136.0**	**970 J**	**41.0**	**430.0**	**74.0**	**28.0**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
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U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H3C-W2-4	H3C-W1-5	H3C-W2-5	H3C-W1-6	H3C-W2-6	H3C-W1-7
		H3C-W2-4 (60-62)	H3C-W1-5 (12-14)	H3C-W2-5 (60-62)	H3C-W1-6 (12-14)	H3C-W2-6 (60-62)	H3C-W1-7 (12-14)
Date		4/26/2012	4/30/2012	4/30/2012	5/2/2012	5/2/2012	5/7/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	23 U	23 U	29 U	10 U	30 U	26 U
Aroclor 1221	25*	23 U	23 U	29 U	10 U	30 U	26 U
Aroclor 1232	25*	23 U	23 U	29 U	10 U	30 U	26 U
Aroclor 1242	25*	23 U	23 U	29 U	10 U	30 U	26 U
Aroclor 1248	25*	**97**	**83**	**78**	**69**	**140**	**130**
Aroclor 1254	25*	**32 J**	**32**	29 U	**36**	**42**	**43**
Aroclor 1260	25*	23 U	23 U	29 U	10 U	30 U	26 U
Aroclor 1262	25*	23 U	23 U	29 U	10 U	30 U	26 U
Aroclor 1268	25*	23 U	23 U	29 U	10 U	30 U	26 U
Total Arochlors	25*	**129 J**	**115.0**	**78.0**	**105.0**	**182.0**	**173.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H3C-W2-7	H3C-OE1-BOT	H3C-W1-8	H3C-W1-9	H3C-W1-10	H3C-W1-11
		H3C-W2-7 (60-62)	H3C-OE1-BOT (96-102)	H3C-W1-8 (12-14)	H3C-W1-9 (12-14)	H3C-W1-10 (12-14)	H3C-W1-11 (12-14)
Date		5/7/2012	5/7/2012	5/9/2012	5/11/2012	5/15/2012	5/17/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	5.4 U	4.6 U	5.0 U	5.3 U	10 U	4.7 U
Aroclor 1221	25*	5.4 U	4.6 U	5.0 U	5.3 U	10 U	4.7 U
Aroclor 1232	25*	5.4 U	4.6 U	5.0 U	5.3 U	10 U	4.7 U
Aroclor 1242	25*	5.4 U	4.6 U	5.0 U	5.3 U	10 U	4.7 U
Aroclor 1248	25*	17	14	**54**	**29**	**55**	11
Aroclor 1254	25*	6.6	5.6	**35**	18	**33**	5.7
Aroclor 1260	25*	5.4 U	4.6 U	6.6	5.3 U	10 U	4.7 U
Aroclor 1262	25*	5.4 U	4.6 U	5.0 U	5.3 U	10 U	4.7 U
Aroclor 1268	25*	5.4 U	4.6 U	5.0 U	5.3 U	10 U	4.7 U
Total Arochlors	25*	23.6	19.6	**95.6**	**47.0**	**88.0**	16.7

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H3C-OE2-BOT	H3C-OE1-NSW	H3C-OE2-NSW	H3C-OE1-SSW	H3C-OE1-NSW-1	H3C-OE2-NSW-1
		H3C-OE2-BOT (96-102)	H3C-OE1-NSW (96-102)	H3C-OE2-NSW (96-102)	H3C-OE1-SSW (96-102)	H3C-OE1-NSW-1 (96-102)	H3C-OE2-NSW-1 (96-102)
Date		5/18/2012	5/18/2012	5/18/2012	5/18/2012	5/31/2012	5/31/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	4.4 U	5.1 U	4.9 U	4.9 U	5.2 U	5.0 U
Aroclor 1221	25*	4.4 U	5.1 U	4.9 U	4.9 U	5.2 U	5.0 U
Aroclor 1232	25*	4.4 U	5.1 U	4.9 U	4.9 U	5.2 U	5.0 U
Aroclor 1242	25*	4.4 U	5.1 U	4.9 U	4.9 U	5.2 U	5.0 U
Aroclor 1248	25*	8.9	**44**	**26**	**48**	20	**24**
Aroclor 1254	25*	9.7	**33**	20	19	11	17
Aroclor 1260	25*	4.4 U	5.1 U	4.9 U	4.9 U	5.2 U	5.9
Aroclor 1262	25*	4.4 U	5.1 U	4.9 U	4.9 U	5.2 U	5.0 U
Aroclor 1268	25*	4.4 U	5.1 U	4.9 U	4.9 U	5.2 U	5.0 U
Total Arochlors	25*	18.6	**77.0**	**46.0**	**67.0**	**31.0**	**46.9**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
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U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H3C-OE1-SSW-1 H3C-OE1-SSW-1 (96-102)	H3C-OE2-NSW-2 H3C-OE2-NSW-2 (96-102)	H3C-OE1-SSW-2 H3C-OE1-SSW-2 (96-102)			
Date		5/31/2012	6/5/2012	6/5/2012			
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	4.8 U	4.7 U	4.9 U			
Aroclor 1221	25*	4.8 U	4.7 U	4.9 U			
Aroclor 1232	25*	4.8 U	4.7 U	4.9 U			
Aroclor 1242	25*	4.8 U	4.7 U	4.9 U			
Aroclor 1248	25*	17	8.1 J	14 J			
Aroclor 1254	25*	11	5.2	10			
Aroclor 1260	25*	4.8 U	4.7 U	4.9 U			
Aroclor 1262	25*	4.8 U	4.7 U	4.9 U			
Aroclor 1268	25*	4.8 U	4.7 U	4.9 U			
Total Arochlors	25*	**28.0**	13.3	24 J			

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
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J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H4C-N1	H4C-N2	H4C-S1	H4C-S2	H4C-W1	H4C-W2
		H4C-N1 (12-14)	H4C-N2 (66-68)	H4C-S1 (12-14)	H4C-S2 (66-68)	H4C-W1 (12-14)	H4C-W2 (66-68)
Date		4/13/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012	4/13/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	10 U	9.5 U	27 U	9.9 U	4.9 U	4.9 U
Aroclor 1221	25*	10 U	9.5 U	27 U	9.9 U	4.9 U	4.9 U
Aroclor 1232	25*	10 U	9.5 U	27 U	9.9 U	4.9 U	4.9 U
Aroclor 1242	25*	10 U	9.5 U	27 U	9.9 U	4.9 U	4.9 U
Aroclor 1248	25*	**70**	**65**	**120**	**47**	**34**	**41**
Aroclor 1254	25*	**57**	**34**	**73**	**21**	16	**23**
Aroclor 1260	25*	10 U	9.5 U	27 U	9.9 U	4.9 U	5.2 J
Aroclor 1262	25*	10 U	9.5 U	27 U	9.9 U	4.9 U	4.9 U
Aroclor 1268	25*	10 U	9.5 U	27 U	9.9 U	4.9 U	4.9 U
Total Arochlors	25*	**127.0**	**99.0**	**193.0**	**68.0**	**50.0**	**69.2 J**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H4C-BOT	H4C-N1-1	H4C-N2-1	H4C-S1-1	H4C-S2-1	H4C-W1-1
		H4C-BOT (108-114)	H4C-N1-1 (12-14)	H4C-N2-1 (66-68)	H4C-S1-1 (12-14)	H4C-S2-1 (66-68)	H4C-W1-1 (12-14)
Date		4/16/2012	4/18/2012	4/18/2012	4/18/2012	4/18/2012	4/18/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	0.12 U	18 U	21 U	19 U	5.1 U	4.3 U
Aroclor 1221	25*	0.12 U	18 U	21 U	19 U	5.1 U	4.3 U
Aroclor 1232	25*	0.12 U	18 U	21 U	19 U	5.1 U	4.3 U
Aroclor 1242	25*	0.12 U	18 U	21 U	19 U	5.1 U	4.3 U
Aroclor 1248	25*	0.12 U	**71**	**82**	**120**	19	17
Aroclor 1254	25*	0.12 U	**37**	**41**	**55**	7.6	8.7
Aroclor 1260	25*	0.12 U	18 U	21 U	19 U	5.1 U	4.3 U
Aroclor 1262	25*	0.12 U	18 U	21 U	19 U	5.1 U	4.3 U
Aroclor 1268	25*	0.12 U	18 U	21 U	19 U	5.1 U	4.3 U
Total Arochlors	25*	0.12 U	**108.0**	**123.0**	**175.0**	**26.6**	**25.7**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H4C-W1-2	H4C-W2-1	H4C-W2-2	H4C-W1-3	H4C-W2-3	H4C-W2-4
		H4C-W1-2 (12-14)	H4C-W2-1 (66-68)	H4C-W2-2 (66-68)	H4C-W1-3 (12-14)	H4C-W2-3 (66-68)	H4C-W2-4 (66-68)
Date		4/20/2012	4/18/2012	4/20/2012	4/24/2012	4/24/2012	4/26/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	4.9 U	20 U	27 U	4.7 U	5.1 U	5.0 U
Aroclor 1221	25*	4.9 U	20 U	27 U	4.7 U	5.1 U	5.0 U
Aroclor 1232	25*	4.9 U	20 U	27 U	4.7 U	5.1 U	5.0 U
Aroclor 1242	25*	4.9 U	20 U	27 U	4.7 U	5.1 U	5.0 U
Aroclor 1248	25*	21	**110**	**130**	8.5	**32**	16
Aroclor 1254	25*	8.4	**47**	**67**	4.7 U	11	13
Aroclor 1260	25*	4.9 U	20 U	27 U	4.7 U	5.1 U	5.0 U
Aroclor 1262	25*	4.9 U	20 U	27 U	4.7 U	5.1 U	5.0 U
Aroclor 1268	25*	4.9 U	20 U	27 U	4.7 U	5.1 U	5.0 U
Total Arochlors	25*	**29.4**	**157.0**	**197.0**	8.5	**43.0**	**29.0**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
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Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H4C-W2-5					
		H4C-W2-5 (66-68)					
Date		4/30/2012					
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	4.8 U					
Aroclor 1221	25*	4.8 U					
Aroclor 1232	25*	4.8 U					
Aroclor 1242	25*	4.8 U					
Aroclor 1248	25*	38					
Aroclor 1254	25*	44					
Aroclor 1260	25*	9.3					
Aroclor 1262	25*	4.8 U					
Aroclor 1268	25*	4.8 U					
Total Arochlors	25*	**91.3**					

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
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USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H3D-N2	H3D-S1	H3D-S2	H3D-E1	H3D-E2	H3D-BOT
		H3D-N2 (60-62)	H3D-S1 (12-14)	H3D-S2 (60-62)	H3D-E1 (12-14)	H3D-E2 (60-62)	H3D-BOT (96-102)
Date		2/17/2012	2/17/2012	2/17/2012	2/17/2012	2/17/2012	2/21/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	0.19 U	0.34 U	0.99 U	0.9 U	0.084 U	0.016 U
Aroclor 1221	25*	0.31 U	0.54 U	1.6 U	1.4 U	0.13 U	0.026 U
Aroclor 1232	25*	0.58 U	1 U	2.9 U	2.7 U	0.25 U	0.048 U
Aroclor 1242	25*	0.19 U	0.34 U	0.99 U	0.89 U	0.084 U	0.016 U
Aroclor 1248	25*	23	**34 J**	**72**	**73**	4.6	0.022 U
Aroclor 1254	25*	13	0.62 U	1.8 U	1.6 U	1.9	0.029 U
Aroclor 1260	25*	0.11 U	0.2 U	0.58 U	0.52 U	0.049 U	0.0094 U
Aroclor 1262	25*	0.17 U	0.31 U	0.89 U	0.81 U	0.076 U	0.015 U
Aroclor 1268	25*	0.17 U	0.31 U	0.89 U	0.81 U	0.076 U	0.015 U
Total Arochlors	25*	**36.0**	**34 J**	**72.0**	**73.0**	6.5	U

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H3D-N2-1	H3D-S1-1	H3D-S2-1	H3D-S1-2	H3D-E1-1	H3D-E1-2
		H3D-N2-1 (60-62)	H3D-S1-1 (12-14)	H3D-S2-1 (60-62)	H3D-S1-2 (12-14)	H3D-E1-1 (12-14)	H3D-E1-2 (12-14)
Date		2/21/2012	2/21/2012	2/21/2012	2/23/2012	2/21/2012	2/23/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	1.8 U	0.94 U	3.6 U	1.7 U	1.7 U	8.5 U
Aroclor 1221	25*	2.9 U	1.5 U	5.6 U	2.7 U	2.7 U	13 U
Aroclor 1232	25*	5.5 U	2.8 U	11 U	5.2 U	5.0 U	25 U
Aroclor 1242	25*	1.8 U	0.93 U	3.5 U	1.7 U	1.7 U	8.5 U
Aroclor 1248	25*	**150**	**51**	**210**	**80**	**100 J**	**310**
Aroclor 1254	25*	3.3	1.7 U	6.4 U	3.1 U	3.0 U	15 U
Aroclor 1260	25*	1.1 U	0.55 U	2.1 U	1.0 U	0.99 U	5.0 U
Aroclor 1262	25*	1.7 U	0.84 U	3.2 U	1.6 U	1.5 U	7.7 U
Aroclor 1268	25*	1.7 U	0.84 U	3.2 U	1.6 U	1.5 U	7.7 U
Total Arochlors	25*	**150.0**	**51.0**	**210.0**	**80.0**	**100 J**	**310.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H3D-S2-2	H3D-E1-3	H3D-E1-4	H3D-E1-5	H3D-E1-6	H3D-E1-7
		H3D-S2-2 (60-62)	H3D-E1-3 (12-14)	H3D-E1-4 (12-14)	H3D-E1-5 (12-14)	H3D-E1-6 (12-14)	H3D-E1-7 (12-14)
Date		2/24/2012	3/2/2012	3/6/2012	3/9/2012	3/13/2012	5/15/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	0.8 U	28 U	110 U	10 U	9.0 U	22 U
Aroclor 1221	25*	1.3 U	28 U	110 U	10 U	9.0 U	22 U
Aroclor 1232	25*	2.4 U	28 U	110 U	10 U	9.0 U	22 U
Aroclor 1242	25*	0.79 U	28 U	110 U	10 U	9.0 U	22 U
Aroclor 1248	25*	**46 J**	**130**	**730**	**95**	**110**	**160**
Aroclor 1254	25*	1.4 U	**63**	**340**	**59**	**55**	**87**
Aroclor 1260	25*	0.47 U	28 U	110 U	10 U	9.0 U	22 U
Aroclor 1262	25*	0.72 U	28 U	110 U	10 U	9.0 U	22 U
Aroclor 1268	25*	0.72 U	28 U	110 U	10 U	9.0 U	22 U
Total Arochlors	25*	**46 J**	**193.0**	**1,070.0**	**154.0**	**165.0**	**247.0**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H3D-E1-8					
		H3D-E1-8 (12-14)					
Date		6/1/2012					
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	26 U					
Aroclor 1221	25*	26 U					
Aroclor 1232	25*	26 U					
Aroclor 1242	25*	26 U					
Aroclor 1248	25*	**190**					
Aroclor 1254	25*	**53**					
Aroclor 1260	25*	26 U					
Aroclor 1262	25*	26 U					
Aroclor 1268	25*	26 U					
Total Arochlors	25*	**243.0**					

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	J5-N1	J5-N2	J5-S1	J5-S2	J5-E1	J5-E2
		J5-N1 (12-14)	J5-N2 (60-62)	J5-S1 (12-14)	J5-S2 (60-62)	J5-E1 (12-14)	J5-E2 (60-62)
Date		2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/16/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	0.34 U	0.34 U	0.087 U	0.18 U	0.34 U	0.36 U
Aroclor 1221	25*	0.54 U	0.54 U	0.14 U	0.28 U	0.53 U	0.56 U
Aroclor 1232	25*	1 U	1 U	0.26 U	0.52 U	1 U	1.1 U
Aroclor 1242	25*	0.34 U	0.34 U	0.086 U	0.17 U	0.33 U	0.35 U
Aroclor 1248	25*	19	**29**	7.9	14 J	21	22
Aroclor 1254	25*	0.62 U	0.61 U	0.16 U	0.31 U	0.6 U	0.64 U
Aroclor 1260	25*	0.2 U	0.2 U	0.051 U	0.1 U	0.2 U	0.21 U
Aroclor 1262	25*	0.31 U	0.31 U	0.078 U	0.16 U	0.3 U	0.32 U
Aroclor 1268	25*	0.31 U	0.31 U	0.078 U	0.16 U	0.3 U	0.32 U
Total Arochlors	25*	19.0	**29.0**	7.9	14 J	21.0	22.0

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	J5-W1	J5-W2	J5-BOT	J5-N2-1	J5-N2-2	
		J5-W1 (12-14)	J5-W2 (60-62)	J5-BOT (96-102)	J5-N2-1 (60-62)	J5-N2-2 (60-62)	
Date		2/16/2012	2/16/2012	2/17/2012	2/20/2012	2/22/2012	
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	0.09 U	0.2 U	0.015 U	0.95 U	0.83 U	
Aroclor 1221	25*	0.14 U	0.32 U	0.024 U	1.5 U	1.3 U	
Aroclor 1232	25*	0.27 U	0.6 U	0.044 U	2.8 U	2.5 U	
Aroclor 1242	25*	0.089 U	0.2 U	0.015 U	0.94 U	0.83 U	
Aroclor 1248	25*	6.4	14	1.2	**55**	**42 J**	
Aroclor 1254	25*	0.16 U	0.36 U	0.97	23	1.5 U	
Aroclor 1260	25*	0.053 U	0.12 U	0.0087 U	0.55 U	0.49 U	
Aroclor 1262	25*	0.081 U	0.18 U	0.013 U	0.85 U	0.75 U	
Aroclor 1268	25*	0.081 U	0.18 U	0.013 U	0.85 U	0.75 U	
Total Arochlors	25*	6.4	14.0	2.17	**78.0**	**42 J**	

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	DUP (DUP-1)	DUP-2	DUP-4	DUP-5	DUP-6	DUP-7
		DUP-1 (H3D-E1)	DUP-2 (G2-E1-1)	DUP-4 (E4B-BOT)	DUP-5 (E4B-E1-3)	DUP-6 (H4C-BOT)	DUP-7 (H3C-W2-2)
Date		2/17/2012	2/22/2012	3/22/2012	4/4/2012	4/16/2012	4/20/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	0.83 U	0.082 U	4.8 U	5.1 U	0.11 U	11 U
Aroclor 1221	25*	1.3 U	0.13 U	4.8 U	5.1 U	0.11 U	11 U
Aroclor 1232	25*	2.5 U	0.24 U	4.8 U	5.1 U	0.11 U	11 U
Aroclor 1242	25*	0.82 U	0.081 U	4.8 U	5.1 U	0.11 U	11 U
Aroclor 1248	25*	**67**	4.1 J	17 J	**33**	0.12	**55**
Aroclor 1254	25*	1.5 U	0.15 U	19	16	0.11 U	**34**
Aroclor 1260	25*	0.48 U	0.048 U	6.6	5.1 U	0.11 U	11 U
Aroclor 1262	25*	0.74 U	0.073 U	4.8 U	5.1 U	0.11 U	11 U
Aroclor 1268	25*	0.74 U	0.073 U	4.8 U	5.1 U	0.11 U	11 U
Total Arochlors	25*	**67.0**	4.1 J	**42.6 J**	**49.0**	0.12	**89.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	DUP-9	DUP-10	DUP-11	DUP-12	DUP-13	DUP-14
		DUP-9 (D5-BOT)	DUP-10 (H3C-W2-7)	DUP-11 (E1D-N2)	DUP-12 (E3A-S2)	DUP-13 (E1A-E2-3)	DUP-14 (E1A-E2-4)
Date		4/30/2012	5/7/2012	5/17/2012	5/30/2012	5/31/2012	6/5/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	4.6 U	5.5 U	5.1 U	5.0 U	5.0 U	4.9 U
Aroclor 1221	25*	4.6 U	5.5 U	5.1 U	5.0 U	5.0 U	4.9 U
Aroclor 1232	25*	4.6 U	5.5 U	5.1 U	5.0 U	5.0 U	4.9 U
Aroclor 1242	25*	4.6 U	5.5 U	5.1 U	5.0 U	5.0 U	4.9 U
Aroclor 1248	25*	5	24	**18**	**34**	21	15
Aroclor 1254	25*	4.7	9.5	5.1 U	**20**	**25**	**26**
Aroclor 1260	25*	4.6 U	5.5 U	5.1 U	5.0 U	6.2	9.5
Aroclor 1262	25*	4.6 U	5.5 U	5.1 U	5.0 U	5.0 U	4.9 U
Aroclor 1268	25*	4.6 U	5.5 U	5.1 U	5.0 U	5.0 U	4.9 U
Total Arochlors	25*	9.70	**33.5**	**18.0**	**54.0**	**52.2**	**50.5**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	DUP-15	DUP-16	DUP-17	DUP-18	DUP-19	DUP-20
		DUP-15 (E3A-W1-1)	DUP-16 (E3A-N1-3)	DUP-17 (J1-C1 [6-8])	DUP-18 (F5-W2 [4-6])	DUP-19 (C5-S1-3)	DUP-20 (D3-S2-3)
Date		6/5/2012	6/13/2012	6/19/2012	6/20/2012	6/20/2012	6/21/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	5.1 U	5.1 U	4.6 U	0.11 U	4.9 U	4.6 U
Aroclor 1221	25*	5.1 U	5.1 U	4.6 U	0.11 U	4.9 U	4.6 U
Aroclor 1232	25*	5.1 U	5.1 U	4.6 U	0.11 U	4.9 U	4.6 U
Aroclor 1242	25*	5.1 U	5.1 U	4.6 U	0.11 U	4.9 U	4.6 U
Aroclor 1248	25*	**32**	**24 J**	13 J	0.28 J	7.4	**32**
Aroclor 1254	25*	11	15	16	0.29 J	14	23
Aroclor 1260	25*	5.1 U	5.1 U	5.7	0.11 U	4.9 U	6.1 J
Aroclor 1262	25*	5.1 U	5.1 U	4.6 U	0.11 U	4.9 U	4.6 U
Aroclor 1268	25*	5.1 U	5.1 U	4.6 U	0.11 U	4.9 U	4.6 U
Total Arochlors	25*	**43.0**	**39 J**	**34.7 J**	0.57 J	21.4	**61.1 J**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	DUP-21	DUP-22	DUP-23	DUP-24	DUP-25	DUP-26
		DUP-21 (J1-N4 [0-2])	DUP-22 (J3-S4 [60-62])	DUP-23 (H5-E4 [4-6])	DUP-24 (E3A-N3-2 [60-62])	DUP-25 (J3-N10 [96-102])	DUP-26 (J3-S7 [12-14])
Date		6/25/2012	6/25/2012	6/25/2012	7/16/2012	7/23/2012	7/24/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	26 U	5.1 U	1.0 U	NR	4.5 U	18 U
Aroclor 1221	25*	26 U	5.1 U	1.0 U	NR	4.5 U	18 U
Aroclor 1232	25*	26 U	5.1 U	1.0 U	NR	4.5 U	18 U
Aroclor 1242	25*	26 U	5.1 U	1.0 U	NR	4.5 U	18 U
Aroclor 1248	25*	**120**	8 J	1.0 U	NR	15	**100**
Aroclor 1254	25*	**53**	8.3 J	2.3 J	NR	12	**40**
Aroclor 1260	25*	26 U	5.1 U	1.3	NR	4.5	18 U
Aroclor 1262	25*	26 U	5.1 U	1.0 U	NR	4.5 U	18 U
Aroclor 1268	25*	26 U	5.1 U	1.0 U	NR	4.5 U	18 U
Total Arochlors	25*	**173.0**	16.3 J	3.6 J	NR	**31.5**	**140.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	DUP-27	DUP-28	DUP-29	DUP-30	DUP-31	
		DUP-27 (H5-E10 [6-7])	DUP-28 (F5-W7 [4-6])	DUP-29 (F5-W13 [4-6])	DUP-30 (C5-SW2-3 [96-102])	DUP-31 (ESB-8 [108-114])	
Date		7/24/2012	7/24/2012	7/25/2012	7/25/2012	2/6/2013	
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	0.12 U	4.2 U	4.7 U	0.12 U	5.3 U	
Aroclor 1221	25*	0.12 U	4.2 U	4.7 U	0.12 U	5.3 U	
Aroclor 1232	25*	0.12 U	4.2 U	4.7 U	0.12 U	5.3 U	
Aroclor 1242	25*	0.12 U	4.2 U	4.7 U	0.12 U	5.3 U	
Aroclor 1248	25*	0.12 U	10	**39**	0.19	**37**	
Aroclor 1254	25*	0.12 U	6.9	21	0.35	22	
Aroclor 1260	25*	0.12 U	4.2 U	5.2	0.13	5.3 U	
Aroclor 1262	25*	0.12 U	4.2 U	4.7 U	0.12 U	5.3 U	
Aroclor 1268	25*	0.12 U	4.2 U	4.7 U	0.12 U	5.3 U	
Total Arochlors	25*	0.12 U	16.9	**65.2**	0.67	**59.0**	

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

PRE-EXCAVATION BULKHEAD SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	SB-58	SB-58	SB-59	SB-59	SB-59	SB-60
		SB-58 (0-2)	SB-58 (2-4)	SB-59 (0-2)	SB-59 (2-4)	SB-59 (4-6)	SB-60 (0-2)
Date		5/15/2012	5/15/2012	5/15/2012	5/15/2012	6/14/2012	5/15/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	27 U	28 U	5.3 U	5.7 U	5.7 U	10 U
Aroclor 1221	25*	27 U	28 U	5.3 U	5.7 U	5.7 U	10 U
Aroclor 1232	25*	27 U	28 U	5.3 U	5.7 U	5.7 U	10 U
Aroclor 1242	25*	27 U	28 U	5.3 U	5.7 U	5.7 U	10 U
Aroclor 1248	25*	**210**	**170**	12	**47**	17	**91**
Aroclor 1254	25*	**93**	**70**	8	19	12	**50**
Aroclor 1260	25*	27 U	28 U	5.3 U	5.7 U	5.7 U	10 U
Aroclor 1262	25*	27 U	28 U	5.3 U	5.7 U	5.7 U	10 U
Aroclor 1268	25*	27 U	28 U	5.3 U	5.7 U	5.7 U	10 U
Total Arochlors	25*	**303.0**	**240.0**	20.0	**66.0**	**29.0**	**141.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	SB-60	SB-58-1	SB-58-1	SB-59-1	SB-60-1	SB-60-1
		SB-60 (2-4)	SB-58-1 (0-2)	SB-58-1 (2-4)	SB-59-1 (2-4)	SB-60-1 (0-2)	SB-60-1 (2-4)
Date		5/15/2012	6/1/2012	6/1/2012	6/1/2012	6/1/2012	6/1/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	11 U	5.8 U	22 U	5.2 U	11 U	9.9 U
Aroclor 1221	25*	11 U	5.8 U	22 U	5.2 U	11 U	9.9 U
Aroclor 1232	25*	11 U	5.8 U	22 U	5.2 U	11 U	9.9 U
Aroclor 1242	25*	11 U	5.8 U	22 U	5.2 U	11 U	9.9 U
Aroclor 1248	25*	**120**	**41**	**170**	**39**	**120 J**	**89**
Aroclor 1254	25*	**54**	17	**62**	13	**53**	**58**
Aroclor 1260	25*	11 U	5.8 U	22 U	5.2 U	12 J	14 J
Aroclor 1262	25*	11 U	5.8 U	22 U	5.2 U	11 U	9.9 U
Aroclor 1268	25*	11 U	5.8 U	22 U	5.2 U	11 U	9.9 U
Total Arochlors	25*	**174.0**	**58.0**	**232.0**	**52.0**	**185 J**	**161 J**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objective for Protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

PRE-EXCAVATION BULKHEAD SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	C5-SW1-1	C5-SW1-2	C5-SW1-3	C5-SW2-1	C5-SW2-2	C5-SW2-3
		C5-SW1-1 (12-14)	C5-SW1-2 (54-56)	C5-SW1-3 (96-102)	C5-SW2-1 (12-14)	C5-SW2-2 (54-56)	C5-SW2-3 (96-102)
Date		7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.9 U	4.8 U	0.12 U	1.1 U	5.8 U	0.13 U
Aroclor 1221	25*	4.9 U	4.8 U	0.12 U	1.1 U	5.8 U	0.13 U
Aroclor 1232	25*	4.9 U	4.8 U	0.12 U	1.1 U	5.8 U	0.13 U
Aroclor 1242	25*	4.9 U	4.8 U	0.12 U	1.1 U	5.8 U	0.13 U
Aroclor 1248	25*	4.9 U	4.8 U	0.12 U	1.1 U	6.1	0.20
Aroclor 1254	25*	8.7	20	0.12 U	2.4	17	0.53
Aroclor 1260	25*	4.9 U	10	0.12 U	1.4	5.9 J	0.21
Aroclor 1262	25*	4.9 U	4.8 U	0.12 U	1.1 U	5.8 U	0.13 U
Aroclor 1268	25*	4.9 U	4.8 U	0.12 U	1.1 U	5.8 U	0.13 U
Total Arochlors	25*	8.7	**30.0**	0.12 U	3.8	**29 J**	0.94

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	C5-SW3-1	C5-SW3-2	C5-SW3-3			
		C5-SW3-1 (12-14)	C5-SW3-2 (54-56)	C5-SW3-3 (96-102)			
Date		7/25/2012	7/25/2012	7/25/2012			
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	1.1 U	4.9 U	4.7 U			
Aroclor 1221	25*	1.1 U	4.9 U	4.7 U			
Aroclor 1232	25*	1.1 U	4.9 U	4.7 U			
Aroclor 1242	25*	1.1 U	4.9 U	4.7 U			
Aroclor 1248	25*	1.1 U	5.2	6.8			
Aroclor 1254	25*	1.7	15	18			
Aroclor 1260	25*	1.1 U	5.2	5.5			
Aroclor 1262	25*	1.1 U	4.9 U	4.7 U			
Aroclor 1268	25*	1.1 U	4.9 U	4.7 U			
Total Arochlors	25*	1.7	**25.4**	**30.3**			

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
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U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

PRE-EXCAVATION BULKHEAD SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	D5-SE1-1	D5-SE1-2	D5-SE1-3	D5-SE2-1	D5-SE2-2	D5-SE2-3
		D5-SE1-1 (12-14)	D5-SE1-2 (54-56)	D5-SE1-3 (96-102)	D5-SE2-1 (12-14)	D5-SE2-2 (54-56)	D5-SE2-3 (96-102)
Date		7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	5.5 U	5.4 U	0.12 U	5.0 U	5.2 U	1.1 U
Aroclor 1221	25*	5.5 U	5.4 U	0.12 U	5.0 U	5.2 U	1.1 U
Aroclor 1232	25*	5.5 U	5.4 U	0.12 U	5.0 U	5.2 U	1.1 U
Aroclor 1242	25*	5.5 U	5.4 U	0.12 U	5.0 U	5.2 U	1.1 U
Aroclor 1248	25*	20	**30**	0.12 U	23	**50**	3.0
Aroclor 1254	25*	**32**	**35**	0.12 U	**25**	**35**	3.9
Aroclor 1260	25*	8.8	15	0.12 U	5.8 J	10	2.0
Aroclor 1262	25*	5.5 U	5.4 U	0.12 U	5.0 U	5.2 U	1.1 U
Aroclor 1268	25*	5.5 U	5.4 U	0.12 U	5.0 U	5.2 U	1.1 U
Total Arochlors	25*	**60.8**	**80.0**	0.12 U	**53.8 J**	**95.0**	8.9

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	D5-SE3-1	D5-SE3-2	D5-SE3-3	D5-SE3-3		
		D5-SE3-1 (12-14)	D5-SE3-2 (54-56)	D5-SE3-3 (96-102)	D5-SE3-3 (96-102)		
Date		7/25/2012	7/25/2012	7/25/2012	7/25/2012		
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	5.0 U	5.1 U	0.22 U	0.22 U		
Aroclor 1221	25*	5.0 U	5.1 U	0.22 U	0.22 U		
Aroclor 1232	25*	5.0 U	5.1 U	0.22 U	0.22 U		
Aroclor 1242	25*	5.0 U	5.1 U	0.22 U	0.22 U		
Aroclor 1248	25*	**44**	**33**	0.83	0.83		
Aroclor 1254	25*	**31**	**27**	0.74	0.74		
Aroclor 1260	25*	7.2 J	7.3 J	0.44	0.44		
Aroclor 1262	25*	5.0 U	5.1 U	0.22 U	0.22 U		
Aroclor 1268	25*	5.0 U	5.1 U	0.22 U	0.22 U		
Total Arochlors	25*	**82.2 J**	**67.3 J**	2.01	2.01		

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	E5-NSW					
		E5-NSW (5-5.5)					
Date		1/17/2013					
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	5.1 U					
Aroclor 1221	25*	5.1 U					
Aroclor 1232	25*	5.1 U					
Aroclor 1242	25*	5.1 U					
Aroclor 1248	25*	**27**					
Aroclor 1254	25*	**29**					
Aroclor 1260	25*	5.1 U					
Aroclor 1262	25*	5.1 U					
Aroclor 1268	25*	5.1 U					
Total Arochlors	25*	**56.0**					

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
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U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

PRE-EXCAVATION BULKHEAD SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	J1-C1	J1-C1	J1-C1	J1-N1	J1-N1	J1-N1
		J1-C1 (2-4)	J1-C1 (4-6)	J1-C1 (6-8)	J1-N1 (2-4)	J1-N1 (4-6)	J1-N1 (6-8)
Date		6/19/2012	6/19/2012	6/19/2012	6/19/2012	6/19/2012	6/19/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	5.1 U	4.9 U	4.8 U	11 U	5.0 U	4.8 U
Aroclor 1221	25*	5.1 U	4.9 U	4.8 U	11 U	5.0 U	4.8 U
Aroclor 1232	25*	5.1 U	4.9 U	4.8 U	11 U	5.0 U	4.8 U
Aroclor 1242	25*	5.1 U	4.9 U	4.8 U	11 U	5.0 U	4.8 U
Aroclor 1248	25*	**35**	20	12 J	**77**	23	20
Aroclor 1254	25*	**25**	12	15	**32**	12	23
Aroclor 1260	25*	5.1 U	5.3	5.7	12	5.0 U	5.6
Aroclor 1262	25*	5.1 U	4.9 U	4.8 U	11 U	5.0 U	4.8 U
Aroclor 1268	25*	5.1 U	4.9 U	4.8 U	11 U	5.0 U	4.8 U
Total Arochlors	25*	**60.0**	**37.3**	**32.7 J**	**121.0**	**35.0**	**48.6**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	J1-S1	J1-S1	J1-S1	J1-N2	J1-N2	J1-N2
		J1-S1 (2-4)	J1-S1 (4-6)	J1-S1 (6-8)	J1-N2 (0-2)	J1-N2 (2-4)	J1-N2 (4-6)
Date		6/19/2012	6/19/2012	6/19/2012	6/19/2012	6/19/2012	6/19/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	10 U	12 U	11 U	21 U	26 U	25 U
Aroclor 1221	25*	10 U	12 U	11 U	21 U	26 U	25 U
Aroclor 1232	25*	10 U	12 U	11 U	21 U	26 U	25 U
Aroclor 1242	25*	10 U	12 U	11 U	21 U	26 U	25 U
Aroclor 1248	25*	**110**	**75**	**88**	**190**	**170**	**160**
Aroclor 1254	25*	**53**	**46**	**41**	**82**	**70**	**81**
Aroclor 1260	25*	10 U	**40**	11 U	21 U	26 U	25 U
Aroclor 1262	25*	10 U	12 U	11 U	21 U	26 U	25 U
Aroclor 1268	25*	10 U	12 U	11 U	21 U	26 U	25 U
Total Arochlors	25*	**163.0**	**161.0**	**129.0**	**272.0**	**240.0**	**241.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	J1-S2	J1-S2	J1-S2	J1-N3	J1-N3	J1-S3
		J1-S2 (0-2)	J1-S2 (2-4)	J1-S2 (4-6)	J1-N3 (2-4)	J1-N3 (4-6)	J1-S3 (2-4)
Date		6/19/2012	6/19/2012	6/19/2012	6/25/2012	6/25/2012	6/25/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	27 U	5.0 U	20 U	27 U	5.1 U	50 U
Aroclor 1221	25*	27 U	5.0 U	20 U	27 U	5.1 U	50 U
Aroclor 1232	25*	27 U	5.0 U	20 U	27 U	5.1 U	50 U
Aroclor 1242	25*	27 U	5.0 U	20 U	27 U	5.1 U	50 U
Aroclor 1248	25*	**270**	**57**	**170**	**72**	5.1 U	**170**
Aroclor 1254	25*	**120**	**25**	**100**	27 U	5.1 U	**54**
Aroclor 1260	25*	27 U	5.0 U	**27 J**	27 U	5.1 U	50 U
Aroclor 1262	25*	27 U	5.0 U	20 U	27 U	5.1 U	50 U
Aroclor 1268	25*	27 U	5.0 U	20 U	27 U	18 J	50 U
Total Arochlors	25*	**390.0**	**82.0**	**297 J**	**72.0**	18 J	**224.0**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

PRE-EXCAVATION BULKHEAD SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	J1-S3	J1-N4	J1-N4	J1-N4	J1-N4	J1-S4
		J1-S3 (4-6)	J1-N4 (0-2)	J1-N4 (2-4)	J1-N4 (4-6)	J1-N4 (6-8)	J1-S4 (0-2)
Date		6/25/2012	6/25/2012	6/25/2012	6/25/2012	6/25/2012	6/25/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.52 U	26 U	27 U	31 U	4.4 U	29 U
Aroclor 1221	25*	0.52 U	26 U	27 U	31 U	4.4 U	29 U
Aroclor 1232	25*	0.52 U	26 U	27 U	31 U	4.4 U	29 U
Aroclor 1242	25*	0.52 U	26 U	27 U	31 U	4.4 U	29 U
Aroclor 1248	25*	0.55	**170**	**120**	**160**	5.3	**190**
Aroclor 1254	25*	0.55	**65**	**42**	**90**	5.4	**95**
Aroclor 1260	25*	0.52 U	26 U	27 U	31 U	4.4 U	29 U
Aroclor 1262	25*	0.52 U	26 U	27 U	31 U	4.4 U	29 U
Aroclor 1268	25*	0.52 U	26 U	27 U	31 U	4.4 U	29 U
Total Arochlors	25*	1.1	**235.0**	**162.0**	**250.0**	10.7	**285.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	J1-S4	J1-S4	J1-N5	J1-S5	J1-S6	J1-S6
		J1-S4 (2-4)	J1-S4 (4-6)	J1-N5 (2-4)	J1-S5 (2-4)	J1-S6 (0-2)	J1-S6 (2-4)
Date		6/25/2012	6/25/2012	6/25/2012	6/25/2012	6/25/2012	6/25/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	27 U	4.7 U	24 U	4.7 U	23 U	0.12 U
Aroclor 1221	25*	27 U	4.7 U	24 U	4.7 U	23 U	0.12 U
Aroclor 1232	25*	27 U	4.7 U	24 U	4.7 U	23 U	0.12 U
Aroclor 1242	25*	27 U	4.7 U	24 U	4.7 U	23 U	0.12 U
Aroclor 1248	25*	**140**	21	**98**	23	**140**	0.46
Aroclor 1254	25*	**75**	22	**38**	7.8	**71**	0.5
Aroclor 1260	25*	27 U	4.7 U	24 U	4.7 U	23 U	0.17
Aroclor 1262	25*	27 U	4.7 U	24 U	4.7 U	23 U	0.12 U
Aroclor 1268	25*	27 U	4.7 U	24 U	4.7 U	23 U	0.12 U
Total Arochlors	25*	**215.0**	**43.0**	**136.0**	**30.8**	**211.0**	1.13

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	J1-S6	J1-N7	J1-N7	J1-N7		
		J1-S6 (4-6)	J1-N7 (2-4)	J1-N7 (4-6)	J1-N7 (6-8)		
Date		6/25/2012	7/23/2012	7/23/2012	7/23/2012		
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.6 U	5.0 U	5.5 U	4.9 U		
Aroclor 1221	25*	4.6 U	5.0 U	5.5 U	4.9 U		
Aroclor 1232	25*	4.6 U	5.0 U	5.5 U	4.9 U		
Aroclor 1242	25*	4.6 U	5.0 U	5.5 U	4.9 U		
Aroclor 1248	25*	6.3	6.7	7.8	23		
Aroclor 1254	25*	5.9	5.6 J	8.8	18		
Aroclor 1260	25*	4.6 U	5.0 U	5.5 U	5.4		
Aroclor 1262	25*	4.6 U	5.0 U	5.5 U	4.9 U		
Aroclor 1268	25*	4.6 U	5.0 U	5.5 U	4.9 U		
Total Arochlors	25*	12.2	12.3 J	16.6	**46.4**		

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
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U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

PRE-EXCAVATION BULKHEAD SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	J3-N1	J3-N1	J3-S1	J3-S1	J3-N2	J3-N2
		J3-N1 (12-14)	J3-N1 (60-62)	J3-S1 (12-14)	J3-S1 (60-62)	J3-N2 (12-14)	J3-N2 (60-62)
Date		6/19/2012	6/19/2012	6/19/2012	6/19/2012	6/19/2012	6/19/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	6.3 U	4.9 U	25 U	12 U	5.0 U	4.8 U
Aroclor 1221	25*	6.3 U	4.9 U	25 U	12 U	5.0 U	4.8 U
Aroclor 1232	25*	6.3 U	4.9 U	25 U	12 U	5.0 U	4.8 U
Aroclor 1242	25*	6.3 U	4.9 U	25 U	12 U	5.0 U	4.8 U
Aroclor 1248	25*	9.4	22	**180**	**91**	**34**	**29**
Aroclor 1254	25*	7	**27**	**55**	**41**	19	19
Aroclor 1260	25*	6.3 U	6.3	25 U	12 U	5.0 U	5.9
Aroclor 1262	25*	6.3 U	4.9 U	25 U	12 U	5.0 U	4.8 U
Aroclor 1268	25*	6.3 U	4.9 U	25 U	12 U	5.0 U	4.8 U
Total Arochlors	25*	16.4	**55.3**	**235.0**	**132.0**	**53.0**	**53.9**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	J3-S2	J3-S3	J3-S3	J3-S3	J3-S4	J3-S4
		J3-S2 (12-14)	J3-S3 (12-14)	J3-S3 (60-62)	J3-S3 (96-102)	J3-S4 (12-14)	J3-S4 (60-62)
Date		6/19/2012	6/25/2012	6/25/2012	6/25/2012	6/25/2012	6/25/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	11 U	29 U	27 U	4.4 U	28 U	0.48 U
Aroclor 1221	25*	11 U	29 U	27 U	4.4 U	28 U	0.48 U
Aroclor 1232	25*	11 U	29 U	27 U	4.4 U	28 U	0.48 U
Aroclor 1242	25*	11 U	29 U	27 U	4.4 U	28 U	0.48 U
Aroclor 1248	25*	**110**	**180**	**150**	**25**	**130**	0.62 **J**
Aroclor 1254	25*	**50**	**96**	**96**	**40**	**63**	1.3 **J**
Aroclor 1260	25*	11 U	29 U	27 U	13	28 U	0.55
Aroclor 1262	25*	11 U	29 U	27 U	4.4 U	28 U	0.48 U
Aroclor 1268	25*	11 U	29 U	27 U	4.4 U	28 U	0.48 U
Total Arochlors	25*	**160.0**	**276.0**	**246.0**	**78.0**	**193.0**	2.47 **J**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	J3-S4	J3-S5	J3-S5	J3-S5	J3-S6	J3-S6
		J3-S4 (96-102)	J3-S5 (12-14)	J3-S5 (60-62)	J3-S5 (96-102)	J3-S6 (12-14)	J3-S6 (60-62)
Date		6/25/2012	6/25/2012	6/25/2012	6/25/2012	6/25/2012	6/25/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	18 U	24 U	4.7 U	4.1 U	26 U	0.47 U
Aroclor 1221	25*	18 U	24 U	4.7 U	4.1 U	26 U	0.47 U
Aroclor 1232	25*	18 U	24 U	4.7 U	4.1 U	26 U	0.47 U
Aroclor 1242	25*	18 U	24 U	4.7 U	4.1 U	26 U	0.47 U
Aroclor 1248	25*	**64**	**120**	12	8.9	**180**	2.2
Aroclor 1254	25*	**90**	**42**	8.1	15	26 U	1.7
Aroclor 1260	25*	**27**	24 U	4.7 U	5.8	26 U	0.47 U
Aroclor 1262	25*	18 U	24 U	4.7 U	4.1 U	26 U	0.47 U
Aroclor 1268	25*	18 U	24 U	4.7 U	4.1 U	26 U	0.47 U
Total Arochlors	25*	**181.0**	**162.0**	20.1	**29.7**	**180.0**	3.9

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

PRE-EXCAVATION BULKHEAD SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	J3-S6	J3-N7	J3-N7	J3-S7	J3-S7	J3-N8
		J3-S6 (96-102)	J3-N7 (60-62)	J3-N7 (96-102)	J3-S7 (12-14)	J3-S7 (60-62)	J3-N8 (12-14)
Date		6/25/2012	7/23/2012	7/23/2012	7/24/2012	7/24/2012	7/23/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.4 U	4.9 U	0.23 U	29 U	1.7 U	10 U
Aroclor 1221	25*	4.4 U	4.9 U	0.23 U	29 U	1.7 U	10 U
Aroclor 1232	25*	4.4 U	4.9 U	0.23 U	29 U	1.7 U	10 U
Aroclor 1242	25*	4.4 U	4.9 U	0.23 U	29 U	1.7 U	10 U
Aroclor 1248	25*	**32**	**30 J**	0.55	**190**	3.3	**58**
Aroclor 1254	25*	**45**	**27**	1.1	29 U	3.8	**28**
Aroclor 1260	25*	16	7.7	0.58	29 U	1.7 U	10 U
Aroclor 1262	25*	4.4 U	4.9 U	0.23 U	29 U	1.7 U	10 U
Aroclor 1268	25*	4.4 U	4.9 U	0.23 U	29 U	1.7 U	10 U
Total Arochlors	25*	**93.0**	**64.7 J**	2.23	**190.0**	7.1	**86.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	J3-S8	J3-N8	J3-S8	J3-S8	J3-N9	J3-S9
		J3-S8 (60-62)	J3-N8 (96-102)	J3-S8 (12-14)	J3-S8 (60-62)	J3-N9 (60-62)	J3-S9 (12-14)
Date		7/23/2012	7/23/2012	7/24/2012	7/24/2012	7/23/2012	7/24/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	5.3 U	9.1 U	21 U	1.2 U	4.7 U	10 U
Aroclor 1221	25*	5.3 U	9.1 U	21 U	1.2 U	4.7 U	10 U
Aroclor 1232	25*	5.3 U	9.1 U	21 U	1.2 U	4.7 U	10 U
Aroclor 1242	25*	5.3 U	9.1 U	21 U	1.2 U	4.7 U	10 U
Aroclor 1248	25*	15	**40**	**100**	2.1	7	**97**
Aroclor 1254	25*	8	9.1 U	21 U	3.1	7.5	**49**
Aroclor 1260	25*	5.3	9.1 U	21 U	1.2 U	4.7 U	10 U
Aroclor 1262	25*	5.3 U	9.1 U	21 U	1.2 U	4.7 U	10 U
Aroclor 1268	25*	5.3 U	9.1 U	21 U	1.2 U	4.7 U	10 U
Total Arochlors	25*	23.0	**40.0**	**100.0**	5.2	14.5	**146.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	J3-S9	J3-S9	J3-N10	J3-N10	J3-S10	J3-S10
		J3-S9 (60-62)	J3-S9 (96-102)	J3-N10 (12-14)	J3-N10 (60-62)	J3-S10 (12-14)	J3-S10 (60-62)
Date		7/24/2012	7/24/2012	7/23/2012	7/23/2012	7/24/2012	7/24/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	5.2 U	5.3 U	25 U	0.13 U	4.5 U	2.3 U
Aroclor 1221	25*	5.2 U	5.3 U	25 U	0.13 U	4.5 U	2.3 U
Aroclor 1232	25*	5.2 U	5.3 U	25 U	0.13 U	4.5 U	2.3 U
Aroclor 1242	25*	5.2 U	5.3 U	25 U	0.13 U	4.5 U	2.3 U
Aroclor 1248	25*	12	**54**	**180**	0.29	12	3.4
Aroclor 1254	25*	17	**40**	**82**	0.58	9.4	9
Aroclor 1260	25*	5.2 U	11	25 U	0.53	4.5 U	2.3 U
Aroclor 1262	25*	5.2 U	5.3 U	25 U	0.13 U	4.5 U	2.3 U
Aroclor 1268	25*	5.2 U	5.3 U	25 U	0.13 U	4.5 U	2.3 U
Total Arochlors	25*	**29.0**	**105.0**	**262.0**	1.4	21.4	12.4

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

PRE-EXCAVATION BULKHEAD SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	J3-N11	J3-N11	J3-S11	J3-S11	J3-S11	J3-N12
		J3-N11 (60-62)	J3-N11 (96-102)	J3-S11 (12-14)	J3-S11 (60-62)	J3-S11 (96-102)	J3-N12 (12-14)
Date		7/23/2012	7/23/2012	7/24/2012	7/24/2012	7/24/2012	7/23/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	5.0 U	1.2 U	20 U	4.6 U	0.25 U	26 U
Aroclor 1221	25*	5.0 U	1.2 U	20 U	4.6 U	0.25 U	26 U
Aroclor 1232	25*	5.0 U	1.2 U	20 U	4.6 U	0.25 U	26 U
Aroclor 1242	25*	5.0 U	1.2 U	20 U	4.6 U	0.25 U	26 U
Aroclor 1248	25*	15	1.4 J	**130**	**26**	0.89	**220**
Aroclor 1254	25*	15	2.5	**68**	**25**	1.3	**100**
Aroclor 1260	25*	5.0 U	1.2	20 U	4.6 U	0.57	26 U
Aroclor 1262	25*	5.0 U	1.2 U	20 U	4.6 U	0.25 U	26 U
Aroclor 1268	25*	14	1.2 U	20 U	4.6 U	0.25 U	26 U
Total Arochlors	25*	**44.0**	5.1 J	**198.0**	**51.0**	2.76	**320.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	J3-N12	J3-S12	J3-S12	J3-S12	J3-S13	J3-S13
		J3-N12 (60-62)	J3-S12 (12-14)	J3-S12 (60-62)	J3-S12 (62-72)	J3-S13 (12-14)	J3-S13 (60-62)
Date		7/23/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	0.15 U	4.6 U	4.9 U	4.8 U	23 U	4.9 U
Aroclor 1221	25*	0.15 U	4.6 U	4.9 U	4.8 U	23 U	4.9 U
Aroclor 1232	25*	0.15 U	4.6 U	4.9 U	4.8 U	23 U	4.9 U
Aroclor 1242	25*	0.15 U	4.6 U	4.9 U	4.8 U	23 U	4.9 U
Aroclor 1248	25*	0.44	11	15	15	**190**	8.9
Aroclor 1254	25*	0.49	14	13	20	**46**	16
Aroclor 1260	25*	0.24	4.6 U	4.9 U	9.4	23 U	4.9 U
Aroclor 1262	25*	0.15 U	4.6 U	4.9 U	4.8 U	23 U	4.9 U
Aroclor 1268	25*	0.15 U	4.6 U	20	4.8 U	23 U	13
Total Arochlors	25*	1.17	**25.0**	**48.0**	**44.4**	**236.0**	**37.9**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	J3-S13	J3-S14	J3-S14	J3-S14	J4-WSW	
		J3-S13 (96-102)	J3-S14 (12-14)	J3-S14 (60-62)	J3-S14 (96-102)	J4-WSW (60-66)	
Date		7/24/2012	7/23/2012	7/23/2012	7/23/2012	1/25/2013	
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.23 U	4.7 U	12 U	0.48 U	22 U	
Aroclor 1221	25*	0.23 U	4.7 U	12 U	0.48 U	22 U	
Aroclor 1232	25*	0.23 U	4.7 U	12 U	0.48 U	22 U	
Aroclor 1242	25*	0.23 U	4.7 U	12 U	0.48 U	22 U	
Aroclor 1248	25*	0.50	14	12 U	0.91	**100**	
Aroclor 1254	25*	0.66	13	12 U	1.2	**47**	
Aroclor 1260	25*	0.46	4.7 U	12 U	0.9	22 U	
Aroclor 1262	25*	0.23 U	4.7 U	12 U	0.48 U	22 U	
Aroclor 1268	25*	0.23 U	4.7 U	**49**	0.48 U	22 U	
Total Arochlors	25*	1.62	**27.0**	**49.0**	3.01	**147.0**	

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

PRE-EXCAVATION BULKHEAD SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H5-E1	H5-E1	H5-E1	H5-W1	H5-W1	H5-W1
		H5-E1 (0-2)	H5-E1 (2-4)	H5-E1 (4-6)	H5-W1 (0-2)	H5-W1 (2-4)	H5-W1 (4-6)
Date		6/19/2012	6/19/2012	6/19/2012	6/19/2012	6/19/2012	6/19/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	51 U	5.0 U	9.1 U	5.3 U	20 U	4.7 U
Aroclor 1221	25*	51 U	5.0 U	9.1 U	5.3 U	20 U	4.7 U
Aroclor 1232	25*	51 U	5.0 U	9.1 U	5.3 U	20 U	4.7 U
Aroclor 1242	25*	51 U	5.0 U	9.1 U	5.3 U	20 U	4.7 U
Aroclor 1248	25*	**440**	21	**61**	**43**	**150**	17 J
Aroclor 1254	25*	**210**	17	**53**	24	**71**	**25**
Aroclor 1260	25*	51 U	5.0 U	15	5.3 U	20 U	13
Aroclor 1262	25*	51 U	5.0 U	9.1 U	5.3 U	20 U	4.7 U
Aroclor 1268	25*	51 U	5.0 U	9.1 U	5.3 U	20 U	4.7 U
Total Arochlors	25*	**650.0**	**38.0**	**129.0**	**67.0**	**221.0**	**55 J**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H5-E2	H5-E2	H5-E2	H5-W2	H5-W2	H5-W2
		H5-E2 (0-2)	H5-E2 (2-4)	H5-E2 (4-6)	H5-W2 (0-2)	H5-W2 (2-4)	H5-W2 (4-6)
Date		6/19/2012	6/19/2012	6/19/2012	6/19/2012	6/19/2012	6/19/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	28 U	4.9 U	4.4 U	21 U	10 U	10 U
Aroclor 1221	25*	28 U	4.9 U	4.4 U	21 U	10 U	10 U
Aroclor 1232	25*	28 U	4.9 U	4.4 U	21 U	10 U	10 U
Aroclor 1242	25*	28 U	4.9 U	4.4 U	21 U	10 U	10 U
Aroclor 1248	25*	**250**	**26**	17 J	**130**	**80**	**88**
Aroclor 1254	25*	**130**	**25**	20	**74**	**46**	**54**
Aroclor 1260	25*	28 U	7.1	8.2	21 U	13 J	13 J
Aroclor 1262	25*	28 U	4.9 U	4.4 U	21 U	10 U	10 U
Aroclor 1268	25*	28 U	4.9 U	4.4 U	21 U	10 U	10 U
Total Arochlors	25*	**380.0**	**58.1**	**45.2 J**	**204.0**	**139 J**	**155 J**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H5-E3	H5-E3	H5-E3	H5-W3	H5-W3	H5-W3
		H5-E3 (0-2)	H5-E3 (2-4)	H5-E3 (4-6)	H5-W3 (0-2)	H5-W3 (2-4)	H5-W3 (4-6)
Date		6/25/2012	6/25/2012	6/25/2012	6/25/2012	6/25/2012	6/25/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	28 U	5.0 U	25 U	5.4 U	5.5 U	4.3 U
Aroclor 1221	25*	28 U	5.0 U	25 U	5.4 U	5.5 U	4.3 U
Aroclor 1232	25*	28 U	5.0 U	25 U	5.4 U	5.5 U	4.3 U
Aroclor 1242	25*	28 U	5.0 U	25 U	5.4 U	5.5 U	4.3 U
Aroclor 1248	25*	**170**	**25**	**82**	**48**	**29**	14
Aroclor 1254	25*	**86**	**17**	**35**	**25**	**32**	14
Aroclor 1260	25*	28 U	5.0 U	25 U	6.5 J	7.4	7.4
Aroclor 1262	25*	28 U	5.0 U	25 U	5.4 U	5.5 U	4.3 U
Aroclor 1268	25*	28 U	5.0 U	25 U	5.4 U	5.5 U	4.3 U
Total Arochlors	25*	**256.0**	**42.0**	**117.0**	**79.5 J**	**68.4**	**35.4**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

PRE-EXCAVATION BULKHEAD SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H5-W3	H5-E4	H5-E4	H5-E4	H5-W4	H5-W4
		H5-W3 (6-8)	H5-E4 (0-2)	H5-E4 (2-4)	H5-E4 (4-6)	H5-W4 (0-2)	H5-W4 (2-4)
Date		6/25/2012	6/25/2012	6/25/2012	6/25/2012	6/25/2012	6/25/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	1.1 U	5.0 U	5.0 U	4.7 U	25 U	5.6 U
Aroclor 1221	25*	1.1 U	5.0 U	5.0 U	4.7 U	25 U	5.6 U
Aroclor 1232	25*	1.1 U	5.0 U	5.0 U	4.7 U	25 U	5.6 U
Aroclor 1242	25*	1.1 U	5.0 U	5.0 U	4.7 U	25 U	5.6 U
Aroclor 1248	25*	1.9	**34**	9.8	10	**80**	15
Aroclor 1254	25*	5.1	20	12	11 J	**37**	16
Aroclor 1260	25*	1.9	5.0 U	5.0 U	4.7 U	25	5.6 U
Aroclor 1262	25*	1.1 U	5.0 U	5.0 U	4.7 U	25 U	5.6 U
Aroclor 1268	25*	1.1 U	5.0 U	5.0 U	4.7 U	25 U	5.6 U
Total Arochlors	25*	8.9	**54.0**	21.8	21 J	**117.0**	**31.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H5-W4	H5-W4	H5-E5	H5-E5	H5-E5	H5-W5
		H5-W4 (4-6)	H5-W4 (6-8)	H5-E5 (0-2)	H5-E5 (2-4)	H5-E5 (4-6)	H5-W5 (0-2)
Date		6/25/2012	6/25/2012	6/25/2012	6/25/2012	6/25/2012	6/25/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	4.4 U	4.3 U	4.8 U	4.8 U	4.1 U	4.6 U
Aroclor 1221	25*	4.4 U	4.3 U	4.8 U	4.8 U	4.1 U	4.6 U
Aroclor 1232	25*	4.4 U	4.3 U	4.8 U	4.8 U	4.1 U	4.6 U
Aroclor 1242	25*	4.4 U	4.3 U	4.8 U	4.8 U	4.1 U	4.6 U
Aroclor 1248	25*	**26**	8	**38**	**37**	4.1 U	**39**
Aroclor 1254	25*	**28**	23	22	24	5.3	18
Aroclor 1260	25*	7.9	7.7	4.8 U	7.3	4.1 U	6.1
Aroclor 1262	25*	4.4 U	4.3 U	4.8 U	4.8 U	4.1 U	4.6 U
Aroclor 1268	25*	4.4 U	4.3 U	4.8 U	4.8 U	4.1 U	4.6 U
Total Arochlors	25*	**61.9**	**38.7**	**60.0**	**68.3**	5.3	**63.1**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H5-W5	H5-W5	H5-E6	H5-W6	H5-W6	H5-W6
		H5-W5 (2-4)	H5-W5 (4-6)	H5-E6 (0-2)	H5-W6 (0-2)	H5-W6 (2-4)	H5-W6 (4-6)
Date		6/25/2012	6/25/2012	6/25/2012	6/25/2012	6/25/2012	6/25/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	9.4 U	4.5 U	4.8 U	10 U	4.7 U	4.6 U
Aroclor 1221	25*	9.4 U	4.5 U	4.8 U	10 U	4.7 U	4.6 U
Aroclor 1232	25*	9.4 U	4.5 U	4.8 U	10 U	4.7 U	4.6 U
Aroclor 1242	25*	9.4 U	4.5 U	4.8 U	10 U	4.7 U	4.6 U
Aroclor 1248	25*	**63**	22	**36**	**76**	**31**	**40**
Aroclor 1254	25*	**29**	20	19	**32**	18	**26**
Aroclor 1260	25*	9.4 U	5.1	4.8 U	10 U	4.7 U	8.7
Aroclor 1262	25*	9.4 U	4.5 U	4.8 U	10 U	4.7 U	4.6 U
Aroclor 1268	25*	9.4 U	4.5 U	4.8 U	10 U	4.7 U	4.6 U
Total Arochlors	25*	**92.0**	**47.1**	**55.0**	**108.0**	**49.0**	**74.7**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

PRE-EXCAVATION BULKHEAD SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H5-E7	H5-E7	H5-E7	H5-W7	H5-W7	H5-W7
		H5-E7 (0-2)	H5-E7 (2-4)	H5-E7 (4-6)	H5-W7 (0-2)	H5-W7 (2-4)	H5-W7 (4-6)
Date		7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.8 U	9.3 U	5.4 U	2.5 U	4.7 U	4.5 U
Aroclor 1221	25*	4.8 U	9.3 U	5.4 U	2.5 U	4.7 U	4.5 U
Aroclor 1232	25*	4.8 U	9.3 U	5.4 U	2.5 U	4.7 U	4.5 U
Aroclor 1242	25*	4.8 U	9.3 U	5.4 U	2.5 U	4.7 U	4.5 U
Aroclor 1248	25*	13	**49**	11	12	4.7 U	**28**
Aroclor 1254	25*	9.7	22	6.2	11	**49**	17
Aroclor 1260	25*	4.8 U	9.3 U	5.4 U	6.2	9.5 J	5.1 J
Aroclor 1262	25*	4.8 U	9.3 U	5.4 U	2.5 U	4.7 U	4.5 U
Aroclor 1268	25*	4.8 U	9.3 U	5.4 U	2.5 U	4.7 U	4.5 U
Total Arochlors	25*	22.7	**71.0**	17.2	**29.2**	**58.5 J**	**50.1 J**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H5-E8	H5-E8	H5-E8	H5-W8	H5-W8	H5-W8
		H5-E8 (0-2)	H5-E8 (2-4)	H5-E8 (4-6)	H5-W8 (0-2)	H5-W8 (2-4)	H5-W8 (4-6)
Date		7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	9.5 U	5.0 U	4.5 U	4.5 U	4.8 U	4.9 U
Aroclor 1221	25*	9.5 U	5.0 U	4.5 U	4.5 U	4.8 U	4.9 U
Aroclor 1232	25*	9.5 U	5.0 U	4.5 U	4.5 U	4.8 U	4.9 U
Aroclor 1242	25*	9.5 U	5.0 U	4.5 U	4.5 U	4.8 U	4.9 U
Aroclor 1248	25*	**74**	**26**	7.4	19	**26**	22
Aroclor 1254	25*	**29**	10	5.6 J	23	24	17
Aroclor 1260	25*	9.5 U	5.0 U	4.5 U	6.4	6.5	4.9 U
Aroclor 1262	25*	9.5 U	5.0 U	4.5 U	4.5 U	4.8 U	4.9 U
Aroclor 1268	25*	9.5 U	5.0 U	4.5 U	4.5 U	4.8 U	8.5
Total Arochlors	25*	**103.0**	**36.0**	13 J	**48.4**	**56.5**	**47.5**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H5-W8	H5-E9	H5-E9	H5-E9	H5-W9	H5-W9
		H5-W8 (6-7)	H5-E9 (0-2)	H5-E9 (2-4)	H5-E9 (4-6)	H5-W9 (0-2)	H5-W9 (2-4)
Date		7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.3 U	5.1 U	4.6 U	0.12 U	4.4 U	5.2 U
Aroclor 1221	25*	4.3 U	5.1 U	4.6 U	0.12 U	4.4 U	5.2 U
Aroclor 1232	25*	4.3 U	5.1 U	4.6 U	0.12 U	4.4 U	5.2 U
Aroclor 1242	25*	4.3 U	5.1 U	4.6 U	0.12 U	4.4 U	5.2 U
Aroclor 1248	25*	9.9	**47**	6.6	0.12 U	**35**	**40**
Aroclor 1254	25*	15	17	6.4	0.12 U	21	**27**
Aroclor 1260	25*	4.9	5.1 U	4.6 U	0.12 U	4.4 U	5.2 U
Aroclor 1262	25*	4.3 U	5.1 U	4.6 U	0.12 U	4.4 U	5.2 U
Aroclor 1268	25*	4.3 U	5.1 U	4.6 U	0.12 U	4.4 U	5.2 U
Total Arochlors	25*	**29.8**	**64.0**	13.0	0.12 U	**56.0**	**67.0**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

PRE-EXCAVATION BULKHEAD SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H5-W9	H5-E10	H5-E10	H5-E10	H5-E10	H5-W10
		H5-W9 (4-5)	H5-E10 (0-2)	H5-E10 (2-4)	H5-E10 (4-6)	H5-E10 (6-7)	H5-W10 (0-2)
Date		7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	5.0 U	5.0 U	4.5 U	4.4 U	0.12 U	4.7 U
Aroclor 1221	25*	5.0 U	5.0 U	4.5 U	4.4 U	0.12 U	4.7 U
Aroclor 1232	25*	5.0 U	5.0 U	4.5 U	4.4 U	0.12 U	4.7 U
Aroclor 1242	25*	5.0 U	5.0 U	4.5 U	4.4 U	0.12 U	4.7 U
Aroclor 1248	25*	**62**	**42**	**55**	17	0.12 U	21
Aroclor 1254	25*	**28 J**	19	20	12	0.17	16
Aroclor 1260	25*	5.0 U	5.0 U	4.5 U	4.4 U	0.19	4.7 U
Aroclor 1262	25*	5.0 U	5.0 U	4.5 U	4.4 U	0.12 U	4.7 U
Aroclor 1268	25*	5.0 U	5.0 U	4.5 U	4.4 U	0.12 U	4.7 U
Total Arochlors	25*	**90 J**	**61.0**	**75.0**	**29.0**	0.36	**37.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H5-W10	H5-W10	H5-W10	H5-E11	H5-E11	H5-E11
		H5-W10 (2-4)	H5-W10 (4-6)	H5-W10 (6-7)	H5-E11 (0-2)	H5-E11 (2-4)	H5-E11 (4-5)
Date		7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	4.3 U	4.4 U	4.7 U	5.3 U	26 U	4.8 U
Aroclor 1221	25*	4.3 U	4.4 U	4.7 U	5.3 U	26 U	4.8 U
Aroclor 1232	25*	4.3 U	4.4 U	4.7 U	5.3 U	26 U	4.8 U
Aroclor 1242	25*	4.3 U	4.4 U	4.7 U	5.3 U	26 U	4.8 U
Aroclor 1248	25*	21	4.4 U	19	**39**	**110**	**38**
Aroclor 1254	25*	24	**33**	15	**27**	**40**	16
Aroclor 1260	25*	6.2	7.2 J	4.7 U	5.5 J	26 U	4.8 U
Aroclor 1262	25*	4.3 U	4.4 U	4.7 U	5.3 U	26 U	4.8 U
Aroclor 1268	25*	4.3 U	4.4 U	4.7 U	5.3 U	26 U	4.8 U
Total Arochlors	25*	**51.2**	**40.2 J**	**34.0**	**71.5 J**	**150.0**	**54.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H5-W11	H5-W11	H5-W11	H5-E12	H5-E12	H5-E12
		H5-W11 (0-2)	H5-W11 (2-4)	H5-W11 (4-6)	H5-E12 (0-2)	H5-E12 (2-4)	H5-E12 (4-6)
Date		7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.9 U	4.6 U	5.3 U	9.8 U	4.7 U	4.5 U
Aroclor 1221	25*	4.9 U	4.6 U	5.3 U	9.8 U	4.7 U	4.5 U
Aroclor 1232	25*	4.9 U	4.6 U	5.3 U	9.8 U	4.7 U	4.5 U
Aroclor 1242	25*	4.9 U	4.6 U	5.3 U	9.8 U	4.7 U	4.5 U
Aroclor 1248	25*	**46**	21	**32**	**94**	23	13 J
Aroclor 1254	25*	22	12	22	**34**	19	22
Aroclor 1260	25*	4.9 U	4.6 U	5.6	9.8 U	6.1 J	11
Aroclor 1262	25*	4.9 U	4.6 U	5.3 U	9.8 U	4.7 U	4.5 U
Aroclor 1268	25*	4.9 U	4.6 U	5.3 U	9.8 U	4.7 U	4.5 U
Total Arochlors	25*	**68.0**	**33.0**	**59.6**	**128.0**	**48.1 J**	**46 J**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

PRE-EXCAVATION BULKHEAD SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H5-E12	H5-W12	H5-W12	H5-W12	H5-W12	H5-E13
		H5-E12 (6-7)	H5-W12 (0-2)	H5-W12 (2-4)	H5-W12 (4-6)	H5-W12 (6-7)	H5-E13 (0-2)
Date		7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	0.12 U	4.7 U	24 U	4.8 U	4.4 U	53 U
Aroclor 1221	25*	0.12 U	4.7 U	24 U	4.8 U	4.4 U	53 U
Aroclor 1232	25*	0.12 U	4.7 U	24 U	4.8 U	4.4 U	53 U
Aroclor 1242	25*	0.12 U	4.7 U	24 U	4.8 U	4.4 U	53 U
Aroclor 1248	25*	0.12 U	24	**59**	**29**	11	**300**
Aroclor 1254	25*	0.12 U	16	**76**	**25**	**27**	**120**
Aroclor 1260	25*	0.12 U	4.7 U	24 U	7.7	10	53 U
Aroclor 1262	25*	0.12 U	4.7 U	24 U	4.8 U	4.4 U	53 U
Aroclor 1268	25*	0.12 U	4.7 U	24 U	4.8 U	4.4 U	53 U
Total Arochlors	25*	0.12 U	**40.0**	**135.0**	**61.7**	**48.0**	**420.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	H5-E13	H5-E13	H5-E14	H5-E14	H5-E14	H5-E14
		H5-E13 (2-4)	H5-E13 (4-6)	H5-E14 (0-2)	H5-E14 (2-4)	H5-E14 (4-6)	H5-E14 (6-8)
Date		7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	9.2 U	4.5 U	4.5 U	5.0 U	4.7 U	4.4 U
Aroclor 1221	25*	9.2 U	4.5 U	4.5 U	5.0 U	4.7 U	4.4 U
Aroclor 1232	25*	9.2 U	4.5 U	4.5 U	5.0 U	4.7 U	4.4 U
Aroclor 1242	25*	9.2 U	4.5 U	4.5 U	5.0 U	4.7 U	4.4 U
Aroclor 1248	25*	**56**	7.5	**34**	12	**51**	7 **J**
Aroclor 1254	25*	**27**	6.9	14	20 **J**	22	9.6
Aroclor 1260	25*	9.2 U	4.5 U	4.5 U	5.7 J	4.7 U	4.4 U
Aroclor 1262	25*	9.2 U	4.5 U	4.5 U	5.0 U	4.7 U	4.4 U
Aroclor 1268	25*	9.2 U	4.5 U	4.5 U	5.0 U	4.7 U	4.4 U
Total Arochlors	25*	**83.0**	14.4	**48.0**	**37.7 J**	**73.0**	16.6 **J**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	G5-NSW	I5-NSW	H5-NSW			
		G5-NSW (5-5.5)	I5-NSW (5-5.5)	H5-NSW (5-5.5)			
Date		1/21/2013	1/17/2013	1/23/2013			
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	5.2 U	5.1 U	10 U			
Aroclor 1221	25*	5.2 U	5.1 U	10 U			
Aroclor 1232	25*	5.2 U	5.1 U	10 U			
Aroclor 1242	25*	5.2 U	5.1 U	10 U			
Aroclor 1248	25*	**39**	19	**60**			
Aroclor 1254	25*	20	10	**58**			
Aroclor 1260	25*	5.2 U	5.1 U	10 U			
Aroclor 1262	25*	5.2 U	5.1 U	10 U			
Aroclor 1268	25*	5.2 U	5.1 U	10 U			
Total Arochlors	25*	**59.0**	**29.0**	**108.0**			

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

PRE-EXCAVATION BULKHEAD SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	F5-E3	F5-E3	F5-E3	F5-E4	F5-E4	F5-E4
		F5-E3 (0-2)	F5-E3 (2-4)	F5-E3 (4-6)	F5-E4 (0-2)	F5-E4 (2-4)	F5-E4 (4-6)
Date		6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.8 U	5.3 U	4.8 U	4.8 U	4.7 U	4.7 U
Aroclor 1221	25*	4.8 U	5.3 U	4.8 U	4.8 U	4.7 U	4.7 U
Aroclor 1232	25*	4.8 U	5.3 U	4.8 U	4.8 U	4.7 U	4.7 U
Aroclor 1242	25*	4.8 U	5.3 U	4.8 U	4.8 U	4.7 U	4.7 U
Aroclor 1248	25*	**32**	**37**	**35**	**31**	**27**	**29**
Aroclor 1254	25*	13	24	**43**	15	17	22
Aroclor 1260	25*	4.8 U	6.6	8.4 J	4.8 U	6.2	6
Aroclor 1262	25*	4.8 U	5.3 U	4.8 U	4.8 U	4.7 U	4.7 U
Aroclor 1268	25*	4.8 U	5.3 U	4.8 U	4.8 U	4.7 U	4.7 U
Total Arochlors	25*	**45.0**	**67.6**	**86.4 J**	**46.0**	**50.2**	**57.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	F5-W1	F5-W1	F5-W1	F5-W1	F5-W2	F5-W2
		F5-W1 (0-2)	F5-W1 (2-4)	F5-W1 (4-6)	F5-W1 (6-8)	F5-W2 (0-2)	F5-W2 (2-4)
Date		6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	5.3 U	22 U	5.1 U	0.44 U	5.3 U	11 U
Aroclor 1221	25*	5.3 U	22 U	5.1 U	0.44 U	5.3 U	11 U
Aroclor 1232	25*	5.3 U	22 U	5.1 U	0.44 U	5.3 U	11 U
Aroclor 1242	25*	5.3 U	22 U	5.1 U	0.44 U	5.3 U	11 U
Aroclor 1248	25*	**26**	**81**	**32**	0.44 U	**58**	**92**
Aroclor 1254	25*	11	**27**	**29**	2.1 J	**25**	**37**
Aroclor 1260	25*	5.3 U	22 U	5.1 U	1.2 J	5.3 U	11 U
Aroclor 1262	25*	5.3 U	22 U	5.1 U	0.44 U	5.3 U	11 U
Aroclor 1268	25*	5.3 U	22 U	5.1 U	0.44 U	5.3 U	11 U
Total Arochlors	25*	**37.0**	**108.0**	**61.0**	3.3 J	**83.0**	**129.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	F5-W2	F5-W2	F5-W3	F5-W3	F5-W3	F5-W4
		F5-W2 (4-6)	F5-W2 (6-8)	F5-W3 (0-2)	F5-W3 (2-4)	F5-W3 (4-6)	F5-W4 (0-2)
Date		6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.5 U	0.11 U	5.8 U	5.0 U	4.7 U	5.0 U
Aroclor 1221	25*	4.5 U	0.11 U	5.8 U	5.0 U	4.7 U	5.0 U
Aroclor 1232	25*	4.5 U	0.11 U	5.8 U	5.0 U	4.7 U	5.0 U
Aroclor 1242	25*	4.5 U	0.11 U	5.8 U	5.0 U	4.7 U	5.0 U
Aroclor 1248	25*	17 J	0.11 U	14	23	8.8	**30**
Aroclor 1254	25*	21 J	0.11 U	16	19	7.5	16
Aroclor 1260	25*	5.2	0.11 U	5.8 U	5.0 U	4.7 U	5.0 U
Aroclor 1262	25*	4.5 U	0.11 U	5.8 U	5.0 U	4.7 U	5.0 U
Aroclor 1268	25*	4.5 U	0.11 U	5.8 U	5.0 U	4.7 U	5.0 U
Total Arochlors	25*	**43.2 J**	0.11 U	**30.0**	**42.0**	16.3	**46.0**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
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U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

PRE-EXCAVATION BULKHEAD SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	F5-W4	F5-W4	F5-W4	F5-E5	F5-E5	F5-E5
		F5-W4 (2-4)	F5-W4 (4-6)	F5-W4 (6-8)	F5-E5 (0-2)	F5-E5 (2-4)	F5-E5 (4-6)
Date		6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	11 U	5.3 U	12 U	4.9 U	5.0 U	5.5 U
Aroclor 1221	25*	11 U	5.3 U	12 U	4.9 U	5.0 U	5.5 U
Aroclor 1232	25*	11 U	5.3 U	12 U	4.9 U	5.0 U	5.5 U
Aroclor 1242	25*	11 U	5.3 U	12 U	4.9 U	5.0 U	5.5 U
Aroclor 1248	25*	**64**	15	**98**	18	**29**	24
Aroclor 1254	25*	**29**	19	**110**	8.5	24	20
Aroclor 1260	25*	11 U	6.1	13	4.9 U	6.5	5.5 U
Aroclor 1262	25*	11 U	5.3 U	12 U	4.9 U	5.0 U	5.5 U
Aroclor 1268	25*	11 U	5.3 U	12 U	4.9 U	5.0 U	5.5 U
Total Arochlors	25*	**93.0**	**40.1**	**221.0**	**26.5**	**59.5**	**44.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	F5-E5	F5-W5	F5-W5	F5-W5	F5-W5	F5-W6
		F5-E5 (6-8)	F5-W5 (0-2)	F5-W5 (2-4)	F5-W5 (4-6)	F5-W5 (6-8)	F5-W6 (0-2)
Date		6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	4.2 U	5.0 U	5.2 U	4.5 U	0.45 U	5.6 U
Aroclor 1221	25*	4.2 U	5.0 U	5.2 U	4.5 U	0.45 U	5.6 U
Aroclor 1232	25*	4.2 U	5.0 U	5.2 U	4.5 U	0.45 U	5.6 U
Aroclor 1242	25*	4.2 U	5.0 U	5.2 U	4.5 U	0.45 U	5.6 U
Aroclor 1248	25*	9.7	**25**	**39**	**28**	0.75 J	17
Aroclor 1254	25*	12	20	**28**	22	1.4	24
Aroclor 1260	25*	4.2 U	5.0 U	6.9 J	5.8	0.46	5.6 U
Aroclor 1262	25*	4.2 U	5.0 U	5.2 U	4.5 U	0.45 U	5.6 U
Aroclor 1268	25*	4.2 U	5.0 U	5.2 U	4.5 U	0.45 U	5.6 U
Total Arochlors	25*	21.7	**45.0**	**73.9 J**	**55.8**	2.61 J	**41.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	F5-W6	F5-W6	F5-E6	F5-E6	F5-E6	F5-E6
		F5-W6 (2-4)	F5-W6 (4-6)	F5-E6 (0-2)	F5-E6 (2-4)	F5-E6 (4-6)	F5-E6 (6-7)
Date		6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	10 U	4.5 U	4.9 U	5.0 U	5.0 U	4.5 U
Aroclor 1221	25*	10 U	4.5 U	4.9 U	5.0 U	5.0 U	4.5 U
Aroclor 1232	25*	10 U	4.5 U	4.9 U	5.0 U	5.0 U	4.5 U
Aroclor 1242	25*	10 U	4.5 U	4.9 U	5.0 U	5.0 U	4.5 U
Aroclor 1248	25*	**51**	**26**	**25**	23	21	13
Aroclor 1254	25*	**27**	17	14	18	16	24
Aroclor 1260	25*	10 U	4.5 U	4.9 U	5.8	5.0 U	6.3 J
Aroclor 1262	25*	10 U	4.5 U	4.9 U	5.0 U	5.0 U	4.5 U
Aroclor 1268	25*	10 U	4.5 U	4.9 U	5.0 U	5.0 U	4.5 U
Total Arochlors	25*	**78.0**	**43.0**	**39.0**	**46.8**	**37.0**	**43.3 J**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

PRE-EXCAVATION BULKHEAD SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	F5-W7	F5-W7	F5-W7	F5-W8	F5-W8	F5-W8
		F5-W7 (0-2)	F5-W7 (2-4)	F5-W7 (4-6)	F5-W8 (0-2)	F5-W8 (2-4)	F5-W8 (4-6)
Date		7/24/2012	7/24/2012	7/24/2012	7/25/2012	7/25/2012	7/25/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	5.3 U	4.8 U	4.0 U	4.6 U	4.8 U	4.7 U
Aroclor 1221	25*	5.3 U	4.8 U	4.0 U	4.6 U	4.8 U	4.7 U
Aroclor 1232	25*	5.3 U	4.8 U	4.0 U	4.6 U	4.8 U	4.7 U
Aroclor 1242	25*	5.3 U	4.8 U	4.0 U	4.6 U	4.8 U	4.7 U
Aroclor 1248	25*	18 J	48	14	**26**	**36**	23
Aroclor 1254	25*	20	38	6.3	14	**31**	21
Aroclor 1260	25*	5.3 U	12 J	4.0 U	4.6 U	6.9	6.2
Aroclor 1262	25*	5.3 U	4.8 U	4.0 U	4.6 U	4.8 U	4.7 U
Aroclor 1268	25*	5.3 U	4.8 U	4.0 U	4.6 U	4.8 U	4.7 U
Total Arochlors	25*	**38 J**	**98 J**	20.3	**40.0**	**73.9**	**50.2**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	F5-W9	F5-W9	F5-W9	F5-W10	F5-W10	F5-W10
		F5-W9 (0-2)	F5-W9 (2-4)	F5-W9 (4-6)	F5-W10 (0-2)	F5-W10 (2-4)	F5-W10 (4-6)
Date		7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	4.7 U	5.0 U	4.9 U	4.6 U	4.6 U	4.8 U
Aroclor 1221	25*	4.7 U	5.0 U	4.9 U	4.6 U	4.6 U	4.8 U
Aroclor 1232	25*	4.7 U	5.0 U	4.9 U	4.6 U	4.6 U	4.8 U
Aroclor 1242	25*	4.7 U	5.0 U	4.9 U	4.6 U	4.6 U	4.8 U
Aroclor 1248	25*	15	11	24	20	**25**	21
Aroclor 1254	25*	13	11	23	11	14	21
Aroclor 1260	25*	4.7 U	5.0 U	5.3	4.6 U	4.6 U	5
Aroclor 1262	25*	4.7 U	5.0 U	4.9 U	4.6 U	4.6 U	4.8 U
Aroclor 1268	25*	4.7 U	5.0 U	4.9 U	4.6 U	4.6 U	4.8 U
Total Arochlors	25*	**28.0**	22.0	**52.3**	**31.0**	**39.0**	**47.0**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	F5-W11	F5-W11	F5-W11	F5-W12	F5-W12	F5-W12
		F5-W11 (0-2)	F5-W11 (2-4)	F5-W11 (4-6)	F5-W12 (0-2)	F5-W12 (2-4)	F5-W12 (4-6)
Date		7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.7 U	10 U	4.8 U	4.7 U	4.8 U	5.4 U
Aroclor 1221	25*	4.7 U	10 U	4.8 U	4.7 U	4.8 U	5.4 U
Aroclor 1232	25*	4.7 U	10 U	4.8 U	4.7 U	4.8 U	5.4 U
Aroclor 1242	25*	4.7 U	10 U	4.8 U	4.7 U	4.8 U	5.4 U
Aroclor 1248	25*	23	**81**	**43**	17	10 J	**61**
Aroclor 1254	25*	12	**42**	22	8.8	9.6	**32**
Aroclor 1260	25*	4.7 U	12 J	5.8 J	4.7 U	4.8 U	7.5
Aroclor 1262	25*	4.7 U	10 U	4.8 U	4.7 U	4.8 U	5.4 U
Aroclor 1268	25*	4.7 U	10 U	4.8 U	4.7 U	4.8 U	5.4 U
Total Arochlors	25*	**35.0**	**135 J**	**70.8 J**	**25.8**	19.6 J	**100.5**

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

PRE-EXCAVATION BULKHEAD SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	F5-W13	F5-W13	F5-W13	F5-W14	F5-W14	F5-W14
		F5-W13 (0-2)	F5-W13 (2-4)	F5-W13 (4-6)	F5-W14 (0-2)	F5-W14 (2-4)	F5-W14 (4-6)
Date		7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.8 U	5.0 U	5.0 U	5.1 U	6.6 U	4.8 U
Aroclor 1221	25*	4.8 U	5.0 U	5.0 U	5.1 U	6.6 U	4.8 U
Aroclor 1232	25*	4.8 U	5.0 U	5.0 U	5.1 U	6.6 U	4.8 U
Aroclor 1242	25*	4.8 U	5.0 U	5.0 U	5.1 U	6.6 U	4.8 U
Aroclor 1248	25*	**40**	**44**	**49**	5.1 U	20	4.8 U
Aroclor 1254	25*	21	**31**	33	12	17	21
Aroclor 1260	25*	5.8	9.0	8.5	5.1 U	6.6 U	5.2 J
Aroclor 1262	25*	4.8 U	5.0 U	5.0 U	5.1 U	6.6 U	4.8 U
Aroclor 1268	25*	4.8 U	5.0 U	5.0 U	5.1 U	6.6 U	4.8 U
Total Arochlors	25*	**66.8**	**84.0**	**90.5**	12.0	**37.0**	**26.2 J**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial						
Date							
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*						
Aroclor 1221	25*						
Aroclor 1232	25*						
Aroclor 1242	25*						
Aroclor 1248	25*						
Aroclor 1254	25*						
Aroclor 1260	25*						
Aroclor 1262	25*						
Aroclor 1268	25*						
Total Arochlors	25*						

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	F5-NSW					
		F5-NSW (5-5.5)					
Date		1/18/2013					
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	5.1 U					
Aroclor 1221	25*	5.1 U					
Aroclor 1232	25*	5.1 U					
Aroclor 1242	25*	5.1 U					
Aroclor 1248	25*	16					
Aroclor 1254	25*	7.3					
Aroclor 1260	25*	5.1 U					
Aroclor 1262	25*	5.1 U					
Aroclor 1268	25*	5.1 U					
Total Arochlors	25*	23.3					

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil Cleanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

BULKHEAD ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	SSB-1	SSB-2	SSB-3	SSB-4	SSB-5	SSB-6
		SSB-1 (120-126)	SSB-2 (102-108)	SSB-3 (120-126)	SSB-4 (120-126)	SSB-5 (120-126)	SSB-6 (120-126)
Date		1/25/2013	1/25/2013	1/28/2013	1/28/2013	1/29/2013	1/29/2013
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.6 U	4.9 U	4.8 U	4.5 U	5.5 U	4.7 U
Aroclor 1221	25*	4.6 U	4.9 U	4.8 U	4.5 U	5.5 U	4.7 U
Aroclor 1232	25*	4.6 U	4.9 U	4.8 U	4.5 U	5.5 U	4.7 U
Aroclor 1242	25*	4.6 U	4.9 U	4.8 U	4.5 U	5.5 U	4.7 U
Aroclor 1248	25*	6.5	14	9.6	19	19	12
Aroclor 1254	25*	8.3	**25**	6.9	11	12	9.2
Aroclor 1260	25*	4.7	6.1	4.8 U	4.5 U	5.5 U	4.7 U
Aroclor 1262	25*	4.6 U	4.9 U	4.8 U	4.5 U	5.5 U	4.7 U
Aroclor 1268	25*	4.6 U	4.9 U	4.8 U	4.5 U	5.5 U	4.7 U
Total Arochlors	25*	19.5	**45.1**	16.5	**30**	**31**	21.2

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	SSB-7	SSB-8	ESB-1	ESB-2	ESB-2-1	ESB-3
		SSB-7 (120-126)	SSB-8 (84-90)	ESB-1 (108-114)	ESB-2 (108-114)	ESB-2 (132-138)	ESB-3 (108-114)
Date		1/29/2013	1/28/2013	2/1/2013	2/1/2013	2/6/2013	2/6/2013
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	4.7 U	4.6 U	4.7 U	5.2 U	4.9 U	4.9 U
Aroclor 1221	25*	4.7 U	4.6 U	4.7 U	5.2 U	4.9 U	4.9 U
Aroclor 1232	25*	4.7 U	4.6 U	4.7 U	5.2 U	4.9 U	4.9 U
Aroclor 1242	25*	4.7 U	4.6 U	4.7 U	5.2 U	4.9 U	4.9 U
Aroclor 1248	25*	12	15	17	**28**	12	7.4
Aroclor 1254	25*	6.4	15	13	21	12	5.3
Aroclor 1260	25*	4.7 U	4.6	4.7 U	5.4	4.9 U	4.9 U
Aroclor 1262	25*	4.7 U	4.6 U	4.7 U	5.2 U	4.9 U	4.9 U
Aroclor 1268	25*	4.7 U	4.6 U	4.7 U	5.2 U	4.9 U	4.9 U
Total Arochlors	25*	18.4	**30.0**	**30.0**	**54.4**	24.0	12.7

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	ESB-4	ESB-5	ESB-6	ESB-7	ESB-8	SSB-2-1
		ESB-4 (108-114)	ESB-5 (108-114)	ESB-6 (108-114)	ESB-7 (108-114)	ESB-8 (108-114)	SSB-2-1 (126-132)
Date		2/6/2013	2/6/2013	2/6/2013	2/6/2013	2/6/2013	2/20/2013
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.9 U	4.7 U	5.2 U	4.6 U	5.2 U	2.4 U
Aroclor 1221	25*	4.9 U	4.7 U	5.2 U	4.6 U	5.2 U	2.4 U
Aroclor 1232	25*	4.9 U	4.7 U	5.2 U	4.6 U	5.2 U	2.4 U
Aroclor 1242	25*	4.9 U	4.7 U	5.2 U	4.6 U	5.2 U	2.4 U
Aroclor 1248	25*	8.4	22	**26**	**29**	22	2.8
Aroclor 1254	25*	8	10	18	17	19	2.5
Aroclor 1260	25*	4.9 U	4.7 U	5.2 U	4.6 U	5.2 U	2.4
Aroclor 1262	25*	4.9 U	4.7 U	5.2 U	4.6 U	5.2 U	2.4 U
Aroclor 1268	25*	4.9 U	4.7 U	5.2 U	4.6 U	5.2 U	2.4 U
Total Arochlors	25*	16.4	**32.0**	**44.0**	**46.0**	**41.0**	5.3

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil C leanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-5

BULKHEAD ENDPOINT SAMPLE RESULTS - PCBs
Restricted Use - Industrial SCOs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	SSB-4-1	SSB-5-1	SSB-8-1	ESB-1-1	ESB-5-1	ESB-6-1
		SSB-4-1 (132-138)	SSB-5-1 (132-1386)	SSB-8-1 (108-114)	ESB-1-1 (132-138)	ESB-5-1 (132-138)	ESB-6-1 (132-138)
Date		2/20/2013	2/20/2013	2/20/2013	2/20/2013	2/20/2013	2/20/2013
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	2.4 U	4.7 U	2.4 U	2.4 U	4.6 U	4.4 U
Aroclor 1221	25*	2.4 U	4.7 U	2.4 U	2.4 U	4.6 U	4.4 U
Aroclor 1232	25*	2.4 U	4.7 U	2.4 U	2.4 U	4.6 U	4.4 U
Aroclor 1242	25*	2.4 U	4.7 U	2.4 U	2.4 U	4.6 U	4.4 U
Aroclor 1248	25*	2.4 U	20	2.4 U	4.7	21	19
Aroclor 1254	25*	3.5	**28**	2.4 U	2.6	23	17
Aroclor 1260	25*	2.4 U	6.9	2.4	2.4 U	7.5	6.4
Aroclor 1262	25*	2.4 U	4.7 U	2.4 U	2.4 U	4.6 U	4.4 U
Aroclor 1268	25*	2.4 U	4.7 U	2.4 U	2.4 U	4.6 U	4.4 U
Total Arochlors	25*	3.5	**54.9**	2.4	7.3	**51.5**	**42.4**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	ESB-7-1	ESB-8-1	SSB-5-2	ESB-5-2	ESB-6-2	ESB-7-2
		ESB-7-1 (132-138)	ESB-8-1 (132-138)	SSB-5-2 (144-150)	ESB-5-2 (156-162)	ESB-6-2 (156-162)	ESB-7-2 (156-162)
Date		2/20/2013	2/20/2013	2/26/2013	2/26/2013	2/26/2013	2/26/2013
PCBs (µg/kg) - Method 8082							
Aroclor 1016	25*	4.5 U	4.5 U	0.12 U	0.24 U	1.2 U	4.5 U
Aroclor 1221	25*	4.5 U	4.5 U	0.12 U	0.24 U	1.2 U	4.5 U
Aroclor 1232	25*	4.5 U	4.5 U	0.12 U	0.24 U	1.2 U	4.5 U
Aroclor 1242	25*	4.5 U	4.5 U	0.12 U	0.24 U	1.2 U	4.5 U
Aroclor 1248	25*	**25**	**27**	0.12 U	0.47	1.2	18
Aroclor 1254	25*	24	**34**	0.12 U	0.78	2.6	23
Aroclor 1260	25*	11	12	0.12 U	0.43	1.9	6.1
Aroclor 1262	25*	4.5 U	4.5 U	0.12 U	0.24 U	1.2 U	4.5 U
Aroclor 1268	25*	4.5 U	4.5 U	0.12 U	0.24 U	1.2 U	4.5 U
Total Arochlors	25*	**60.0**	**73.0**	0.12 U	1.68	5.7	**47.1**

Compound	Brownfields Restricted Use Soil Cleanup Objectives Protection of Public Health Industrial	ESB-8-2	ESB-7-3				
		ESB-8-2 (156-162)	ESB-7-3 (162-168)				
Date		2/26/2013	2/28/2013				
PCBs (mg/kg) - Method 8082							
Aroclor 1016	25*	4.7 U	4.9 U				
Aroclor 1221	25*	4.7 U	4.9 U				
Aroclor 1232	25*	4.7 U	4.9 U				
Aroclor 1242	25*	4.7 U	4.9 U				
Aroclor 1248	25*	4.7	8				
Aroclor 1254	25*	6.9	12				
Aroclor 1260	25*	4.7 U	4.9 U				
Aroclor 1262	25*	4.7 U	4.9 U				
Aroclor 1268	25*	4.7 U	4.9 U				
Total Arochlors	25*	11.6	20.0				

NOTES
Sample analysis by Con-Test of East Longmeadow, MA
* Standard applies to total Aroclor's
** = Recovery or RPD exceeds control limits
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
D = Diluted Sample
J = Estimated Value
Values in **bold** exceed the NYSDEC Brownfields Soil C leanup Objectives for protection of Public Health-Industrial
USEPA High Occupancy Area Criteria of 10 mg/kg used for remedial areas located within the proposed warehouse expansion area

TABLE 4-6

CONTAMINATED SOIL EXCAVATION AND DISPOSAL QUANTITIES/FACILITY

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

ROLLING FRITO-LAY SALES, LP
COMPARISON OF WASTE REMOVED FROM MORGAN AVENUE SITE
TO WASTE DISPOSAL FACILITY BY REMEDIAL AREA

CELL	WEIGHT IN AT WASTE FACILITY (Kg)	WEIGHT IN AT WASTE FACILITY (Tons)	DISPOSAL FACILITY
A1	885,749	976.37	GROWS LANDFILL
A2	515,891	568.67	GROWS LANDFILL
A3	610,838	673.33	GROWS LANDFILL
B1	1,178,457	1,299.02	GROWS LANDFILL
B1A	62,646	69.06	CLEAN EARTH OF NORTH JERSEY
B5	317,037	349.47	MODEL CITY LANDFILL
C5	414,182	456.56	MODEL CITY LANDFILL
D2	454,297	500.78	MODEL CITY LANDFILL
D3	1,095,269	1,207.33	MODEL CITY LANDFILL
D5	767,431	845.95	MODEL CITY LANDFILL
E1A	390,204	430.13	MODEL CITY LANDFILL/CELL B1
E1D	22,571	24.88	MODEL CITY LANDFILL/CELL B1
E2D	228,416	251.79	MODEL CITY LANDFILL
E3A	820,928	904.92	MODEL CITY LANDFILL/CELL B1
E3D	425,058	468.55	MODEL CITY LANDFILL/CELL B1
E4B	825,336	909.78	MODEL CITY LANDFILL
E4C	591,792	652.34	MODEL CITY LANDFILL
E4D	316,148	348.49	MODEL CITY LANDFILL
E5	434,628	479.09	MODEL CITY LANDFILL
F4C	496,735	547.56	MODEL CITY LANDFILL
F5	442,909	488.22	MODEL CITY LANDFILL
G2	277,782	306.20	MODEL CITY LANDFILL
G5	388,067	427.77	MODEL CITY LANDFILL
H3B	856,829	944.49	MODEL CITY LANDFILL
H3C	1,465,004	1,614.89	MODEL CITY LANDFILL
H3D	493,857	544.38	MODEL CITY LANDFILL
H4C	1,004,133	1,106.87	MODEL CITY LANDFILL
H4D	110,351	121.64	MODEL CITY LANDFILL
H5	431,791	475.97	MODEL CITY LANDFILL
I5	391,238	431.27	MODEL CITY LANDFILL
J1	584,161	643.93	MODEL CITY LANDFILL
J2	301,479	332.32	MODEL CITY LANDFILL
J3	792,108	873.15	MODEL CITY LANDFILL
J4	619,621	683.01	MODEL CITY LANDFILL
J5	250,938	276.61	MODEL CITY LANDFILL
TOTAL	**19,263,881**	**21,234.77**	

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
1	8925636	J5	32,623
2	8925637	J5	32,550
3	8925638	J5	30,318
4	8925639	J5	31,189
5	8925640	H3D	31,697
6	8925674	H3D	29,184
7	8925652	H3D	30,944
8	8925675	G2	21,845
9	8925676	G2	22,607
10	8925677	G2	22,226
11	8925678	G2	28,876
12	8925654	H3D	32,423
13	8925655	H3D	31,788
14	8925678	H3D	22,952
15	8925656	H3D	30,636
16	8925657	G2	31,752
17	8925679	D2	28,740
18	123133	A3	19,994
19	123139	A3	17,944
20	123135	A3	16,293
21	123136	A3	17,826
22	123137	A3	16,520
23	123138	A3	17,518
24	123140	A3	19,550
25	123141	A3	18,434
26	123142	A3	16,602
27	123143	A3	16,837
28	123144	A3	17,463
29	123145	A3	16,420
30	123146	A3	16,311
31	123147	A3	18,126
32	123148	A3	18,216
33	123149	A3	20,811
34	123150	A3	19,777
35	123151	A3	19,024
36	123152	A3	19,396
37	123153	A3	20,638
38	123155	A3	20,983
39	123157	A3	18,588
40	123156	A3	17,962
41	123015	A3	19,777
42	123016	A3	20,158
43	123017	A3	18,561
44	123158	A3	18,380
45	123159	A3	17,726
46	123160	A3	19,740

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
47	123161	A3	18,824
48	123162	A3	18,325
49	123163	A3	18,098
50	123164	A3	18,706
51	8925658	J5	32,432
52	8925659	J5	29,221
53	8925660	J5	30,690
54	8925672	J5	31,915
55	123018	A2	21,446
56	123019	A2	20,267
57	123020	A2	20,022
58	123021	A2	17,146
59	123022	A2	17,926
60	123023	A2	16,402
61	123024	A2	20,448
62	123025	A2	15,803
63	123026	A2	19,405
64	123027	A2	15,685
65	123028	A2	20,657
66	123029	A2	21,047
67	123030	A2	19,160
68	123031	A2	19,423
69	123032	A2	18,570
70	123033	A2	19,504
71	123034	A2	18,253
72	123035	A2	19,967
73	123036	A2	20,693
74	123037	A2	16,230
75	123038	A2	21,083
76	123039	A2	19,913
77	123040	A2	18,860
78	123091	A2	19,922
79	123092	A2	18,679
80	123093	A2	18,742
81	123094	A2	19,232
82	123095	A1	19,006
83	123096	A1	19,151
84	123097	A1	20,149
85	123098	A1	20,883
86	123099	A1	17,717
87	123100	A1	17,137
88	8930290	B1A	20,248
89	123101	A1	18,534
90	123102	A1	18,080
91	123103	A1	17,989
92	123104	A1	18,361

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
93	123105	A1	18,770
94	123106	A1	18,044
95	123107	A1	19,123
96	8930291	B1A	21,056
97	123108	A1	20,257
98	123109	A1	20,611
99	123110	A1	19,096
100	123111	A1	18,779
101	123112	A1	19,759
102	123113	A1	18,779
103	123114	A1	18,706
104	123115	A1	18,915
105	123116	A1	18,779
106	123117	A1	19,523
107	8930292	B1A	21,210
108	123118	B1	21,210
109	123119	B1	19,759
110	123120	B1	19,749
111	123121	B1	19,976
112	123122	B1	19,133
113	8925680	D2	22,689
114	8925683	D2	20,684
115	8925682	D2	21,401
116	8925681	D2	19,768
117	8925684	D2	20,575
118	8925685	D2	21,646
119	123123	A1	20,638
120	8925686	G2	23,406
121	123124	A1	18,171
122	123125	A1	18,298
123	123126	A1	19,142
124	123127	A1	18,072
125	8925687	G2	20,693
126	8925688	G2	21,346
127	8925692	G2	22,009
128	123128	A1	21,355
129	123129	A1	18,534
130	123130	A1	17,917
131	123131	A1	18,779
132	123132	A1	19,432
133	8925693	G2	21,373
134	8925694	G2	19,731
135	123041	A1	21,228
136	123042	A1	18,153
137	123043	A1	19,196
138	123044	A1	18,244

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
139	123045	A1	18,806
140	8925695	G2	21,918
141	8925696	H3D	21,546
142	123046	A1	18,770
143	123047	A1	21,618
144	8925706	E4B	21,500
145	8925707	E4B	21,092
146	123048	A1	20,902
147	123049	A1	19,260
148	8925702	H3D	22,580
149	8925703	H3D	21,083
150	8925697	E4B	22,571
151	8925698	E4B	21,537
152	8925699	E4B	21,074
153	8925700	E4B	22,943
154	8925668	H3D	28,350
155	8925669	H3D	29,057
156	8925708	H3D	29,556
157	8925709	H3D	25,855
158	8925701	E4B	23,124
159	8925710	E4B	28,395
160	8925711	E4B	29,112
161	8925724	E4B	22,607
162	8925725	E4B	21,682
163	8925726	E4B	21,845
164	8925727	E4B	23,124
165	8925728	D2	22,607
166	8925729	D2	21,519
167	8925730	D2	20,385
168	8925731	D2	21,410
169	8925732	D2	20,766
170	8925712	D2	28,177
171	8925733	D2	22,861
172	8925713	D2	30,563
173	8925748	D2	23,106
174	8925734	D2	21,092
175	8925749	D2	22,535
176	8925750	D2	21,256
177	97220	E4D	21,419
178	97221	E4D	22,290
179	8925751	D2	22,517
180	8925752	H3D	19,314
181	8925753	H3D	22,290
182	8925754	H3D	20,630
183	8925755	H3D	21,773
184	8925756	H3D	22,199

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
185	8925757	E4B	22,371
186	8925758	E4B	22,326
187	8925759	E4B	22,544
188	8925760	E4B	20,621
189	8925761	E4B	21,555
190	123056	A1	22,208
191	123057	A1	20,366
192	8925762	E4B	21,246
193	8925763	E4B	21,074
194	8925764	E4B	21,791
195	123061	A1	20,765
196	123062	A1	17,862
197	8925765	E4B	23,052
198	8925766	E4B	21,791
199	8925783	E4B	22,054
200	8925784	E4B	22,199
201	8925785	E4B	20,720
202	8925786	E4B	23,170
203	8925787	E4B	22,308
204	8925788	E4B	21,482
205	8925789	E4B	22,471
206	8925790	E4B	22,235
207	8925791	E4B	22,272
208	8925792	E4B	23,097
209	8925793	E4B	20,276
210	8925794	E4B	19,768
211	8925795	E4B	22,226
212	8925796	E4B	22,081
213	8925719	H3B	29,575
214	8925720	H3B	28,177
215	8925721	H3B	29,674
216	8925722	H3B	27,987
217	8925809	H3B	22,725
218	8925810	H3B	20,475
219	8925811	H3B	20,330
220	8925812	H3B	22,308
221	8925741	H4C	29,647
222	8925742	H4C	31,253
223	8925813	H4C	22,689
224	8925814	H4C	21,265
225	8925743	H4C	29,466
226	8925744	H4C	30,073
227	8925815	H4C	20,122
228	8925745	H4C	31,806
229	8925816	H4C	20,004
230	8925817	H4C	20,122

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
231	8925818	H4C	18,833
232	8925819	H3C	19,614
233	8925820	H3C	21,755
234	8925801	H3C	19,142
235	8925802	H3C	20,938
236	8925803	H3C	22,099
237	8925746	H3C	28,023
238	8925804	H3B	19,904
239	8925805	H3B	20,684
240	8925806	H3B	21,201
241	8925808	H3B	21,500
242	8925822	H3B	19,078
243	8925714	H3B	29,538
244	8925715	H3B	31,071
245	8925716	H3B	30,092
246	8925852	H3B	31,507
247	8925853	H3B	22,380
248	8925823	H3B	19,931
249	8925717	H3B	27,833
250	8925824	H3C	21,791
251	8925825	H3C	21,319
252	8925826	H3C	20,457
253	8925827	H3C	19,949
254	8925828	H3C	19,414
255	8925829	H4C	22,535
256	8925831	H4C	21,083
257	8925832	H4C	21,900
258	8925833	H4C	19,813
259	8925834	H4C	20,648
260	8925835	H4C	23,170
261	8925718	H4C	29,783
262	8925836	H3C	22,235
263	8925878	H3B	31,017
264	8925879	H3B	32,251
265	8925880	H3B	28,921
266	8925837	H3C	21,900
267	8925838	H3C	21,346
268	8925881	H3C	29,194
269	8925839	H3C	20,412
270	8925840	H3C	21,882
271	8925841	H3C	22,009
272	8925842	H3C	21,936
273	8925843	H3C	21,464
274	8925844	H3C	22,272
275	8925845	H3C	22,771
276	8925846	H4C	22,435

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
277	8925847	H4C	23,351
278	8925848	H4C	22,752
279	8925849	H4C	17,028
280	8925850	H4C	22,943
281	8925851	H4C	22,371
282	8925903	H4C	22,480
283	8925904	H4C	20,221
284	8925905	H4C	20,992
285	8925906	H4C	21,174
286	8925907	H4C	21,791
287	8925908	H4C	23,279
288	8925909	H4C	23,514
289	8925910	H4C	21,863
290	8925911	F4C	21,573
291	8925912	F4C	22,671
292	8925913	F4C	22,072
293	8925768	E4D	22,988
294	8925769	E4D	22,371
295	8925770	E4D	21,673
296	8925771	E4D	22,244
297	8925772	E4D	21,628
298	8925773	E4D	22,335
299	8925774	E4D	22,780
300	8925775	E4D	21,718
301	8925915	F4C	22,145
302	8925916	F4C	22,136
303	8925917	F4C	21,990
304	8925776	E4D	21,373
305	8925777	E4D	21,691
306	8925778	E4D	21,410
307	8925919	F4C	22,244
308	8925920	F4C	22,662
309	8925921	F4C	22,045
310	8925922	F4C	22,607
311	8925923	F4C	22,353
312	8925924	F4C	22,290
313	8925925	F4C	21,972
314	8925926	F4C	20,503
315	8925928	H3B	21,364
316	8925929	H3B	23,206
317	8925930	H3B	22,489
318	8925931	H3B	21,999
319	8925883	H3B	28,268
320	8925884	H3B	28,745
321	8925932	H3B	21,265
322	8925934	H3B	21,646

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
323	8925885	H3B	29,946
324	8925886	H3B	28,069
325	8925935	H3B	21,673
326	8925937	E4C	22,671
327	8925938	E4C	22,045
328	8925939	E4C	23,215
329	8925940	E4C	22,453
330	8925941	E4C	23,533
331	8925942	E4C	21,818
332	8925943	H4C	21,845
333	8925944	H4C	21,500
334	8925945	H4C	22,024
335	8925946	H3C	21,954
336	8925947	H3C	21,491
337	8925948	D5	22,544
338	8925949	D5	22,235
339	8925950	D5	20,593
340	8925951	D5	23,397
341	8924952	D5	22,253
342	8925953	D5	22,199
343	8925954	D5	20,684
344	8925887	D5	29,311
345	8925888	D5	32,115
346	8925889	C5	31,434
347	8925890	H3C	30,591
348	8925955	H3C	22,145
349	8925956	H3C	22,290
350	8925957	H3C	21,537
351	8925958	H4C	20,956
352	8925959	H4C	22,771
353	8925960	H4C	22,272
354	8925961	H4C	23,079
355	8925962	H4C	21,029
356	8925963	H4C	21,845
357	8925964	C5	23,016
358	8925965	C5	22,108
359	8925966	C5	21,410
360	8925967	C5	23,197
361	8925968	H4C	21,482
362	8925985	H4C	22,199
363	8925986	H4C	22,725
364	8925987	H3C	20,965
365	408809	B1	20,484
366	408810	B1	17,273
367	408811	B1	18,262
368	408812	B1	14,252

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
369	408813	B1	16,456
370	408814	B1	18,588
371	408815	B1	17,191
372	408816	B1	17,808
373	408817	B1	19,033
374	408818	B1	18,978
375	8925988	H3C	20,829
376	408819	B1	18,842
377	408820	B1	17,971
378	408821	B1	18,244
379	408822	B1	15,758
380	408823	B1	19,151
381	408824	B1	18,144
382	408825	B1	19,695
383	408826	B1	19,768
384	408827	B1	19,895
385	408828	B1	18,525
386	8925989	H3C	22,217
387	8925990	F4C	21,764
388	8925991	F4C	21,954
389	408829	B1	19,060
390	408830	B1	18,851
391	408831	B1	20,493
392	408832	B1	18,343
393	408833	B1	18,960
394	408834	B1	17,608
395	408835	B1	18,634
396	408836	B1	19,269
397	408837	B1	18,516
398	408838	B1	21,219
399	8925992	F4C	22,317
400	8925993	F4C	21,528
401	408839	B1	18,860
402	408840	B1	19,006
403	408841	B1	18,008
404	408842	B1	19,822
405	408843	B1	17,500
406	408844	B1	21,237
407	408845	B1	20,883
408	408846	B1	21,001
409	408847	B1	21,237
410	408848	B1	20,657
411	8925994	F4C	19,278
412	8925995	F4C	21,918
413	408849	B1	22,906
414	408850	B1	24,149

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
415	408851	B1	23,124
416	408852	B1	19,441
417	408853	B1	22,017
418	408854	B1	21,183
419	408855	B1	21,373
420	408856	B1	21,219
421	408857	B1	20,421
422	408858	B1	21,074
423	8925996	H3C	22,408
424	8925997	H3C	22,571
425	8925998	H3C	22,417
426	8925999	H3C	22,870
427	123058	B1	18,470
428	123059	B1	15,295
429	123060	B1	15,567
430	123063	B1	18,165
431	123064	B1	17,853
432	123065	B1	20,466
433	8925969	F4C	29,801
434	8925970	F4C	28,912
435	8925891	E4D	30,228
436	8925892	E4C	25,792
437	8926000	E4C	22,462
438	9979009	E4C	21,373
439	9979010	E4C	21,174
440	8925971	E4C	30,455
441	8925972	E4C	23,152
442	8925973	E4C	31,371
443	9979011	E4C	21,092
444	9979012	E4C	22,380
445	9979013	E4C	20,575
446	9979014	E4C	22,217
447	8925974	E4C	31,362
448	9979015	H4D	21,002
449	8925975	H4D	28,685
450	8925976	H4D	31,997
451	8925977	H4D	28,667
452	9979016	E4C	23,143
453	8925978	E4C	31,253
454	8925979	E4C	30,863
455	8925981	H3C	30,663
456	9979017	H3C	22,009
457	9979018	H3C	20,920
458	8925980	H3C	29,711
459	8925982	H3C	29,638
460	8925854	H3C	37,340

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
461	8925855	E4C	34,020
462	9979019	E4C	22,979
463	9979020	E4C	20,394
464	9979021	C5	22,752
465	8925983	H3C	31,171
466	8925984	H3C	28,323
467	123066	D3	19,072
468	123067	D3	18,336
469	123068	D3	18,800
470	123069	D3	19,909
471	123070	D3	18,827
472	123071	D3	18,627
473	123072	D3	19,636
474	123073	D3	19,200
475	123074	D3	19,436
476	123075	D3	19,245
477	123076	D3	17,564
478	123077	D3	18,773
479	123078	D3	19,491
480	123079	D3	19,409
481	9979028	H3C	30,627
482	9979027	H3C	30,572
483	9979029	H3C	29,103
484	9979030	H3C	29,774
485	123080	D3	19,173
486	123081	D3	18,882
487	9979052	H3C	22,090
488	9979031	H3C	30,219
489	9979023	H3C	22,027
490	9979032	H3C	29,611
491	9979042	H3C	30,155
492	9979024	H3C	19,641
493	9979068	H3C	22,099
494	9979043	H3C	30,200
495	9979044	H3C	29,112
496	9979045	H3C	29,792
497	9979069	H3C	21,011
498	9979070	H3C	22,045
499	9979040	E3D	30,618
500	9979041	H3C	30,944
501	9979033	E3D	32,759
502	9979034	E3D	32,822
503	9979054	E3D	22,181
504	8925856	E3D	35,925
505	9979046	E3D	29,457
506	9979047	E3D	30,745

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
507	9979055	E3D	20,321
508	9979056	E3D	23,034
509	9979057	E3D	22,907
510	9979036	E3A	31,643
511	9979035	E3A	32,795
512	9979058	E3A	21,591
513	9979037	E3A	29,175
514	9979059	E3A	20,893
515	9979060	E3A	22,507
516	9979038	E3A	31,235
517	9979061	E3A	22,834
518	9979062	E3A	22,235
519	9979039	E3A	32,323
520	8925857	E3A	33,784
521	9979064	E3A	20,811
522	9979074	D3	32,450
523	9979065	D3	22,344
524	9979066	D3	23,759
525	9979067	E3A	21,909
526	9979071	F5	20,893
527	9979072	F5	21,999
528	9979075	F5	27,751
529	9979076	D3	30,491
530	9979083	D3	30,436
531	8925779	D5	30,418
532	8925782	D5	35,308
533	9979073	D3	24,957
534	9979087	D3	23,070
535	9979088	D3	21,473
536	9979077	D3	31,271
537	9979089	D3	22,453
538	9979090	D3	21,310
539	9979078	D3	31,080
540	9979091	D3	24,594
541	9979079	D3	29,248
542	9979080	D3	30,327
543	8925860	D3	34,183
544	9979092	D3	21,210
545	9979093	D3	21,047
546	9979094	E1D	22,571
547	9979095	E1A	21,700
548	9979081	E1A	30,763
549	9979096	E1A	22,018
550	9979082	E1A	24,939
551	8925861	E1A	33,938
552	9979097	E1A	20,176

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
553	9979098	E1A	22,281
554	9979099	E1A	21,510
555	8925862	E1A	31,824
556	9979131	E1A	21,310
557	9979132	E1A	20,094
558	9979133	E1A	22,480
559	8925863	E1A	33,521
560	9979134	E1A	20,639
561	9979136	E1A	21,628
562	9979137	E1A	21,383
563	9979138	D5	22,263
564	9979139	D5	22,253
565	9979140	D5	22,589
566	9979141	D5	22,190
567	9979100	D5	31,380
568	9979101	D5	20,611
569	9979102	D5	20,802
570	9979103	D5	21,319
571	9979104	D5	21,510
572	9979105	D5	21,755
573	8925867	E3A	32,713
574	9979142	E3A	22,009
575	9979143	E3A	22,145
576	9979144	E3A	24,585
577	8925868	D3	31,516
578	9979145	D3	21,782
579	9979146	D3	21,618
580	9979147	D3	22,145
581	9979148	D3	24,358
582	9979149	D3	20,757
583	9979150	D3	22,653
584	9979157	D3	21,609
585	9979158	D3	22,870
586	9979159	D3	21,963
587	9979160	D3	22,099
588	9979161	D3	25,837
589	8925869	D3	35,979
590	9979162	E3A	20,512
591	9979163	E3A	22,380
592	9979164	E3A	21,909
593	9979165	E3A	21,664
594	9979166	E3A	22,680
595	9979167	E3A	22,253
596	9979168	E3A	20,466
597	9979169	E3A	22,181
598	9979170	E3A	22,571

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
599	9979171	E3D	24,168
600	8925870	E3D	32,178
601	9979172	E3D	22,163
602	9979173	E3D	22,117
603	9979174	E3D	21,872
604	9979175	E3D	21,791
605	9979176	E3A	22,970
606	9979178	J1	19,922
607	9979204	J1	30,482
608	9979179	J3	22,852
609	8925871	J3	32,750
610	9979180	J3	22,272
611	8925872	E3A	34,628
612	9979181	E3A	24,122
613	9979182	E3A	20,711
614	9979183	E3A	23,560
615	9979205	E3A	32,704
616	9979184	E3A	20,430
617	123082	E2D	19,205
618	123083	E2D	18,135
619	123084	E2D	20,321
620	123085	E2D	19,350
621	123086	E2D	17,881
622	123087	E2D	17,663
623	121320	E2D	18,416
624	121321	E2D	20,765
625	121322	E2D	19,432
626	9979206	J1	31,833
627	9979207	J1	30,917
628	121318	E2D	19,876
629	121319	E2D	19,241
630	121323	E2D	17,645
631	9979208	J1	29,620
632	9979209	J1	30,518
633	8925877	J1	28,060
634	9979242	J1	32,496
635	9979210	J1	30,636
636	8925893	J1	18,343
637	8925894	J1	19,151
638	8925895	J1	19,550
639	8925896	J1	20,702
640	9979246	J1	25,801
641	9979247	J1	26,526
642	9979267	J1	29,883
643	9979240	J2	30,101
644	9979241	J2	31,625

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
645	8925897	J2	28,767
646	9979280	J2	20,140
647	9979281	J2	19,641
648	9979282	J2	19,514
649	9979238	J2	29,130
650	9979239	J2	28,930
651	9979236	J2	31,706
652	9979264	J2	29,974
653	9979237	J2	31,951
654	9979265	J3	31,325
655	9979266	J3	32,305
656	9979243	J3	32,605
657	9979283	J3	30,953
658	9979283	J3	32,160
659	9979229	I5	33,802
660	9979230	I5	26,998
661	9979276	I5	28,431
662	9979278	I5	22,417
663	9979277	I5	24,785
664	9979308	I5	31,407
665	9979309	I5	35,336
666	9979310	I5	27,706
667	9979311	J3	19,750
668	9979312	J3	30,010
669	9979313	J3	30,699
670	9979315	J3	26,408
671	9979314	J3	27,833
672	9979316	J3	29,965
673	9979317	J3	30,999
674	9979318	E5	27,524
675	9979319	E5	27,878
676	9979320	E5	30,981
677	9979321	E5	32,877
678	9979322	E5	25,619
679	9979323	E5	36,297
680	9979324	E5	33,058
681	9979325	E5	29,529
682	9979326	F5	28,939
683	9979327	F5	31,915
684	9979328	F5	26,898
685	9979329	F5	30,436
686	9979330	F5	28,921
687	9979353	F5	32,369
688	9979333	F5	32,178
689	9979334	F5	31,062
690	9979335	F5	32,269

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
691	9979336	F5	32,142
692	9979337	G5	29,429
693	9979358	G5	31,344
694	9979359	G5	32,940
695	9979360	G5	33,666
696	9979361	G5	33,956
697	9979362	G5	30,318
698	9979363	H5	28,976
699	9979375	H5	33,158
700	9979376	H5	34,029
701	9979377	H5	23,397
702	9979378	H5	24,277
703	9979366	H5	33,684
704	9979367	H5	30,273
705	9979368	H5	35,281
706	9979369	H5	29,239
707	9979370	H5	32,859
708	9979371	J3	26,363
709	9979372	H5	32,106
710	9979373	D5	23,469
711	9979374	D5	25,891
712	9979379	D5	27,361
713	9979380	D5	29,511
714	9979381	D5	30,890
715	9979382	D5	29,729
716	9979383	D5	29,311
717	9979384	C5	29,892
718	9979385	C5	27,715
719	9979386	C5	30,028
720	9979390	C5	35,054
721	9979391	C5	29,112
722	9979392	C5	32,487
723	9979394	C5	27,379
724	9979395	C5	27,053
725	9979396	C5	31,545
726	9979397	J4	30,972
727	9979398	J4	31,734
728	9979399	J4	28,622
729	9979400	J4	31,815
730	9979401	J4	28,613
731	9979402	J4	29,538
732	9979403	I5	29,729
733	9979404	I5	31,970
734	9979405	I5	35,734
735	9979406	E5	32,160
736	9979407	E5	32,795

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
737	9979408	E5	31,235
738	97213	J4	10,015
739	9979393	E5	32,205
740	9979409	E5	29,711
741	9979410	E5	32,759
742	9979411	G5	32,732
743	9979413	G5	31,389
744	9979414	G5	32,982
745	9979415	H5	29,774
746	9979417	H5	30,863
747	9979418	H5	33,875
748	9979419	J4	31,452
749	9979420	J4	31,588
750	9979421	J4	31,797
751	9979422	B5	33,639
752	9979423	B5	29,511
753	9979424	B5	32,287
754	9979425	B5	33,884
755	9979426	B5	33,085
756	9979427	B5	28,631
757	9979428	B5	26,690
758	9979429	B5	31,171
759	9979430	B5	35,063
760	9979431	B5	33,076
761	9979432	J1	31,734
762	9979433	J1	33,711
763	9979434	J1	31,525
764	9979735	J1	31,108
765	9979736	J1	31,643
766	9979737	J3	34,809
767	9979738	J3	31,779
768	9979446	J4	34,310
769	9979447	J4	33,176
770	9979448	J4	34,047
771	9979449	J4	32,060
772	9979450	J4	34,700
773	9979451	I5	31,579
774	9979452	I5	31,344
775	9979453	G5	31,607
776	9979454	G5	33,185
777	9979456	F5	31,861
778	9979457	F5	33,276
779	9979458	J3	30,627
780	9979459	J3	33,385
781	9979460	J3	34,374
782	9979461	J3	33,847

TABLE 4-7

LOAD, MANIFEST NUMBER, AND EXCAVATION CELL

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

LOAD NUMBER	MANIFEST NUMBER	CELL DESIGNATION	WEIGHT IN AT WASTE FACILITY (Kg)
783	9979462	J3	32,958
784	9979469	J3	33,829
785	9979470	J3	32,605
786	9979471	J3	34,646
787	9979472	J4	35,408
788	9979473	J4	29,774
789	9979474	J4	30,881
790	9979475	J4	31,770
791	9979476	J4/G5	37,349
792	9979477	D5	32,106
793	9979479	D5	31,434
794	9979480	G5	34,519

DENOTES TRUCKS WENT TO CLEAN EARTH NJ

DENOTES TRUCKS WENT TO GROWS PA

DENOTES TRUCKS WENT TO MODEL CITY

TABLE 4-8

BASELINE POST-REMEDIATION GROUNDWATER ANALYTICAL RESULTS (2013)
VOLATILE ORGANIC COMPOUNDS

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	NYSDEC Technical and Operational Guidance Series	MW-1	MW-2R	MW-2R DUP	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	Trip Blank	Trip Blank	Field Blank
Date		6/12/2013	6/12/2013	6/12/2013	NS	6/11/2013	6/11/2013	6/11/2013	6/12/2013	6/12/2013	6/11/2013	6/12/2013	6/12/2013
1,1,1-Trichloroethane	5	1 U	1 U	1 UJ	---	1 U	1 U	1 U	1 U	1 UJ	1 U	1 UJ	1 UJ
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 UJ	---	1 U	1 U	1 U	1 U	1 UJ	1 U	1 UJ	1 UJ
1,1,2-Trichloroethane	1	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 UJ	1 UJ	1 UJ	---	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
1,2-Dibromo-3-Chloropropane	0.04	1 UJ	1 UJ	1 UJ	---	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
1,2-Dibromoethane	5	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	4.7	1 UJ	1 UJ	1 UJ	---	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 UJ	1 UJ
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	---	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	5	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	5	1 UJ	1 UJ	1 UJ	---	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 UJ	1 UJ
2-Butanone	50	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	50	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-Pentanone	50	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Acetone	50	10 U	10 U	10 U	---	43	10 U	12	10 U	10 U	10 U	10 U	10 U
Benzene*	1	0.5 U	0.5 U	0.5 U	---	0.5 U	0.5 U	**1.1**	**3.2**	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	50	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 UJ	1 UJ	1 U	---	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 UJ	1 U	1 UJ
Bromomethane	5	1 U	1 U	1 U	---	1 UJ	1 UJ	1 UJ	1 U	1 U	1 UJ	1 U	1 U
Carbon Disulfide	60**	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1	1	1 U	---	1 U	1 U	1 U	1	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	---	1 U	1 U	1 U	1.2	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	---	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	---	1 UJ	1 UJ	1 UJ	1 U	1 U	1 UJ	1 U	1 U
Ethyl Benzene*	5	1 U	1 U	1 U	---	1 U	1 U	1.3	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene*	5	1 UJ	1 UJ	1 U	---	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U
Methyl tert-butyl Ether*	10**	1.5	1.6	1.3 U	---	**34**	**16**	**16**	0.5 U	0.5 U	0.5	0.5 U	0.5 U
Methylcyclohexane	---	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	0.7	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene*	5	1 U	1 U	1 U	---	1 U	1 U	4.4	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 UJ	1 UJ	1 UJ	---	1 U	1 U	1 U	1.4 J	1 UJ	1 U	1 UJ	1 UJ
Trichlorofluoromethane	5	1 UJ	1 UJ	1 UJ	---	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Vinyl Chloride	2	**3.4**	**4.7**	**6.2**	---	1 U	1 U	1 U	**2.7**	1 U	1 U	1 U	1 U
Total Xylenes	5	1 UJ	1 UJ	1 U	---	1 U	1 U	**5.2**	1 UJ	1 U	1 U	1 U	1 U
Total VOC	…	5.90	6.3	7.5	NS	77.00	16.0	40.00	8.50	ND	ND	ND	ND

NOTES:
NYSDEC - New York State Department of Environmental Conservation
TOGS - Technical Operational and Guidance Series
* - Compound is on the NYSDEC Spill Technology and Remediation Series (STARS) list
** - Guidance value per April 2000 Addendum to June 1998 TOGS
--- = No standard or results available
Samples analysis by Test America of Edison, NJ
Values in **bold** exceed the NYSDEC Guidance Values.
All units are micrograms per liter (µg/L) - parts per billion (ppb)
U = Indicates the analyte was analyzed for but not detected.
J = Result is less that the RL but greater than or equal to the MDL and the concentration is an approximate value.
UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
R= The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.
MW-2R = Replaces MW-2 due to lack of water for sample collection.
NS = Not Sampled - MW-3 was decommissioned on July 20, 2011.

TABLE 4-9

BASELINE POST-REMEDIATION GROUNDWATER ANALYTICAL RESULTS (2013)
TAL METALS - TOTAL (UNFILTERED)

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	NYSDEC Technical and Operational Guidance Series	MW-1	MW-2R	MW-2R DUP	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	Field Blank
Date		6/12/2013	6/12/2013	6/12/2013	NS	6/11/2013	6/11/2013	6/11/2013	6/12/2013	6/12/2013	6/12/2013
Aluminum	100	**220**	**4,200 J**	**1,700 J**	---	**250**	180 U	180 U	180 U	**220**	180 U
Antimony	3	12 U	12 U	12 U	---	12 U	12 U	12 U	12 U	12 U	12 U
Arsenic	25	8 U	8 U	8 U	---	8 U	**25**	14	8 U	8 U	8 U
Barium	1,000	180	200	160	---	660	56	140	150	270	50 U
Beryllium	3	4 U	4 U	4 U	---	4 U	4 U	4 U	4 U	4 U	4 U
Cadmium	5	4 U	4 U	4 U	---	4 U	4 U	4 U	4 U	4 U	4 U
Calcium	---	210,000	320,000	280,000	---	520,000 J	210,000 J	360,000 J	110,000	150,000	2,000 U
Chromium	50	50 U	50 U	50 U	---	50 U	50 U	50 U	50 U	50 U	50 U
Cobalt	5	20 U	20 U	20 U	---	20 U	20 U	20 U	20 U	20 U	20 U
Copper	200	50 U	50 U	50 U	---	50 U	50 U	50 U	50 U	50 U	50 U
Iron	300	**4,100**	**13,000 J**	**9,000 J**	---	**650**	**4,000**	**650**	**6,400**	**13,000**	280 U
Lead	25	6	**120 J**	**49 J**	---	9	6	10	4 U	7.8	4 U
Magnesium	35,000	**36,000**	**140,000**	**120,000**	---	8,400 J	**120,000 J**	**47,000 J**	7,300	7,700	2,000 U
Manganese	300	**3,000**	**900**	**790**	---	100	**950**	**640**	**830**	**780**	40 U
Mercury	0.7	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U
Nickel	100	50 U	50 U	50 U	---	50 U	50 U	50 U	**100**	50 U	50 U
Potassium	---	18,000	55,000	**48,000**	---	64,000	73,000	66,000	13,000	18,000	5,000 U
Selenium	10	40 U	40 U	40 U	---	40 U	40 U	40 U	40 U	40 U	40 U
Silver	50	20 U	20 U	20 U	---	20 U	20 U	20 U	20 U	20 U	20 U
Sodium	20,000	**220,000 J**	**770,000 J**	**660,000 J**	---	**250,000 J**	**740,000 J**	**410,000 J**	**330,000 J**	**420,000 J**	5,000 U
Thallium	0.5	10 U	10 U	10 U	---	10 U	10 U	10 U	10 U	10 U	10 U
Vanadium	14	50 U	50 U	50 U	---	50 U	50 U	50 **U**	50 U	50 U	50 U
Zinc	2,000	50 U	120	76	---	50 U	50 U	50 U	50 U	50 U	50 U

NOTES:

NYSDEC - New York State Department of Environmental Conservation

TOGS - Technical Operational and Guidance Series.

--- = No standard or results available

Samples analysis by Test America of Edison, NJ

Values in **bold** exceed the NYSDEC Guidance Values.

All units are micrograms per liter (µg/L) - parts per billion (ppb)

U = Indicates the analyte was analyzed for but not detected.

J = Result is less that the RL but greater than or equal to the MDL and the concentration is an approximate value.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

MW-2R = Replaces MW-2 due to lack of water for sample collection.

NS = Not Sampled - MW-3 was decommissioned on July 20, 2011.

TABLE 4-10

BASELINE POST-REMEDIATION GROUNDWATER ANALYTICAL RESULTS (2013)
TAL METALS - DISSOLVED (FILTERED)

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	NYSDEC Technical and Operational Guidance Series	MW-1	MW-2R	MW-2R DUP	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	Field Blank
Date		6/12/2013	6/12/2013	6/12/2013	NS	6/11/2013	6/11/2013	6/11/2013	6/12/2013	6/12/2013	6/12/2013
Aluminum	100	180 U	180 U	180 U	---	180 U	180 U	180 U	180 U	180 U	180 U
Antimony	3	12 U	12 U	12 U	---	12 U	12 U	12 U	12 U	12 U	12 U
Arsenic	25	8.3	8 U	8 U	---	8 U	10	10	8 U	8 U	8 U
Barium	1,000	140	160	160	---	620	54	130	150	200	50 U
Beryllium	3	4 U	4 U	4 U	---	4 U	4 U	4 U	4 U	4 U	4 U
Cadmium	5	4 U	4 U	4 U	---	4 U	4 U	4 U	4 U	4 U	4 U
Calcium	---	180,000	320,000	310,000	---	440,000 J	220,000 **J**	340,000 J	130,000	160,000	2,000 U
Chromium	50	50 U	50 U	50 U	---	50 U	50 U	50 U	50 U	50 U	50 U
Cobalt	5	20 U	20 U	20 U	---	20 U	20 U	20 U	20 U	20 U	20 U
Copper	200	50 U	50 U	50 U	---	50 U	50 U	50 U	50 U	50 U	50 U
Iron	300	**760**	**870**	**750**	---	280 U	**370**	**370**	**980**	**1,200**	280 U
Lead	25	4 U	4 U	4 U	---	4 U	4	5	4 U	4 U	4 U
Magnesium	35,000	30,000	**140,000**	**140,000**	---	2,000 UJ	**120,000 J**	**46,000 J**	8,500	8,200	2,000 U
Manganese	300	**2,500**	**830**	**860**	---	40 U	**970**	**630**	**950**	810	40 U
Mercury	0.7	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U
Nickel	100	50 U	50 U	50 U	---	50 U	50 U	50 U	**110**	50 U	50 U
Potassium	---	15,000	55,000	54,000	---	65,000	77,000	65,000	15,000	19,000	5,000 U
Selenium	10	40 U	40 U	40 U	---	40 U	40 U	40 U	40 U	40 U	40 U
Silver	50	20 U	20 U	20 U	---	20 U	20 U	20 U	20 U	20 U	20 U
Sodium	20,000	**190,000 J**	**760,000 J**	**750,000 J**	---	**250,000 J**	**760,000 J**	**400,000 J**	**380,000 J**	**450,000 J**	5,000 U
Thallium	0.5	10 U	10 U	10 U	---	10 U	10 U	10 U	10 U	10 U	10 U
Vanadium	14	50 U	50 U	50 U	---	50 U	50 U	50 U	50 U	50 U	50 U
Zinc	2,000	50 U	50 U	50 U	---	50 U	50 U	50 U	50 U	50 U	50 U

NOTES:
NYSDEC - New York State Department of Environmental Conservation
TOGS - Technical Operational and Guidance Series.
--- = No standard or results available
Samples analysis by Test America of Edison, NJ
Values in **bold** exceed the NYSDEC Guidance Values.
All units are micrograms per liter (µg/L) - parts per billion (ppb)
U = Indicates the analyte was analyzed for but not detected.
J = Result is less that the RL but greater than or equal to the MDL and the concentration is an approximate value.
UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
MW-2R = Replaces MW-2 due to lack of water for sample collection.
NS = Not Sampled - MW-3 was decommissioned on July 20, 2011.

TABLE 4-11

BACKFILL QUANTITIES AND SOURCES

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

ROLLING FRITO-LAY SALES, LP BACKFILL QUANTITIES AND SOURCE			
MATERIAL TYPE	**SOURCE LOCATION**	**QUANTITY (CUBIC YARDS)**	**PLACEMENT LOCATION**
Imported Backfill	Evergreen Recycling of Corona	3,000	Various remedial excavation areas across the site
Imported Backfill	2513 Tilden Avenue Brooklyn, New York	3,000	Various remedial excavation areas across the site
Imported Backfill	2513 Tilden Avenue Brooklyn, New York	2,000	Various remedial excavation areas across the site
Imported Backfill	New York Recycling, LLC 475 Exterior Street Bronx, New York	3,000	Various remedial excavation areas across the site
Rip-Rap (Stone)	Thalle Industries 172 Route 9 Fishkill, New York	690	Along the slopes for the eastern and southern bulkheads
Stone (3/4")	New York Recycling, LLC 475 Exterior Street Bronx, New York	3,700	Within the fence line, beneath asphalt cover
Asphalt	Willets Point Asphalt 32-02 College Point Blvd., College Point, NY	2,000	Within the fence line
Top Soil	New York Recycling, LLC 475 Exterior Street Bronx, New York	375-400	Green Areas along bulkhead area as per NYSDEC Region 2 - Bureau of Marine Resources

TABLE 4-12

IMPORTED MATERIAL
SOIL ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4 (e) Industrial Use Standards	VOC Grab1	VOC Grab 2	VOC Grab3	VOC Grab 4	VOC Grab 5	VOC Grab 6	VOC Grab 7	VOC Grab 8	VOC Grab 9	VOC Grab 10
Date		3/12//2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012
Volatile Organic Compounds (mg/kg) - Method 8260										U	
1,1,1-Trichloroethane	0.68	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	0.27	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.33	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	1.1	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	0.02	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethene (cis)	0.25	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2- Dichlorothene (trans)	0.19	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	1.8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4- Dioxane	0.1	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Acetone	0.05	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Benzene	0.06	0.001 U	0.001 U	0.001 U	0.001 U	0.59 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Buytlbenzene	12	0.001 U	0.001 U	0.001 U	0.001 U	0.59 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon tetrachloride	0.76	0.001 U	0.001 U	0.001 U	0.001 U	0.59 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	1.1	0.001 U	0.001 U	0.001 U	0.001 U	0.59 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform	0.37	0.001 U	0.001 U	0.001 U	0.001 U	0.59 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	1	0.001 U	0.001 U	0.001 U	0.001 U	0.59 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone	0.12	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Methylene Chloride	0.93	0.004	0.004	0.004	0.004	0.0059	0.004	0.004	0.006	0.006	0.006
Proplybenezene-n	3.9	0.0006 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.54 U	0.001 U	0.001 U
sec-Butylbeneze	11	0.0006 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	5.9	0.0006 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	1.3	0.0006 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.7	0.0006 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.47	0.0006 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	3.6	0.0006 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	8.4	0.0006 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.02	0.0006 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (mixed)	1.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

NOTES

Sample analysis by American Analytical Labs (NY) and Phoenix Environmental Labs (CT)

All units are milligrams per kilogram (mg/kg) - parts per million (ppm)

U = Not Detected

NA- Not Analyzed

Values in **bold** exceed DER-10 Subdivision 5.4 (e) Imported Fill or Soil Industrial Use Standards

TABLE 4-12

IMPORTED MATERIAL
SOIL ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4 (e) Industrial Use Standards	VOC Grab 11	D-1	D-2	D-3	D-4	D-5	D-6	D-7	D-8	D-9
Date		3/12/2012	3/16/2012	3/16/2012	3/16/2012	3/16/2012	3/16/2012	3/16/2012	3/16/2012	3/16/2012	3/16/2012
Volatile Organic Compounds (mg/kg) - Method 8260											
1,1,1-Trichloroethane	0.68	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethane	0.27	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene	0.33	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichlorobenzene	1.1	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloroethane	0.02	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloroethene (cis)	0.25	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2- Dichlorothene (trans)	0.19	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
1,3-Dichlorobenzene	2.4	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
1,4-Dichlorobenzene	1.8	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
1,4- Dioxane	0.1	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	0.05	0.002 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003	0.003 U	0.003 U	0.003 U	0.003 U
Benzene	0.06	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006	0.005 U	0.005 U	0.005 U	0.005 U
Buytlbenzene	12	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006	0.005 U	0.005 U	0.005 U	0.005 U
Chlorobenzene	1.1	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006	0.005 U	0.005 U	0.005 U	0.005 U
Chloroform	0.37	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene	1	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006	0.005 U	0.005 U	0.005 U	0.005 U
2-Butanone	0.12	0.002 U	0.028 U	0.028 U	0.027 U	0.026 U	0.003 U	0.027 U	0.026 U	0.027 U	0.026 U
Methylene Chloride	0.93	0.006	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
Proplybenezene-n	3.9	0.001 U	0.008	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
sec-Butylbeneze	11	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
tert-Butylbenzene	5.9	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	1.3	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	0.7	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene	0.47	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2,4-Trimethylbenzene	3.6	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
1,3,5-Trimethylbenzene	8.4	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.02	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (mixed)	1.6	0.001 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U

NOTES

Sample analysis by American Analytical Labs (NY) and Phoenix Environmental Labs (CT)

All units are milligrams per kilogram (mg/kg) - parts per million (ppm)

U = Not Detected

NA- Not Analyzed

Values in **bold** exceed DER-10 Subdivision 5.4 (e) Imported Fill or Soil Industrial Use Standards

TABLE 4-12

IMPORTED MATERIAL
SOIL ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4 (e) Industrial Use Standards	D-10	D-11	D-12	D-13	D-14	D-15	D-16	D-16	D-17	D-18
Date		3/16/2012	3/16/2012	7/6/2012	7/6/2012	7/6/2012	7/6/2012	7/6/2012	7/6/2012	7/6/2012	7/6/2012
Volatile Organic Compounds (mg/kg) - Method 8260											
1,1,1-Trichloroethane	0.68	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethane	0.27	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene	0.33	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichlorobenzene	1.1	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloroethane	0.02	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloroethene (cis)	0.25	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2- Dichlorothene (trans)	0.19	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,3-Dichlorobenzene	2.4	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,4-Dichlorobenzene	1.8	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,4- Dioxane	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	0.05	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Benzene	0.06	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Buytlbenzene	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chlorobenzene	1.1	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroform	0.37	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene	1	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2-Butanone	0.12	0.027 U	0.026 U	0.027 U	0.027 U	0.027 U	0.027 U	0.026 U	0.026 U	0.026 U	0.026 U
Methylene Chloride	0.93	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Proplybenezene-n	3.9	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
sec-Butylbeneze	11	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
tert-Butylbenzene	5.9	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	1.3	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	0.7	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene	0.47	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2,4-Trimethylbenzene	3.6	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,3,5-Trimethylbenzene	8.4	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.02	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (mixed)	1.6	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U

NOTES

Sample analysis by American Analytical Labs (NY) and Phoenix Environmental Labs (CT)

All units are milligrams per kilogram (mg/kg) - parts per million (ppm)

U = Not Detected

NA- Not Analyzed

Values in **bold** exceed DER-10 Subdivision 5.4 (e) Imported Fill or Soil Industrial Use Standards

TABLE 4-12

IMPORTED MATERIAL
SOIL ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4 (e) Industrial Use Standards	D-19	D-20	S-1	S-2	S-3	S-4	S-5	S-6	S-7	Grab #1
Date		7/6/2012	8/3/2012	11/20/2012	11/20/2012	11/20/2012	11/20/2012	12/3/2012	12/3/2012	12/3/2012	5/7/2013
Volatile Organic Compounds (mg/kg) - Method 8260											
1,1,1-Trichloroethane	0.68	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
1,1-Dichloroethane	0.27	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
1,1-Dichloroethene	0.33	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
1,2-Dichlorobenzene	1.1	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
1,2-Dichloroethane	0.02	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
1,2-Dichloroethene (cis)	0.25	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
1,2- Dichlorothene (trans)	0.19	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
1,3-Dichlorobenzene	2.4	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
1,4-Dichlorobenzene	1.8	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
1,4- Dioxane	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U
Acetone	0.05	0.003 U	0.024 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.005 U
Benzene	0.06	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
Buytlbenzene	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U
Carbon tetrachloride	0.76	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
Chlorobenzene	1.1	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
Chloroform	0.37	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
Ethylbenzene	1	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
2-Butanone	0.12	0.027 U	0.005 U	0.027 U	0.027 U	0.027 U	0.027 U	0.027 U	0.027 U	0.027 U	0.005 U
Methylene Chloride	0.93	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.007
Proplybenezene-n	3.9	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
sec-Butylbeneze	11	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
tert-Butylbenzene	5.9	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
Tetrachloroethene	1.3	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
Toluene	0.7	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
Trichloroethene	0.47	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
1,2,4-Trimethylbenzene	3.6	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
1,3,5-Trimethylbenzene	8.4	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
Vinyl Chloride	0.02	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
Xylenes (mixed)	1.6	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.002 U

NOTES

Sample analysis by American Analytical Labs (NY) and Phoenix Environmental Labs (CT)

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U = Not Detected

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Values in **bold** exceed DER-10 Subdivision 5.4 (e) Imported Fill or Soil Industrial Use Standards

TABLE 4-12

IMPORTED MATERIAL
SOIL ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4 (e) Industrial Use Standards	Grab #2	Grab #3	Grab #4
Date		5/7/2013	5/7/2013	5/7/2013
Volatile Organic Compounds (mg/kg) - Method 8260				
1,1,1-Trichloroethane	0.68	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	0.27	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.33	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	1.1	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	0.02	0.001 U	0.001 U	0.001 U
1,2-Dichloroethene (cis)	0.25	0.001 U	0.001 U	0.001 U
1,2- Dichlorothene (trans)	0.19	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	2.4	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	1.8	0.001 U	0.001 U	0.001 U
1,4- Dioxane	0.1	0.001 U	0.001 U	0.001 U
Acetone	0.05	0.005 U	0.005 U	0.005 U
Benzene	0.06	0.001 U	0.001 U	0.001 U
Buytlbenzene	12	0.001 U	0.001 U	0.001 U
Carbon tetrachloride	0.76	0.001 U	0.001 U	0.001 U
Chlorobenzene	1.1	0.001 U	0.001 U	0.001 U
Chloroform	0.37	0.001 U	0.001 U	0.001 U
Ethylbenzene	1	0.001 U	0.001 U	0.001 U
2-Butanone	0.12	0.005 U	0.005 U	0.005 U
Methylene Chloride	0.93	0.008	0.005	0.006
Proplybenezene-n	3.9	0.001 U	0.001 U	0.001 U
sec-Butylbeneze	11	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	5.9	0.001 U	0.001 U	0.001 U
Tetrachloroethene	1.3	0.001 U	0.001 U	0.001 U
Toluene	0.7	0.001 U	0.001 U	0.001 U
Trichloroethene	0.47	0.001 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	3.6	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	8.4	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.02	0.001 U	0.001 U	0.001 U
Xylenes (mixed)	1.6	0.002 U	0.002 U	0.002 U

NOTES

Sample analysis by American Analytical Labs (NY) and Phoenix Environmental Labs (CT)

All units are milligrams per kilogram (mg/kg) - parts per million (ppm)

U = Not Detected

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Values in **bold** exceed DER-10 Subdivision 5.4 (e) Imported Fill or Soil Industrial Use Standards

TABLE 4-12

IMPORTED MATERIAL
SOIL ANALYTICAL RESULTS - SVOCs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4 (e) Industrial use Standards and CP-51 Industrial SSCOs	Comp 1	Comp 2	Comp 3	Comp 4	C-5	C-6	C-7
Date		3/12/2012	3/12/2012	3/12/2012	3/12/2012	7/6/2012	7/6/2012	7/6/2012
Semivolatile Organic Compounds (mg/kg) - Method 8270D								
Acenaphthene	98	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U
Acenaphthylene	107	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U
Aniline	1,000	0.03 U	0.03 U	0.03 U	0.03 U	1 U	1 U	1 U
Anthracene	500	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U
Benzo[a]anthracene	1	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U
Benzo[a]pyrene	1	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U
Benzo[b]fluoranthene	1.7	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U
Benzo[g,h,i]perylene	500	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U
Benzo[k]fluoranthene	1.7	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U
Chrysene	1	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U
Dibenz(a,h)anthracene	0.56	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U
Fluoranthene	500	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U
Fluorene	386	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U
Indeno[1,2,3-cd]pyrene	5.6	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U
Naphthalene	12	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U
Nitrobenzene	140	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U
Phenanthrene	500	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U
Phenol	0.33	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U
Pyrene	500	0.03 U	0.03 U	0.03 U	0.03 U	0.24 U	0.24 U	0.24 U

NOTES

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Values in **bold** exceed DER-10 Subdivision 5.4 (e) Imported Fill or Soil Industrial Use Standards

TABLE 4-12

IMPORTED MATERIAL
SOIL ANALYTICAL RESULTS - SVOCs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4 (e) Industrial use Standards and CP-51 Industrial SSCOs	C-8	S-1	S-2	S-3	S-4	Comp #1	Comp #2
Date		7/6/2012	11/20/2012	11/20/2012	11/20/2012	11/20/2012	5/7/2013	5/7/2013
Semivolatile Organic Compounds (mg/kg) - Method 8270D								
Acenaphthene	98	0.24 U	0.25 U	0.25 U	0.25 U	0.24 U	0.03 U	0.03 U
Acenaphthylene	107	0.24 U	0.25 U	0.25 U	0.25 U	0.24 U	0.03 U	0.03 U
Aniline	1,000	1 U	1 U	1 U	1 U	1.00 U	0.03 U	0.03 U
Anthracene	500	0.24 U	0.25 U	0.25 U	0.25 U	0.24 U	0.03	0.03 U
Benzo[a]anthracene	1	0.24 U	0.25 U	0.25 U	0.25 U	0.24 U	0.21	0.12
Benzo[a]pyrene	1	0.24 U	0.25 U	0.25 U	0.25 U	0.24 U	0.20	0.13
Benzo[b]fluoranthene	1.7	0.24 U	0.25 U	0.25 U	0.25 U	0.24 U	0.23	0.14
Benzo[g,h,i]perylene	500	0.24 U	0.25 U	0.25 U	0.25 U	0.24 U	0.14	0.11
Benzo[k]fluoranthene	1.7	0.24 U	0.25 U	0.25 U	0.25 U	0.24 U	0.21	0.11
Chrysene	1	0.24 U	0.25 U	0.25 U	0.25 U	0.24 U	0.24	0.16
Dibenz(a,h)anthracene	0.56	0.24 U	0.25 U	0.25 U	0.25 U	0.24 U	0.03	0.03 U
Fluoranthene	500	0.24 U	0.25 U	0.3 U	0.3 U	0.24 U	0.38	0.26
Fluorene	386	0.24 U	0.25 U	0.25 U	0.25 U	0.24 U	0.03 U	0.03 U
Indeno[1,2,3-cd]pyrene	5.6	0.24 U	0.25 U	0.3 U	0.3 U	0.24 U	0.17	0.11
Naphthalene	12	0.24 U	0.25 U	0.25 U	0.25 U	0.24 U	0.03 U	0.03 U
Nitrobenzene	140	0.24 U	0.25 U	0.25 U	0.25 U	0.24 U	0.03 U	0.03 U
Phenanthrene	500	0.24 U	0.25 U	0.3 U	0.3 U	0.24 U	0.19	0.16
Phenol	0.33	0.24 U	0.25 U	0.3 U	0.3 U	0.24 U	0.03	0.03 U
Pyrene	500	0.24 U	0.25 U	0.3 U	0.3 U	0.24 U	0.43	0.33

NOTES

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TABLE 4-12

IMPORTED MATERIAL
SOIL ANALYTICAL RESULTS - SVOCs

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FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4 (e) Industrial use Standards and CP-51 Industrial SSCOs	C-1	C-2	C-3	C-4
Date		3/16/2012	3/16/2012	3/16/2012	3/16/2012
Semivolatile Organic Compounds (mg/kg) - Method 8270D					
Acenaphthene	98	0.25 U	0.24 U	0.25 U	0.24 U
Acenaphthylene	107	0.25 U	0.24 U	0.25 U	0.24 U
Aniline	1,000	0.25 U	0.24 U	0.25 U	0.24 U
Anthracene	500	0.25 U	0.24 U	0.25 U	0.24 U
Benzo[a]anthracene	1	0.25 U	0.24 U	0.25 U	0.24 U
Benzo[a]pyrene	1	0.25 U	0.24 U	0.25 U	0.24 U
Benzo[b]fluoranthene	1.7	0.25 U	0.24 U	0.25 U	0.24 U
Benzo[g,h,i]perylene	500	0.25 U	0.24 U	0.25 U	0.24 U
Benzo[k]fluoranthene	1.7	0.25 U	0.24 U	0.25 U	0.24 U
Chrysene	1	0.25 U	0.24 U	0.25 U	0.24 U
Dibenz(a,h)anthracene	0.56	0.25 U	0.24 U	0.25 U	0.24 U
Fluoranthene	500	0.25 U	0.24 U	0.25 U	0.24 U
Fluorene	386	0.25 U	0.24 U	0.25 U	0.24 U
Indeno[1,2,3-cd]pyrene	5.6	0.25 U	0.24 U	0.25 U	0.24 U
Naphthalene	12	0.25 U	0.24 U	0.25 U	0.24 U
Nitrobenzene	140	0.25 U	0.24 U	0.25 U	0.24 U
Phenanthrene	500	0.25 U	0.24 U	0.25 U	0.24 U
Phenol	0.33	0.25 U	0.24 U	0.25 U	0.24 U
Pyrene	500	0.25 U	0.24 U	0.25 U	0.24 U

NOTES

Sample analysis by American Analytical Labs (NY) and Phoenix Environmental Labs (CT)

All units are milligrams per kilogram (mg/kg) - parts per million (ppm)

U = Not Detected

NA- Not Analyzed

Values in **bold** exceed DER-10 Subdivision 5.4 (e) Imported Fill or Soil Industrial Use Standards

TABLE 4-12

IMPORTED MATERIAL
SOIL ANALYTICAL RESULTS - METALS

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4 (e)Industrial Use Standards	Comp 1	Comp 2	Comp 3	Comp 4	C-1	C-2	C-3
Date		3/12/2012	3/12/2012	3/12/2012	3/12/2012	3/16/2012	3/16/2012	3/16/2012
Metals (mg/kg) - Methods 6010C, 9012A, 7196A, 7471B								
Arsenic	16	2.07	2.17	21.01	2.06	0.74 U	1.64	1.03
Barium	400	31.9	31.8	32.6	31.8	43	27.1	24.9
Berryllium	47	0.11 U	0.1 U	0.11 U	0.11 U	0.36	0.38	0.32 U
Cadmium	7.5	0.11 U	0.1 U	0.11 U	0.11 U	0.37 U	0.35 U	0.37 U
Chromium, Hexavalent*	19.0	0.52	0.636	0.549	0.578	NA	NA	NA
Chromium, Trivalent*	1,500.0	15.8	19	19.5	15.7	NA	NA	NA
Cyanide	270.0	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA
Copper	27	8.18	11.1	7.97	7.57	16.6	15	12
Lead	450	9.55	10.1	8.45	6.88	14.7	8.14	5.66
Manganese	2,000	192	192	208	205	525	296	277
Mercury (total)	0.73	0.0451	0.0563	0.0574	0.0251	0.07 U	0.08 U	0.06 U
Nickel	130	11.3	12.7	12.5	11.7	30.8	26.6	21.7
Selenium	4	0.22 U	0.2 U	0.22 U	0.22 U	1.5 U	1.4 U	1.5 U
Silver	8.3	0.11 U	0.1 U	0.11 U	0.11 U	0.37 U	0.35 U	0.37 U
Zinc	2,480	29.1	31.1	29.7 U	26.1 U	42.2	37.5	27.8

Compound	Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4 (e)Industrial Use Standards	C-4	C-5	C-6	C-7	C-8	S-1	S-2
Date		3/16/2012	7/6/2012	7/6/2012	7/6/2012	7/6/2012	11/20/2012	11/20/2012
Metals (mg/kg) - Methods 6010C, 9012A, 7196A,7471B								
Arsenic	16	1.29	2.4	1.6	1.7	2	0.7 U	1.4
Barium	400	21.9	36.2	28.2	25	25.1	171	200
Berryllium	47	0.28	0.42	0.28 U	0.26 U	0.35	0.26 U	0.29 U
Cadmium	7.5	0.35 U	0.31 U	0.35 U	0.32 U	0.35 U	0.33 U	0.36 U
Chromium, Hexavalent	19	NA	NA	NA	NA	NA	0.41 U	0.43 U
Chromium, Trivalent	1,500	NA	NA	NA	NA	NA	NA	NA
Cyanide	270	NA	NA	NA	NA	NA	NA	NA
Copper	27	10.7	20	11.8	11.2	13	33.9	29.5
Lead	450	9.06	18.9	61.9	26.5	11.9	7.46	7.77
Manganese	2,000	385	316	229	204	276	194	241
Mercury (total)	0.73	0.07 U	0.08 U	0.07 U	0.07 U	0.07 U	0.07 U	0.08 U
Nickel	130	19.8	29.4	26.3	28	23.9	32.6	31.6
Selenium	4	1.4 U	1.2 U	1.4 U	1.3 U	1.4 U	1.3 U	1.4 U
Silver	8.3	0.35 U	0.31 U	0.35 U	0.32 U	0.35 U	0.33 U	0.36 U
Zinc	2,480	21.4 U	41	29.1	33.8 U	30.3 U	70.7	75.5

NOTES
Sample analysis by American Analytical Labs (NY) and Phoneix Environmental Labs (CT)
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
NA- Not Analyzed
Values in **bold** exceed DER-10 Subdivision 5.4 (e) Imported Fill or Soil Industrial Use Standards

TABLE 4-12

IMPORTED MATERIAL
SOIL ANALYTICAL RESULTS - PESTICIDES AND HERBICIDES

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4 (e) Industrial Use Standards	Comp 1	Comp 2	Comp 3	Comp 4	C-5	C-6	C-7
Date		3/12/2012	3/12/2012	3/12/2012	3/12/2012	7/6/2012	7/6/2012	7/6/2012
Pesticides and Herbicides (mg/kg) - Method 8081A and 8151								
2,4,5-TP Acid (Silvex)	3.8	0.01	0.001 U	0.007	0.006	NA	NA	NA
4,4'-DDE	17	0.01	0.01	0.016	0.003	0.003 U	0.003 U	0.003 U
4,4'-DDT	47	0.004	0.003	0.003	0.002	0.003 U	0.003 U	0.003 U
4,4'-DDD	14	0.0002 U	0.001	0.0002 U	0.0002 U	0.003 U	0.003 U	0.003 U
Aldrin	0.19	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.001 U	0.001 U	0.001 U
Alpha-BHC	0.02	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.003 U	0.003 U	0.003 U
Beta-BHC	0.09	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.003 U	0.003 U	0.003 U
Chlordane	2.9	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.01 U	0.01 U	0.010 U
Delta-BHC	0.25	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.003 U	0.003 U	0.003 U
Dieldrin	0.1	0.0004	0.0006	0.002	0.0002 U	0.001 U	0.001 U	0.001 U
Endosulfan I	102	0.0002 U	0.0002 U	0.010	0.0002 U	0.003 U	0.003 U	0.003 U
Endosulfan II	102	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.007 U	0.007 U	0.007 U
Endosulfan sulfate	200	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.007 U	0.007 U	0.007 U
Endrin	0.06	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.007 U	0.007 U	0.007 U
Heptachlor	0.38	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.002 U	0.002 U	0.002 U
gamma-BHC (Lindane)	0.1	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.001 U	0.001 U	0.001 U

NOTES

Sample analysis by American Analytical Labs (NY) and Phoneix Environmental Labs (CT)

All units are milligrams per kilogram (mg/kg) - parts per million (ppm)

U = Not Detected

NA- Not Analyzed

Values in **bold** exceed DER-10 Subdivision 5.4 (e) Imported Fill or Soil Industrial Use Standards

TABLE 4-12

IMPORTED MATERIAL
SOIL ANALYTICAL RESULTS - PESTICIDES AND HERBICIDES

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4 (e) Industrial Use Standards	C-8	S-1	S-2	S-3	S-4	Comp #1	Comp #2	C-1
Date		7/6/2012	11/20/2012	11/20/2012	11/20/2012	11/20/2012	5/7/2013	5/7/2013	3/16/2012
Pesticides and Herbicides (mg/kg) - Method 8081A and 8151									
2,4,5-TP Acid (Silvex)	3.8	NA	0.044 U	0.044 U	0.044 U	0.044 U	0.001 U	0.001 U	NA
4,4'-DDE	17	0.003 U	0.002 U	0.002 U	0.002 U	0.002 U	0.006	0.009	0.003 U
4,4'-DDT	47	0.003 U	0.002 U	0.002 U	0.003 U	0.003 U	0.001 U	0.001 U	0.003 U
4,4'-DDD	14	0.003 U	0.002 U	0.002 U	0.002 U	0.002 U	0.001 U	0.001 U	0.003 U
Aldrin	0.19	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0010 U
Alpha-BHC	0.02	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.001 U	0.001 U	0.0033 U
Beta-BHC	0.09	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.001 U	0.001 U	0.0033 U
Chlordane	2.9	0.01 U	0.01 U	0.023	0.011 U	0.011 U	0.002 U	0.003 U	0.0100 U
Delta-BHC	0.25	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.001 U	0.001 U	0.0033 U
Dieldrin	0.1	0.001 U	0.001 U	0.001 U	0.006 U	0.006 U	0.001 U	0.001 U	0.0100 U
Endosulfan I	102	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.001 U	0.001 U	0.0033 U
Endosulfan II	102	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.001 U	0.001 U	0.0066 U
Endosulfan sulfate	200	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.001 U	0.001 U	0.0066 U
Endrin	0.06	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.001 U	0.001 U	0.0066 U
Heptachlor	0.38	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.001 U	0.001 U	0.0021 U
gamma-BHC (Lindane)	0.1	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0010 U

NOTES

Sample analysis by American Analytical Labs (NY) and Phoneix Environmental Labs (CT)

All units are milligrams per kilogram (mg/kg) - parts per million (ppm)

U = Not Detected

NA- Not Analyzed

Values in **bold** exceed DER-10 Subdivision 5.4 (e) Imported Fill or Soil Industrial Use Standards

TABLE 4-12

IMPORTED MATERIAL
SOIL ANALYTICAL RESULTS - PESTICIDES AND HERBICIDES

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4 (e) Industrial Use Standards	C-2	C-3	C-4
Date		3/16/2012	3/16/2012	3/16/2012
Pesticides and Herbicides (mg/kg) - Method 8081A and 8151				
2,4,5-TP Acid (Silvex)	3.8	NA	NA	NA
4,4'-DDE	17	0.003 U	0.003 U	0.003 U
4,4'-DDT	47	0.003 U	0.003 U	0.003 U
4,4'-DDD	14	0.003 U	0.003 U	0.003 U
Aldrin	0.19	0.0010 U	0.0010 U	0.0010 U
Alpha-BHC	0.02	0.0034 U	0.0033 U	0.0034 U
Beta-BHC	0.09	0.0034 U	0.0033 U	0.0034 U
Chlordane	2.9	0.0100 U	0.0100 U	0.0100 U
Delta-BHC	0.25	0.0034 U	0.0033 U	0.0034 U
Dieldrin	0.1	0.0100 U	0.0100 U	0.0010 U
Endosulfan I	102	0.0034 U	0.0033 U	0.0034 U
Endosulfan II	102	0.0067 U	0.0066 U	0.0067 U
Endosulfan sulfate	200	0.0067 U	0.0066 U	0.0067 U
Endrin	0.06	0.0067 U	0.0066 U	0.0067 U
Heptachlor	0.38	0.0021 U	0.0021 U	0.0021 U
gamma-BHC (Lindane)	0.1	0.0010 U	0.0010 U	0.0010 U

NOTES

Sample analysis by American Analytical Labs (NY) and Phoneix Environmental Labs (CT)

All units are milligrams per kilogram (mg/kg) - parts per million (ppm)

U = Not Detected

NA- Not Analyzed

Values in **bold** exceed DER-10 Subdivision 5.4 (e) Imported Fill or Soil Industrial Use Standards

TABLE 4-12

IMPORTED MATERIAL
SOIL ANALYTICAL RESULTS - PCBs

FINAL ENGINEERING REPORT

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Compound	Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4 (e)Industrial Use Standards	Comp 1	Comp 2	Comp 3	Comp 4	C-5	C-6
Date		3/12/2012	3/12/2012	3/12/2012	3/12/2012	7/6/2012	7/6/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	1*	0.001 U	0.001 U	0.001 U	0.001 U	0.07 U	0.07 U
Aroclor 1221	1*	0.001 U	0.001 U	0.001 U	0.001 U	0.07 U	0.07 U
Aroclor 1232	1*	0.001 U	0.001 U	0.001 U	0.001 U	0.07 U	0.07 U
Aroclor 1242	1*	0.001 U	0.001 U	0.001 U	0.001 U	0.07 U	0.07 U
Aroclor 1248	1*	0.001 U	0.001 U	0.001 U	0.001 U	0.07 U	0.07 U
Aroclor 1254	1*	0.001 U	0.001 U	0.001 U	0.001 U	0.07 U	0.07 U
Aroclor 1260	1*	0.001 U	0.003	0.001 U	0.001 U	0.07 U	0.07 U
Aroclor 1262	1*	0.001 U	0.001 U	0.001 U	0.001 U	0.07 U	0.07 U
Aroclor 1268	1*	0.001 U	0.001 U	0.001 U	0.001 U	0.07 U	0.07 U
Total Arochlors	1*	ND	0.003	ND	ND	ND	ND

Compound	Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4 (e)Industrial Use Standards	C-7	C-8	S-1	S-2	S-3	S-4
Date		7/6/2012	7/6/2012	11/20/2012	11/20/2012	11/20/2013	11/20/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	1*	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
Aroclor 1221	1*	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
Aroclor 1232	1*	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
Aroclor 1242	1*	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
Aroclor 1248	1*	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
Aroclor 1254	1*	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
Aroclor 1260	1*	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
Aroclor 1262	1*	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
Aroclor 1268	1*	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
Total Arochlors	1*	ND	ND	ND	ND	ND	ND

Compound	Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4 (e)Industrial Use Standards	Comp #1	Comp #2	C-1	C-2	C-3	C-4
Date		5/7/2013	5/7/2013	3/16/2012	3/16/2012	3/16/2012	3/16/2012
PCBs (mg/kg) - Method 8082							
Aroclor 1016	1*	0.01 U	0.01 U	0.069 U	0.07 U	0.069 U	0.07 U
Aroclor 1221	1*	0.01 U	0.01 U	0.069 U	0.07 U	0.069 U	0.07 U
Aroclor 1232	1*	0.01 U	0.01 U	0.069 U	0.07 U	0.069 U	0.07 U
Aroclor 1242	1*	0.01 U	0.01 U	0.069 U	0.07 U	0.069 U	0.07 U
Aroclor 1248	1*	0.01 U	0.01 U	0.069 U	0.07 U	0.069 U	0.07 U
Aroclor 1254	1*	0.01 U	0.01 U	0.069 U	0.07 U	0.069 U	0.07 U
Aroclor 1260	1*	0.01 U	0.02	0.069 U	0.07 U	0.069 U	0.07 U
Aroclor 1262	1*	0.01 U	0.01 U	0.069 U	0.07 U	0.069 U	0.07 U
Aroclor 1268	1*	0.01 U	0.01 U	0.069 U	0.07 U	0.069 U	0.07 U
Total Arochlors	1*	ND	0.02	ND	ND	ND	ND

NOTES
Sample analysis by American Analytical Labs (NY) and Phoneix Environmental Labs (CT)
* Standard applies to total arochlors
All units are milligrams per kilogram (mg/kg) - parts per million (ppm)
U = Not Detected
ND- Non Detect
Values in **bold** exceed DER-10 Subdivision 5.4 (e) Imported Fill or Soil Industrial Use Standards

TABLE 4-13

SOILS EXCEEDING UNRESTRICTED USE SOIL CLEANUP OBJECTIVES AFTER THE REMEDIAL ACTION

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Soil Boring/Sample Location	REMAINING SOIL CONTAMINANTS EXCEEDING THE UNRESTRICTED USE SOIL CLEANUP OBJECTIVE													
	VOCs	SVOCs	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	PCBs	Selenium	Silver	Zinc
Cell A1-A6														
A2-E1 (12"-14")			x					x						
A2-E2 (36"-38")								x						
A3-E1 (12"-14")			x											
SB-40 (0'-4')				x	x	x	x	x		x	x			x
SB-40 (4'-10')			x	x	x	x	x	x	x	x	x			x
SB-26 (0'-4')		x					x	x	x		x			x
SB-26 (4'-6')		x					x	x	x		x			x
SB-3 (0'-5')	x	x					x	x	x					x
SB-3 (5'-7')		x	x	x			x	x	x					x
SB-3 (11'-11.5')	x		x				x	x	x					x
SB-29 (4'-10')											x			
SB-32 (4'-10')											x			
SB-28 (4'-8')											x			
SB-26 (4'-6')											x			
Cell B1-B5														
B1-N2 (72"-74")			x											
B1-E1 (12"-14")			x											
B1-E2 (72"-74")			x											
B1-S1 (12"-14")			x											
SB-1 (7'-9')											x			
SB-2 (0'-5')	x	x		x		x	x	x	x	x	x			x
SB-2 (5'-7')	x	x				x	x	x	x					x
SB-2 (9'-11')	x						x	x	x					x
SB-2-1 (0'-4')											x			
SB-2-1 (6'-8')											x			
SB-2-2 (1'-4')											x			
SB-2-2 (6'-8')											x			
SB-2-3 (0'-4')											x			
SB-2-3 (10'-11')											x			
SB-37 (0'-4')				x	x	x	x	x	x	x	x			x
SB-37 (4'-10')				x	x	x	x	x	x	x	x			x
SB-55 (0'-4')				x	x	x	x	x	x	x	x		x	x
SB-55 (4'-10')			x	x	x	x	x	x	x	x	x	x		x
SB-27 (0'-4')		x		x	x	x	x	x	x	x		x		x
SB-27 (8'-10')				x	x	x	x	x	x	x				x
SB-27-3 (0'-4')											x			

TABLE 4-13

SOILS EXCEEDING UNRESTRICTED USE SOIL CLEANUP OBJECTIVES AFTER THE REMEDIAL ACTION

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Soil Boring/Sample Location	REMAINING SOIL CONTAMINANTS EXCEEDING THE UNRESTRICTED USE SOIL CLEANUP OBJECTIVE													
	VOCs	SVOCs	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	PCBs	Selenium	Silver	Zinc
SB-27-1 (0'-4')											x			
SB-27-1 (9'-10')											x			
SB-27-4 (0'-4')											x			
SB-45 (0'-4')					x	x	x	x	x	x				x
SB-45 (4'-10')						x	x	x	x					x
B5-S1 (12"-14")											x			
B5-S2 (84"-86")											x			
SB-49 (0'-4')						x	x	x	x	x				x
SB-49 (4'-10')							x	x	x					x
Cell C1-C5														
SB-50 (0'-4')			x	x	x	x	x	x	x	x	x	x		x
SB-50 (4'-10')			x		x	x	x	x	x	x	x			x
SB-4 (0'-4')	x		x			x	x	x	x	x	x			x
SB-4 (5'-7')	x		x			x	x	x	x					x
SB-4 (9'-11')	x													
SB-51 (0'-4')				x	x	x	x	x	x	x	x			x
SB-51 (4'-8')				x			x	x	x		x			x
SB-25 (0'-4')		x	x	x	x	x	x	x	x	x	x	x		x
SB-41 (0'-4')							x	x	x		x			x
SB-41 (4'-11')						x	x	x	x		x			x
SB-27-2 (0'-4')											x			
SB-27-2 (4'-8')											x			
C5-N1 (12"-14")											x			
C5-N2 (60"-62")								x	x		x			
SB-5 (0'-5')	x	x			x	x	x	x	x		x			x
SB-5 (5'-7')	x	x			x	x	x	x	x		x			x
SB-5 (11'-11.5')	x													
SSB-1 (10'-10.5')											x			
Cell D1-D5														
SB-30 (0'-4')			x	x	x	x	x	x	x	x				x
SB-30 (4'-10')			x	x	x	x	x	x	x	x	x			x
SB-24-1 (0'-4')											x			
SB-24-2 (0'-2')											x			
SB-24-3 (0'-4')											x			
SB-24-3 (4'-6')											x			
SB-6-2 (0'-4')											x			
SB-6-2 (6'-8')											x			

TABLE 4-13

SOILS EXCEEDING UNRESTRICTED USE SOIL CLEANUP OBJECTIVES AFTER THE REMEDIAL ACTION

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Soil Boring/Sample Location	REMAINING SOIL CONTAMINANTS EXCEEDING THE UNRESTRICTED USE SOIL CLEANUP OBJECTIVE													
	VOCs	SVOCs	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	PCBs	Selenium	Silver	Zinc
SB-6-3 (0'-4')											x			
SB-42 (0'-4')			x	x	x	x	x	x		x	x	x	x	x
SB-42 (4'-10')			x		x	x	x	x	x	x	x			x
D5-N2-4 (54"-56")								x						
SB-23-2 (0'-4')			x								x			
SB-23-2 (6'-8')											x			
SB-30 (0"-4")											x			
D2-BOT (5'-5.5')											x			
SSB-2-1 (10.5'-11')											x			
Cell E1-E5														
E1A-W1 (12"-14")											x			
E1A-S1 (12"-14")											x			
E1A-S2 (84"-86")											x			
SB-7-2 (0'-4')											x			
SB-7-2 (4'-6')											x			
E1D-W1-1 (12"-14")											x			
E1D-W2-1 (60"-62")											x			
SB-33 (0'-4')			x	x	x	x	x	x	x	x	x			x
SB-33 (4'-10')			x	x	x	x	x	x	x	x	x			x
E3A-N3-5 (60"-62")											x			
E3A-S2-1 (54"-56")											x			
E3A-E2-2 (54"-56")											x			
SB-9-2 (0'-4')											x			
SB-9-2 (8'-10')											x			
SB-53 (0'-4')			x	x	x	x	x	x	x	x	x	x	x	x
SB-53 (4'-10')			x	x	x	x	x	x	x	x	x	x	x	x
SB-46 (0'-4')				x	x	x	x	x	x	x			x	x
SB-46 (4'-10')			x	x	x	x	x	x	x	x	x		x	x
E1D-BOT (8'-8.5')											x			
E3A-OE1-BOT (7'-7.5')											x			
E3A-OE2-BOT (7'-7.5')											x			
E3D-BOT-2 (8'-8.5')											x			
E4B-BOT-1C (11'-11.5')											x			
E4D-BOT (8'-8.5')											x			
E4C-BOT-2 (8'-8.5')											x			
SSB-3 (10'-10.5')											x			

TABLE 4-13

SOILS EXCEEDING UNRESTRICTED USE SOIL CLEANUP OBJECTIVES AFTER THE REMEDIAL ACTION

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Soil Boring/Sample Location	REMAINING SOIL CONTAMINANTS EXCEEDING THE UNRESTRICTED USE SOIL CLEANUP OBJECTIVE													
	VOCs	SVOCs	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	PCBs	Selenium	Silver	Zinc
Cell F1-F5														
E1A-E2-8 (84"-86")											x			
E1D-E1-2 (12"-14")											x			
SB-52 (0'-4')			x	x	x	x	x	x	x	x	x	x	x	x
SB-52 (4'-10')				x	x	x	x	x	x	x	x	x		x
G2-W1-1 (12"-14")											x			
G2-W2-1 (36"-38")											x			
SB-34 (0'-4')			x	x	x	x	x	x	x	x	x		x	x
SB-34 (4'-10')			x	x	x	x	x	x	x	x	x	x	x	x
SB-21 (0'-2')	x	x			x	x	x	x	x	x	x	x		x
SB-43 (0'-4')			x	x	x	x	x	x	x	x	x		x	x
SB-43 (4'-8')			x	x	x	x	x	x	x	x	x	x	x	x
F4-E1-1 (12"-14")											x			
SB-22-1 (0'-4')			x					x			x			
SB-22-1 (4'-6')			x					x			x			
SB-22-2 (0'-4')								x			x			
SB-22-2 (4'-6')								x			x			
SB-22-3 (0'-4')											x			
SB-22-3 (6'-8')											x			
H3C-OE1-SSW-2 (96"-102")											x			
H3C-OE1-NSW-2 (96"-102")											x			
H3C-OE2-BOT (8'-8.5')											x			
F4-BOT (10'-10.5')											x			
SSB-4-1 (11'-11.5')											x			
Cell G1-G5														
G2-N2-2 (36"-38")											x			
SB-10 (0'-5')	x	x	x	x	x	x	x	x	x	x	x	x	x	x
SB-10 (5'-7')	x	x		x	x	x	x	x	x	x	x			x
SB-10 (9'-11')	x	x	x		x	x	x	x	x	x	x			x
SB-20-1 (0'-4')											x			
SB-20-1 (6'-8')											x			
SB-20-2 (0'-4')											x			
SB-20-2 (4'-6')											x			
SB-20-3 (0'-4')											x			
SB-20-3 (6'-8')											x			
SB-38 (0'-4')			x	x	x	x	x	x	x	x	x	x	x	x
SB-38 (4'-10')			x	x	x	x	x	x	x	x	x	x	x	x

TABLE 4-13

SOILS EXCEEDING UNRESTRICTED USE SOIL CLEANUP OBJECTIVES AFTER THE REMEDIAL ACTION

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

Soil Boring/Sample Location	REMAINING SOIL CONTAMINANTS EXCEEDING THE UNRESTRICTED USE SOIL CLEANUP OBJECTIVE													
	VOCs	SVOCs	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	PCBs	Selenium	Silver	Zinc
SB-54 (0'-4')				x	x	x	x	x	x	x	x		x	x
SB-54 (4'-10')			x	x	x	x	x	x	x	x	x	x	x	x
SB-11 (0'-5')	x	x		x	x	x	x	x	x	x	x		x	x
SB-11 (5'-7')	x	x			x	x	x	x	x	x	x			x
SB-11 (9'-11')	x				x	x	x	x	x	x	x			x
SB-47 (0'-4')			x	x	x	x	x	x	x	x	x		x	x
SB-47 (4'-10')			x	x	x	x	x	x	x	x	x	x	x	x
G2-BOT-1 (6'-6.5')										x				
H3C-OE1-BOT (8'-8.5')										x				
SSB-5-2 (12'-12.5')										x				
Cell H1-H5														
SB-31 (0'-4')				x	x	x	x	x	x	x	x		x	x
SB-31 (4'-10')				x	x	x	x	x	x	x	x		x	x
SB-35 (0'-4')			x	x	x	x	x	x	x	x	x	x	x	x
SB-35 (4'-10')			x	x	x	x	x	x	x	x	x	x		x
SB-12 (0'-5')		x			x	x	x	x	x	x	x			x
SB-12 (5'-7')		x		x	x	x	x	x	x	x	x			x
SB-44 (0'-4')				x	x	x	x	x	x	x	x		x	x
SB-44 (4'-10')			x	x	x	x	x	x	x	x	x	x	x	x
SB-16-2 (6'-8')											x			
SB-16-3 (0'-4')											x			
SB-16-3 (4'-6')											x			
H3B-BOT (5'-5.5')											x			
H3C-BOT (8'-8.5')											x			
H3D-BOT (8'-8.5')											x			
H4C-BOT (9'-9.5')											x			
SSB-6 (10'-10.5')											x			
Cell I1-I5														
SB-13 (0'-5')		x			x		x	x	x	x	x			x
SB-13 (9'-11')		x	x		x		x		x	x	x	x	x	
SB-18 (0'-4')					x	x	x	x	x		x			x
SB-18 (4'-6')		x					x	x	x		x			x
SB-39 (0'-4')				x	x	x	x	x	x	x	x		x	x
SB-39 (4'-10')			x	x	x	x	x	x	x	x	x	x	x	x
SB-56 (0'-4')			x	x	x	x	x	x	x	x	x		x	x
SB-56 (6'-8')			x	x	x	x	x	x	x	x	x	x	x	x
SB-48 (0'-4')			x	x	x	x	x	x	x	x	x	x	x	x

TABLE 4-13

SOILS EXCEEDING UNRESTRICTED USE SOIL CLEANUP OBJECTIVES AFTER THE REMEDIAL ACTION

FRITO-LAY
202-218 MORGAN AVENUE - C224133
BROOKLYN, NEW YORK

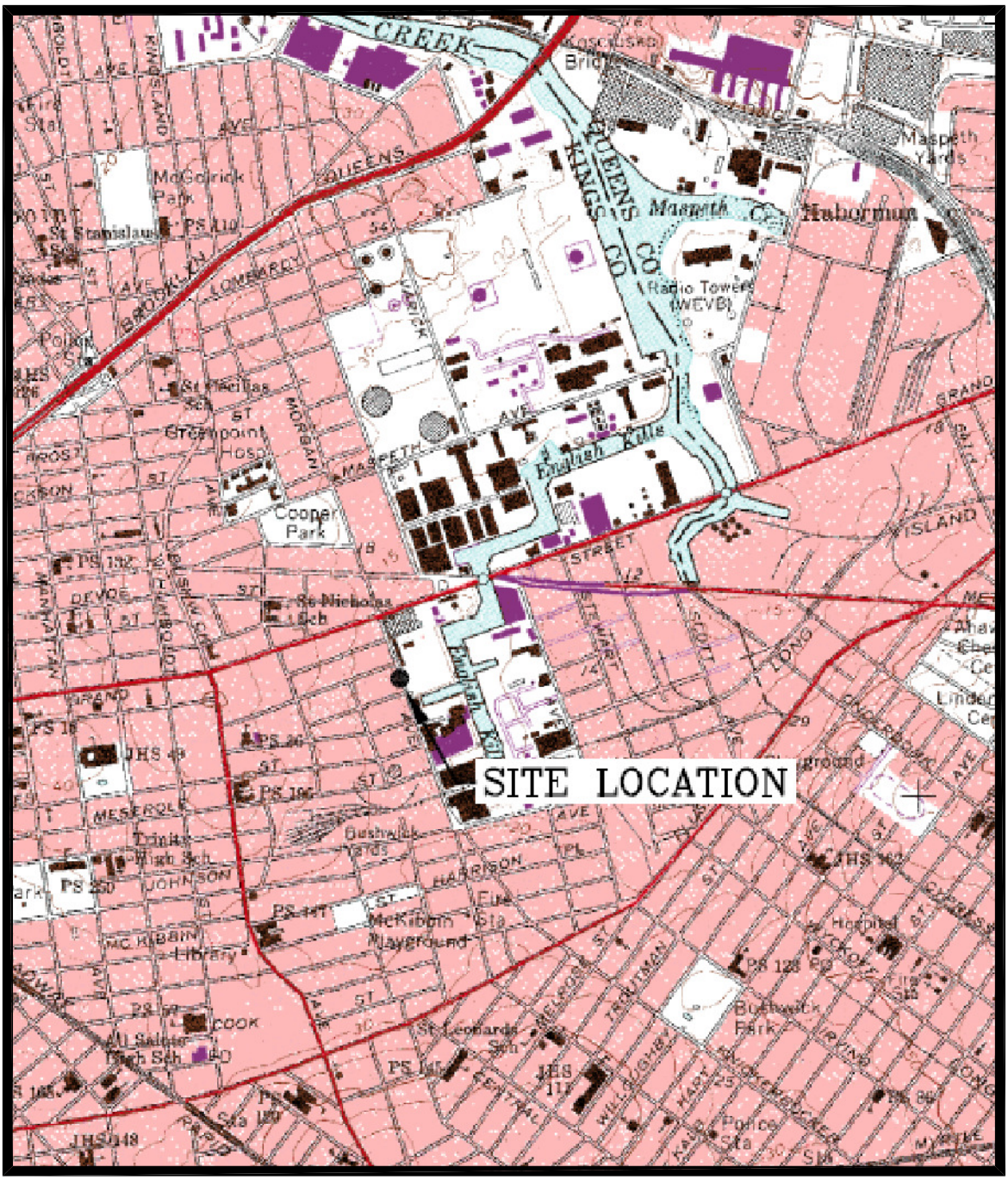
Soil Boring/Sample Location	REMAINING SOIL CONTAMINANTS EXCEEDING THE UNRESTRICTED USE SOIL CLEANUP OBJECTIVE													
	VOCs	SVOCs	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	PCBs	Selenium	Silver	Zinc
SB-48 (4'-6')			x	x	x	x	x	x	x	x	x		x	x
SSB-7 (10'-10.5')											x			
SSB-8-1 (9'-9.5')											x			
Cell J1-J5														
SB-36 (0'-4')			x	x	x	x	x	x	x	x	x		x	x
SB-36 (6'-10')				x	x	x	x	x	x	x	x		x	x
SB-14 (0'-5')		x				x	x	x	x		x			x
SB-14 (7'-9')	x	x			x	x	x	x	x		x			x
SB-14 (9'-11')		x					x	x	x					x
SB-57 (0'-4')			x	x	x	x	x	x	x	x	x	x	x	x
SB-57 (6'-8')			x	x	x	x	x	x	x	x	x	x	x	x
J5-W1 (12"-14")								x			x			
J5-W2 (60"-62")								x			x			
J5-E1 (12"-14")								x			x			
J5-E2 (60"-62")								x			x			
J5-S1 (12"-14")								x			x			
J5-S2 (60"-62")								x			x			
J5-BOT (8'-8.5')											x			
ESB-1-1 (11'-11.5')											x			
ESB-2-1 (10.5'-11')											x			
ESB-3 (9'-9.5')											x			
ESB-4 (9'-9.5')											x			
ESB-5-2 (13'-13.5')											x			
ESB-6-2 (13'-13.5')											x			
ESB-7-3 (13.5'-14')											x			
ESB-8-2 (13'-13.5')								x			x			

Gannett Fleming

FIGURE 1-1

202-218 MORGAN AVENUE

BROOKLYN, NEW YORK



SCALE 1"=2000'

U.S.G.S. 7.5 MINUTE QUADRANGLE
ELMIRA, NEW YORK

LOCATION MAP

S:\PROJECTS\47743 - Frito Lay\Brady Files\New Figures\Site Plan\FIGURE 1-1 TOPO.dwg, 4/6/2010 7:51:56 AM

LEGEND

SITE LOCATION

AERIAL LOCATION MAP

FRITO LAY, INC.
202–218 MORGAN AVENUE
BROOKLYN, NEW YORK

S:\PROJECTS\47743 - Frito Lay\Brady Files\New Figures\Site Plan\FIGURE 2-1 ARIAL.dwg, 12/15/2010 7:53:20 AM

EXISTING BULKHEAD

A B C D E F G H I J

CORRUGATED METAL FENCE

PROPOSED WAREHOUSE EXPANSION AREA

1 2 3 4 5 6

10' CHAIN LINK FENCE

10' CHAIN LINK FENCE

EXISTING BULKHEAD

ET

MORGAN AVENUE

ENGLISH KILLS

LEGEND

- ORIGINAL PCB EXCAVATION AREA
- EXTENDED PCB EXCAVATION AREA
- ARSENIC SOIL EXCAVATION AREA
- LEAD SOIL EXCAVATION AREA
- OUTLINE OF EXCAVATION AREA
- APPROXIMATE 900 SQUARE FOOT SAMPLING AREA (DER-10)

STATE OF NEW YORK
VINCENT J. FRISINA
No. 059115
LICENSED PROFESSIONAL ENGINEER
11/5/13

Gannett Fleming
100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

PROJECT #	47743
DRAWN BY:	DAB
DATE DRAWN:	FEB 2013
REVISED BY:	DAB
DATE REVISED:	APR 2013
SCALE:	1" = 40'

SOIL EXCAVATION AREAS

FRITO-LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE
2-1

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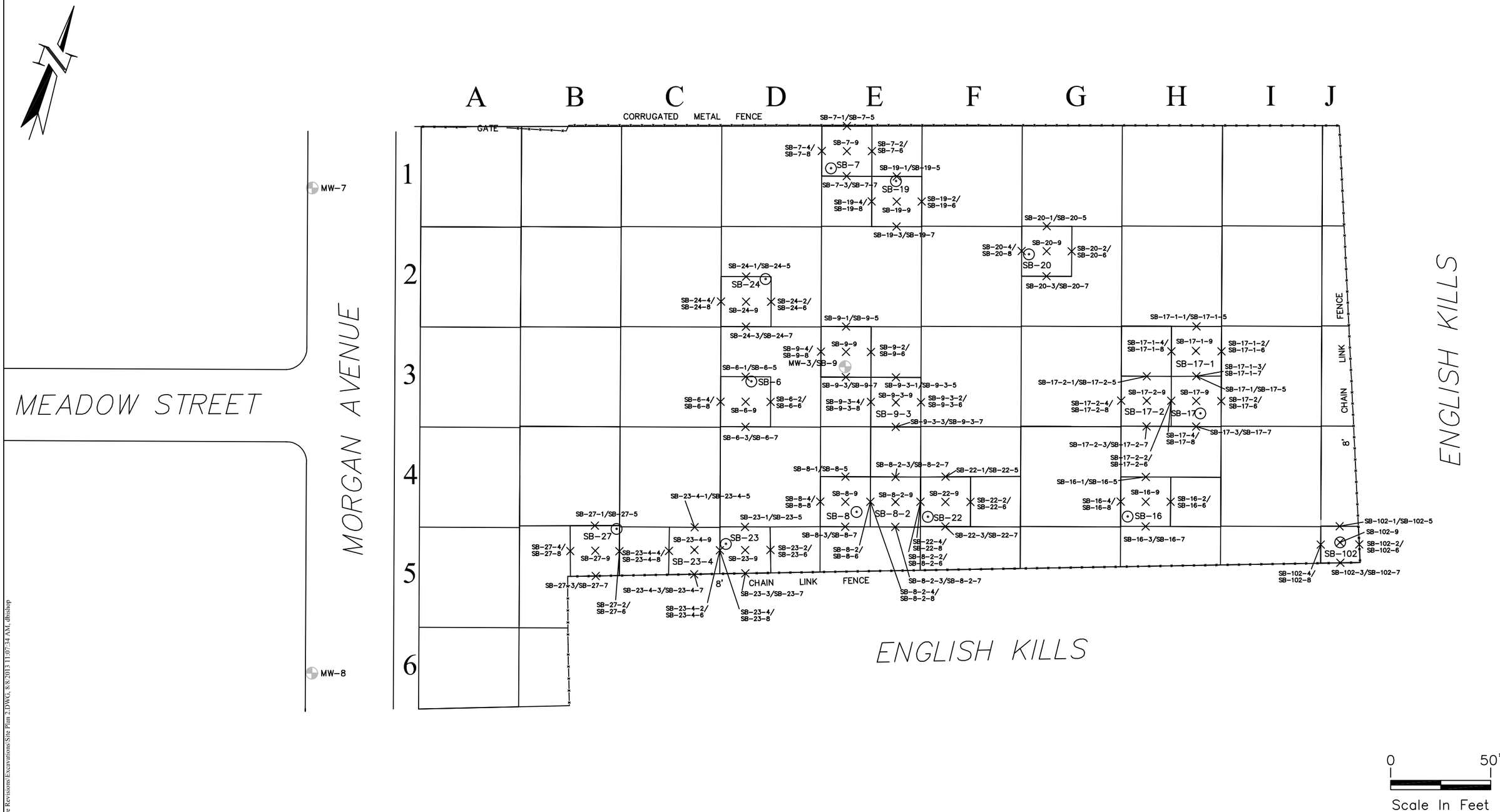


LEGEND

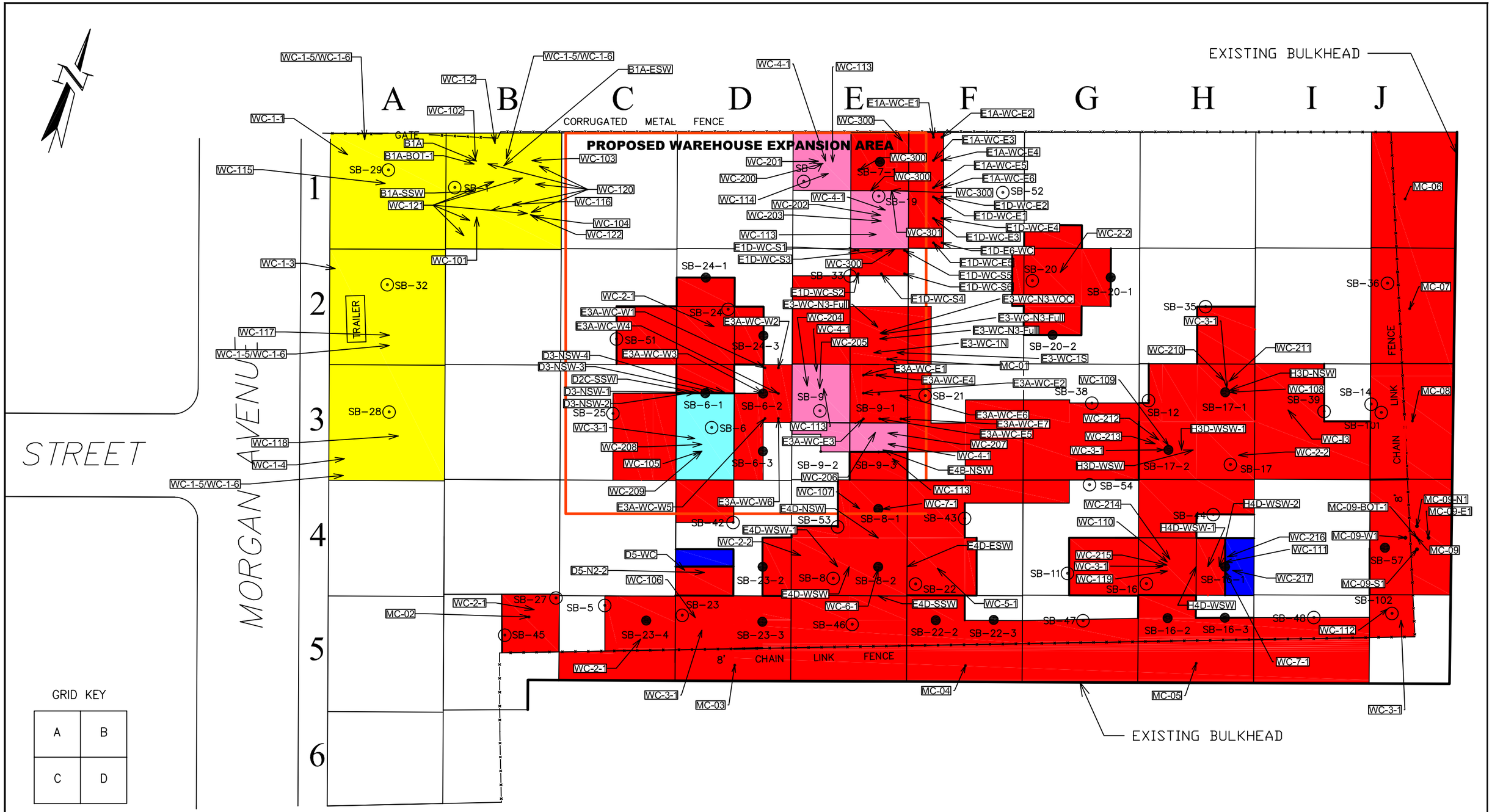
- MONITORING WELL
- 2007 AND 2009 SOIL BORING LOCATIONS
- 2010 SOIL BORING LOCATIONS
- ENDPOINT SAMPLING LOCATIONS

ENDPOINT SAMPLING LOCATIONS

FRITO LAY, INC.

202–218 MORGAN AVENUE, BROOKLYN, NEW YORK

S:\PROJECTS\77\Frito Lay Investigation\Report Figure Revisions\Excavations\Site Plan 2.DWG, 8/8/2013 11:07:34 AM, dbishop



GRID KEY

A	B
C	D

LEGEND

- SOIL BORING LOCATIONS
- SECOND SUPPLEMENTAL DELINEATION SOIL BORING LOCATIONS
- ARSENIC EXCEEDANCE
- PCB EXCEEDANCE (>10 MG/KG)
- PCB EXCEEDANCE (>50 MG/KG) HAZARDOUS
- PCB EXCEEDANCE (>25 MG/KG)
- LEAD EXCEEDANCE (>10,000 MG/KG)

0 20 40 80

SCALE: 1 INCH EQUALS 40 FEET

DRAWING SOURCE:

Gannett Fleming
100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

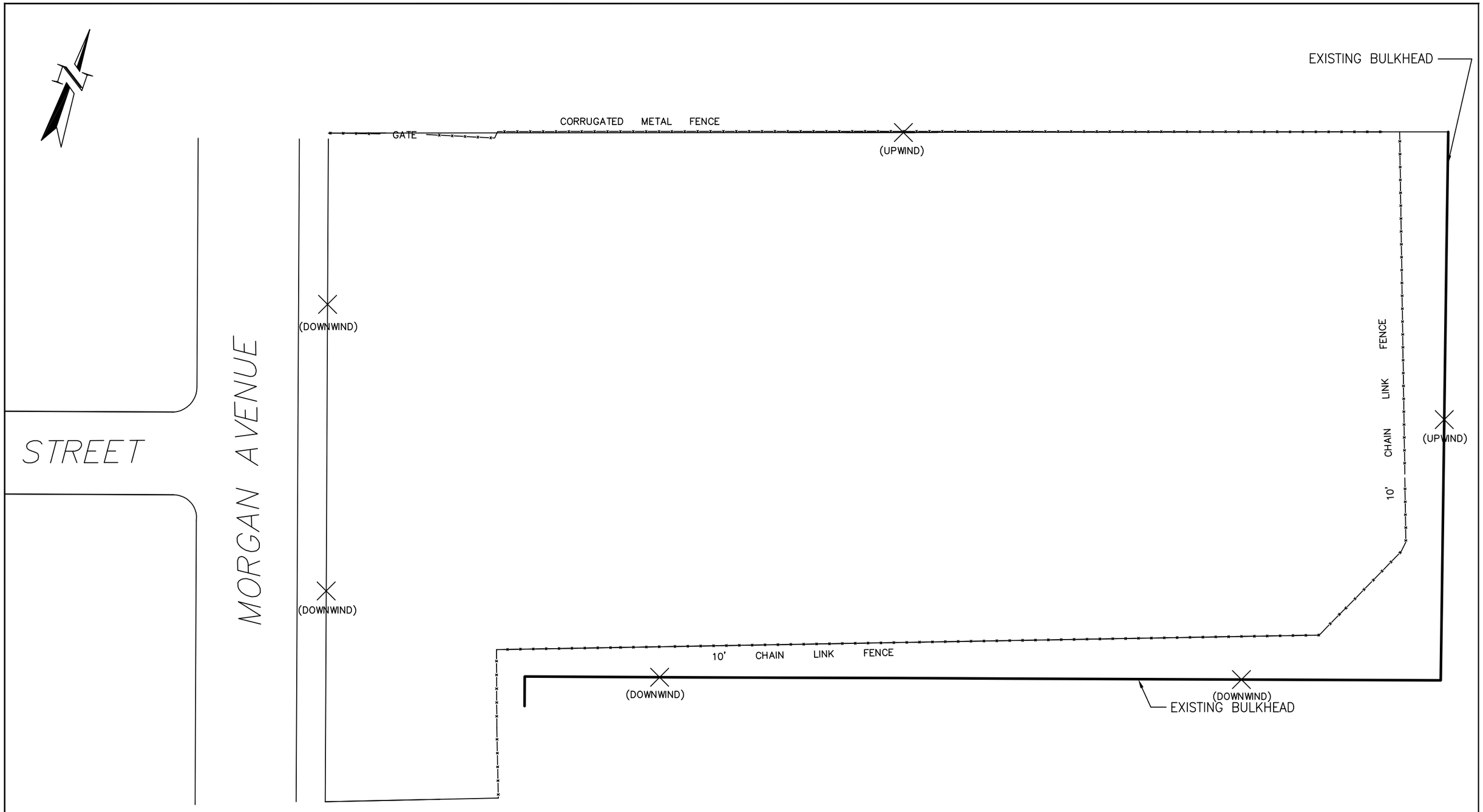
PROJECT #	47743
DRAWN BY:	DAB
DATE DRAWN:	MAR 2013
REVISED BY:	
DATE REVISED:	

WASTE CHARACTERIZATION SAMPLE LOCATIONS

FRITO-LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE
4-2

S:\PROJECTS\47743 - Frito Lay\March 2013\Waste Characterization Figures\All WC Sampling Locations.dwg, 8/7/2013 2:18:49 PM, dhislop



LEGEND

× AIR MONITORING EQUIPMENT

NOTES:
- DEPENDENT ON WIND DIRECTION
- ONE UPWIND AND TWO DOWNWIND LOCATIONS OPERATING
- PARTICULATE MONITORING ONLY
- PID AND MERCURY MONITORING WHERE EXCAVATION OCCURS

0 20 40 80

SCALE: 1 INCH EQUALS 40 FEET

DRAWING SOURCE:

Gannett Fleming
100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

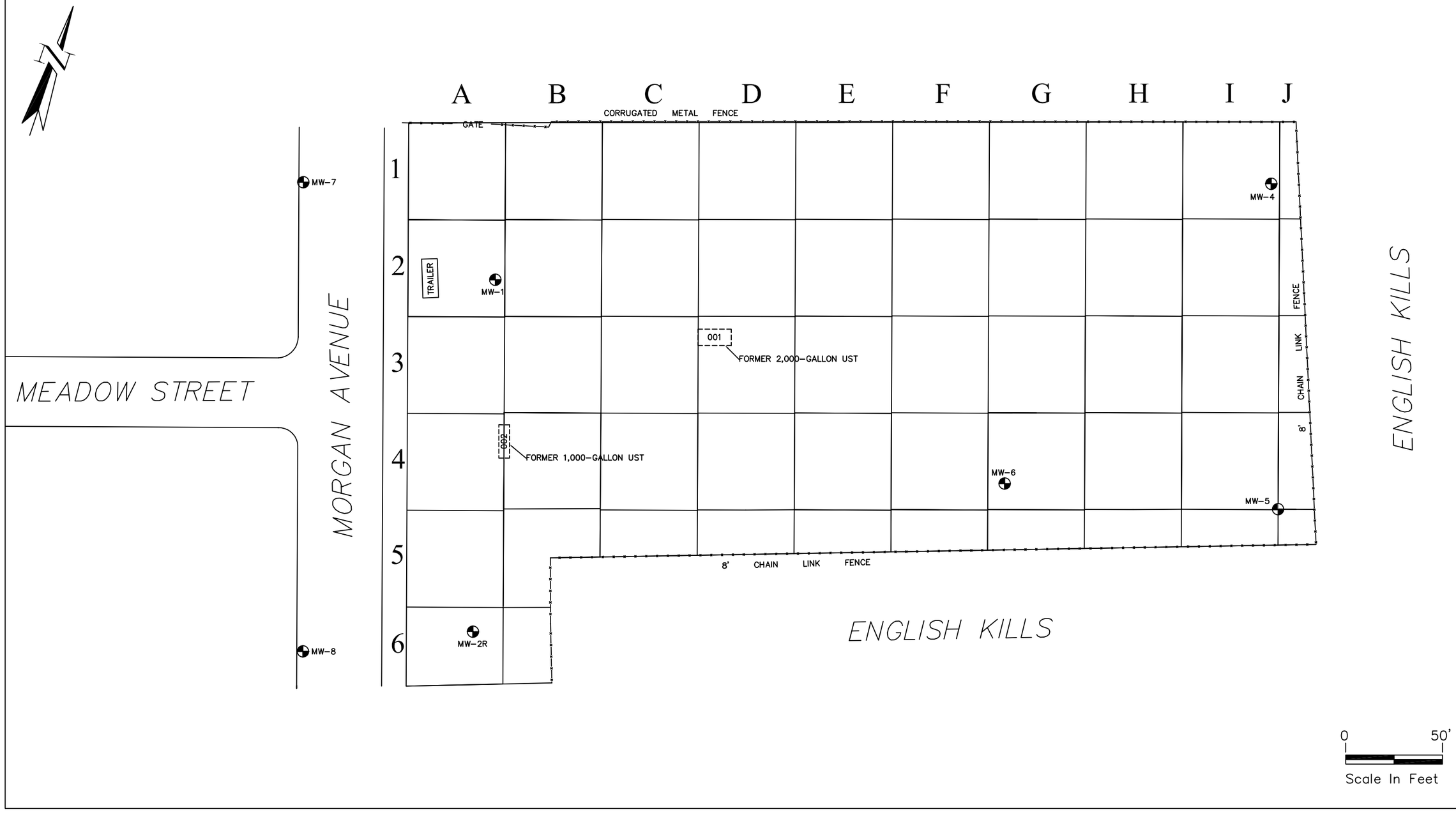
PROJECT #	47743
DRAWN BY:	DAB
DATE DRAWN:	APR 2013
REVISED BY:	
DATE REVISED:	

TYPICAL AIR MONITORING EQUIPMENT LOCATIONS

FRITO-LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE
4-3

S:\PROJECTS\47743 - Frito Lay\March 2013\Site Plan\New Site Plan.dwg, 8/8/2013 10:43:58 AM, dbishop



LEGEND
- MONITORING WELL
- FORMER UST LOCATION

FORMER UNDERGROUND STORAGE TANK (UST) LOCATIONS

FRITO LAY, INC.

202–218 MORGAN AVENUE, BROOKLYN, NEW YORK

S:\PROJECTS\47743 - Frito Lay\2013 SMP\UST Locations.DWG, 8/15/2013 5:01:57 PM, dhishop

A B C D E F G H I J

1 2 3 4 5 6

CORRUGATED METAL FENCE

GATE

PROPOSED WAREHOUSE EXPANSION AREA

SB-29 SB-1 (REUSE LOCATION) SB-50 SB-30 SB-7 SB-7-1 SB-19 SB-7-2 SB-52 SB-10 SB-31 MW-4/SB-13

SB-32 TRAILER SB-2-1 SB-2-2 MW-1/SB-2 SB-2-3 SB-4 SB-51 SB-24-1 SB-24-2 SB-24 SB-24-3 SB-33 SB-34 SB-20 SB-20-1 SB-20-2 SB-20-3 SB-35 SB-18 SB-36

SB-28 SB-37 SB-25 SB-6-1 SB-6-2 SB-6 SB-6-3 MW-3/SB-9 SB-9-1 SB-9-2 SB-9-3 SB-21 SB-38 SB-12 SB-17-1 SB-17-2 SB-17 SB-39 SB-14 SB-101

SB-54 MW-6 SB-44

SB-40 SB-55 SB-41 SB-42 SB-53 SB-8-1 SB-43 SB-27-3 SB-27-1 SB-27-2 SB-23-1 SB-23-2 SB-8 SB-8-2 SB-22 SB-22-1 SB-11 SB-16 SB-16-1 SB-56 SB-57

SB-27 SB-5 SB-23 SB-27-4 SB-45 SB-23-4 SB-23-3 SB-46 SB-22-2 SB-22-3 SB-47 SB-16-2 SB-16-3 MW-5/SB-15 SB-48 SB-102

SB-26

SB-49

MW-2/SB-3

8' CHAIN LINK FENCE

8' CHAIN LINK FENCE

MW-7

MW-8

STREET

MORGAN AVENUE

ENGLISH KILLS

GRID KEY

1	2
3	4

LEGEND

- MONITORING WELL
- SOIL BORING LOCATIONS
- PROPOSED SECOND SUPPLEMENTAL DELINEATION SOIL BORING LOCATIONS
- ARSENIC EXCEEDANCE
- PCB EXCEEDANCE (>10 MG/KG)

0 20 40 80

SCALE: 1 INCH EQUALS 40 FEET

DRAWING SOURCE:

Gannett Fleming
100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

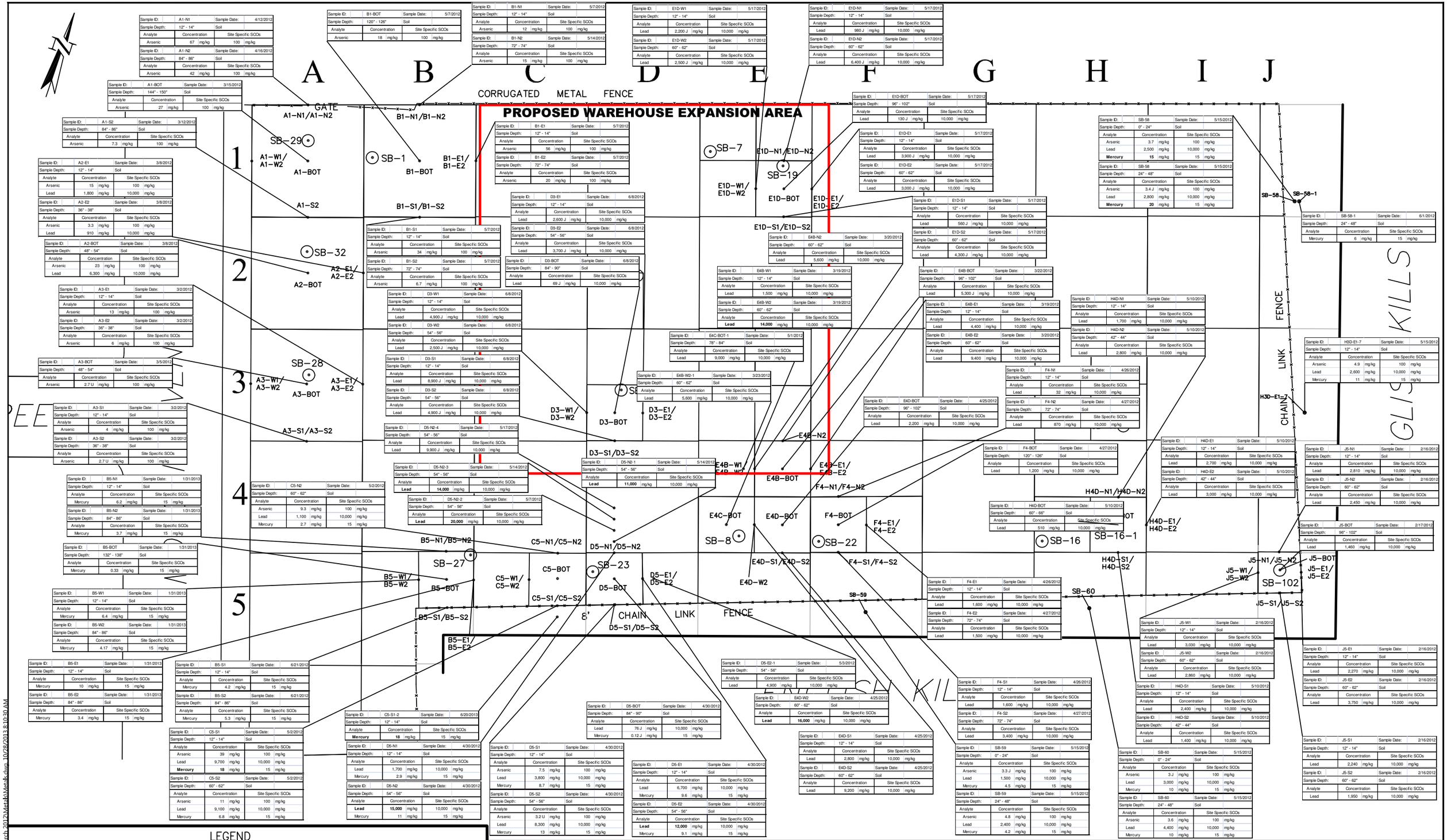
PROJECT #	47743
DRAWN BY:	DAB
DATE DRAWN:	MAR 2011
REVISED BY:	
DATE REVISED:	

SOIL REUSE LOCATION

FRITO-LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE **4-5**

S:\PROJECTS\47743 - Frito Lay\2013 SMP\Figure 4-7.DWG, 8/8/2013 10:46:40 AM, dbishop



Sample ID:	A1-N1	Sample Date:	4/12/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	67 mg/kg	100 mg/kg	

Sample ID:	A1-N2	Sample Date:	4/16/2012
Sample Depth:	84" - 86"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	42 mg/kg	100 mg/kg	

Sample ID:	A1-BOT	Sample Date:	3/15/2012
Sample Depth:	144" - 150"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	27 mg/kg	100 mg/kg	

Sample ID:	A1-S2	Sample Date:	3/12/2012
Sample Depth:	84" - 86"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	7.3 mg/kg	100 mg/kg	

Sample ID:	A2-E1	Sample Date:	3/8/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	15 mg/kg	100 mg/kg	
Lead	1,800 mg/kg	10,000 mg/kg	

Sample ID:	A2-E2	Sample Date:	3/8/2012
Sample Depth:	36" - 38"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	3.3 mg/kg	100 mg/kg	
Lead	910 mg/kg	10,000 mg/kg	

Sample ID:	A2-BOT	Sample Date:	3/8/2012
Sample Depth:	48" - 54"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	23 mg/kg	100 mg/kg	
Lead	6,300 mg/kg	10,000 mg/kg	

Sample ID:	A3-E1	Sample Date:	3/2/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	13 mg/kg	100 mg/kg	

Sample ID:	A3-E2	Sample Date:	3/2/2012
Sample Depth:	36" - 38"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	6 mg/kg	100 mg/kg	

Sample ID:	A3-BOT	Sample Date:	3/5/2012
Sample Depth:	48" - 54"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	2.7 U mg/kg	100 mg/kg	

Sample ID:	A3-S1	Sample Date:	3/2/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	4 mg/kg	100 mg/kg	

Sample ID:	A3-S2	Sample Date:	3/2/2012
Sample Depth:	36" - 38"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	2.7 U mg/kg	100 mg/kg	

Sample ID:	B1-BOT	Sample Date:	5/7/2012
Sample Depth:	120" - 126"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	18 mg/kg	100 mg/kg	

Sample ID:	B1-N1	Sample Date:	5/7/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	12 mg/kg	100 mg/kg	

Sample ID:	B1-N2	Sample Date:	5/14/2012
Sample Depth:	72" - 74"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	15 mg/kg	100 mg/kg	

Sample ID:	E1D-W1	Sample Date:	5/17/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	2,200 J mg/kg	10,000 mg/kg	

Sample ID:	E1D-W2	Sample Date:	5/17/2012
Sample Depth:	60" - 62"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	2,500 J mg/kg	10,000 mg/kg	

Sample ID:	E1D-N1	Sample Date:	5/17/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	980 J mg/kg	10,000 mg/kg	

Sample ID:	E1D-N2	Sample Date:	5/17/2012
Sample Depth:	60" - 62"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	6,400 J mg/kg	10,000 mg/kg	

Sample ID:	E1D-BOT	Sample Date:	5/17/2012
Sample Depth:	96" - 102"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	130 J mg/kg	10,000 mg/kg	

Sample ID:	E1D-E1	Sample Date:	5/17/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	3,900 J mg/kg	10,000 mg/kg	

Sample ID:	E1D-E2	Sample Date:	5/17/2012
Sample Depth:	60" - 62"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	3,000 J mg/kg	10,000 mg/kg	

Sample ID:	B1-E1	Sample Date:	5/7/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	56 mg/kg	100 mg/kg	

Sample ID:	B1-E2	Sample Date:	5/7/2012
Sample Depth:	72" - 74"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	20 mg/kg	100 mg/kg	

Sample ID:	D3-E1	Sample Date:	6/8/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	2,600 J mg/kg	10,000 mg/kg	

Sample ID:	D3-E2	Sample Date:	6/8/2012
Sample Depth:	54" - 56"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	3,700 J mg/kg	10,000 mg/kg	

Sample ID:	D3-BOT	Sample Date:	6/8/2012
Sample Depth:	84" - 90"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	69 J mg/kg	10,000 mg/kg	

Sample ID:	B1-S1	Sample Date:	5/7/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	34 mg/kg	100 mg/kg	

Sample ID:	B1-S2	Sample Date:	5/7/2012
Sample Depth:	72" - 74"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	6.7 mg/kg	100 mg/kg	

Sample ID:	D3-W1	Sample Date:	6/8/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	4,900 J mg/kg	10,000 mg/kg	

Sample ID:	D3-W2	Sample Date:	6/8/2012
Sample Depth:	54" - 56"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	2,500 J mg/kg	10,000 mg/kg	

Sample ID:	D3-S1	Sample Date:	6/8/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	8,900 J mg/kg	10,000 mg/kg	

Sample ID:	D3-S2	Sample Date:	6/8/2012
Sample Depth:	54" - 56"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	4,900 J mg/kg	10,000 mg/kg	

Sample ID:	D5-N2-4	Sample Date:	5/17/2012
Sample Depth:	54" - 56"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	9,900 J mg/kg	10,000 mg/kg	

Sample ID:	D5-N2-3	Sample Date:	5/14/2012
Sample Depth:	54" - 56"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	**14,000** mg/kg	10,000 mg/kg	

Sample ID:	D5-N2-2	Sample Date:	5/7/2012
Sample Depth:	54" - 56"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	**20,000** mg/kg	10,000 mg/kg	

Sample ID:	D5-N2-1	Sample Date:	5/14/2012
Sample Depth:	54" - 56"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	**11,000** mg/kg	10,000 mg/kg	

Sample ID:	C5-N2	Sample Date:	5/2/2012
Sample Depth:	60" - 62"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	9.3 mg/kg	100 mg/kg	
Lead	1,100 mg/kg	10,000 mg/kg	
Mercury	2.7 mg/kg	15 mg/kg	

Sample ID:	B5-N1	Sample Date:	1/31/2013
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Mercury	6.2 mg/kg	15 mg/kg	

Sample ID:	B5-N2	Sample Date:	1/31/2013
Sample Depth:	84" - 86"	Soil	
Analyte	Concentration	Site Specific SCOs	
Mercury	3.7 mg/kg	15 mg/kg	

Sample ID:	B5-BOT	Sample Date:	1/31/2013
Sample Depth:	132" - 138"	Soil	
Analyte	Concentration	Site Specific SCOs	
Mercury	0.33 mg/kg	15 mg/kg	

Sample ID:	B5-W1	Sample Date:	1/31/2013
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Mercury	6.4 mg/kg	15 mg/kg	

Sample ID:	B5-W2	Sample Date:	1/31/2013
Sample Depth:	84" - 86"	Soil	
Analyte	Concentration	Site Specific SCOs	
Mercury	4.17 mg/kg	15 mg/kg	

Sample ID:	B5-E1	Sample Date:	1/31/2013
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Mercury	10 mg/kg	15 mg/kg	

Sample ID:	B5-E2	Sample Date:	1/31/2013
Sample Depth:	84" - 86"	Soil	
Analyte	Concentration	Site Specific SCOs	
Mercury	3.4 mg/kg	15 mg/kg	

Sample ID:	B5-S1	Sample Date:	6/21/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Mercury	4.2 mg/kg	15 mg/kg	

Sample ID:	B5-S2	Sample Date:	6/21/2012
Sample Depth:	84" - 86"	Soil	
Analyte	Concentration	Site Specific SCOs	
Mercury	5.3 mg/kg	15 mg/kg	

Sample ID:	C5-S1	Sample Date:	5/2/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	39 mg/kg	100 mg/kg	
Lead	9,700 mg/kg	10,000 mg/kg	
Mercury	**18** mg/kg	15 mg/kg	

Sample ID:	C5-S2	Sample Date:	5/2/2012
Sample Depth:	60" - 62"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	11 mg/kg	100 mg/kg	
Lead	9,100 mg/kg	10,000 mg/kg	
Mercury	6.8 mg/kg	15 mg/kg	

Sample ID:	C5-S1-2	Sample Date:	6/20/2013
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Mercury	**18** mg/kg	15 mg/kg	

Sample ID:	D5-N1	Sample Date:	4/30/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	1,700 mg/kg	10,000 mg/kg	
Mercury	2.9 mg/kg	15 mg/kg	

Sample ID:	D5-N2	Sample Date:	4/30/2012
Sample Depth:	54" - 56"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	**15,000** mg/kg	10,000 mg/kg	
Mercury	11 mg/kg	15 mg/kg	

Sample ID:	D5-S1	Sample Date:	4/30/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	7.5 mg/kg	100 mg/kg	
Lead	3,800 mg/kg	10,000 mg/kg	
Mercury	8.7 mg/kg	15 mg/kg	

Sample ID:	D5-S2	Sample Date:	4/30/2012
Sample Depth:	54" - 56"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	3.2 U mg/kg	100 mg/kg	
Lead	8,300 mg/kg	10,000 mg/kg	
Mercury	13 mg/kg	15 mg/kg	

Sample ID:	D5-BOT	Sample Date:	4/30/2012
Sample Depth:	84" - 90"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	76 J mg/kg	10,000 mg/kg	
Mercury	0.12 J mg/kg	15 mg/kg	

Sample ID:	D5-E1	Sample Date:	4/30/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	6,700 mg/kg	10,000 mg/kg	
Mercury	9.6 mg/kg	15 mg/kg	

Sample ID:	D5-E2	Sample Date:	4/30/2012
Sample Depth:	54" - 56"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	**12,000** mg/kg	10,000 mg/kg	
Mercury	9.1 mg/kg	15 mg/kg	

Sample ID:	D5-E2-1	Sample Date:	5/3/2012
Sample Depth:	54" - 56"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	4,900 mg/kg	10,000 mg/kg	

Sample ID:	E4D-W2	Sample Date:	4/25/2012
Sample Depth:	60" - 62"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	**16,000** mg/kg	10,000 mg/kg	

Sample ID:	E4D-S1	Sample Date:	4/25/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	2,800 mg/kg	10,000 mg/kg	

Sample ID:	E4D-S2	Sample Date:	4/25/2012
Sample Depth:	60" - 62"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	9,200 mg/kg	10,000 mg/kg	

Sample ID:	E4B-N2	Sample Date:	3/20/2012
Sample Depth:	60" - 62"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	5,600 mg/kg	10,000 mg/kg	

Sample ID:	E4B-W1	Sample Date:	3/19/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	1,500 mg/kg	10,000 mg/kg	

Sample ID:	E4B-W2	Sample Date:	3/19/2012
Sample Depth:	60" - 62"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	**14,000** mg/kg	10,000 mg/kg	

Sample ID:	E4C-BOT-1	Sample Date:	5/1/2012
Sample Depth:	78" - 84"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	9,000 mg/kg	10,000 mg/kg	

Sample ID:	E4B-W2-1	Sample Date:	3/23/2012
Sample Depth:	60" - 62"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	5,600 mg/kg	10,000 mg/kg	

Sample ID:	E4D-BOT	Sample Date:	4/25/2012
Sample Depth:	96" - 102"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	2,200 mg/kg	10,000 mg/kg	

Sample ID:	F4-BOT	Sample Date:	4/27/2012
Sample Depth:	120" - 126"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	1,200 mg/kg	10,000 mg/kg	

Sample ID:	H4D-BOT	Sample Date:	5/10/2012
Sample Depth:	60" - 66"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	510 mg/kg	10,000 mg/kg	

Sample ID:	F4-E1	Sample Date:	4/26/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	1,600 mg/kg	10,000 mg/kg	

Sample ID:	F4-E2	Sample Date:	4/27/2012
Sample Depth:	72" - 74"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	1,500 mg/kg	10,000 mg/kg	

Sample ID:	F4-N1	Sample Date:	4/26/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	32 mg/kg	10,000 mg/kg	

Sample ID:	F4-N2	Sample Date:	4/27/2012
Sample Depth:	72" - 74"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	870 mg/kg	10,000 mg/kg	

Sample ID:	SB-58	Sample Date:	5/15/2012
Sample Depth:	0" - 24"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	3.7 mg/kg	100 mg/kg	
Lead	2,500 mg/kg	10,000 mg/kg	
Mercury	**15** mg/kg	15 mg/kg	

Sample ID:	SB-58	Sample Date:	5/15/2012
Sample Depth:	24" - 48"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	3.4 J mg/kg	100 mg/kg	
Lead	2,800 mg/kg	10,000 mg/kg	
Mercury	**20** mg/kg	15 mg/kg	

Sample ID:	SB-58-1	Sample Date:	6/1/2012
Sample Depth:	24" - 48"	Soil	
Analyte	Concentration	Site Specific SCOs	
Mercury	6 mg/kg	15 mg/kg	

Sample ID:	H4D-N1	Sample Date:	5/10/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	1,700 mg/kg	10,000 mg/kg	

Sample ID:	H4D-N2	Sample Date:	5/10/2012
Sample Depth:	42" - 44"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	2,800 mg/kg	10,000 mg/kg	

Sample ID:	H3D-E1-7	Sample Date:	5/15/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	4.9 mg/kg	100 mg/kg	
Lead	2,600 mg/kg	10,000 mg/kg	
Mercury	11 mg/kg	15 mg/kg	

Sample ID:	H4D-E1	Sample Date:	5/10/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	2,700 mg/kg	10,000 mg/kg	

Sample ID:	H4D-E2	Sample Date:	5/10/2012
Sample Depth:	42" - 44"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	3,000 mg/kg	10,000 mg/kg	

Sample ID:	J5-N1	Sample Date:	2/16/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	2,810 mg/kg	10,000 mg/kg	

Sample ID:	J5-N2	Sample Date:	2/16/2012
Sample Depth:	60" - 62"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	2,450 mg/kg	10,000 mg/kg	

Sample ID:	J5-BOT	Sample Date:	2/17/2012
Sample Depth:	96" - 102"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	1,460 mg/kg	10,000 mg/kg	

Sample ID:	J5-W1	Sample Date:	2/16/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	3,030 mg/kg	10,000 mg/kg	

Sample ID:	J5-W2	Sample Date:	2/16/2012
Sample Depth:	60" - 62"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	2,860 mg/kg	10,000 mg/kg	

Sample ID:	J5-E1	Sample Date:	2/16/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	2,270 mg/kg	10,000 mg/kg	

Sample ID:	J5-E2	Sample Date:	2/16/2012
Sample Depth:	60" - 62"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	3,750 mg/kg	10,000 mg/kg	

Sample ID:	F4-S1	Sample Date:	4/26/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	1,600 mg/kg	10,000 mg/kg	

Sample ID:	F4-S2	Sample Date:	4/27/2012
Sample Depth:	72" - 74"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	3,400 mg/kg	10,000 mg/kg	

Sample ID:	H4D-S1	Sample Date:	5/10/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	2,400 mg/kg	10,000 mg/kg	

Sample ID:	H4D-S2	Sample Date:	5/10/2012
Sample Depth:	42" - 44"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	1,400 mg/kg	10,000 mg/kg	

Sample ID:	SB-59	Sample Date:	5/15/2012
Sample Depth:	0" - 24"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	3.3 J mg/kg	100 mg/kg	
Lead	1,500 mg/kg	10,000 mg/kg	
Mercury	4.5 mg/kg	15 mg/kg	

Sample ID:	SB-59	Sample Date:	5/15/2012
Sample Depth:	24" - 48"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	4.8 mg/kg	100 mg/kg	
Lead	2,400 mg/kg	10,000 mg/kg	
Mercury	4.2 mg/kg	15 mg/kg	

Sample ID:	SB-60	Sample Date:	5/15/2012
Sample Depth:	0" - 24"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	3 J mg/kg	100 mg/kg	
Lead	3,000 mg/kg	10,000 mg/kg	
Mercury	10 mg/kg	15 mg/kg	

Sample ID:	SB-60	Sample Date:	5/15/2012
Sample Depth:	24" - 48"	Soil	
Analyte	Concentration	Site Specific SCOs	
Arsenic	3.6 mg/kg	100 mg/kg	
Lead	4,400 mg/kg	10,000 mg/kg	
Mercury	10 mg/kg	15 mg/kg	

Sample ID:	J5-S1	Sample Date:	2/16/2012
Sample Depth:	12" - 14"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	2,240 mg/kg	10,000 mg/kg	

Sample ID:	J5-S2	Sample Date:	2/16/2012
Sample Depth:	60" - 62"	Soil	
Analyte	Concentration	Site Specific SCOs	
Lead	1,950 mg/kg	10,000 mg/kg	

LEGEND

- ⊙ REMEDIAL INVESTIGATION SOIL BORING LOCATIONS REQUIRING REMEDIATION
- • ENDPOINT SAMPLE LOCATIONS

NOTE: SOIL SAMPLES COLLECTED WITHIN THE PROPOSED WAREHOUSE FOOTPRINT ARE COMPARED TO THE EPA HIGH OCCUPANCY AREA CRITERIA (10 MG/KG)

0 20 40 80

SCALE: 1 INCH EQUALS 40 FEET

DRAWING SOURCE:

Gannett Fleming
100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

PROJECT #	47743
DRAWN BY:	DAB
DATE DRAWN:	DEC 2011
REVISED BY:	DAB
DATE REVISED:	OCT 2013

PRE-EXCAVATION SOIL SAMPLE RESULTS - METALS

FRITO LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE
4-6

S:\PROJECTS\47743 - Frito Lay\March 2012\Metals\Metals.dwg, 10/28/2013 8:10:30 AM

A B C D E F G H I J

1 2 3 4 5 6

CORRUGATED METAL FENCE

GATE

PROPOSED WAREHOUSE EXPANSION AREA

D2-N1-2 (12-14) Total PCBs 2.82 J mg/kg
SB-24-1 (0-48) Total PCBs 6.3 mg/kg
D2-N1-1 (12-14) Total PCBs 204 mg/kg
D2-W1 (12-14) Total PCBs 5.3 J mg/kg
D2-N1 (12-14) Total PCBs 11 mg/kg
D2-W2-1 (42-44) Total PCBs 50.9 J mg/kg
D2-W2 (42-44) Total PCBs 24 mg/kg
D2-N2 (42-44) Total PCBs 30.6 mg/kg
D2-E1 (12-14) Total PCBs 60 J mg/kg
D3-E2 (43-44) Total PCBs 3.25 mg/kg
D2-W2-2 (42-44) Total PCBs 117 mg/kg
D2-SOT (90-96) Total PCBs 1.06 mg/kg
D2-E1-1 (12-14) Total PCBs 149 mg/kg
D2-W2-3 (42-44) Total PCBs 93 J mg/kg
D2-E1-2 (12-14) Total PCBs 21.2 mg/kg
SB-24-3 (0-48) Total PCBs 3.4 mg/kg
SB-24-3 (48-72) Total PCBs 2.36 mg/kg
E3A-W1-1 (12-14) Total PCBs 43 mg/kg
E3A-W2-1 (54-56) Total PCBs 45 mg/kg
SB-6 (0-60) Total PCBs 7.6 mg/kg
SB-6 (60-84) Total PCBs 33 mg/kg
SB-6 (84-105) Total PCBs 2.7 mg/kg
SB-51 (0-48) Total PCBs 0.175 mg/kg
SB-51 (48-66) Total PCBs 0.21 mg/kg
D2-S1 (12-14) Total PCBs 110 mg/kg
SB-6-2 (0-48) Total PCBs 1.8 mg/kg
SB-6-2 (72-96) Total PCBs 6.1 J mg/kg
D2-S2 (42-44) Total PCBs 2.52 mg/kg
D2-S1-1 (12-14) Total PCBs 223 mg/kg
D2-S1-2 (12-14) Total PCBs 38.4 J mg/kg
D2-S1-3 (12-14) Total PCBs 20.5 J mg/kg
SB-6-1 (0-48) Total PCBs 12 mg/kg
D3-E1 (12-14) Total PCBs 17.4 mg/kg
D3-E2 (54-56) Total PCBs 141 mg/kg
SB-25 (0-48) Total PCBs 2.3 mg/kg
D3-SOT (84-90) Total PCBs <0.11 mg/kg
D3-W1-2 (12-14) Total PCBs 14 mg/kg
D3-E1-2 (12-14) Total PCBs 15.8 mg/kg
SB-6-3 (0-48) Total PCBs 0.69 mg/kg
D3-W1-4 (12-14) Total PCBs 62 mg/kg
D3-E1-1 (12-14) Total PCBs 41 mg/kg
D3-E2-1 (54-56) Total PCBs 5.7 mg/kg
D3-W1-3 (12-14) Total PCBs 25.9 mg/kg
D3-W1-1 (12-14) Total PCBs 72.7 mg/kg
D3-W1 (12-14) Total PCBs 107 mg/kg
D3-W2 (54-56) Total PCBs 26 mg/kg
D3-S2-3 (54-56) Total PCBs 77 mg/kg
D3-S2-2 (54-56) Total PCBs 64 mg/kg
D3-S1-1 (12-14) Total PCBs 6.2 mg/kg
D3-S2-1 (54-56) Total PCBs 290 mg/kg
D3-S1 (12-14) Total PCBs 58 mg/kg
D3-S2 (54-56) Total PCBs 59.2 mg/kg
D3-W2-1 (54-56) Total PCBs 2.8 mg/kg
SB-42 (0-48) Total PCBs 1.58 mg/kg
SB-42 (48-120) Total PCBs 0.49 mg/kg
SB-23-2 (0-48) Total PCBs 1.23 mg/kg
SB-23-2 (72-96) Total PCBs 14.7 mg/kg
SB-5 (0-60) Total PCBs 2.8 mg/kg
C5-N1 (12-14) Total PCBs 14.3 mg/kg
SB-23-1 (0-48) Total PCBs 4.6 J mg/kg
E4C-W2-1 (42-44) Total PCBs 52 J mg/kg
D5-N1 (12-14) Total PCBs 12.9 mg/kg
SB-5 (60-84) Total PCBs 2.3 mg/kg
C5-N2 (60-62) Total PCBs 18.2 mg/kg
SB-23-1 (48-72) Total PCBs 3.93 mg/kg
SB-5 (133-138) Total PCBs ND
C5-BOT (96-102) Total PCBs <0.12 mg/kg
D5-N2-1 (54-56) Total PCBs 65.7 mg/kg
D5-N2 (54-56) Total PCBs 85 mg/kg
B5-N1 (12-14) Total PCBs 7.4 mg/kg
B5-N2 (84-86) Total PCBs 3.59 mg/kg
B5-E1 (12-14) Total PCBs 20.6 mg/kg
B5-E2 (84-86) Total PCBs 2.07 mg/kg
D5-E1 (12-14) Total PCBs 71.5 mg/kg
D5-E2 (54-56) Total PCBs 112 mg/kg
D5-SOT (84-90) Total PCBs <0.11 mg/kg
SB-23-3 (0-48) Total PCBs 9.2 mg/kg
SB-23-3 (48-72) Total PCBs 8.2 J mg/kg
B5-W1 (12-14) Total PCBs 6.4 J mg/kg
B5-W2 (84-86) Total PCBs 4.17 mg/kg
B5-SOT (132-138) Total PCBs <0.13 mg/kg
B5-S1 (12-14) Total PCBs 4.8 mg/kg
B5-S2 (84-86) Total PCBs 6.6 mg/kg
C5-W1 (12-14) Total PCBs 13.7 mg/kg
C5-W2 (60-62) Total PCBs 83 mg/kg
D5-S1-3 (12-14) Total PCBs 74 J mg/kg
D5-S2-3 (54-56) Total PCBs 46.6 mg/kg
D5-S1-2 (12-14) Total PCBs 39 mg/kg
D5-S2-2 (54-56) Total PCBs 90 J mg/kg
D5-S1-1 (12-14) Total PCBs 116 J mg/kg
D5-S2-1 (54-56) Total PCBs 94.4 J mg/kg
D5-S1 (12-14) Total PCBs 27 J mg/kg
D5-S2 (54-56) Total PCBs 165 mg/kg
D5-S1/S2-3 (96-102) Total PCBs <0.11 mg/kg
D5-E1-1 (12-14) Total PCBs 7.3 mg/kg
D5-E2-1 (54-56) Total PCBs 72.9 mg/kg
C5-S1 (12-14) Total PCBs 53.3 mg/kg
C5-S2 (60-62) Total PCBs 57.5 mg/kg
C5-S1/S2-3 (96-102) Total PCBs <0.12 mg/kg
C5-S1-1 (12-14) Total PCBs 47.4 mg/kg
C5-S2-1 (60-62) Total PCBs 27.8 mg/kg
C5-S1-2 (12-14) Total PCBs 39.1 J mg/kg
C5-S2-2 (60-62) Total PCBs 40.4 mg/kg
C5-S1-3 (12-14) Total PCBs 23 mg/kg
C5-S2-3 (60-62) Total PCBs 47.2 mg/kg

10' CHAIN LINK FENCE

10' CHAIN LINK FENCE

EXISTING BULKHEAD

LEGEND
- ORIGINAL EXCAVATION AREA
- EXTENDED EXCAVATION AREA
- PCB CONCENTRATIONS EXCEEDING 25 MG/KG
- OUTLINE OF EXCAVATION AREA

NOTE: SAMPLE DEPTHS DISPLAYED IN INCHES

STATE OF NEW YORK VINCENT J. PRISINA LICENSED PROFESSIONAL ENGINEER No. 059115 11/5/13

Gannett Fleming
100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

PROJECT #	47743
DRAWN BY:	DAB
DATE DRAWN:	FEB 2013
REVISED BY:	DAB
DATE REVISED:	OCT 2013
SCALE:	1" = 30'

PRE-EXCAVATION SOIL SAMPLE RESULTS - COLUMNS A, B, AND C

FRITO-LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE 4-7

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A B E F I J

1 2 3 4 5 6

CORRUGATED METAL FENCE

GATE

PROPOSED WAREHOUSE EXCAVATION AREA

EXISTING BULKHEAD

10' CHAIN LINK FENCE

10' CHAIN LINK FENCE

E1A-W1 (12-14) Total PCBs 2.25 J mg/kg
E1A-W2 (84-86) Total PCBs 0.04 J mg/kg

E1A-N1 (12-14) Total PCBs 0.88 mg/kg
E1A-N2 (84-86) Total PCBs 2.3 mg/kg

E1A-E1 (12-14) Total PCBs 0.28 mg/kg
E1A-E2 (84-86) Total PCBs 23 J mg/kg

E1A-E2-1 (84-86) Total PCBs 33 mg/kg

E1A-E2-2 (84-86) Total PCBs 31 mg/kg

E1A-E2-3 (84-86) Total PCBs 37 mg/kg

E1D-N1-2 (12-14) Total PCBs 23 mg/kg
E1D-N2-2 (60-62) Total PCBs 49.8 mg/kg

E1A-OE1-BOT (144-150) Total PCBs <0.12 mg/kg
E1A-E2-6 (84-86) Total PCBs 55 mg/kg

E1A-E2-8 (84-86) Total PCBs 14.4 mg/kg

E1D-N1-1 (12-14) Total PCBs 48 mg/kg
E1D-N2-1 (60-62) Total PCBs 22.3 mg/kg

E1D-N1 (12-14) Total PCBs 13 mg/kg
E1D-N2 (60-62) Total PCBs 26.1 mg/kg

E1A-BOT (144-150) Total PCBs <0.13 mg/kg

E1A-S1 (12-14) Total PCBs 1.0 mg/kg
E1A-S2 (84-86) Total PCBs 3.17 mg/kg

E1D-W1-1 (12-14) Total PCBs 2.3 mg/kg
E1D-W2-1 (60-62) Total PCBs 6.0 mg/kg

E1D-E1 (12-14) Total PCBs 41.6 mg/kg
E1D-E2 (60-62) Total PCBs 68 mg/kg

E1D-E1-1 (12-14) Total PCBs 29 mg/kg
E1D-E2-1 (60-62) Total PCBs 2.4 mg/kg

E1A-E2-7 (84-86) Total PCBs 27 mg/kg

E1A-E2-5 (84-86) Total PCBs 43.2 mg/kg

E1A-E2-4 (84-86) Total PCBs 40.2 J mg/kg

E1D-E1-2 (12-14) Total PCBs 15.8 J mg/kg

E1D-BOT (96-102) Total PCBs 6.8 mg/kg

E1D-S1 (12-14) Total PCBs 20.5 mg/kg
E1D-S2 (60-62) Total PCBs 19.4 mg/kg

E3A-N1-5 (12-14) Total PCBs 36 mg/kg
E3A-N2-5 (54-56) Total PCBs 9.4 mg/kg
E3A-OE1-BOT (84-90) Total PCBs 2.64 J mg/kg

E3A-N1-6 (12-14) Total PCBs 48 mg/kg

E3A-N1-7 (12-14) Total PCBs 26 mg/kg

E1D-W1 (12-14) Total PCBs 11 mg/kg
E1D-W2 (60-62) Total PCBs 22 mg/kg

E1D-S1-1 (12-14) Total PCBs 17.2 mg/kg
E1D-S2-1 (60-62) Total PCBs 41.6 mg/kg

SB-33 (0-48) Total PCBs 1.77 mg/kg
SB-33 (48-120) Total PCBs 1.69 mg/kg

E3A-OE1-WSW (54-56) Total PCBs 4.9 J mg/kg

E3A-N3-5 (60-62) Total PCBs 0.3 mg/kg

E3A-N3-4 (60-62) Total PCBs 18.3 mg/kg

E3A-N3-3 (60-62) Total PCBs 27.3 mg/kg

E3A-N3-2 (60-62) Total PCBs 34 mg/kg

E3A-N3-1 (60-62) Total PCBs 25 mg/kg

E3A-N1-4 (12-14) Total PCBs 70 mg/kg
E3A-N2-4 (54-56) Total PCBs 19.1 mg/kg

E3A-OE1-ESW (84-90) Total PCBs 2.4 mg/kg

E3A-N3 (60-62) Total PCBs 41.8 mg/kg

E3A-N1 (12-14) Total PCBs 79 mg/kg
E3A-N2 (54-56) Total PCBs 54.9 mg/kg

E3A-N1-1 (12-14) Total PCBs 39.4 mg/kg
E3A-N2-1 (54-56) Total PCBs 18.7 mg/kg

E3A-N1-2 (12-14) Total PCBs 78.1 mg/kg
E3A-N2-2 (54-56) Total PCBs 134 mg/kg

E3A-N1-3 (12-14) Total PCBs 110 J mg/kg
E3A-N2-3 (54-56) Total PCBs 38 mg/kg

E3A-E1 (12-14) Total PCBs 32.8 mg/kg
E3A-E2 (54-56) Total PCBs 52.4 mg/kg

E3A-E1-1 (12-14) Total PCBs 37 mg/kg
E3A-E2-1 (54-56) Total PCBs 37 J mg/kg

E3A-BOT (84-90) Total PCBs 12.8 mg/kg
E3A-BOT-1 (96-102) Total PCBs <0.14 mg/kg

E3A-OE3-BOT (84-90) Total PCBs 1.76 J mg/kg

E3A-E2-2 (54-56) Total PCBs 20.3 mg/kg

SB-21 (0-24) Total PCBs 9.9 mg/kg

SB-6-2 (0-48) Total PCBs 1.6 mg/kg
SB-6-2 (72-96) Total PCBs 6.1 J mg/kg

E3A-S1 (12-14) Total PCBs 3.7 mg/kg
E3A-S2 (54-56) Total PCBs 23.7 mg/kg

SB-9-2 (0-48) Total PCBs 7.8 mg/kg
SB-9-2 (96-120) Total PCBs 2.69 mg/kg

E3A-S2-1 (54-56) Total PCBs 15.9 mg/kg

E3D-N1-2 (12-14) Total PCBs 29.5 mg/kg
E3D-N2-2 (36-38) Total PCBs 9.4 mg/kg

E3D-N1-1 (12-14) Total PCBs 18.4 mg/kg
E3D-N2-1 (36-38) Total PCBs 33.2 mg/kg

E3A-W1-1 (12-14) Total PCBs 43 mg/kg
E3A-W2-1 (54-56) Total PCBs 45 mg/kg

E3A-W1 (12-14) Total PCBs 465 mg/kg
E3A-W2 (54-56) Total PCBs 59.8 mg/kg

E3D-N1 (12-14) Total PCBs 20.1 mg/kg
E3D-N2 (36-38) Total PCBs 32 mg/kg

E3D-E1-1 (12-14) Total PCBs 20.9 mg/kg
E3D-E2-1 (36-38) Total PCBs 319 mg/kg

E3D-E2-2 (36-38) Total PCBs 68 mg/kg

E3D-W2-2 (36-38) Total PCBs 14.8 mg/kg

E4B-N2 (60-62) Total PCBs 25 J mg/kg

E4B-N2-1 (60-62) Total PCBs 49 mg/kg

E3D-W2-1 (36-38) Total PCBs 24.8 mg/kg

E3D-E1 (12-14) Total PCBs 43 mg/kg
E3D-E2 (36-38) Total PCBs 38 mg/kg

E4B-E1-3 (12-14) Total PCBs 43 mg/kg
E4B-E2-3 (60-62) Total PCBs 128 mg/kg

E3D-W1 (12-14) Total PCBs 8.8 mg/kg
E3D-W2 (36-38) Total PCBs 16.3 mg/kg

E4D-BOT (96-102) Total PCBs 11.4 J mg/kg

E3D-BOT (48-54) Total PCBs 85.8 mg/kg
E3D-BOT-1 (72-78) Total PCBs 27.1 mg/kg
E3D-BOT-2 (96-102) Total PCBs 1.17 mg/kg

E4D-W2 (60-62) Total PCBs 141 mg/kg

E4B-W1-1 (12-14) Total PCBs 14.5 J mg/kg
E4B-W2-1 (60-62) Total PCBs 78.1 mg/kg

E4B-E1-2 (12-14) Total PCBs 106 mg/kg
E4B-E2-2 (60-62) Total PCBs 55 mg/kg

E4B-W1 (12-14) Total PCBs 26.9 mg/kg
E4B-W2 (60-62) Total PCBs 54.9 J mg/kg

E4B-E1-1 (12-14) Total PCBs 36 mg/kg
E4B-E2-1 (60-62) Total PCBs 65 mg/kg

SB-43 (0-48) Total PCBs 6.1 mg/kg
SB-43 (48-96) Total PCBs 3.41 mg/kg

SB-53 (0-48) Total PCBs 6.5 mg/kg
SB-53 (48-120) Total PCBs 6.7 mg/kg

E4C-S1 (12-14) Total PCBs 19.6 mg/kg
E4C-S2 (42-44) Total PCBs 87 mg/kg

E4B-BOT (96-102) Total PCBs 83 mg/kg
E4B-BOT-1A (108-114) Total PCBs 67 mg/kg
E4B-BOT-1B (120-126) Total PCBs 51.1 mg/kg
E4B-BOT-1C (132-138) Total PCBs 6.5 mg/kg

E4B-E1 (12-14) Total PCBs 73.2 J mg/kg
E4B-E2 (60-62) Total PCBs 91 J mg/kg

E4C-N1 (12-14) Total PCBs 0.45 mg/kg
E4C-N2 (42-44) Total PCBs 52 mg/kg

E4C-W2-1 (42-44) Total PCBs 52 J mg/kg

E4C-S2-1 (42-44) Total PCBs 53.2 mg/kg

E4D-S1 (12-14) Total PCBs 20 J mg/kg
E4D-S2 (60-62) Total PCBs 121 J mg/kg

SB-46 (0-48) Total PCBs 3.2 mg/kg
SB-46 (48-120) Total PCBs 14.6 mg/kg

E4D-S2-1 (60-62) Total PCBs 73.7 mg/kg

SB-23-2 (0-48) Total PCBs 1.23 mg/kg
SB-23-2 (72-96) Total PCBs 14.7 mg/kg

E4C-W1 (12-14) Total PCBs 20.9 mg/kg
E4C-W2 (42-44) Total PCBs 121 mg/kg

E4C-BOT (60-66) Total PCBs 56 mg/kg
E4C-BOT-1 (78-84) Total PCBs 85 J mg/kg
E4C-BOT-2 (102-108) Total PCBs 14.2 mg/kg

LEGEND
- ORIGINAL EXCAVATION AREA
- EXTENDED EXCAVATION AREA
- PCB CONCENTRATIONS EXCEEDING 25 MG/KG
- OUTLINE OF EXCAVATION AREA

NOTE: SAMPLE DEPTHS DISPLAYED IN INCHES

STATE OF NEW YORK VINCENT J. FRISINA LICENSED PROFESSIONAL ENGINEER No. 075115 4/5/13

Gannett Fleming
100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

PROJECT #	47743
DRAWN BY:	DAB
DATE DRAWN:	FEB 2013
REVISED BY:	DAB
DATE REVISED:	OCT 2013
SCALE:	1" = 30'

PRE-EXCAVATION SOIL SAMPLE RESULTS - COLUMNS D, E, AND F

FRITO-LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE 4-8

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A B C D E F G H I J

1 2 3 4 5 6

CORRUGATED METAL FENCE

GATE

PROPOSED WAREHOUSE EXPANSION AREA

G2-N2-2 (36-38) Total PCBs 8.4 mg/kg

G2-N1 (12-14) Total PCBs 3.5 J mg/kg

G2-N2 (36-38) Total PCBs 27 J mg/kg

G2-N2-1 (36-38) Total PCBs 27 mg/kg

G2-BOT (48-54) Total PCBs 45 mg/kg

G2-BOT-1 (72-78) Total PCBs 12.5 J mg/kg

G2-E1 (12-14) Total PCBs 61 mg/kg

G2-E2 (36-38) Total PCBs 23.5 J mg/kg

G2-E1-1 (12-14) Total PCBs 5.1 J mg/kg

G2-W1-1 (12-14) Total PCBs 0.97 mg/kg

G2-W2-1 (36-38) Total PCBs 9.5 mg/kg

SB-20-1 (0-48) Total PCBs 14.4 J mg/kg

SB-20-1 (72-96) Total PCBs 2.56 mg/kg

G2-W1 (12-14) Total PCBs 58 mg/kg

G2-W2 (36-38) Total PCBs 89 mg/kg

SB-38 (0-48) Total PCBs 1.3 mg/kg

SB-38 (48-120) Total PCBs 0.49 mg/kg

G2-S1 (12-14) Total PCBs 31.1 mg/kg

G2-S2 (36-38) Total PCBs 41 mg/kg

G2-S1-1 (12-14) Total PCBs 58 J mg/kg

G2-S2-1 (36-38) Total PCBs 6.6 J mg/kg

SB-20-2 (0-48) Total PCBs 7.78 mg/kg

SB-20-2 (48-72) Total PCBs 17.5 mg/kg

H3C-W1-4 (12-14) Total PCBs 28 mg/kg

H3C-W2-4 (60-62) Total PCBs 129 J mg/kg

H3C-W1-5 (12-14) Total PCBs 115 mg/kg

H3C-W2-5 (60-62) Total PCBs 78 mg/kg

H3C-W1-3 (12-14) Total PCBs 430 mg/kg

H3C-W2-3 (60-62) Total PCBs 74 mg/kg

H3C-OE2-NSW-2 (96-102) Total PCBs 13.3 mg/kg

H3C-OE1-NSW-1 (96-102) Total PCBs 31 mg/kg

H3C-OE2-NSW-1 (96-102) Total PCBs 43.9 mg/kg

H3C-W1-2 (12-14) Total PCBs 970 J mg/kg

H3C-W2-2 (60-62) Total PCBs 41 mg/kg

H3C-OE2-NSW (96-102) Total PCBs 46 mg/kg

H3C-OE1-NSW (96-102) Total PCBs 77 mg/kg

H3C-W1-9 (12-14) Total PCBs 47 mg/kg

H3C-OE2-BOT (96-102) Total PCBs 18.6 mg/kg

H3C-W1 (12-14) Total PCBs 97 mg/kg

H3C-W2 (60-62) Total PCBs 212 mg/kg

H3C-W1-11 (12-14) Total PCBs 16.7 mg/kg

H3C-W1-10 (12-14) Total PCBs 88 mg/kg

SB-54 (0-48) Total PCBs 7.0 mg/kg

SB-54 (48-120) Total PCBs 7.9 mg/kg

H3C-W1-8 (12-14) Total PCBs 95.6 mg/kg

H3C-W1-1 (12-14) Total PCBs 263 mg/kg

H3C-W2-1 (60-62) Total PCBs 136 mg/kg

H3C-W1-7 (12-14) Total PCBs 173 mg/kg

H3C-W2-7 (60-62) Total PCBs 23.6 mg/kg

H3C-OE1-SSW-2 (96-102) Total PCBs 24 J mg/kg

H3C-OE1-SSW (96-102) Total PCBs 67 mg/kg

H4C-W2-4 (66-68) Total PCBs 29 mg/kg

F4-E1-1 (12-14) Total PCBs 16.3 mg/kg

H3C-OE1-SSW-1 (96-102) Total PCBs 28 mg/kg

H4C-W1 (12-14) Total PCBs 50 mg/kg

H4C-W2 (66-68) Total PCBs 69.2 J mg/kg

H3C-W1-6 (12-14) Total PCBs 105 mg/kg

H3C-W2-6 (60-62) Total PCBs 182 mg/kg

H3C-OE1-BOT (96-102) Total PCBs 19.6 mg/kg

10' CHAIN LINK FENCE

F4-E1 (12-14) Total PCBs 28 mg/kg

F4-E2 (72-74) Total PCBs 11.3 mg/kg

F4-N1 (12-14) Total PCBs <0.10 mg/kg

F4-N2 (72-74) Total PCBs 14.9 J mg/kg

H4C-W2-5 (66-68) Total PCBs 91.3 mg/kg

H4C-W1-1 (12-14) Total PCBs 25.7 mg/kg

H4C-W2-1 (66-68) Total PCBs 157 mg/kg

SB-11 (0-60) Total PCBs 4.6 mg/kg

SB-11 (60-84) Total PCBs 0.17 mg/kg

SB-11 (108-132) Total PCBs 0.31 mg/kg

F4-BOT (120-126) Total PCBs 10.3 mg/kg

F4-S1 (12-14) Total PCBs 75 mg/kg

F4-S2 (72-74) Total PCBs 40 mg/kg

H4C-W1-3 (12-14) Total PCBs 8.5 mg/kg

H4C-W2-3 (66-68) Total PCBs 43 mg/kg

H4C-W1-2 (12-14) Total PCBs 29.4 mg/kg

H4C-W2-2 (66-68) Total PCBs 197 mg/kg

F4-S1-1 (12-14) Total PCBs 67 mg/kg

F4-S2-1 (72-74) Total PCBs 35 mg/kg

SB-22-2 (0-48) Total PCBs 5.34 mg/kg

SB-22-2 (48-72) Total PCBs 3.52 mg/kg

EXISTING BULKHEAD

LEGEND

- ORIGINAL EXCAVATION AREA
- EXTENDED EXCAVATION AREA
- PCB CONCENTRATIONS EXCEEDING 25 MG/KG
- OUTLINE OF EXCAVATION AREA

NOTE: SAMPLE DEPTHS DISPLAYED IN INCHES

STATE OF NEW YORK VINCENT J. FRIGINA LICENSED PROFESSIONAL ENGINEER No. 059115 14/5/13

Gannett Fleming

100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

PROJECT # 47743
DRAWN BY: DAB
DATE DRAWN: FEB 2013
REVISED BY: DAB
DATE REVISED: OCT 2013
SCALE: 1" = 30'

PRE-EXCAVATION SOIL SAMPLE RESULTS - COLUMNS F, G, AND H

FRITO-LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE 4-9

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B C D E F G H I J

1 2 3 4 5

CORRUGATED METAL FENCE

PROPOSED WAREHOUSE EXPANSION AREA

H3B-N1-3 (12-14) Total PCBs 230 mg/kg
H3B-N2-3 (42-44) Total PCBs 144 mg/kg
SB-35 (0-48) Total PCBs 5.0 mg/kg
SB-35 (48-120) Total PCBs 0.92 mg/kg
H3B-N1 (12-14) Total PCBs 106 mg/kg
H3B-N2 (42-44) Total PCBs 209 mg/kg
H3B-N1-1 (12-14) Total PCBs 127 mg/kg
H3B-N2-1 (42-44) Total PCBs 161 mg/kg
H3B-N1-2 (12-14) Total PCBs 143 mg/kg
H3B-N2-2 (42-44) Total PCBs 131 mg/kg
H3D-N2-1 (60-62) Total PCBs 150 mg/kg
H3D-N2 (60-62) Total PCBs 36 mg/kg
H3B-W1 (12-14) Total PCBs 60 mg/kg
H3B-W2 (42-44) Total PCBs 59 mg/kg
H3B-BOT (96-102) Total PCBs 20 mg/kg
H3B-E1 (12-14) Total PCBs 179 mg/kg
H3B-E2 (42-44) Total PCBs 188 mg/kg
H3B-W1-1 (12-14) Total PCBs 97.8 mg/kg
H3B-W2-1 (42-44) Total PCBs 120.1 J mg/kg
H3B-E1-1 (12-14) Total PCBs 233 mg/kg
H3B-E2-1 (42-44) Total PCBs 257 mg/kg
H3B-E1-2 (12-14) Total PCBs 206 mg/kg
H3B-E2-2 (42-44) Total PCBs 48 mg/kg
H3B-E1-3 (12-14) Total PCBs 177 mg/kg
H3B-E2-3 (42-44) Total PCBs 257 mg/kg
H3B-W1-2 (12-14) Total PCBs 50 mg/kg
H3B-W2-2 (42-44) Total PCBs 9.8 mg/kg
SB-39 (0-48) Total PCBs 1.1 mg/kg
SB-39 (48-120) Total PCBs 0.73 mg/kg
SB-12 (0-60) Total PCBs 0.15 mg/kg
SB-12 (60-84) Total PCBs 0.72 mg/kg
H3B-W1-3 (12-14) Total PCBs 46 mg/kg
H3D-E1-5 (12-14) Total PCBs 154 mg/kg
H3C-N1-1 (12-14) Total PCBs 107 mg/kg
H3C-N2-1 (60-62) Total PCBs 452 J mg/kg
H3D-E1-1 (12-14) Total PCBs 100 J mg/kg
H3D-E1-7 (12-14) Total PCBs 247 mg/kg
H3C-N1 (12-14) Total PCBs 87 mg/kg
H3C-N2 (60-62) Total PCBs 82 mg/kg
H3D-BOT (96-102) Total PCBs ND
H3D-E1-8 (12-14) Total PCBs 243 mg/kg
H3D-E1-6 (12-14) Total PCBs 165 mg/kg
H3C-BOT (96-102) Total PCBs 3.4 mg/kg
H3C-W1 (12-14) Total PCBs 97 mg/kg
H3C-W2 (60-62) Total PCBs 212 mg/kg
10' CHAIN LINK FENCE
H3D-E1-2 (12-14) Total PCBs 310 mg/kg
H3D-E1-3 (12-14) Total PCBs 193 mg/kg
H3D-E1 (12-14) Total PCBs 73 mg/kg
H3D-E2 (60-62) Total PCBs 6.5 mg/kg
H3D-E1-4 (12-14) Total PCBs 1,070 mg/kg
H3C-S1 (12-14) Total PCBs 82 mg/kg
H3C-S2 (60-62) Total PCBs 121 mg/kg
H3C-S1-1 (12-14) Total PCBs 153 mg/kg
H3C-S2-1 (60-62) Total PCBs 159 mg/kg
H4C-BOT (108-114) Total PCBs <0.12 mg/kg
H3D-S1 (12-14) Total PCBs 34 J mg/kg
H3D-S2 (60-62) Total PCBs 72 mg/kg
SB-57 (0-48) Total PCBs 6.6 mg/kg
SB-57 (72-96) Total PCBs 3.01 mg/kg
H4C-N1-1 (12-14) Total PCBs 108 mg/kg
H4C-N2-1 (66-68) Total PCBs 123 mg/kg
H3D-S1-1 (12-14) Total PCBs 51 mg/kg
H3D-S2-1 (60-62) Total PCBs 210 mg/kg
J5-N2-2 (60-62) Total PCBs 42 J mg/kg
J5-N2-1 (60-62) Total PCBs 78 mg/kg
10' CHAIN LINK FENCE
H4C-N1 (12-14) Total PCBs 127 mg/kg
H4C-N2 (66-68) Total PCBs 99 mg/kg
H3D-S1-2 (12-14) Total PCBs 80 mg/kg
H3D-S2-2 (60-62) Total PCBs 46 J mg/kg
J5-N1 (12-14) Total PCBs 19 mg/kg
J5-N2 (60-62) Total PCBs 29 mg/kg
J5-BOT (96-102) Total PCBs 2.17 mg/kg
H4C-W1 (12-14) Total PCBs 50 mg/kg
H4C-W2 (66-68) Total PCBs 69.2 J mg/kg
H4C-S1 (12-14) Total PCBs 79 mg/kg
H4C-S2 (66-68) Total PCBs 86 mg/kg
H4C-S1-1 (12-14) Total PCBs 175 mg/kg
H4C-S2-1 (66-68) Total PCBs 26.6 mg/kg
SB-18-2 (0-48) Total PCBs 7.57 J mg/kg
SB-18-2 (72-96) Total PCBs 0.69 mg/kg
SB-44 (0-48) Total PCBs 4.3 mg/kg
SB-44 (48-120) Total PCBs 1.4 mg/kg
SB-18-1 (0-48) Total PCBs 10.19 J mg/kg
SB-18-1 (72-96) Total PCBs 4.0 mg/kg
J5-W1 (12-14) Total PCBs 6.4 mg/kg
J5-W2 (60-62) Total PCBs 14 mg/kg
J5-S1 (12-14) Total PCBs 7.9 mg/kg
J5-S2 (60-62) Total PCBs 14 J mg/kg
J5-E1 (12-14) Total PCBs 21 mg/kg
J5-E2 (60-62) Total PCBs 22 mg/kg

EXISTING BULKHEAD

LEGEND
- ORIGINAL EXCAVATION AREA
- EXTENDED EXCAVATION AREA
- PCB CONCENTRATIONS EXCEEDING 25 MG/KG
- OUTLINE OF EXCAVATION AREA

NOTE: SAMPLE DEPTHS DISPLAYED IN INCHES

STATE OF VIRGINIA VINCENT [illegible] LICENSED PROFESSIONAL ENGINEER No. 059118 11/5/13

Gannett Fleming
100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

PROJECT #	47743
DRAWN BY:	DAB
DATE DRAWN:	FEB 2013
REVISED BY:	DAB
DATE REVISED:	OCT 2013
SCALE:	1" = 30'

PRE-EXCAVATION SOIL SAMPLE RESULTS - COLUMNS G, H, AND I

FRITO-LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE
4-10

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C D E F G H I J

RRUGATED METAL FENCE

PROPOSED WAREHOUSE EXPANSION AREA

1

2

3

4

5

10' CHAIN LINK FENCE

J1-N1 (24-48) Total PCBs 121 mg/kg
J1-N1 (48-72) Total PCBs 35 mg/kg
J1-N1 (72-96) Total PCBs 48.6 mg/kg

J1-N3 (24-48) Total PCBs 72 mg/kg
J1-N3 (48-72) Total PCBs 18 J mg/kg

J1-N5 (24-48) Total PCBs 136 mg/kg

J1-N7 (24-48) Total PCBs 12.3 J mg/kg
J1-N7 (48-72) Total PCBs 16.6 mg/kg
J1-N7 (72-96) Total PCBs 46.4 mg/kg

J1-C1 (24-48) Total PCBs 60 mg/kg
J1-C1 (48-72) Total PCBs 37.3 mg/kg
J1-C1 (72-96) Total PCBs 32.7 J mg/kg

SB-58 (0-24) Total PCBs 303 mg/kg
SB-58 (24-48) Total PCBs 240 mg/kg

J1-S1 (24-48) Total PCBs 163 mg/kg
J1-S1 (48-72) Total PCBs 161 mg/kg
J1-S1 (72-96) Total PCBs 129 mg/kg

J1-S3 (24-48) Total PCBs 224 mg/kg
J1-S3 (48-72) Total PCBs 1.1 mg/kg

J1-S5 (24-48) Total PCBs 30.8 mg/kg

J3-N11 (60-62) Total PCBs 44 mg/kg
J3-N11 (96-102) Total PCBs 5.1 mg/kg

J3-N7 (60-62) Total PCBs 64.7 J mg/kg
J3-N7 (96-102) Total PCBs 2.23 mg/kg

J3-N9 (60-62) Total PCBs 14.5 mg/kg

ESB-5 (108-114) Total PCBs 32 mg/kg
ESB-5-1 (132-138) Total PCBs 51.5 mg/kg
ESB-5-2 (156-162) Total PCBs 1.68 mg/kg

J3-N1 (12-14) Total PCBs 16.4 J mg/kg
J3-N1 (60-62) Total PCBs 55.3 mg/kg

H3D-E1-7 (12-14) Total PCBs 247 mg/kg

ESB-6 (108-114) Total PCBs 44 mg/kg
ESB-6-1 (132-138) Total PCBs 42.4 mg/kg
ESB-6-2 (156-162) Total PCBs 5.7 mg/kg

J3-S1 (12-14) Total PCBs 235 mg/kg
J3-S1 (60-62) Total PCBs 132 mg/kg

J3-S3 (12-14) Total PCBs 276 mg/kg
J3-S3 (60-62) Total PCBs 246 mg/kg
J3-S3 (96-102) Total PCBs 78 mg/kg

J3-S5 (12-14) Total PCBs 162 mg/kg
J3-S5 (60-62) Total PCBs 20.1 mg/kg
J3-S5 (96-102) Total PCBs 29.7 mg/kg

J4-W5W (60-66) Total PCBs 147 mg/kg

ESB-7 (108-114) Total PCBs 46 mg/kg
ESB-7-1 (132-138) Total PCBs 60 mg/kg
ESB-7-2 (156-162) Total PCBs 47.1 mg/kg
ESB-7-3 (162-168) Total PCBs 20 mg/kg

J3-S7 (12-14) Total PCBs 190 mg/kg
J3-S7 (60-62) Total PCBs 7.1 mg/kg

J3-S9 (12-14) Total PCBs 146 mg/kg
J3-S9 (60-62) Total PCBs 29 mg/kg
J3-S9 (96-102) Total PCBs 105 mg/kg

ESB-8 (108-114) Total PCBs 41 mg/kg
ESB-8-1 (132-138) Total PCBs 73 mg/kg
ESB-8-2 (156-162) Total PCBs 11.6 mg/kg

J3-S11 (12-14) Total PCBs 198 mg/kg
J3-S11 (60-62) Total PCBs 51 mg/kg
J3-S11 (96-102) Total PCBs 2.76 mg/kg

J3-S13 (12-14) Total PCBs 236 mg/kg
J3-S13 (60-62) Total PCBs 37.9 mg/kg
J3-S13 (96-102) Total PCBs 1.62 mg/kg

J3-S14 (12-14) Total PCBs 27 mg/kg
J3-S14 (60-62) Total PCBs 49 mg/kg
J3-S14 (96-102) Total PCBs 3.01 mg/kg

J3-S12 (12-14) Total PCBs 25 mg/kg
J3-S12 (60-62) Total PCBs 48 mg/kg
J3-S12 (62-72) Total PCBs 44.4 mg/kg

J3-S10 (12-14) Total PCBs 21.4 mg/kg
J3-S10 (60-62) Total PCBs 12.4 mg/kg

ESB-1 (108-114) Total PCBs 30 mg/kg
ESB-1-1 (132-138) Total PCBs 7.3 mg/kg

J1-N4 (0-24) Total PCBs 235 mg/kg
J1-N4 (24-48) Total PCBs 162 mg/kg
J1-N4 (48-72) Total PCBs 250 mg/kg
J1-N4 (72-96) Total PCBs 10.7 mg/kg

J1-N2 (0-24) Total PCBs 272 mg/kg
J1-N2 (24-48) Total PCBs 240 mg/kg
J1-N2 (48-72) Total PCBs 241 mg/kg

ESB-2 (108-114) Total PCBs 54.4 mg/kg
ESB-2-1 (132-138) Total PCBs 24 mg/kg

SB-58-1 (0-24) Total PCBs 58 mg/kg
SB-58-1 (24-48) Total PCBs 232 mg/kg

J1-S2 (0-24) Total PCBs 390 mg/kg
J1-S2 (24-48) Total PCBs 82 mg/kg
J1-S2 (48-72) Total PCBs 297 J mg/kg

J1-S4 (0-24) Total PCBs 285 mg/kg
J1-S4 (24-48) Total PCBs 215 mg/kg
J1-S4 (48-72) Total PCBs 43 mg/kg

ESB-3 (108-114) Total PCBs 12.7 mg/kg

J3-N12 (12-14) Total PCBs 320 mg/kg
J3-N12 (60-62) Total PCBs 1.17 mg/kg

J1-S6 (0-24) Total PCBs 211 mg/kg
J1-S6 (24-48) Total PCBs 1.13 mg/kg
J1-S6 (48-72) Total PCBs 12.2 mg/kg

ESB-4 (108-114) Total PCBs 16.4 mg/kg

J3-N10 (12-14) Total PCBs 262 mg/kg
J3-N10 (60-62) Total PCBs 1.4 mg/kg

J3-N2 (12-14) Total PCBs 53 mg/kg
J3-N2 (60-62) Total PCBs 53.9 mg/kg

J3-N8 (12-14) Total PCBs 86 mg/kg
J3-N8 (60-62) Total PCBs 23 mg/kg
J3-N8 (96-102) Total PCBs 40 mg/kg

H3D-E1-8 (12-14) Total PCBs 243 mg/kg

J3-S2 (12-14) Total PCBs 160 mg/kg

J3-S4 (12-14) Total PCBs 193 mg/kg
J3-S4 (60-62) Total PCBs 2.47 J mg/kg
J3-S4 (96-102) Total PCBs 181 mg/kg

J3-S6 (12-14) Total PCBs 180 mg/kg
J3-S6 (60-62) Total PCBs 3.9 mg/kg
J3-S6 (96-102) Total PCBs 93 mg/kg

J3-S8 (12-14) Total PCBs 100 mg/kg
J3-S8 (60-62) Total PCBs 5.2 mg/kg

ORIGINAL EXCAVATION AREA

EXTENDED EXCAVATION AREA

PCB CONCENTRATIONS EXCEEDING 25 MG/KG

OUTLINE OF EXCAVATION AREA

APPROXIMATE 900 SQUARE FOOT SAMPLING AREA (DER-10)

NOTE: SAMPLE DEPTHS DISPLAYED IN INCHES

EXISTING BULKHEAD

STATE OF NEW YORK
VINCENT J. FRIGINA
No. 059115
LICENSED PROFESSIONAL ENGINEER
11/5/13

Gannett Fleming

100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

PROJECT # 47743
DRAWN BY: DAB
DATE DRAWN: JUN 2012
REVISED BY: DAB
DATE REVISED: OCT 2013
SCALE: 1" = 30'

PRE-EXCAVATION SOIL SAMPLE RESULTS - EASTERN BULKHEAD

FRITO LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE
4-11

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A B C D E F G H I J

2 3 4 5 6

SSB-3 (120-126) Total PCBs 16.5 mg/kg

F5-W5 (0-24) Total PCBs 45 mg/kg
F5-W5 (24-48) Total PCBs 73.9 J mg/kg
F5-W5 (48-72) Total PCBs 55.8 mg/kg
F5-W5 (72-86) Total PCBs 2.61 J mg/kg

F5-W7 (0-24) Total PCBs 38 J mg/kg
F5-W7 (24-48) Total PCBs 98 J mg/kg
F5-W7 (48-72) Total PCBs 20.3 mg/kg

F5-W3 (0-24) Total PCBs 30 mg/kg
F5-W3 (24-48) Total PCBs 42 mg/kg
F5-W3 (48-72) Total PCBs 16.3 mg/kg

F5-W9 (0-24) Total PCBs 28 mg/kg
F5-W9 (24-48) Total PCBs 22 mg/kg
F5-W9 (48-72) Total PCBs 52.3 mg/kg

F5-W11 (0-24) Total PCBs 35 mg/kg
F5-W11 (24-48) Total PCBs 135 J mg/kg
F5-W11 (48-72) Total PCBs 70.8 J mg/kg

F5-W1 (0-24) Total PCBs 37 mg/kg
F5-W1 (24-48) Total PCBs 108 mg/kg
F5-W1 (48-72) Total PCBs 61 mg/kg
F5-W1 (72-86) Total PCBs 3.3 J mg/kg

F5-W13 (0-24) Total PCBs 66.8 mg/kg
F5-W13 (24-48) Total PCBs 84 mg/kg
F5-W13 (48-72) Total PCBs 90.5 mg/kg

SB-59 (0-24) Total PCBs 20 mg/kg
SB-59 (24-48) Total PCBs 66 mg/kg
SB-59 (48-72) Total PCBs 29 mg/kg

SSB-4 (120-126) Total PCBs 30 mg/kg
SSB-4-1 (132-138) Total PCBs 3.5 mg/kg

F5-NSW (60-66) Total PCBs 23.3 mg/kg

SSB-5 (120-126) Total PCBs 31 mg/kg
SSB-5-1 (132-138) Total PCBs 54.9 mg/kg
SSB-5-2 (144-150) Total PCBs <0.12 mg/kg

H5-W9 (0-24) Total PCBs 56 mg/kg
H5-W9 (24-48) Total PCBs 67 mg/kg
H5-W9 (48-60) Total PCBs 90 J mg/kg

G5-NSW (60-66) Total PCBs 59 mg/kg

H5-W11 (0-24) Total PCBs 68 mg/kg
H5-W11 (24-48) Total PCBs 33 mg/kg
H5-W11 (48-72) Total PCBs 59.6 mg/kg

F5-E5 (0-24) Total PCBs 26.5 mg/kg
F5-E5 (24-48) Total PCBs 59.5 mg/kg
F5-E5 (48-72) Total PCBs 44 mg/kg
F5-E5 (72-86) Total PCBs 21.7 mg/kg

F5-E3 (0-24) Total PCBs 45 mg/kg
F5-E3 (24-48) Total PCBs 67.6 mg/kg
F5-E3 (48-72) Total PCBs 88.4 J mg/kg

H5-W7 (0-24) Total PCBs 29.2 mg/kg
H5-W7 (24-48) Total PCBs 58.5 J mg/kg
H5-W7 (48-72) Total PCBs 50.1 J mg/kg

H5-W5 (0-24) Total PCBs 63.1 mg/kg
H5-W5 (24-48) Total PCBs 92 mg/kg
H5-W5 (48-72) Total PCBs 47.1 mg/kg

H5-W3 (0-24) Total PCBs 79.5 J mg/kg
H5-W3 (24-48) Total PCBs 68.4 mg/kg
H5-W3 (48-72) Total PCBs 35.4 mg/kg
H5-W3 (72-86) Total PCBs 8.9 mg/kg

H5-W1 (0-24) Total PCBs 67 mg/kg
H5-W1 (24-48) Total PCBs 221 mg/kg
H5-W1 (48-72) Total PCBs 55 J mg/kg

SB-60-1 (0-24) Total PCBs 185 J mg/kg
SB-60-1 (24-48) Total PCBs 161 J mg/kg

SB-60 (0-24) Total PCBs 141 mg/kg
SB-60 (24-48) Total PCBs 174 mg/kg

H5-NSW (60-66) Total PCBs 106 mg/kg

H5-E1 (0-24) Total PCBs 650 mg/kg
H5-E1 (24-48) Total PCBs 38 mg/kg
H5-E1 (48-72) Total PCBs 129 mg/kg

I5-NSW (60-66) Total PCBs 29 mg/kg

H5-E7 (0-24) Total PCBs 22.7 mg/kg
H5-E7 (24-48) Total PCBs 71 mg/kg
H5-E7 (48-72) Total PCBs 17.2 mg/kg

H5-E5 (0-24) Total PCBs 60 mg/kg
H5-E5 (24-48) Total PCBs 68.3 mg/kg
H5-E5 (48-72) Total PCBs 5.3 mg/kg

SSB-7 (120-126) Total PCBs 18.4 mg/kg

H5-E3 (0-24) Total PCBs 258 mg/kg
H5-E3 (24-48) Total PCBs 42 mg/kg
H5-E3 (48-72) Total PCBs 117 mg/kg

H5-E9 (0-24) Total PCBs 64 mg/kg
H5-E9 (24-48) Total PCBs 13 mg/kg
H5-E9 (48-72) Total PCBs <0.12 mg/kg

H5-E11 (0-24) Total PCBs 71.5 J mg/kg
H5-E11 (24-48) Total PCBs 150 mg/kg
H5-E11 (48-60) Total PCBs 54 mg/kg

SSB-8 (84-90) Total PCBs 30 mg/kg
SSB-8-1 (108-114) Total PCBs 2.4 mg/kg

H5-E13 (0-24) Total PCBs 420 mg/kg
H5-E13 (24-48) Total PCBs 83 mg/kg
H5-E13 (48-72) Total PCBs 14.4 mg/kg

H5-E14 (0-24) Total PCBs 48 mg/kg
H5-E14 (24-48) Total PCBs 57.7 J mg/kg
H5-E14 (48-72) Total PCBs 73 mg/kg
H5-E14 (72-86) Total PCBs 16.8 J mg/kg

C5-S1 (12-14) Total PCBs 53.3 mg/kg
C5-S2 (60-62) Total PCBs 57.5 mg/kg
C5-S1/S2-3 (98-102) Total PCBs <0.12 mg/kg

C5-SW1-1 (12-14) Total PCBs 8.7 mg/kg
C5-SW1-2 (54-56) Total PCBs 30 mg/kg
C5-SW1-3 (98-102) Total PCBs <0.12 mg/kg

C5-S1-1 (12-14) Total PCBs 47.4 mg/kg
C5-S2-1 (60-62) Total PCBs 27.8 mg/kg

D5-S1 (12-14) Total PCBs 27 J mg/kg
D5-S2 (54-56) Total PCBs 165 mg/kg
D5-S1/S2-3 (98-102) Total PCBs <0.11 mg/kg

D5-S1-1 (12-14) Total PCBs 116 J mg/kg
D5-S2-1 (54-56) Total PCBs 94.4 J mg/kg

SSB-2 (102-108) Total PCBs 45.1 mg/kg
SSB-2-1 (126-132) Total PCBs 5.3 mg/kg

B5-S1 (12-14) Total PCBs 4.8 mg/kg
B5-S2 (84-86) Total PCBs 6.6 mg/kg

C5-SW3-1 (12-14) Total PCBs 1.7 mg/kg
C5-SW3-2 (54-56) Total PCBs 25.4 mg/kg
C5-SW3-3 (96-102) Total PCBs 30.3 mg/kg

C5-SW2-1 (12-14) Total PCBs 3.8 mg/kg
C5-SW2-2 (54-56) Total PCBs 29 J mg/kg
C5-SW2-3 (98-102) Total PCBs 0.94 mg/kg

SSB-1 (120-126) Total PCBs 19.5 mg/kg

C5-S1-2 (12-14) Total PCBs 39.1 J mg/kg
C5-S2-2 (60-62) Total PCBs 40.4 mg/kg

C5-S1-3 (12-14) Total PCBs 23 mg/kg
C5-S2-3 (60-62) Total PCBs 47.2 mg/kg

D5-S1-2 (12-14) Total PCBs 39 mg/kg
D5-S2-2 (54-56) Total PCBs 90 J mg/kg

D5-S1-3 (12-14) Total PCBs 74 J mg/kg
D5-S2-3 (54-56) Total PCBs 56.6 mg/kg

F5-W14 (0-24) Total PCBs 12 mg/kg
F5-W14 (24-48) Total PCBs 37 mg/kg
F5-W14 (48-72) Total PCBs 26.2 J mg/kg

D5-SE1-1 (12-14) Total PCBs 60.8 mg/kg
D5-SE1-2 (54-56) Total PCBs 80 mg/kg
D5-SE1-3 (98-102) Total PCBs <0.12 mg/kg

D5-SE3-1 (12-14) Total PCBs 82.2 J mg/kg
D5-SE3-2 (54-56) Total PCBs 67.3 J mg/kg
D5-SE3-3 (98-102) Total PCBs 2.01 mg/kg

D5-SE2-1 (12-14) Total PCBs 53.8 J mg/kg
D5-SE2-2 (54-56) Total PCBs 95 mg/kg
D5-SE2-3 (98-102) Total PCBs 6.2 mg/kg

F5-W12 (0-24) Total PCBs 25.8 mg/kg
F5-W12 (24-48) Total PCBs 19.6 J mg/kg
F5-W12 (48-72) Total PCBs 100.5 mg/kg

F5-W4 (0-24) Total PCBs 46 mg/kg
F5-W4 (24-48) Total PCBs 93 mg/kg
F5-W4 (48-72) Total PCBs 40.1 mg/kg
F5-W4 (72-96) Total PCBs 221 mg/kg

F5-W6 (0-24) Total PCBs 41 mg/kg
F5-W6 (24-48) Total PCBs 78 mg/kg
F5-W6 (48-72) Total PCBs 43 mg/kg

F5-W2 (0-24) Total PCBs 83 mg/kg
F5-W2 (24-48) Total PCBs 129 mg/kg
F5-W2 (48-72) Total PCBs 43.2 J mg/kg
F5-W2 (72-86) Total PCBs <0.11 mg/kg

F5-W8 (0-24) Total PCBs 40 mg/kg
F5-W8 (24-48) Total PCBs 73.9 mg/kg
F5-W8 (48-72) Total PCBs 50.2 mg/kg

F5-W10 (0-24) Total PCBs 31 mg/kg
F5-W10 (24-48) Total PCBs 39 mg/kg
F5-W10 (48-72) Total PCBs 47 mg/kg

SB-59-1 (24-48) Total PCBs 52 mg/kg

F5-E4 (0-24) Total PCBs 46 mg/kg
F5-E4 (24-48) Total PCBs 50.2 mg/kg
F5-E4 (48-72) Total PCBs 57 mg/kg

H5-W12 (0-24) Total PCBs 40 mg/kg
H5-W12 (24-48) Total PCBs 135 mg/kg
H5-W12 (48-72) Total PCBs 61.7 mg/kg
H5-W12 (72-84) Total PCBs 48 mg/kg

F5-E6 (0-24) Total PCBs 39 mg/kg
F5-E6 (24-48) Total PCBs 46.8 mg/kg
F5-E6 (48-72) Total PCBs 37 mg/kg
F5-E6 (72-84) Total PCBs 43.3 J mg/kg

H5-W6 (0-24) Total PCBs 108 mg/kg
H5-W6 (24-48) Total PCBs 49 mg/kg
H5-W6 (48-72) Total PCBs 74.7 mg/kg

H5-W8 (0-24) Total PCBs 48.4 mg/kg
H5-W8 (24-48) Total PCBs 58.5 mg/kg
H5-W8 (48-72) Total PCBs 47.5 mg/kg
H5-W8 (72-84) Total PCBs 29.8 mg/kg

H5-W10 (0-24) Total PCBs 37 mg/kg
H5-W10 (24-48) Total PCBs 51.2 mg/kg
H5-W10 (48-72) Total PCBs 40.2 J mg/kg
H5-W10 (72-84) Total PCBs 34 mg/kg

H5-W4 (0-24) Total PCBs 117 mg/kg
H5-W4 (24-48) Total PCBs 31 mg/kg
H5-W4 (48-72) Total PCBs 61.9 mg/kg
H5-W4 (72-96) Total PCBs 38.7 mg/kg

H5-E6 (0-24) Total PCBs 55 mg/kg

H5-E4 (0-24) Total PCBs 54 mg/kg
H5-E4 (24-48) Total PCBs 21.8 mg/kg
H5-E4 (48-72) Total PCBs 21 J mg/kg

H5-E2 (0-24) Total PCBs 380 mg/kg
H5-E2 (24-48) Total PCBs 58.1 mg/kg
H5-E2 (48-72) Total PCBs 45.2 J mg/kg

SSB-6 (120-126) Total PCBs 21.2 mg/kg

H5-W2 (0-24) Total PCBs 204 mg/kg
H5-W2 (24-48) Total PCBs 139 J mg/kg
H5-W2 (48-72) Total PCBs 155 J mg/kg

H5-E12 (0-24) Total PCBs 128 mg/kg
H5-E12 (24-48) Total PCBs 48.1 J mg/kg
H5-E12 (48-72) Total PCBs 46 J mg/kg
H5-E12 (72-84) Total PCBs <0.12 mg/kg

H5-E10 (0-24) Total PCBs 61 mg/kg
H5-E10 (24-48) Total PCBs 75 mg/kg
H5-E10 (48-72) Total PCBs 29 mg/kg
H5-E10 (72-84) Total PCBs 0.36 mg/kg

H5-E8 (0-24) Total PCBs 103 mg/kg
H5-E8 (24-48) Total PCBs 36 mg/kg
H5-E8 (48-72) Total PCBs 13 J mg/kg

10' CHAIN LINK FENCE

EXISTING BULKHEAD

LEGEND

- ORIGINAL EXCAVATION AREA
- EXTENDED EXCAVATION AREA
- PCB CONCENTRATIONS EXCEEDING 25 MG/KG
- OUTLINE OF EXCAVATION AREA
- APPROXIMATE 900 SQUARE FOOT SAMPLING AREA (DER-10)

NOTE: SAMPLE DEPTHS DISPLAYED IN INCHES

STATE OF NEW YORK
VINCENT J. FRISINA
No. 059115
LICENSED PROFESSIONAL ENGINEER
11/5/13

Gannett Fleming

100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

PROJECT #	47743
DRAWN BY:	DAB
DATE DRAWN:	JUN 2012
REVISED BY:	DAB
DATE REVISED:	OCT 2013
SCALE:	1" = 30'

PRE-EXCAVATION SOIL SAMPLE RESULTS - SOUTHERN BULKHEAD

FRITO LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE 4-12

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EXISTING BULKHEAD

10' CHAIN LINK FENCE

A B C D E F G H I J

CORRUGATED METAL FENCE

GATE

1 2 3 4 5 6

SB-29 (48-120) Total PCBs 0.24 mg/kg
SB-1 (84-108) Total PCBs 0.44 J mg/kg
SB-50 SB-50 (48-120) Total PCBs 0.59 J mg/kg
SB-30 SB-30 (48-120) Total PCBs 0.52 mg/kg
E1A-BOT (144-180) Total PCBs <0.13 mg/kg
E1D-BOT (99-102) Total PCBs 6.8 mg/kg
E1A-OE1-BOT (144-180) Total PCBs <0.12 mg/kg
SB-52 (48-120) Total PCBs 0.55 mg/kg
SB-10 (108-132) Total PCBs 5.9 mg/kg
SB-31 SB-31 (48-120) Total PCBs 0.32 mg/kg
SB-13 (108-132) Total PCBs 22 mg/kg
E SB-1-1 (132-138) Total PCBs 7.3 mg/kg
E SB-2-1 (132-138) Total PCBs 24 mg/kg
SB-32 SB-32 (48-120) Total PCBs 1.7 mg/kg
SB-2 (108-132) Total PCBs ND
SB-4 SB-4 (108-132) Total PCBs <2.1 mg/kg
SB-51 (48-88) Total PCBs 0.21 mg/kg
D2-BOT (80-88) Total PCBs 1.06 mg/kg
SB-33 (48-120) Total PCBs 1.69 mg/kg
E3A-OE1-BOT (84-88) Total PCBs 2.64 J mg/kg
SB-34 SB-34 (48-120) Total PCBs 5.16 mg/kg
G2-BOT-1 (72-76) Total PCBs 12.5 J mg/kg
SB-35 (48-120) Total PCBs 0.92 mg/kg
SB-18 SB-18 (48-72) Total PCBs 6.5 mg/kg
E SB-3 (108-114) Total PCBs 12.7 mg/kg
BSB-4 (108-114) Total PCBs 16.4 mg/kg
SB-28 SB-28 (48-96) Total PCBs 0.21 mg/kg
SB-37 SB-37 (48-120) Total PCBs 0.85 mg/kg
SB-25 SB-25 (0-48) Total PCBs 2.5 mg/kg
D3-BOT (84-90) Total PCBs <0.11 mg/kg
E3A-BOT-1 (99-102) Total PCBs <0.14 mg/kg
E3A-OE2-BOT (84-88) Total PCBs 1.76 J mg/kg
E3D-BOT-2 (96-107) Total PCBs 1.17 mg/kg
H3C-OE2-BOT (96-102) Total PCBs 18.6 mg/kg
SB-38 (48-120) Total PCBs 0.49 mg/kg
H3C-OE1-BOT (99-102) Total PCBs 19.6 mg/kg
H3D-BOT (99-102) Total PCBs 20 mg/kg
H3D-BOT (96-102) Total PCBs ND
H3C-BOT (99-102) Total PCBs 3.4 mg/kg
SB-39 SB-39 (48-120) Total PCBs 0.73 mg/kg
E SB-5-2 (156-162) Total PCBs 1.68 mg/kg
BSB-6-2 (108-162) Total PCBs 5.7 mg/kg
SB-40 SB-40 (48-120) Total PCBs 0.65 mg/kg
SB-55 SB-55 (48-120) Total PCBs 0.58 J mg/kg
SB-41 SB-41 (48-132) Total PCBs 0.11 mg/kg
SB-42 SB-42 (48-120) Total PCBs 0.40 mg/kg
E4D-BOT-1C (132-138) Total PCBs 6.5 mg/kg
E4D-BOT (99-102) Total PCBs 11.4 J mg/kg
E4C-BOT-3 (80-88) Total PCBs 14.2 mg/kg
SB-22-3 (72-96) Total PCBs 5.16 mg/kg
F4-BOT (120-126) Total PCBs 10.3 mg/kg
SB-22-2 (48-72) Total PCBs 3.52 mg/kg
SB-54 SB-54 (48-120) Total PCBs 7.9 mg/kg
SB-11 (108-132) Total PCBs 0.31 mg/kg
SB-47 (48-120) Total PCBs 6.75 mg/kg
SB-44 SB-44 (48-120) Total PCBs 1.4 mg/kg
H4C-BOT (108-114) Total PCBs <0.12 mg/kg
SB-16-2 (72-96) Total PCBs 0.69 mg/kg
SB-56 SB-56 (72-96) Total PCBs 1.87 J mg/kg
SB-48 (48-72) Total PCBs 3.8 mg/kg
SB-16-3 (48-72) Total PCBs 17.6 mg/kg
ESB-7-3 (162-168) Total PCBs 20 mg/kg
ESB-6-2 (156-162) Total PCBs 11.6 mg/kg
J5-BOT (96-102) Total PCBs 2.17 mg/kg
SB-26 SB-26 (48-72) Total PCBs 1.3 mg/kg
SB-49 SB-49 (48-120) Total PCBs 0.032 J mg/kg
SB-3 SB-3 (132-138) Total PCBs ND
B5-BOT (132-138) Total PCBs <0.13 mg/kg
C5-BOT (99-102) Total PCBs <0.12 mg/kg
D5-BOT (84-90) Total PCBs <0.11 mg/kg
SB-46 (48-120) Total PCBs 14.6 mg/kg
SSB-1 (120-126) Total PCBs 19.5 mg/kg
SSB-2-1 (126-132) Total PCBs 5.3 mg/kg
SSB-3 (120-126) Total PCBs 16.5 mg/kg
SSB-4-1 (132-138) Total PCBs 3.5 mg/kg
SSB-5-2 (144-150) Total PCBs <0.12 mg/kg
SSB-6 (120-126) Total PCBs 21.2 mg/kg
SSB-7 (120-126) Total PCBs 18.4 mg/kg
SSB-8-1 (108-114) Total PCBs 2.4 mg/kg

10' CHAIN LINK FENCE

EXISTING BULKHEAD

MORGAN AVENUE

STREET

GRID KEY

A	B
C	D

LEGEND

- PCB SOIL EXCAVATION AREAS
- ARSENIC SOIL EXCAVATION AREAS
- LEAD SOIL EXCAVATION AREAS
- APPROXIMATE 900 SQUARE FOOT SAMPLING AREA (DER-10)

STATE OF NEW YORK
VINCENT J. FRISINA
No. 059115
LICENSED PROFESSIONAL ENGINEER
11/5/13

Gannett Fleming
100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

PROJECT #	47743
DRAWN BY:	DAB
DATE DRAWN:	OCT 2011
REVISED BY:	DAB
DATE REVISED:	OCT 2013
SCALE:	1" = 40'

PCB END POINT SAMPLE RESULTS

FRITO-LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE
4-13

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EXISTING BULKHEAD

10' CHAIN LINK FENCE

A B C D E F G H I J

CORRUGATED METAL FENCE

GATE

1 2 3 4 5 6

STREET

MORGAN AVENUE

A1-BOT (144-150)
Arsenic 27 mg/kg

A1-BOT

B1-BOT (120-126)
Arsenic 16 mg/kg

B1-BOT

E1D-BOT (96-102)
Lead 130 J mg/kg

E1D-BOT

SB-58-1 (24-48)
Mercury 6 mg/kg

SB-58

SB-58-1

A2-BOT (48-54)
Arsenic 23 mg/kg
Lead 6,300 mg/kg

A2-BOT

SB-58 (24-48)
Arsenic 3.4 J mg/kg
Lead 2,800 mg/kg
Mercury 20 mg/kg

A3-BOT (48-54)
Arsenic <2.7 mg/kg

A3-BOT

D3-BOT (84-90)
Lead 69 J mg/kg

D3-BOT

E4B-BOT (96-102)
Lead 5,300 J mg/kg

E4B-BOT

E4C-BOT-1 (78-84)
Lead 9,000 mg/kg

E4C-BOT

E4D-BOT

F4-BOT (120-126)
Lead 1,200 mg/kg

F4-BOT

H4D-BOT

H4D-BOT (60-66)
Lead 510 mg/kg

10' CHAIN LINK FENCE

B5-BOT (132-138)
Mercury 0.33 mg/kg

B5-BOT

D5-BOT

D5-BOT (84-90)
Lead 76 J mg/kg
Mercury 0.12 J mg/kg

E4D-BOT (96-102)
Lead 2,200 mg/kg

10' CHAIN LINK FENCE

SB-59

SB-60

J5-BOT

SB-59 (24-48)
Arsenic 4.8 mg/kg
Lead 2,400 mg/kg
Mercury 4.2 mg/kg

SB-60 (24-48)
Arsenic 3.6 mg/kg
Lead 4,400 mg/kg
Mercury 10 mg/kg

J5-BOT (96-102)
Lead 1,460 mg/kg

GRID KEY

A	B
C	D

LEGEND

- ARSENIC SOIL EXCAVATION AREAS
- LEAD SOIL EXCAVATION AREAS
- APPROXIMATE 900 SQUARE FOOT SAMPLING AREA (DER-10)

STATE OF NEW YORK
VINCENT J. FRISINA
No. 059116
LICENSED PROFESSIONAL ENGINEER
11/5/13

Gannett Fleming
100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

PROJECT #	47743
DRAWN BY:	DAB
DATE DRAWN:	OCT 2011
REVISED BY:	DAB
DATE REVISED:	OCT 2013
SCALE:	1" = 40'

METALS END POINT SAMPLE RESULTS

FRITO-LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE
4-14

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EXISTING BULKHEAD

A B C D E F G H I J

CORRUGATED METAL FENCE

GATE

PROPOSED WAREHOUSE EXPANSION AREA

1 2 3 4 5 6

10 FEET | 9 FEET | 12.5 FEET | 11.5 FEET

8.5 FEET | 11.5 FEET

10 FEET | 6.5 FEET | 9.5 FEET

5.5 FEET | 8.5 FEET | 9.5 FEET

8 FEET | 8.5 FEET | 13.5 FEET

7.5 FEET | 8.5 FEET | 8.5 FEET | 13.5 FEET

11.5 FEET | 10' CHAIN LINK FENCE | 14 FEET

7 FEET | 8 FEET | 8.5 FEET | 12.5 FEET | 9.5 FEET | 5.5 FEET | 13.5 FEET

11.5 FEET | 8.5 FEET | 7.5 FEET | 10' CHAIN LINK FENCE | 11.5 FEET | 12.5 FEET | 10.5 FEET | 10.5 FEET | 9.5 FEET | 5.5 FEET

10.5 FEET | 11 FEET | 10.5 FEET

EXISTING BULKHEAD

MORGAN AVENUE

ET

ENGLISH KILLS

LEGEND

OUTLINE OF EXCAVATION AREA

STATE OF NEW YORK
VINCENT J. FRISINA
No. 059118
LICENSED PROFESSIONAL ENGINEER
11/5/13

Gannett Fleming
100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

PROJECT #	47743
DRAWN BY:	DAB
DATE DRAWN:	FEB 2013
REVISED BY:	DAB
DATE REVISED:	OCT 2013
SCALE:	1" = 40'

SOIL EXCAVATION DEPTHS

FRITO-LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE
4-15

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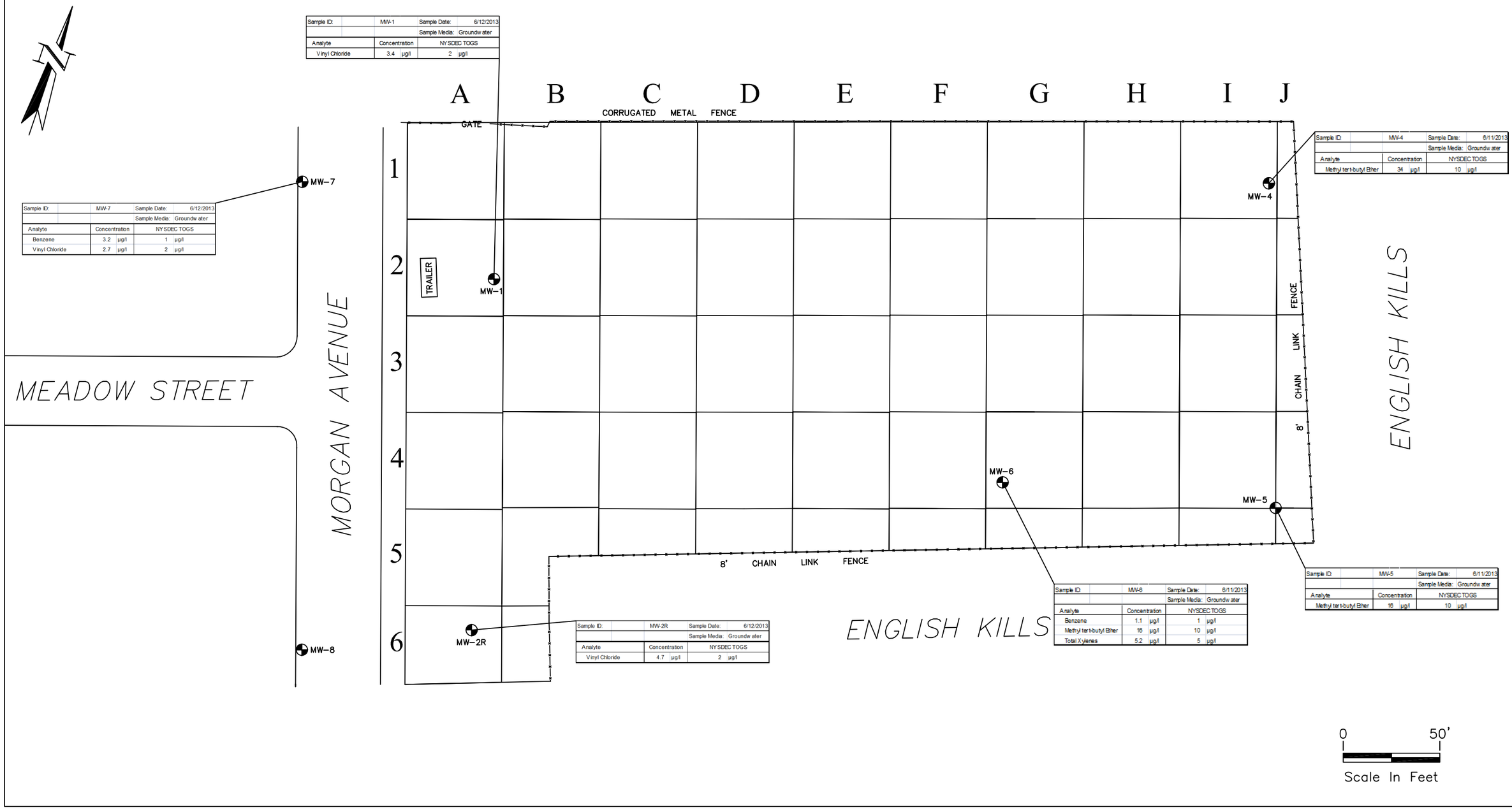

LEGEND

● MONITORING WELL

NOTE: NYSDEC TOGS IS THE NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION TECHNICAL AND OPERATIONAL GUIDANCE SERIES

BASELINE POST–REMEDIATION GROUNDWATER QUALITY RESULTS– VOLATILE ORGANIC COMPOUNDS – JUNE 2013

FRITO LAY, INC.

202–218 MORGAN AVENUE, BROOKLYN, NEW YORK

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Sample ID:	MW-1		Sample Date:	6/12/2013
			Sample Media:	Groundw ater
Analyte	Concentration		NYSDEC TOGS	
Aluminum	220	µg/l	100	µg/l
Iron	4,100	µg/l	300	µg/l
Magnesium	36,000	µg/l	35,000	µg/l
Manganese	3,000	µg/l	300	µg/l
Sodium	220,000 J	µg/l	20,000	µg/l

Sample ID:	MW-7		Sample Date:	6/12/2013
			Sample Media:	Groundw ater
Analyte	Concentration		NYSDEC TOGS	
Iron	6,400	µg/l	300	µg/l
Manganese	830	µg/l	300	µg/l
Nickel	100	µg/l	100	µg/l
Sodium	330,000 J	µg/l	20,000	µg/l

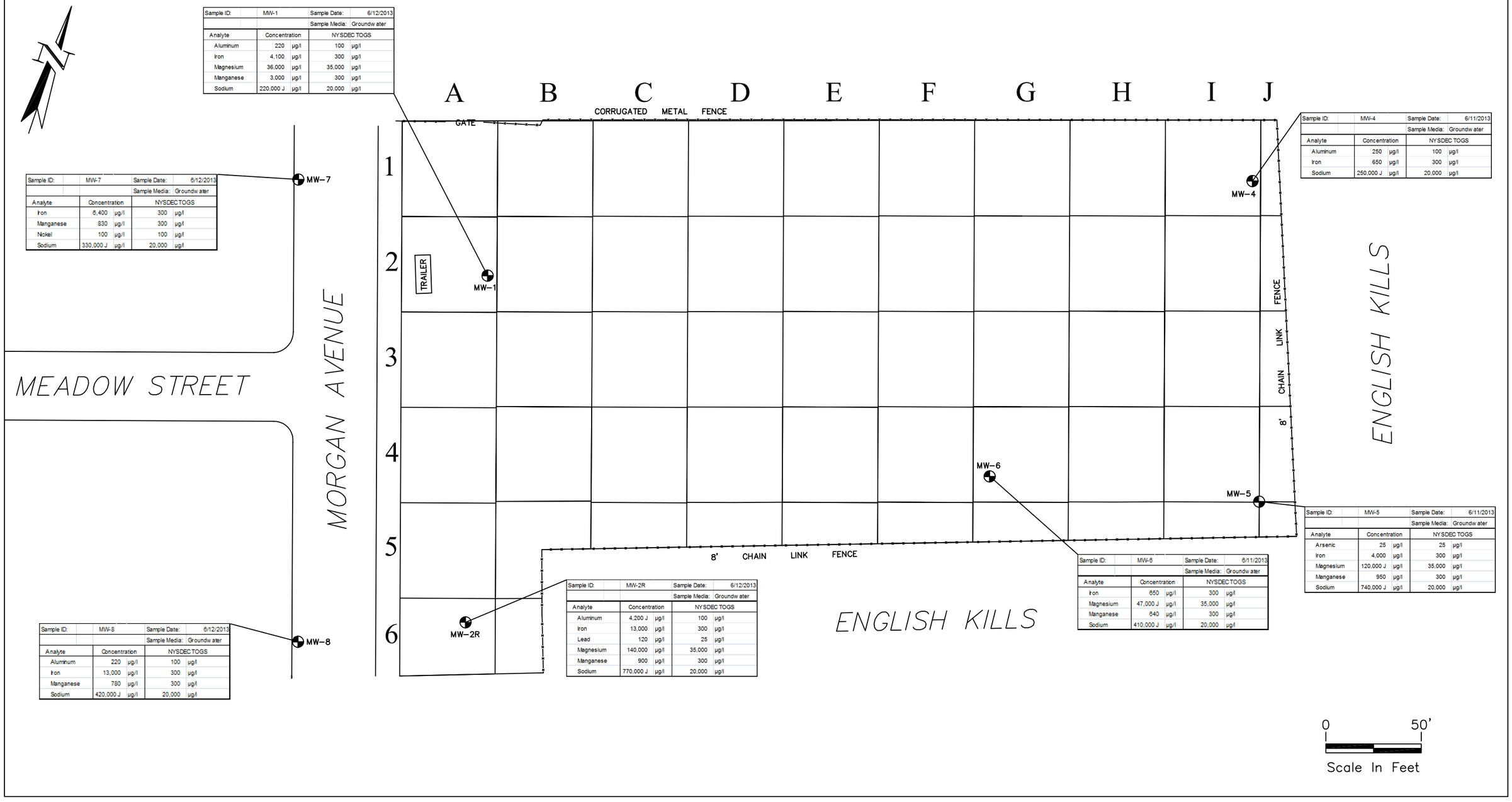
Sample ID:	MW-4		Sample Date:	6/11/2013
			Sample Media:	Groundw ater
Analyte	Concentration		NYSDEC TOGS	
Aluminum	250	µg/l	100	µg/l
Iron	650	µg/l	300	µg/l
Sodium	250,000 J	µg/l	20,000	µg/l

Sample ID:	MW-8		Sample Date:	6/12/2013
			Sample Media:	Groundw ater
Analyte	Concentration		NYSDEC TOGS	
Aluminum	220	µg/l	100	µg/l
Iron	13,000	µg/l	300	µg/l
Manganese	780	µg/l	300	µg/l
Sodium	420,000 J	µg/l	20,000	µg/l

Sample ID:	MW-2R		Sample Date:	6/12/2013
			Sample Media:	Groundw ater
Analyte	Concentration		NYSDEC TOGS	
Aluminum	4,200 J	µg/l	100	µg/l
Iron	13,000	µg/l	300	µg/l
Lead	120	µg/l	25	µg/l
Magnesium	140,000	µg/l	35,000	µg/l
Manganese	900	µg/l	300	µg/l
Sodium	770,000 J	µg/l	20,000	µg/l

Sample ID:	MW-6		Sample Date:	6/11/2013
			Sample Media:	Groundw ater
Analyte	Concentration		NYSDEC TOGS	
Iron	650	µg/l	300	µg/l
Magnesium	47,000 J	µg/l	35,000	µg/l
Manganese	640	µg/l	300	µg/l
Sodium	410,000 J	µg/l	20,000	µg/l

Sample ID:	MW-5		Sample Date:	6/11/2013
			Sample Media:	Groundw ater
Analyte	Concentration		NYSDEC TOGS	
Arsenic	25	µg/l	25	µg/l
Iron	4,000	µg/l	300	µg/l
Magnesium	120,000 J	µg/l	35,000	µg/l
Manganese	950	µg/l	300	µg/l
Sodium	740,000 J	µg/l	20,000	µg/l



LEGEND

MONITORING WELL

NOTE: NYSDEC TOGS IS THE NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION TECHNICAL AND OPERATIONAL GUIDANCE SERIES

BASELINE POST–REMEDIATION GROUNDWATER QUALITY RESULTS– TOTAL METALS – JUNE 2013

FRITO LAY, INC.

202–218 MORGAN AVENUE, BROOKLYN, NEW YORK

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Sample ID:	MW-1		Sample Date:	6/12/2013
			Sample Media:	Groundw ater
Analyte	Concentration		NYSDEC TOGS	
Iron	760	µg/l	300	µg/l
Manganese	2,500	µg/l	300	µg/l
Sodium	190,000 J	µg/l	20,000	µg/l

Sample ID:	MW-4		Sample Date:	6/11/2013
			Sample Media:	Groundw ater
Analyte	Concentration		NYSDEC TOGS	
Sodium	250,000 J	µg/l	20,000	µg/l

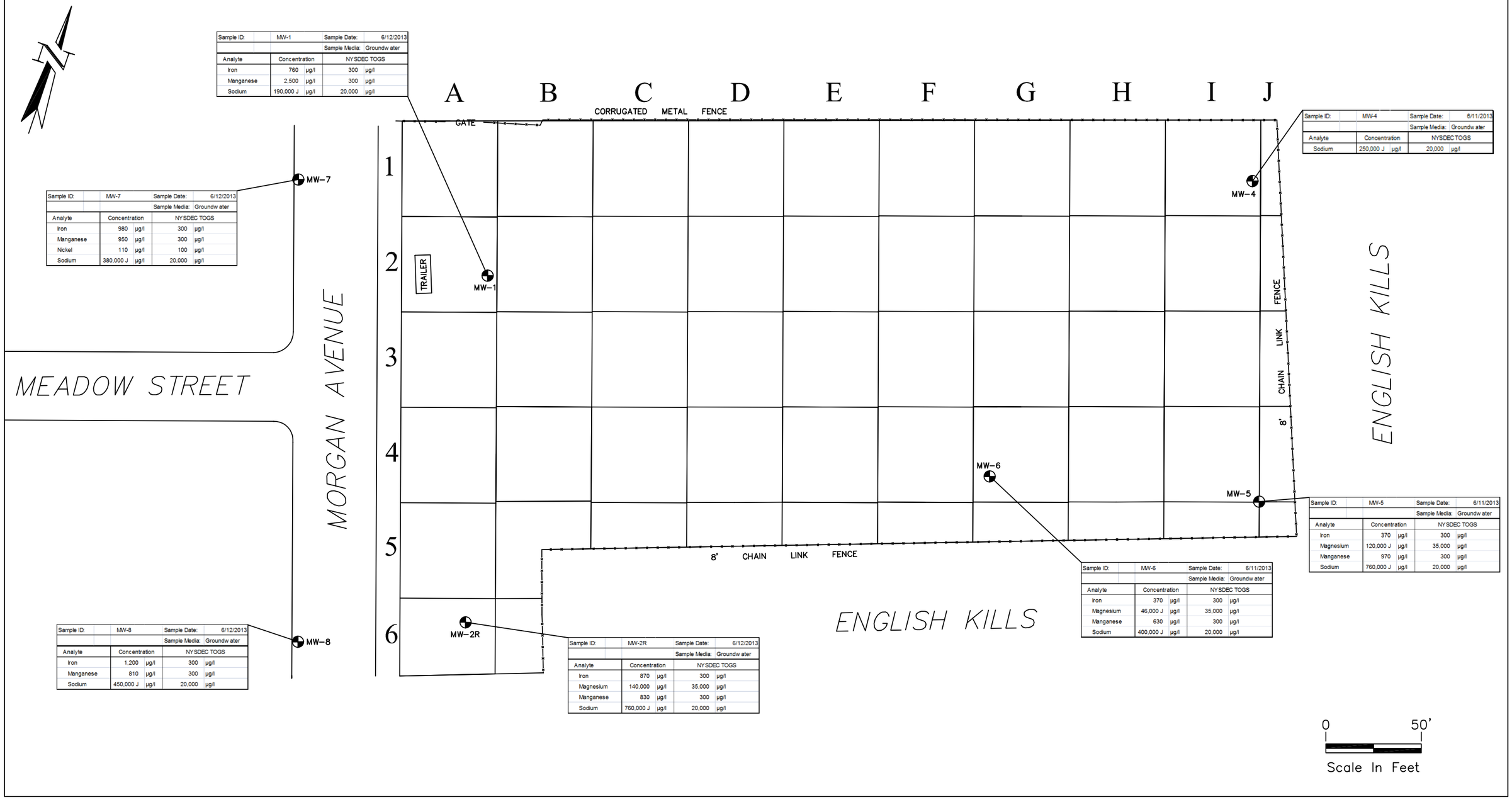
Sample ID:	MW-7		Sample Date:	6/12/2013
			Sample Media:	Groundw ater
Analyte	Concentration		NYSDEC TOGS	
Iron	980	µg/l	300	µg/l
Manganese	950	µg/l	300	µg/l
Nickel	110	µg/l	100	µg/l
Sodium	380,000 J	µg/l	20,000	µg/l

Sample ID:	MW-5		Sample Date:	6/11/2013
			Sample Media:	Groundw ater
Analyte	Concentration		NYSDEC TOGS	
Iron	370	µg/l	300	µg/l
Magnesium	120,000 J	µg/l	35,000	µg/l
Manganese	970	µg/l	300	µg/l
Sodium	760,000 J	µg/l	20,000	µg/l

Sample ID:	MW-6		Sample Date:	6/11/2013
			Sample Media:	Groundw ater
Analyte	Concentration		NYSDEC TOGS	
Iron	370	µg/l	300	µg/l
Magnesium	46,000 J	µg/l	35,000	µg/l
Manganese	630	µg/l	300	µg/l
Sodium	400,000 J	µg/l	20,000	µg/l

Sample ID:	MW-8		Sample Date:	6/12/2013
			Sample Media:	Groundw ater
Analyte	Concentration		NYSDEC TOGS	
Iron	1,200	µg/l	300	µg/l
Manganese	810	µg/l	300	µg/l
Sodium	450,000 J	µg/l	20,000	µg/l

Sample ID:	MW-2R		Sample Date:	6/12/2013
			Sample Media:	Groundw ater
Analyte	Concentration		NYSDEC TOGS	
Iron	870	µg/l	300	µg/l
Magnesium	140,000	µg/l	35,000	µg/l
Manganese	830	µg/l	300	µg/l
Sodium	760,000 J	µg/l	20,000	µg/l



LEGEND

MONITORING WELL

NOTE: NYSDEC TOGS IS THE NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION TECHNICAL AND OPERATIONAL GUIDANCE SERIES

BASELINE POST–REMEDIATION GROUNDWATER QUALITY RESULTS– DISSOLVED METALS – JUNE 2013

FRITO LAY, INC.

202–218 MORGAN AVENUE, BROOKLYN, NEW YORK

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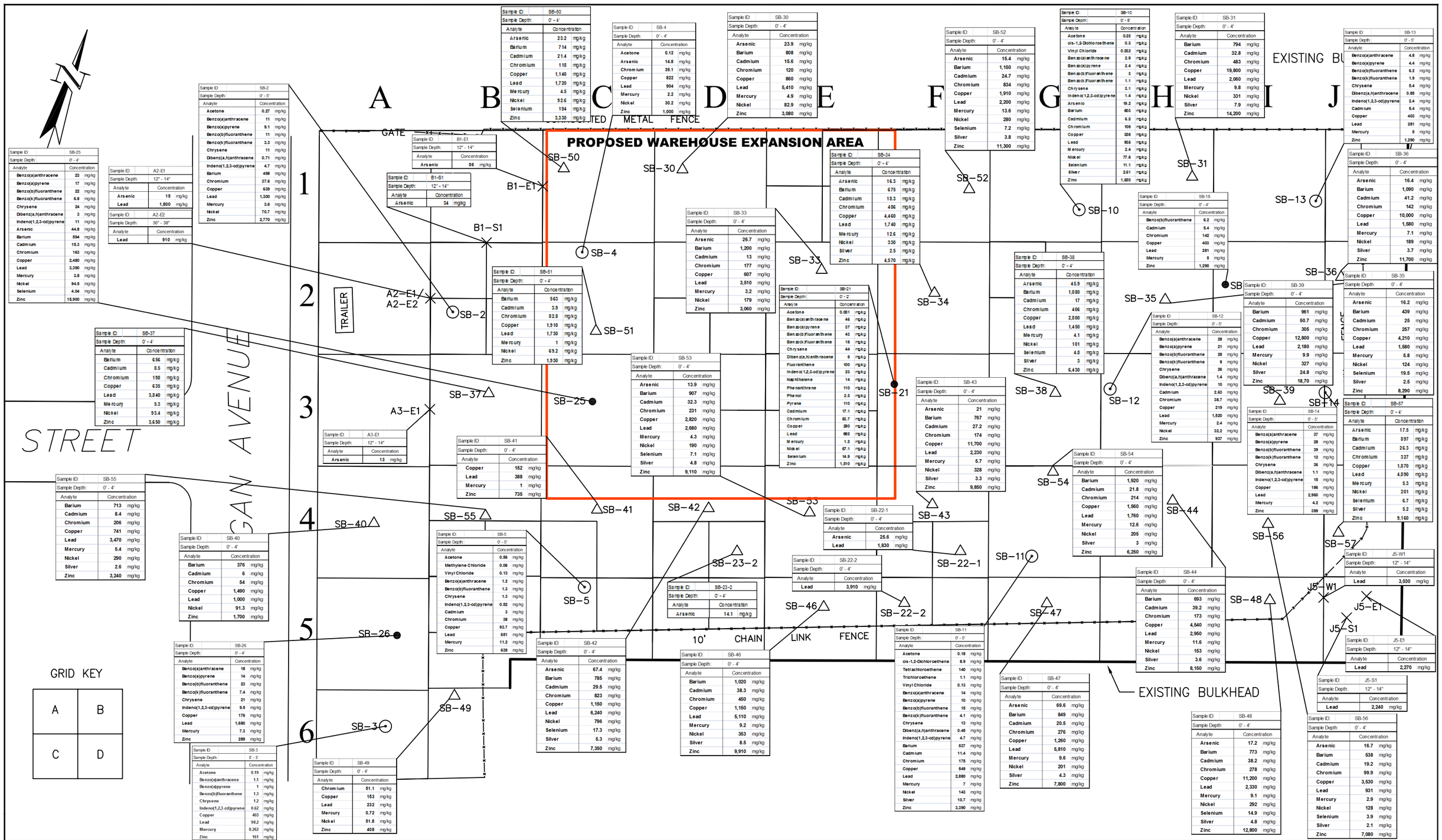

Sample ID:	SB-50	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Arsenic	23.2	mg/kg
Barium	714	mg/kg
Cadmium	21.4	mg/kg
Chromium	118	mg/kg
Copper	1,140	mg/kg
Lead	1,720	mg/kg
Mercury	4.5	mg/kg
Nickel	92.6	mg/kg
Selenium	194	mg/kg
Zinc	3,330	mg/kg

Sample ID:	SB-4	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Acetone	0.12	mg/kg
Arsenic	14.8	mg/kg
Chromium	39.1	mg/kg
Copper	822	mg/kg
Lead	904	mg/kg
Mercury	2.2	mg/kg
Nickel	30.2	mg/kg
Zinc	1,000	mg/kg

Sample ID:	SB-30	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Arsenic	23.9	mg/kg
Barium	808	mg/kg
Cadmium	15.6	mg/kg
Chromium	120	mg/kg
Copper	860	mg/kg
Lead	5,410	mg/kg
Mercury	4.9	mg/kg
Nickel	82.9	mg/kg
Zinc	3,080	mg/kg

Sample ID:	SB-52	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Arsenic	15.4	mg/kg
Barium	1,150	mg/kg
Cadmium	24.7	mg/kg
Chromium	834	mg/kg
Copper	1,910	mg/kg
Lead	2,200	mg/kg
Mercury	13.6	mg/kg
Nickel	280	mg/kg
Selenium	7.2	mg/kg
Silver	3.8	mg/kg
Zinc	11,300	mg/kg

Sample ID:	SB-10	
Sample Depth:	0' - 5'	
Analyte	Concentration	
Acetone	0.23	mg/kg
cis-1,3-Dichloroethene	0.3	mg/kg
Vinyl Chloride	0.002	mg/kg
Benzo(a)anthracene	2.9	mg/kg
Benzo(a)pyrene	2.4	mg/kg
Benzo(b)fluoranthene	3	mg/kg
Benzo(k)fluoranthene	1.1	mg/kg
Chrysene	3.1	mg/kg
Indeno(1,2,3-cd)pyrene	1.4	mg/kg
Arsenic	19.2	mg/kg
Barium	660	mg/kg
Cadmium	6.8	mg/kg
Chromium	108	mg/kg
Copper	388	mg/kg
Lead	905	mg/kg
Mercury	2.4	mg/kg
Nickel	77.6	mg/kg
Selenium	11.1	mg/kg
Silver	2.61	mg/kg
Zinc	1,680	mg/kg

Sample ID:	SB-31	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Barium	794	mg/kg
Cadmium	32.8	mg/kg
Chromium	483	mg/kg
Copper	19,800	mg/kg
Lead	2,060	mg/kg
Mercury	9.8	mg/kg
Nickel	331	mg/kg
Silver	7.9	mg/kg
Zinc	14,200	mg/kg

Sample ID:	SB-13	
Sample Depth:	0' - 5'	
Analyte	Concentration	
Benzo(a)anthracene	4.8	mg/kg
Benzo(a)pyrene	4.4	mg/kg
Benzo(b)fluoranthene	6.2	mg/kg
Benzo(k)fluoranthene	1.9	mg/kg
Chrysene	5.4	mg/kg
Dibenz(a,h)anthracene	0.85	mg/kg
Indeno(1,2,3-cd)pyrene	2.4	mg/kg
Cadmium	5.4	mg/kg
Copper	403	mg/kg
Lead	281	mg/kg
Mercury	5	mg/kg
Zinc	1,290	mg/kg

Sample ID:	SB-36	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Arsenic	16.4	mg/kg
Barium	1,090	mg/kg
Cadmium	41.2	mg/kg
Chromium	142	mg/kg
Copper	10,000	mg/kg
Lead	1,580	mg/kg
Mercury	7.1	mg/kg
Nickel	189	mg/kg
Silver	3.7	mg/kg
Zinc	11,700	mg/kg

Sample ID:	SB-25	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Benzo(a)anthracene	23	mg/kg
Benzo(a)pyrene	17	mg/kg
Benzo(b)fluoranthene	22	mg/kg
Benzo(k)fluoranthene	6.8	mg/kg
Chrysene	24	mg/kg
Dibenz(a,h)anthracene	3	mg/kg
Indeno(1,2,3-cd)pyrene	11	mg/kg
Arsenic	44.8	mg/kg
Barium	594	mg/kg
Cadmium	15.3	mg/kg
Chromium	163	mg/kg
Copper	2,480	mg/kg
Lead	3,390	mg/kg
Mercury	3.8	mg/kg
Nickel	94.5	mg/kg
Selenium	4.04	mg/kg
Zinc	15,900	mg/kg

Sample ID:	SB-2	
Sample Depth:	0' - 5'	
Analyte	Concentration	
Acetone	0.27	mg/kg
Benzo(a)anthracene	11	mg/kg
Benzo(a)pyrene	9.1	mg/kg
Benzo(b)fluoranthene	11	mg/kg
Benzo(k)fluoranthene	3.3	mg/kg
Chrysene	11	mg/kg
Dibenz(a,h)anthracene	0.71	mg/kg
Indeno(1,2,3-cd)pyrene	4.7	mg/kg
Barium	498	mg/kg
Chromium	37.6	mg/kg
Copper	639	mg/kg
Lead	1,300	mg/kg
Mercury	3.6	mg/kg
Nickel	70.7	mg/kg
Zinc	2,770	mg/kg

Sample ID:	B1-E1	
Sample Depth:	12" - 14"	
Analyte	Concentration	
Arsenic	56	mg/kg

Sample ID:	B1-S1	
Sample Depth:	12" - 14"	
Analyte	Concentration	
Arsenic	34	mg/kg

Sample ID:	A2-E1	
Sample Depth:	12" - 14"	
Analyte	Concentration	
Arsenic	15	mg/kg
Lead	1,800	mg/kg

Sample ID:	A2-E2	
Sample Depth:	36" - 38"	
Analyte	Concentration	
Lead	910	mg/kg

Sample ID:	SB-51	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Barium	563	mg/kg
Cadmium	3.9	mg/kg
Chromium	82.8	mg/kg
Copper	1,510	mg/kg
Lead	1,750	mg/kg
Mercury	1	mg/kg
Nickel	69.2	mg/kg
Zinc	1,530	mg/kg

Sample ID:	SB-33	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Arsenic	26.7	mg/kg
Barium	1,200	mg/kg
Cadmium	13	mg/kg
Chromium	177	mg/kg
Copper	607	mg/kg
Lead	3,510	mg/kg
Mercury	3.2	mg/kg
Nickel	179	mg/kg
Zinc	3,060	mg/kg

Sample ID:	SB-34	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Arsenic	16.3	mg/kg
Barium	675	mg/kg
Cadmium	18.3	mg/kg
Chromium	486	mg/kg
Copper	4,460	mg/kg
Lead	1,740	mg/kg
Mercury	12.6	mg/kg
Nickel	330	mg/kg
Silver	2.5	mg/kg
Zinc	4,570	mg/kg

Sample ID:	SB-18	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Benzo(b)fluoranthene	6.2	mg/kg
Cadmium	5.4	mg/kg
Chromium	142	mg/kg
Copper	403	mg/kg
Lead	281	mg/kg
Mercury	5	mg/kg
Zinc	1,290	mg/kg

Sample ID:	SB-38	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Arsenic	45.5	mg/kg
Barium	1,030	mg/kg
Cadmium	17	mg/kg
Chromium	406	mg/kg
Copper	2,800	mg/kg
Lead	1,450	mg/kg
Mercury	4.1	mg/kg
Nickel	101	mg/kg
Selenium	4.8	mg/kg
Silver	3	mg/kg
Zinc	6,430	mg/kg

Sample ID:	SB-39	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Barium	961	mg/kg
Cadmium	50.7	mg/kg
Chromium	305	mg/kg
Copper	12,800	mg/kg
Lead	2,180	mg/kg
Mercury	9.9	mg/kg
Nickel	327	mg/kg
Silver	24.8	mg/kg
Zinc	18,700	mg/kg

Sample ID:	SB-35	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Arsenic	16.2	mg/kg
Barium	439	mg/kg
Cadmium	25	mg/kg
Chromium	257	mg/kg
Copper	4,210	mg/kg
Lead	1,580	mg/kg
Mercury	5.8	mg/kg
Nickel	124	mg/kg
Selenium	19.5	mg/kg
Silver	2.5	mg/kg
Zinc	8,290	mg/kg

Sample ID:	SB-12	
Sample Depth:	0' - 5'	
Analyte	Concentration	
Benzo(a)anthracene	28	mg/kg
Benzo(a)pyrene	21	mg/kg
Benzo(b)fluoranthene	28	mg/kg
Benzo(k)fluoranthene	8	mg/kg
Chrysene	26	mg/kg
Dibenz(a,h)anthracene	1.4	mg/kg
Indeno(1,2,3-cd)pyrene	10	mg/kg
Cadmium	2.53	mg/kg
Chromium	28.7	mg/kg
Copper	219	mg/kg
Lead	1,520	mg/kg
Mercury	2.4	mg/kg
Nickel	32.2	mg/kg
Zinc	937	mg/kg

Sample ID:	SB-57	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Arsenic	17.5	mg/kg
Barium	897	mg/kg
Cadmium	26.3	mg/kg
Chromium	327	mg/kg
Copper	1,870	mg/kg
Lead	4,890	mg/kg
Mercury	5.3	mg/kg
Nickel	201	mg/kg
Selenium	6.7	mg/kg
Silver	5.2	mg/kg
Zinc	9,160	mg/kg

Sample ID:	SB-37	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Barium	656	mg/kg
Cadmium	8.5	mg/kg
Chromium	188	mg/kg
Copper	635	mg/kg
Lead	3,840	mg/kg
Mercury	5.3	mg/kg
Nickel	93.4	mg/kg
Zinc	3,650	mg/kg

Sample ID:	A3-E1	
Sample Depth:	12" - 14"	
Analyte	Concentration	
Arsenic	13	mg/kg

Sample ID:	SB-41	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Copper	152	mg/kg
Lead	388	mg/kg
Mercury	1	mg/kg
Zinc	735	mg/kg

Sample ID:	SB-53	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Arsenic	13.9	mg/kg
Barium	907	mg/kg
Cadmium	32.3	mg/kg
Chromium	231	mg/kg
Copper	2,820	mg/kg
Lead	2,680	mg/kg
Mercury	4.3	mg/kg
Nickel	190	mg/kg
Selenium	7.1	mg/kg
Silver	4.8	mg/kg
Zinc	9,110	mg/kg

Sample ID:	SB-21	
Sample Depth:	0' - 2'	
Analyte	Concentration	
Acetone	0.081	mg/kg
Benzo(a)anthracene	46	mg/kg
Benzo(a)pyrene	37	mg/kg
Benzo(b)fluoranthene	43	mg/kg
Benzo(k)fluoranthene	16	mg/kg
Chrysene	44	mg/kg
Dibenz(a,h)anthracene	8	mg/kg
Fluoranthene	100	mg/kg
Indeno(1,2,3-cd)pyrene	23	mg/kg
Naphthalene	14	mg/kg
Phenanthrene	110	mg/kg
Phenol	2.8	mg/kg
Pyrene	110	mg/kg
Cadmium	17.1	mg/kg
Chromium	68.7	mg/kg
Copper	290	mg/kg
Lead	868	mg/kg
Mercury	1.8	mg/kg
Nickel	67.1	mg/kg
Selenium	14.9	mg/kg
Zinc	1,810	mg/kg

Sample ID:	SB-43	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Arsenic	21	mg/kg
Barium	767	mg/kg
Cadmium	27.2	mg/kg
Chromium	174	mg/kg
Copper	11,700	mg/kg
Lead	2,230	mg/kg
Mercury	5.7	mg/kg
Nickel	328	mg/kg
Silver	3.3	mg/kg
Zinc	9,850	mg/kg

Sample ID:	SB-54	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Barium	1,920	mg/kg
Cadmium	21.8	mg/kg
Chromium	214	mg/kg
Copper	1,560	mg/kg
Lead	1,760	mg/kg
Mercury	12.6	mg/kg
Nickel	205	mg/kg
Silver	3	mg/kg
Zinc	6,250	mg/kg

Sample ID:	SB-44	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Barium	693	mg/kg
Cadmium	39.2	mg/kg
Chromium	173	mg/kg
Copper	4,540	mg/kg
Lead	2,950	mg/kg
Mercury	11.6	mg/kg
Nickel	153	mg/kg
Silver	3.6	mg/kg
Zinc	8,150	mg/kg

Sample ID:	SB-55	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Barium	713	mg/kg
Cadmium	8.4	mg/kg
Chromium	206	mg/kg
Copper	741	mg/kg
Lead	3,470	mg/kg
Mercury	5.4	mg/kg
Nickel	290	mg/kg
Silver	2.6	mg/kg
Zinc	3,240	mg/kg

Sample ID:	SB-40	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Barium	376	mg/kg
Cadmium	6	mg/kg
Chromium	54	mg/kg
Copper	1,490	mg/kg
Lead	1,000	mg/kg
Nickel	91.3	mg/kg
Zinc	1,700	mg/kg

Sample ID:	SB-5	
Sample Depth:	0' - 5'	
Analyte	Concentration	
Acetone	0.56	mg/kg
Methylene Chloride	0.06	mg/kg
Vinyl Chloride	0.13	mg/kg
Benzo(a)anthracene	1.2	mg/kg
Benzo(b)fluoranthene	1.3	mg/kg
Chrysene	1.3	mg/kg
Indeno(1,2,3-cd)pyrene	0.52	mg/kg
Cadmium	3	mg/kg
Chromium	38	mg/kg
Copper	93.7	mg/kg
Lead	651	mg/kg
Mercury	11.2	mg/kg
Zinc	639	mg/kg

Sample ID:	SB-23-2	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Arsenic	14.1	mg/kg

Sample ID:	SB-22-1	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Arsenic	25.6	mg/kg
Lead	1,830	mg/kg

Sample ID:	SB-22-2	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Lead	3,910	mg/kg

Sample ID:	SB-42	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Arsenic	67.4	mg/kg
Barium	785	mg/kg
Cadmium	29.5	mg/kg
Chromium	823	mg/kg
Copper	1,150	mg/kg
Lead	6,240	mg/kg
Nickel	796	mg/kg
Selenium	17.3	mg/kg
Silver	5.3	mg/kg
Zinc	7,350	mg/kg

Sample ID:	SB-46	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Barium	1,020	mg/kg
Cadmium	38.3	mg/kg
Chromium	450	mg/kg
Copper	1,150	mg/kg
Lead	5,110	mg/kg
Mercury	9.2	mg/kg
Nickel	353	mg/kg
Silver	8.5	mg/kg
Zinc	9,910	mg/kg

Sample ID:	SB-11	
Sample Depth:	0' - 5'	
Analyte	Concentration	
Acetone	0.18	mg/kg
cis-1,2-Dichloroethene	8.9	mg/kg
Tetrachloroethene	140	mg/kg
Trichloroethene	1.1	mg/kg
Vinyl Chloride	0.13	mg/kg
Benzo(a)anthracene	14	mg/kg
Benzo(a)pyrene	10	mg/kg
Benzo(b)fluoranthene	15	mg/kg
Benzo(k)fluoranthene	4.1	mg/kg
Chrysene	13	mg/kg
Dibenz(a,h)anthracene	0.45	mg/kg
Indeno(1,2,3-cd)pyrene	4.7	mg/kg
Barium	537	mg/kg
Cadmium	11.4	mg/kg
Chromium	175	mg/kg
Copper	549	mg/kg
Lead	2,880	mg/kg
Mercury	7	mg/kg
Nickel	143	mg/kg
Silver	10.7	mg/kg
Zinc	3,390	mg/kg

Sample ID:	SB-47	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Arsenic	69.6	mg/kg
Barium	849	mg/kg
Cadmium	20.5	mg/kg
Chromium	276	mg/kg
Copper	1,260	mg/kg
Lead	5,810	mg/kg
Mercury	9.6	mg/kg
Nickel	201	mg/kg
Silver	4.3	mg/kg
Zinc	7,800	mg/kg

Sample ID:	SB-48	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Arsenic	17.2	mg/kg
Barium	773	mg/kg
Cadmium	38.2	mg/kg
Chromium	278	mg/kg
Copper	11,200	mg/kg
Lead	2,330	mg/kg
Mercury	9.1	mg/kg
Nickel	292	mg/kg
Selenium	14.9	mg/kg
Silver	4.8	mg/kg
Zinc	12,800	mg/kg

Sample ID:	SB-56	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Arsenic	16.7	mg/kg
Barium	538	mg/kg
Cadmium	19.2	mg/kg
Chromium	99.9	mg/kg
Copper	3,530	mg/kg
Lead	931	mg/kg
Mercury	2.9	mg/kg
Nickel	128	mg/kg
Selenium	3.9	mg/kg
Silver	2.1	mg/kg
Zinc	7,080	mg/kg

Sample ID:	J5-W1	
Sample Depth:	12" - 14"	
Analyte	Concentration	
Lead	3,030	mg/kg

Sample ID:	J5-E1	
Sample Depth:	12" - 14"	
Analyte	Concentration	
Lead	2,270	mg/kg

Sample ID:	J5-S1	
Sample Depth:	12" - 14"	
Analyte	Concentration	
Lead	2,240	mg/kg

Sample ID:	SB-26	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Benzo(a)anthracene	18	mg/kg
Benzo(a)pyrene	14	mg/kg
Benzo(b)fluoranthene	23	mg/kg
Benzo(k)fluoranthene	7.4	mg/kg
Chrysene	21	mg/kg
Indeno(1,2,3-cd)pyrene	9.5	mg/kg
Copper	176	mg/kg
Lead	1,680	mg/kg
Mercury	7.3	mg/kg
Zinc	289	mg/kg

Sample ID:	SB-3	
Sample Depth:	0' - 5'	
Analyte	Concentration	
Acetone	0.19	mg/kg
Benzo(a)anthracene	1.1	mg/kg
Benzo(a)pyrene	1	mg/kg
Benzo(b)fluoranthene	1.3	mg/kg
Chrysene	1.2	mg/kg
Indeno(1,2,3-cd)pyrene	0.62	mg/kg
Copper	403	mg/kg
Lead	98.2	mg/kg
Mercury	0.262	mg/kg
Zinc	161	mg/kg

Sample ID:	SB-49	
Sample Depth:	0' - 4'	
Analyte	Concentration	
Chromium	51.1	mg/kg
Copper	153	mg/kg
Lead	232	mg/kg
Mercury	0.72	mg/kg
Nickel	51.8	mg/kg
Zinc	408	mg/kg

GRID KEY

A	B
C	D

LEGEND

- SOIL BORING LOCATIONS (2007)
- SOIL BORING LOCATIONS (2009)
- SOIL BORING LOCATIONS (2010)
- SOIL BORING LOCATIONS (2012)

0 20 40 80

SCALE: 1 INCH EQUALS 40 FEET

DRAWING SOURCE:

Gannett Fleming

100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

PROJECT #	47743
DRAWN BY:	DAB
DATE DRAWN:	JUL 2012
REVISED BY:	DAB
DATE REVISED:	OCT 2013

SOIL SAMPLE LOCATIONS ABOVE UNRESTRICTED USE CRITERIA - SVOCS AND METALS (0-4 FEET)

FRITO-LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE
4-19

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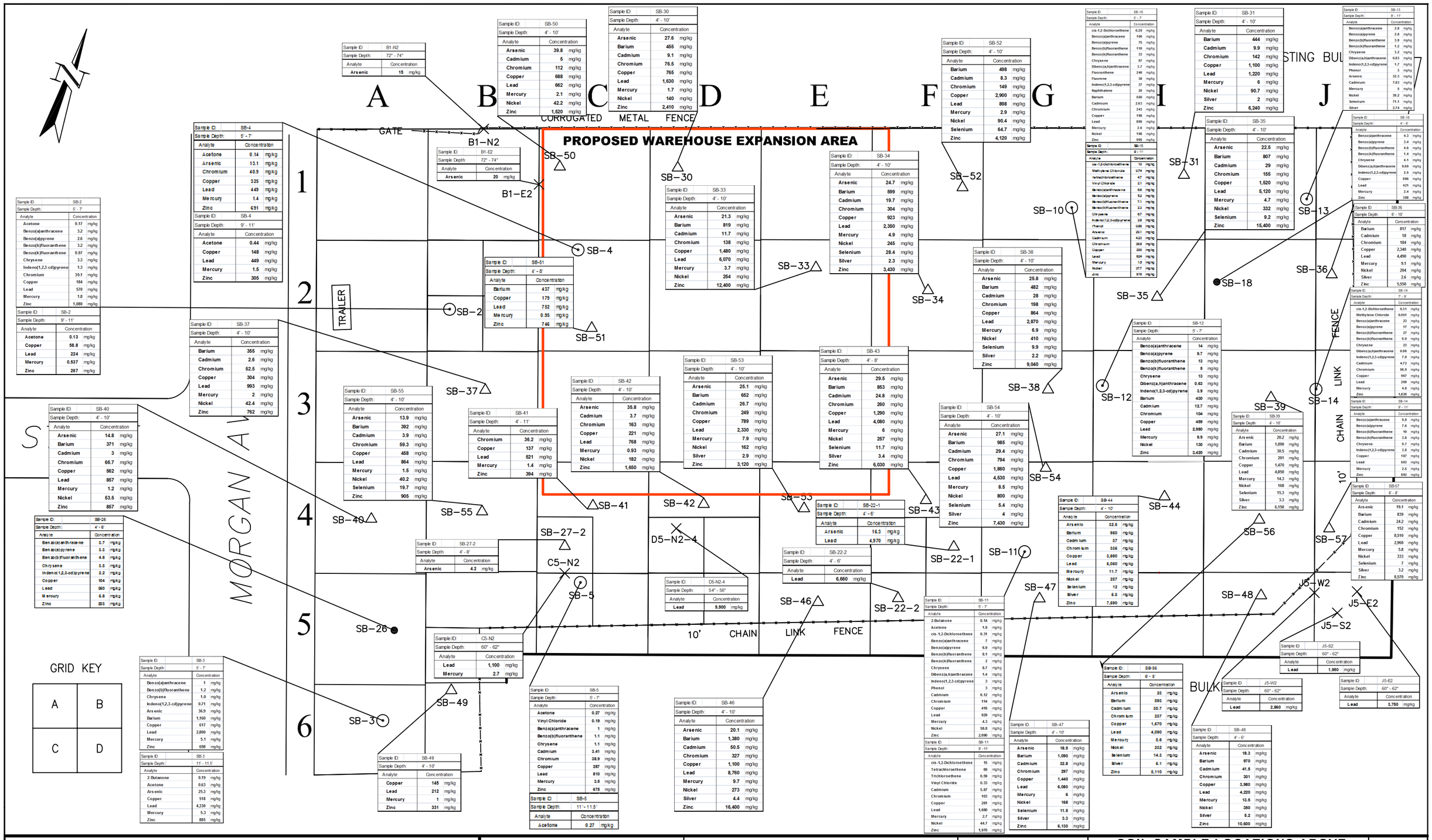


Sample ID:	B1-N2
Sample Depth:	72" - 74"
Analyte	Concentration
Arsenic	15 mg/kg

Sample ID:	SB-50
Sample Depth:	4' - 10'
Analyte	Concentration
Arsenic	39.8 mg/kg
Cadmium	5 mg/kg
Chromium	112 mg/kg
Copper	688 mg/kg
Lead	662 mg/kg
Mercury	2.1 mg/kg
Nickel	42.2 mg/kg
Zinc	1,520 mg/kg

Sample ID:	SB-30
Sample Depth:	4' - 10'
Analyte	Concentration
Arsenic	27.6 mg/kg
Barium	455 mg/kg
Cadmium	9.1 mg/kg
Chromium	76.5 mg/kg
Copper	765 mg/kg
Lead	1,630 mg/kg
Mercury	1.7 mg/kg
Nickel	140 mg/kg
Zinc	2,410 mg/kg

Sample ID:	SB-52
Sample Depth:	4' - 10'
Analyte	Concentration
Barium	498 mg/kg
Cadmium	8.3 mg/kg
Chromium	149 mg/kg
Copper	2,900 mg/kg
Lead	898 mg/kg
Mercury	2.9 mg/kg
Nickel	90.4 mg/kg
Selenium	64.7 mg/kg
Zinc	4,120 mg/kg

Sample ID:	SB-10
Sample Depth:	5' - 7'
Analyte	Concentration
cis-1,2-Dichloroethene	0.28 mg/kg
Benzo(a)anthracene	100 mg/kg
Benzo(a)pyrene	75 mg/kg
Benzo(b)fluoranthene	110 mg/kg
Benzo(k)fluoranthene	33 mg/kg
Chrysene	97 mg/kg
Dibenz(a,h)anthracene	3.7 mg/kg
Fluoranthene	240 mg/kg
Fluorene	38 mg/kg
Indeno(1,2,3-cd)pyrene	37 mg/kg
Naphthalene	20 mg/kg
Barium	550 mg/kg
Cadmium	2.63 mg/kg
Chromium	243 mg/kg
Copper	198 mg/kg
Lead	866 mg/kg
Mercury	2.6 mg/kg
Nickel	198 mg/kg
Zinc	995 mg/kg

Sample ID:	SB-10
Sample Depth:	9' - 11'
Analyte	Concentration
cis-1,2-Dichloroethene	10 mg/kg
Methylene Chloride	0.74 mg/kg
Tetrachloroethene	4.7 mg/kg
Vinyl Chloride	2.1 mg/kg
Benzo(a)anthracene	58 mg/kg
Benzo(a)pyrene	52 mg/kg
Benzo(b)fluoranthene	7.1 mg/kg
Benzo(k)fluoranthene	2.2 mg/kg
Chrysene	67 mg/kg
Indeno(1,2,3-cd)pyrene	28 mg/kg
Phenol	0.88 mg/kg
Arsenic	22.1 mg/kg
Cadmium	4.23 mg/kg
Chromium	268 mg/kg
Copper	209 mg/kg
Lead	624 mg/kg
Mercury	1.8 mg/kg
Nickel	217 mg/kg
Zinc	816 mg/kg

Sample ID:	SB-31
Sample Depth:	4' - 10'
Analyte	Concentration
Barium	444 mg/kg
Cadmium	9.9 mg/kg
Chromium	142 mg/kg
Copper	1,100 mg/kg
Lead	1,220 mg/kg
Mercury	6 mg/kg
Nickel	90.7 mg/kg
Silver	2 mg/kg
Zinc	6,240 mg/kg

Sample ID:	SB-13
Sample Depth:	9' - 11'
Analyte	Concentration
Benzo(a)anthracene	2.8 mg/kg
Benzo(a)pyrene	2.8 mg/kg
Benzo(b)fluoranthene	3.9 mg/kg
Benzo(k)fluoranthene	1.2 mg/kg
Chrysene	3.2 mg/kg
Dibenz(a,h)anthracene	0.83 mg/kg
Indeno(1,2,3-cd)pyrene	1.7 mg/kg
Phenol	3 mg/kg
Arsenic	32.3 mg/kg
Cadmium	7.83 mg/kg
Mercury	5 mg/kg
Nickel	38.2 mg/kg
Selenium	71.1 mg/kg
Silver	2.74 mg/kg

Sample ID:	SB-35
Sample Depth:	4' - 10'
Analyte	Concentration
Arsenic	22.5 mg/kg
Barium	807 mg/kg
Cadmium	29 mg/kg
Chromium	155 mg/kg
Copper	1,520 mg/kg
Lead	5,120 mg/kg
Mercury	4.7 mg/kg
Nickel	332 mg/kg
Selenium	9.2 mg/kg
Zinc	15,400 mg/kg

Sample ID:	SB-18
Sample Depth:	4' - 6'
Analyte	Concentration
Benzo(a)anthracene	4.3 mg/kg
Benzo(a)pyrene	3.4 mg/kg
Benzo(b)fluoranthene	4.6 mg/kg
Benzo(k)fluoranthene	1.4 mg/kg
Chrysene	4.1 mg/kg
Dibenz(a,h)anthracene	0.69 mg/kg
Indeno(1,2,3-cd)pyrene	2.5 mg/kg
Copper	866 mg/kg
Lead	421 mg/kg
Mercury	2.4 mg/kg
Zinc	388 mg/kg

Sample ID:	SB-36
Sample Depth:	6' - 10'
Analyte	Concentration
Barium	817 mg/kg
Cadmium	18 mg/kg
Chromium	184 mg/kg
Copper	2,340 mg/kg
Lead	6,450 mg/kg
Mercury	9.1 mg/kg
Nickel	204 mg/kg
Silver	2.6 mg/kg
Zinc	5,550 mg/kg

Sample ID:	SB-14
Sample Depth:	7' - 9'
Analyte	Concentration
cis-1,2-Dichloroethene	0.31 mg/kg
Methylene Chloride	0.055 mg/kg
Benzo(a)anthracene	23 mg/kg
Benzo(a)pyrene	17 mg/kg
Benzo(b)fluoranthene	27 mg/kg
Benzo(k)fluoranthene	6.9 mg/kg
Chrysene	23 mg/kg
Dibenz(a,h)anthracene	0.96 mg/kg
Indeno(1,2,3-cd)pyrene	7.9 mg/kg
Cadmium	4.72 mg/kg
Chromium	56.9 mg/kg
Copper	967 mg/kg
Lead	269 mg/kg
Mercury	4.8 mg/kg
Zinc	1,820 mg/kg

Sample ID:	SB-14
Sample Depth:	9' - 11'
Analyte	Concentration
Benzo(a)anthracene	9.8 mg/kg
Benzo(a)pyrene	7.6 mg/kg
Benzo(b)fluoranthene	10 mg/kg
Benzo(k)fluoranthene	3.8 mg/kg
Chrysene	9.7 mg/kg
Indeno(1,2,3-cd)pyrene	3.8 mg/kg
Copper	187 mg/kg
Lead	663 mg/kg
Mercury	2.6 mg/kg
Zinc	892 mg/kg

Sample ID:	SB-2
Sample Depth:	5' - 7'
Analyte	Concentration
Acetone	0.17 mg/kg
Benzo(a)anthracene	3.2 mg/kg
Benzo(a)pyrene	2.6 mg/kg
Benzo(b)fluoranthene	3.2 mg/kg
Benzo(k)fluoranthene	0.97 mg/kg
Chrysene	3.3 mg/kg
Indeno(1,2,3-cd)pyrene	1.3 mg/kg
Chromium	30.1 mg/kg
Copper	184 mg/kg
Lead	570 mg/kg
Mercury	1.8 mg/kg
Zinc	1,080 mg/kg

Sample ID:	SB-2
Sample Depth:	9' - 11'
Analyte	Concentration
Acetone	0.13 mg/kg
Copper	58.8 mg/kg
Lead	224 mg/kg
Mercury	0.537 mg/kg
Zinc	267 mg/kg

Sample ID:	SB-4
Sample Depth:	5' - 7'
Analyte	Concentration
Acetone	0.14 mg/kg
Arsenic	13.1 mg/kg
Chromium	40.9 mg/kg
Copper	325 mg/kg
Lead	449 mg/kg
Mercury	1.4 mg/kg
Zinc	691 mg/kg

Sample ID:	SB-4
Sample Depth:	9' - 11'
Analyte	Concentration
Acetone	0.44 mg/kg
Copper	148 mg/kg
Lead	449 mg/kg
Mercury	1.5 mg/kg
Zinc	305 mg/kg

Sample ID:	SB-51
Sample Depth:	4' - 8'
Analyte	Concentration
Barium	437 mg/kg
Copper	179 mg/kg
Lead	752 mg/kg
Mercury	0.95 mg/kg
Zinc	746 mg/kg

Sample ID:	SB-37
Sample Depth:	4' - 10'
Analyte	Concentration
Barium	355 mg/kg
Cadmium	2.6 mg/kg
Chromium	52.5 mg/kg
Copper	304 mg/kg
Lead	993 mg/kg
Mercury	2 mg/kg
Nickel	42.4 mg/kg
Zinc	762 mg/kg

Sample ID:	SB-55
Sample Depth:	4' - 10'
Analyte	Concentration
Arsenic	13.9 mg/kg
Barium	392 mg/kg
Cadmium	3.9 mg/kg
Chromium	59.3 mg/kg
Copper	458 mg/kg
Lead	864 mg/kg
Mercury	1.5 mg/kg
Nickel	40.2 mg/kg
Selenium	19.7 mg/kg
Zinc	905 mg/kg

Sample ID:	SB-41
Sample Depth:	4' - 11'
Analyte	Concentration
Chromium	36.2 mg/kg
Copper	137 mg/kg
Lead	521 mg/kg
Mercury	1.4 mg/kg
Zinc	394 mg/kg

Sample ID:	SB-42
Sample Depth:	4' - 10'
Analyte	Concentration
Arsenic	35.8 mg/kg
Cadmium	3.7 mg/kg
Chromium	163 mg/kg
Copper	221 mg/kg
Lead	768 mg/kg
Mercury	0.93 mg/kg
Nickel	182 mg/kg
Zinc	1,650 mg/kg

Sample ID:	SB-53
Sample Depth:	4' - 10'
Analyte	Concentration
Arsenic	25.1 mg/kg
Barium	652 mg/kg
Cadmium	26.7 mg/kg
Chromium	249 mg/kg
Copper	789 mg/kg
Lead	2,330 mg/kg
Mercury	7.9 mg/kg
Nickel	162 mg/kg
Silver	2.9 mg/kg
Zinc	3,120 mg/kg

Sample ID:	SB-43
Sample Depth:	4' - 8'
Analyte	Concentration
Arsenic	29.5 mg/kg
Barium	853 mg/kg
Cadmium	24.8 mg/kg
Chromium	260 mg/kg
Copper	1,290 mg/kg
Lead	4,080 mg/kg
Mercury	6 mg/kg
Nickel	257 mg/kg
Selenium	11.7 mg/kg
Silver	3.4 mg/kg
Zinc	6,030 mg/kg

Sample ID:	SB-38
Sample Depth:	4' - 10'
Analyte	Concentration
Arsenic	25.8 mg/kg
Barium	482 mg/kg
Cadmium	28 mg/kg
Chromium	198 mg/kg
Copper	864 mg/kg
Lead	2,870 mg/kg
Mercury	6.9 mg/kg
Nickel	410 mg/kg
Selenium	9.9 mg/kg
Silver	2.2 mg/kg
Zinc	9,040 mg/kg

Sample ID:	SB-12
Sample Depth:	5' - 7'
Analyte	Concentration
Benzo(a)anthracene	14 mg/kg
Benzo(a)pyrene	9.7 mg/kg
Benzo(b)fluoranthene	13 mg/kg
Benzo(k)fluoranthene	5 mg/kg
Chrysene	13 mg/kg
Dibenz(a,h)anthracene	0.63 mg/kg
Indeno(1,2,3-cd)pyrene	3.9 mg/kg
Barium	430 mg/kg
Cadmium	12.7 mg/kg
Chromium	104 mg/kg
Copper	459 mg/kg
Lead	2,980 mg/kg
Mercury	9.9 mg/kg
Nickel	130 mg/kg
Zinc	3,420 mg/kg

Sample ID:	SB-39
Sample Depth:	4' - 10'
Analyte	Concentration
Arsenic	20.2 mg/kg
Barium	1,090 mg/kg
Cadmium	30.5 mg/kg
Chromium	201 mg/kg
Copper	1,470 mg/kg
Lead	4,850 mg/kg
Mercury	14.3 mg/kg
Nickel	168 mg/kg
Selenium	15.3 mg/kg
Silver	3.3 mg/kg
Zinc	6,150 mg/kg

Sample ID:	SB-40
Sample Depth:	4' - 10'
Analyte	Concentration
Arsenic	14.8 mg/kg
Barium	371 mg/kg
Cadmium	3 mg/kg
Chromium	66.7 mg/kg
Copper	562 mg/kg
Lead	857 mg/kg
Mercury	1.2 mg/kg
Nickel	53.5 mg/kg
Zinc	857 mg/kg

Sample ID:	SB-27-2
Sample Depth:	4' - 8'
Analyte	Concentration
Arsenic	4.2 mg/kg

Sample ID:	SB-22-1
Sample Depth:	4' - 6'
Analyte	Concentration
Arsenic	16.3 mg/kg
Lead	4,570 mg/kg

Sample ID:	SB-22-2
Sample Depth:	4' - 6'
Analyte	Concentration
Lead	6,660 mg/kg

Sample ID:	D5-N2-4
Sample Depth:	54" - 56"
Analyte	Concentration
Lead	9,900 mg/kg

Sample ID:	C5-N2
Sample Depth:	60" - 62"
Analyte	Concentration
Lead	1,100 mg/kg
Mercury	2.7 mg/kg

Sample ID:	SB-11
Sample Depth:	5' - 7'
Analyte	Concentration
2-Butanone	0.14 mg/kg
Acetone	1.9 mg/kg
cis-1,2-Dichloroethene	0.31 mg/kg
Benzo(a)anthracene	7 mg/kg
Benzo(a)pyrene	6.9 mg/kg
Benzo(b)fluoranthene	8.1 mg/kg
Benzo(k)fluoranthene	2 mg/kg
Chrysene	8.7 mg/kg
Dibenz(a,h)anthracene	1.4 mg/kg
Indeno(1,2,3-cd)pyrene	3 mg/kg
Phenol	3 mg/kg
Cadmium	6.12 mg/kg
Chromium	114 mg/kg
Copper	416 mg/kg
Lead	929 mg/kg
Mercury	4.3 mg/kg
Nickel	58.8 mg/kg
Zinc	2,690 mg/kg

Sample ID:	SB-11
Sample Depth:	9' - 11'
Analyte	Concentration
cis-1,2-Dichloroethene	15 mg/kg
Tetrachloroethene	69 mg/kg
Trichloroethene	0.59 mg/kg
Vinyl Chloride	0.33 mg/kg
Cadmium	5.87 mg/kg
Chromium	103 mg/kg
Copper	281 mg/kg
Lead	1,680 mg/kg
Mercury	2.7 mg/kg
Nickel	44.7 mg/kg
Zinc	1,970 mg/kg

Sample ID:	SB-54
Sample Depth:	4' - 10'
Analyte	Concentration
Arsenic	27.1 mg/kg
Barium	985 mg/kg
Cadmium	29.4 mg/kg
Chromium	794 mg/kg
Copper	1,860 mg/kg
Lead	4,530 mg/kg
Mercury	8.5 mg/kg
Nickel	800 mg/kg
Selenium	5.4 mg/kg
Silver	4 mg/kg
Zinc	7,430 mg/kg

Sample ID:	SB-44
Sample Depth:	4' - 10'
Analyte	Concentration
Arsenic	32.6 mg/kg
Barium	960 mg/kg
Cadmium	37 mg/kg
Chromium	336 mg/kg
Copper	3,690 mg/kg
Lead	6,060 mg/kg
Mercury	11.7 mg/kg
Nickel	287 mg/kg
Selenium	12 mg/kg
Silver	6.8 mg/kg
Zinc	7,690 mg/kg

Sample ID:	SB-47
Sample Depth:	4' - 10'
Analyte	Concentration
Arsenic	18.5 mg/kg
Barium	1,090 mg/kg
Cadmium	32.8 mg/kg
Chromium	297 mg/kg
Copper	1,440 mg/kg
Lead	6,080 mg/kg
Mercury	6 mg/kg
Nickel	168 mg/kg
Selenium	11.5 mg/kg
Silver	3.3 mg/kg
Zinc	6,130 mg/kg

Sample ID:	SB-56
Sample Depth:	6' - 8'
Analyte	Concentration
Arsenic	23 mg/kg
Barium	893 mg/kg
Cadmium	30.7 mg/kg
Chromium	237 mg/kg
Copper	1,670 mg/kg
Lead	4,090 mg/kg
Mercury	8.8 mg/kg
Nickel	232 mg/kg
Selenium	14.3 mg/kg
Silver	6.1 mg/kg
Zinc	8,110 mg/kg

Sample ID:	SB-48
Sample Depth:	4' - 6'
Analyte	Concentration
Arsenic	18.3 mg/kg
Barium	970 mg/kg
Cadmium	41.5 mg/kg
Chromium	301 mg/kg
Copper	3,980 mg/kg
Lead	4,220 mg/kg
Mercury	13.5 mg/kg
Nickel	350 mg/kg
Silver	5.2 mg/kg
Zinc	10,600 mg/kg

Sample ID:	J5-S2
Sample Depth:	60" - 62"
Analyte	Concentration
Lead	1,950 mg/kg

Sample ID:	J5-W2
Sample Depth:	60" - 62"
Analyte	Concentration
Lead	2,860 mg/kg

Sample ID:	J5-E2
Sample Depth:	60" - 62"
Analyte	Concentration
Lead	3,750 mg/kg

Sample ID:	SB-57
Sample Depth:	6' - 8'
Analyte	Concentration
Arsenic	19.1 mg/kg
Barium	839 mg/kg
Cadmium	24.2 mg/kg
Chromium	152 mg/kg
Copper	8,510 mg/kg
Lead	2,960 mg/kg
Mercury	5.8 mg/kg
Nickel	333 mg/kg
Selenium	7 mg/kg
Silver	3.2 mg/kg
Zinc	8,570 mg/kg

Sample ID:	SB-3
Sample Depth:	5' - 7'
Analyte	Concentration
Benzo(a)anthracene	1 mg/kg
Benzo(b)fluoranthene	1.2 mg/kg
Chrysene	1.0 mg/kg
Indeno(1,2,3-cd)pyrene	0.71 mg/kg
Arsenic	36.9 mg/kg
Barium	1,160 mg/kg
Copper	617 mg/kg
Lead	2,800 mg/kg
Mercury	5.1 mg/kg
Zinc	698 mg/kg

Sample ID:	SB-3
Sample Depth:	11' - 11.5'
Analyte	Concentration
2-Butanone	0.19 mg/kg
Acetone	0.63 mg/kg
Arsenic	25.3 mg/kg
Copper	518 mg/kg
Lead	4,330 mg/kg
Mercury	5.3 mg/kg
Zinc	885 mg/kg

Sample ID:	SB-49
Sample Depth:	4' - 10'
Analyte	Concentration
Copper	145 mg/kg
Lead	212 mg/kg
Mercury	1 mg/kg
Zinc	331 mg/kg

Sample ID:	SB-5
Sample Depth:	5' - 7'
Analyte	Concentration
Acetone	0.27 mg/kg
Vinyl Chloride	0.19 mg/kg
Benzo(a)anthracene	1 mg/kg
Benzo(b)fluoranthene	1.1 mg/kg
Chrysene	1.1 mg/kg
Cadmium	3.41 mg/kg
Chromium	38.9 mg/kg
Copper	287 mg/kg
Lead	810 mg/kg
Mercury	3.5 mg/kg
Zinc	675 mg/kg

Sample ID:	SB-5
Sample Depth:	11' - 11.5'
Analyte	Concentration
Acetone	0.27 mg/kg

Sample ID:	SB-46
Sample Depth:	4' - 10'
Analyte	Concentration
Arsenic	20.1 mg/kg
Barium	1,380 mg/kg
Cadmium	50.5 mg/kg
Chromium	327 mg/kg
Copper	1,100 mg/kg
Lead	8,760 mg/kg
Mercury	9.7 mg/kg
Nickel	273 mg/kg
Silver	4.4 mg/kg
Zinc	16,400 mg/kg

LEGEND

- ⊙ SOIL BORING LOCATIONS (2007)
- • SOIL BORING LOCATIONS (2009)
- △ SOIL BORING LOCATIONS (2010)
- × SOIL BORING LOCATIONS (2012)

0 20 40 80

SCALE: 1 INCH EQUALS 40 FEET

DRAWING SOURCE:

Gannett Fleming

100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

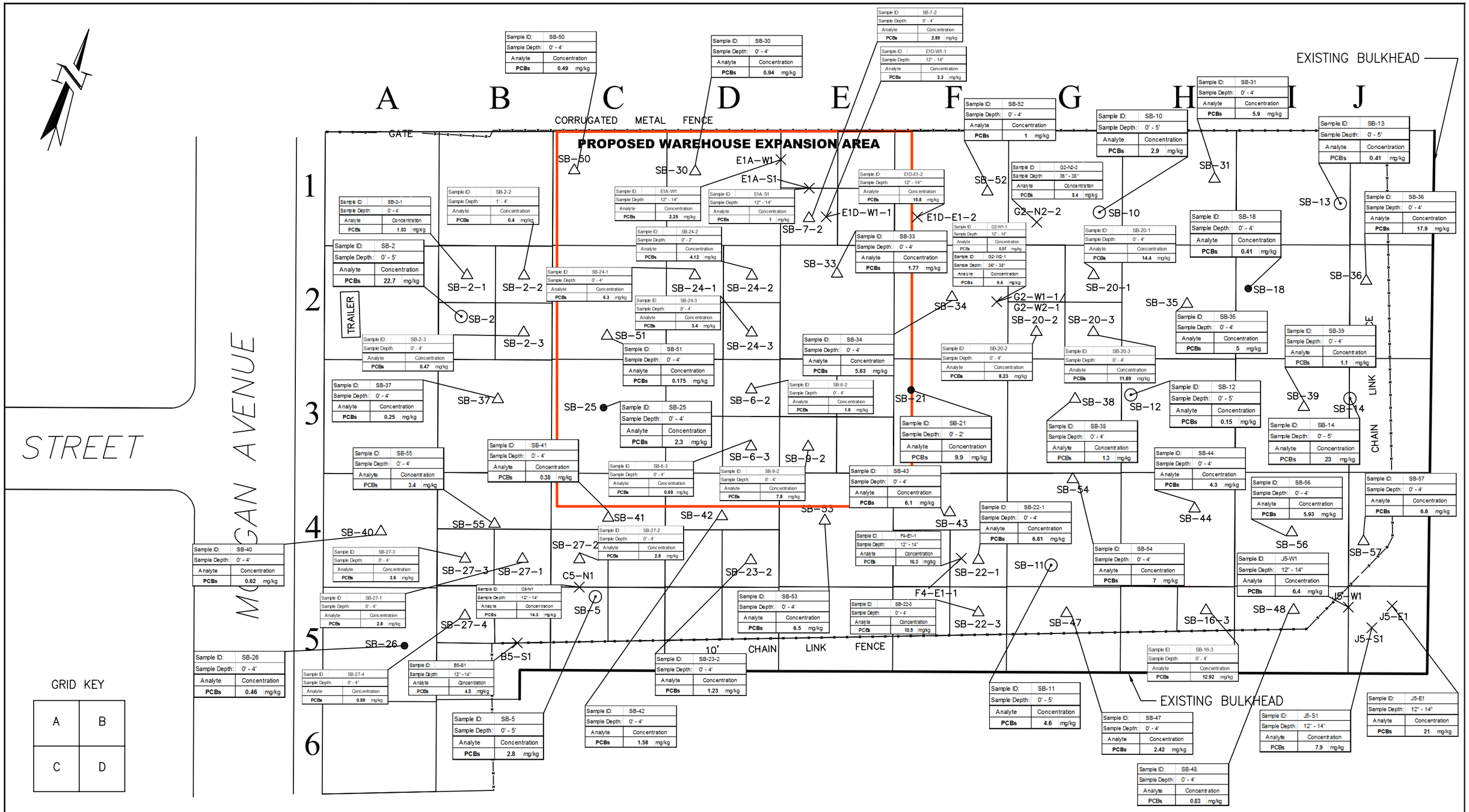
PROJECT #	47743
DRAWN BY:	DAB
DATE DRAWN:	JUL 2012
REVISED BY:	DAB
DATE REVISED:	OCT 2013

SOIL SAMPLE LOCATIONS ABOVE UNRESTRICTED USE CRITERIA - SVOCS AND METALS (> 4 FEET)

FRITO-LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE
4-20

S:\PROJECTS\47743 - Frito Lay\December 2012\Unrestricted Use\Deep.dwg, 10/28/2013 10:09:48 AM



LEGEND

- ⊙ SOIL BORING LOCATIONS (2007)
- • SOIL BORING LOCATIONS (2009)
- △ SOIL BORING LOCATIONS (2010)
- × SOIL BORING LOCATIONS (2012)

0 20 40 80

SCALE: 1 INCH EQUALS 40 FEET

DRAWING SOURCE:

Gannett Fleming

100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

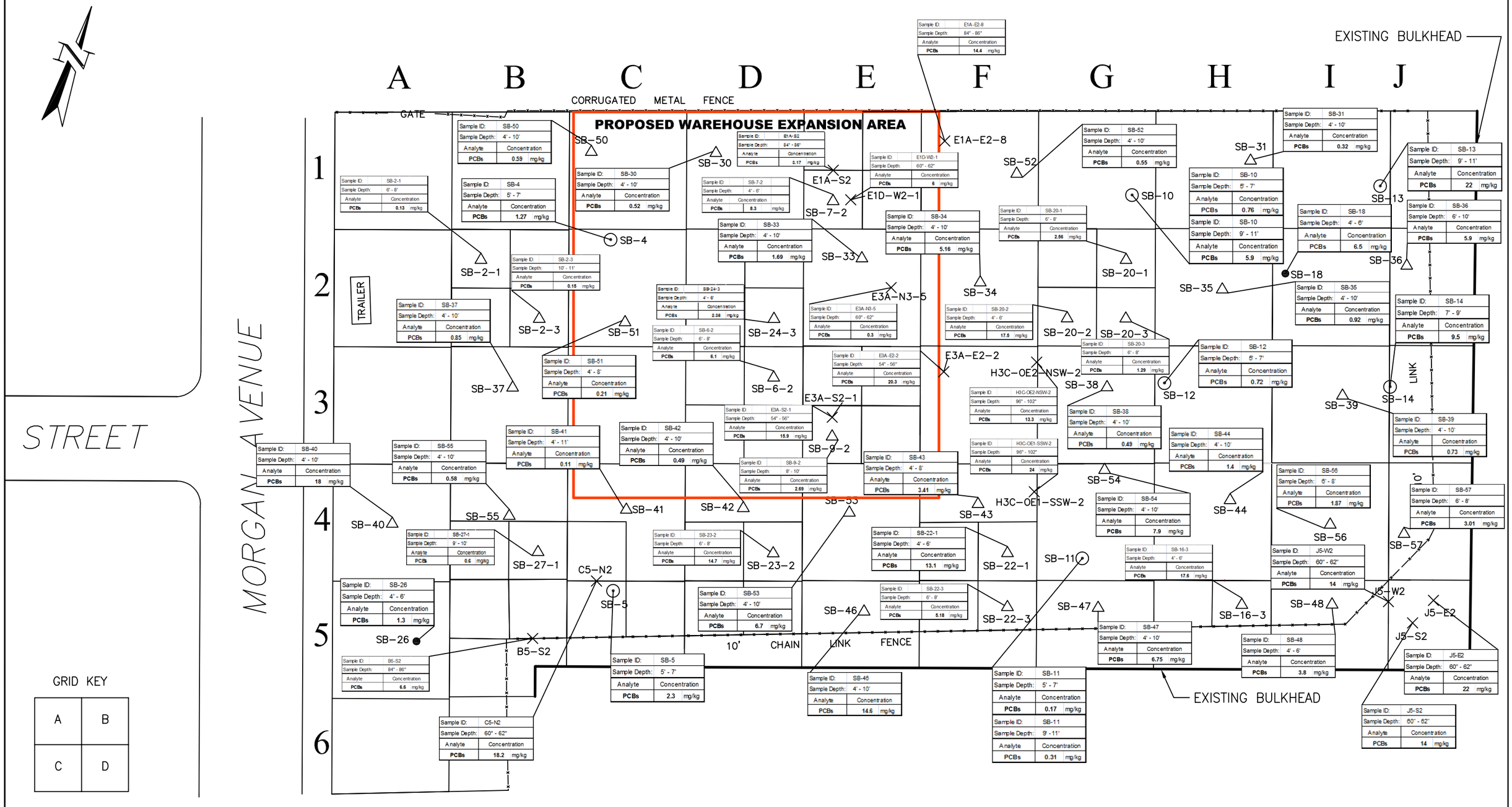
PROJECT #	47743
DRAWN BY:	DAB
DATE DRAWN:	JUL 2012
REVISED BY:	DAB
DATE REVISED:	OCT 2013

SOIL SAMPLE LOCATIONS ABOVE UNRESTRICTED USE CRITERIA - PCBS (0-4 FEET)

FRITO-LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE
4-21

S:\PROJECTS\47743 - Frito Lay\December 2012\Unrestricted Use\Shallow PCBs.dwg, 10/28/2013 10:11:03 AM



LEGEND

- ⊙ SOIL BORING LOCATIONS (2007)
- • SOIL BORING LOCATIONS (2009)
- △ SOIL BORING LOCATIONS (2010)
- × SOIL BORING LOCATIONS (2012)

0 20 40 80

SCALE: 1 INCH EQUALS 40 FEET

DRAWING SOURCE:

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100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
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PROJECT #	47743
DRAWN BY:	DAB
DATE DRAWN:	JUL 2012
REVISED BY:	DAB
DATE REVISED:	OCT 2013

SOIL SAMPLE LOCATIONS ABOVE UNRESTRICTED USE CRITERIA - PCBS (> 4 FEET)

FRITO-LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE
4-22

S:\PROJECTS\47743 - Frito Lay\December 2012\Unrestricted Use\Deep PCBs.dwg, 10/28/2013 10:13:30 AM

EXISTING BULKHEAD

A B C D E F G H I J

CORRUGATED METAL FENCE

PROPOSED WAREHOUSE EXTENSION AREA

1 2 3 4 5 6

6' CHAIN LINK FENCE

STREET

MORGAN AVENUE

EXISTING BULKHEAD

LEGEND

- ORIGINAL PCB EXCAVATION AREA
- EXTENDED PCB EXCAVATION AREA
- ARSENIC SOIL EXCAVATION AREA
- LEAD SOIL EXCAVATION AREA
- OUTLINE OF EXCAVATION AREA
- STABILIZED RIP-RAP SLOPE
- LANDSCAPED AREA

NOTE: SEE FIGURE 2-2 FOR DETAILS

STATE OF NEW YORK
VINCENT J. FRISINA
No. 059115
LICENSED PROFESSIONAL ENGINEER
11/5/13

Gannett Fleming
100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

PROJECT #	47743
DRAWN BY:	DAB
DATE DRAWN:	FEB 2013
REVISED BY:	DAB
DATE REVISED:	APR 2013
SCALE:	1" = 40'

ASPHALT AND SOIL COVER SYSTEM LOCATIONS

FRITO-LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE
4-23

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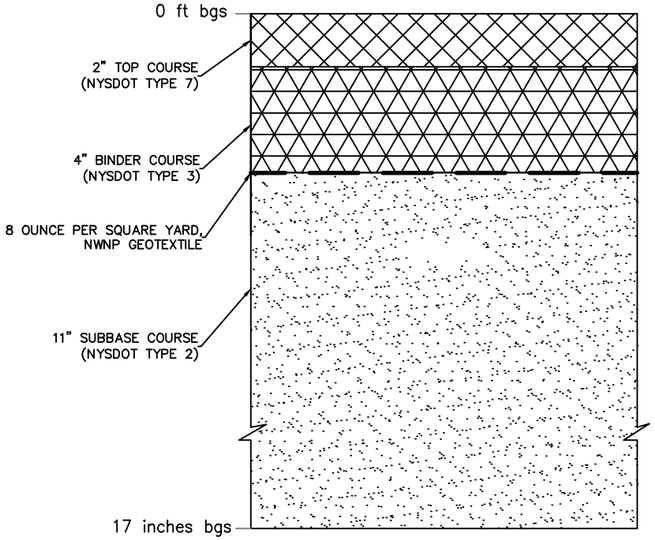
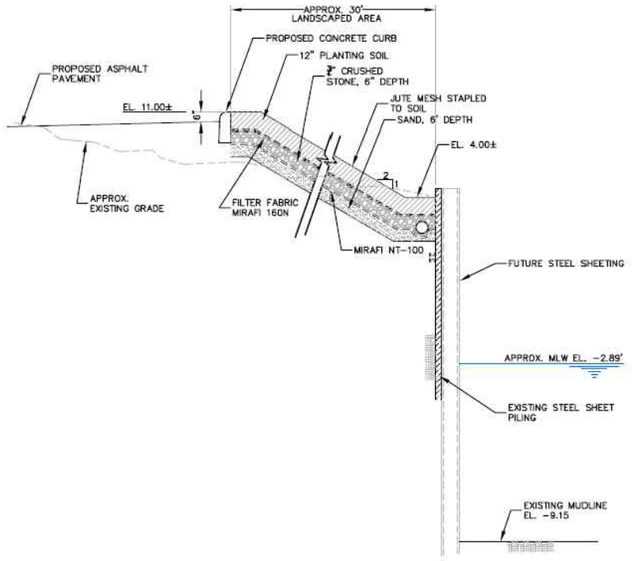
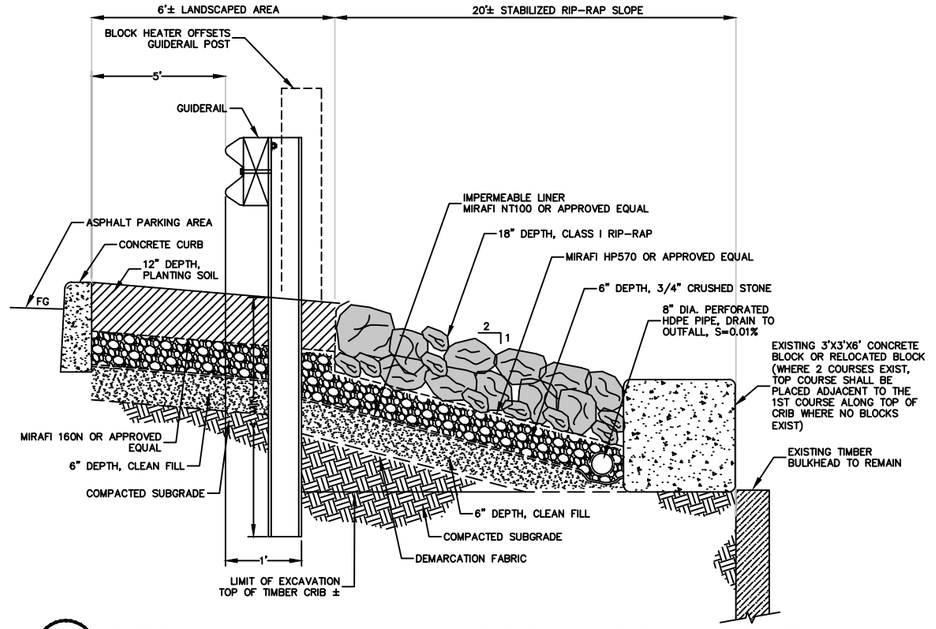


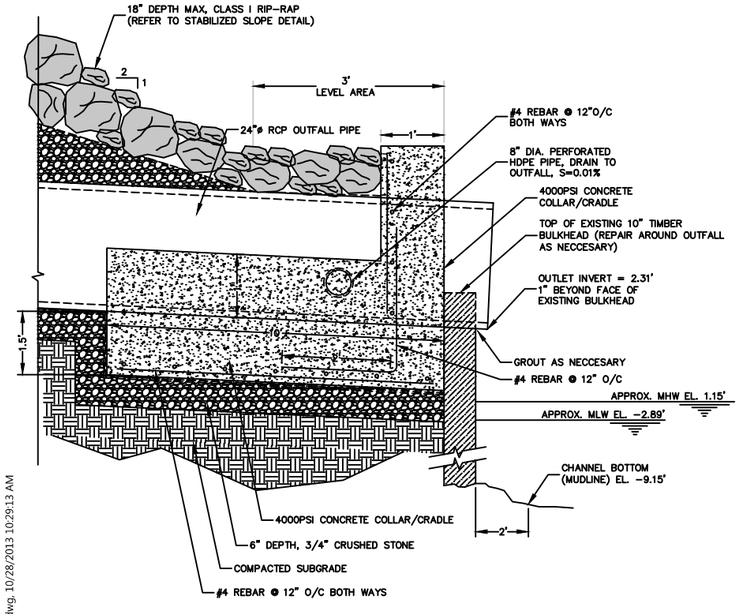
1 ASPHALT COVER DETAIL
NTS



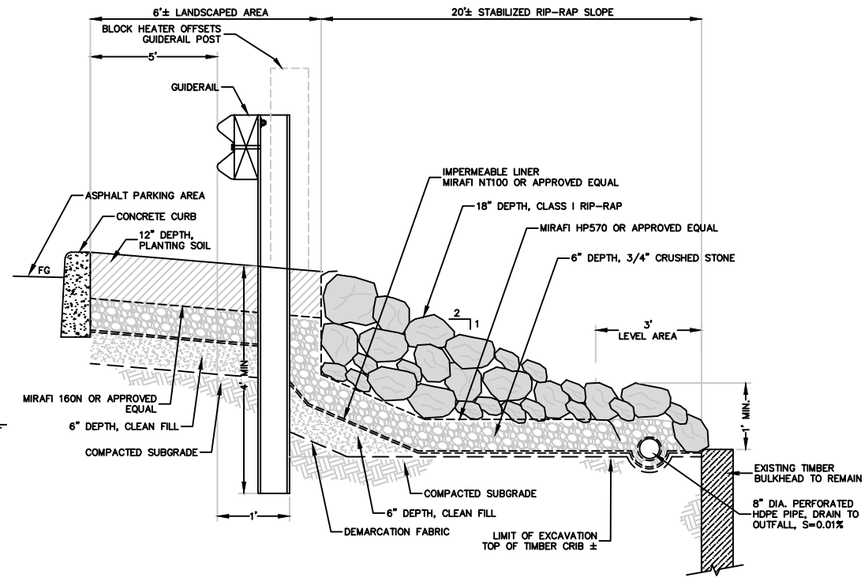
3 CROSS-SECTION THROUGH LANDSCAPED AREA AND EXISTING BULKHEAD
NTS



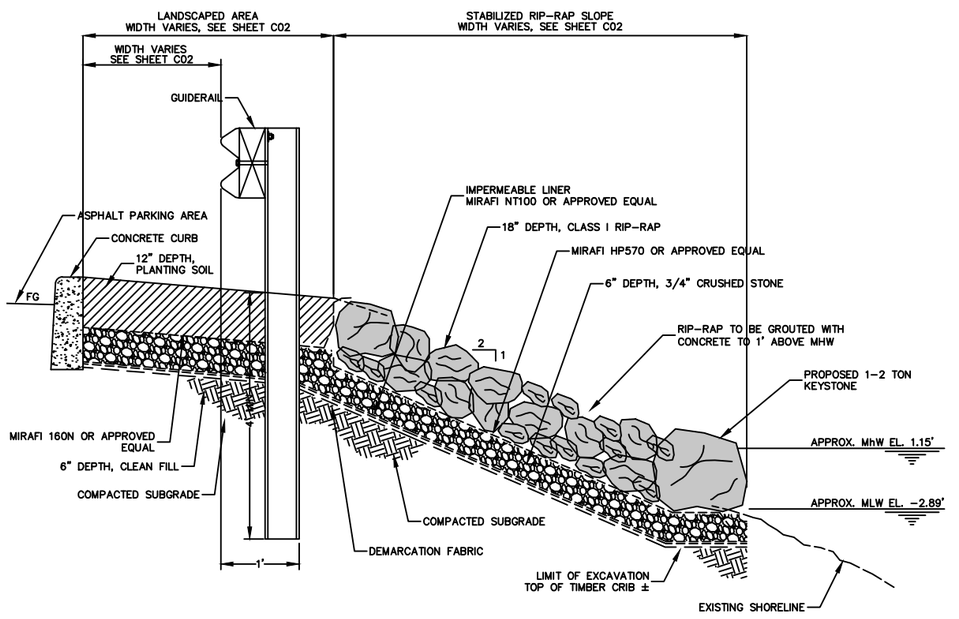
5 CROSS-SECTION THRU STABILIZED SLOPE (W/ CONCRETE BLOCKS)
NTS



2 CROSS-SECTION THRU OUTFALL PIPE
NTS



4 CROSS-SECTION THRU STABILIZED SLOPE (NO CONCRETE BLOCKS)
NTS



6 CROSS-SECTION THRU STABILIZED SLOPE AT SOUTHEAST CORNER OF SITE
NTS

NOTES:
- CROSS-SECTION NUMBER 2, 3, 4, 5, AND 6 PROVIDED BY PS&S, SITE DETAILS - SHEET C06, DATED MARCH 29, 2013.
- SEE FIGURE 2-1 FOR APPROXIMATE COVER SYSTEM LOCATIONS

DRAWING IS NOT TO SCALE

Gannett Fleming
100 CROSSWAYS PARK WEST, SUITE 300
WOODBURY, NEW YORK 11797
WWW.GFNET.COM

PROJECT #:	47743
DRAWN BY:	DAB
DATE DRAWN:	APR 2013
REVISED BY:	
DATE REVISED:	

ASPHALT AND SOIL COVER SYSTEM DETAILS

FRITO-LAY
202-218 MORGAN AVENUE
BROOKLYN, NEW YORK

FIGURE **4-24**

S:\PROJECTS\47743 - Frito Lay\March 2013\Specs 2.dwg, 10/28/2013 10:29:13 AM