ARCADIS

Infrastructure · Water · Environment · Buildings

Imagine the result

Pre-Design Sampling and Remedial Alternative Evaluation Report for PCBs and Metals in Soil

Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York

NYSDEC Site # 1-30-003A

Revised: January 19, 2016

ARCADIS

Christopher Engler, PE 069748
Principal Engineer

David E. Stern
Senior Hydrogeologist

Carlo San Giovanni
Project Manager

Michael F. Wolfert
Project Director

Pre-Design Sampling and Remedial Alternative Evaluation Report for PCBs and Metals in Soil
Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York
NYSDEC Site # 1-30-003A

Prepared for:
Northrop Grumman Systems Corporation

Prepared by:
ARCADIS of New York, Inc.
Two Huntington Quadrangle
Suite 1S10
Melville
New York 11747
Tel 631 249 7600
Fax 631 249 7610

Our Ref.:
NY001051.0000.PAKB6

Date:
Revised: January 19, 2016

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

ARCADIS

Table of Contents

1. Introduction **1**

2. Background **1**

3. Objectives of the Pre-Design Sampling **2**

4. Field Methods **3**

4.1 Preliminary Activities 3

4.2 Phase 1 Sampling 4

4.3 Phase 2 Step Out Sampling 4

4.4 TCLP Metals Sampling 5

4.5 Access Road Step Out Sampling 5

4.6 Field and Laboratory Documentation 5

5. Results and Interpretation **6**

5.1 Data Quality Review 6

5.1.1 PCB Screening Samples 6

5.1.2 PCB Laboratory Samples 7

5.1.3 Metals Samples 7

5.2 Distribution of PCBs and Metals in Ball Field 7

5.3 Distribution of PCBs and Metals in Eastern Portion of Park 8

5.4 Distribution of PCBs and Metals in Access Road 8

5.5 TCLP Evaluation 9

6. Remedial Alternative Evaluation **9**

6.1 Introduction 9

6.2 Summary of Remedial Technologies 11

6.3 Conceptual Design - Soil Excavation 12

6.4 Conceptual Design - Soil Washing 13

6.4.1 Soil Washing Technology Description 13

6.4.3 Optimization Study and Remedial Design 16

6.5 Remedy Implementation 17

6.5.1 Excavation and Soil Washing Operations 17

6.5.2 Backfilling of Excavated Areas 18

6.5.3 Soil Cover/Cap and Site Restoration 19

7. Conclusions 19

8. References 21

Tables

Table 1 PCBs and Metals Sample Summary, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York

Table 2 PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York

Table 3 Concentrations of PCBs in Soil Samples, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York

Table 4 Concentrations of PCBs as Total Aroclors in Soil Samples, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York

Table 5 Comparison of Screening Method and Confirmatory Method, Total PCB results, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York

Table 6 Concentrations of PCBs in QA/QC Samples, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York

Table 7 Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York

Table 8 Concentrations of Metals in QA/QC Samples, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York

Table 9 Concentrations of TCLP Metals in Soil Samples, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York

Table 10 Nature and Extent of Soil to be Remediated, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York

Table 11 Summary of Applicable Remedial Technologies, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Figures

Figure 1 Site Location, Northrop Grumman Systems Corporation, Bethpage, New York

Figure 2 Site Features, Northrop Grumman Systems Corporation, Bethpage, New York

Figure 3A Western Side of Bethpage Community Park PCB Sample Locations, Northrop Grumman Systems Corporation, Bethpage, New Yok

Figure 3B Eastern Side of Bethpage Community Park PCB Sample Locations, Northrop Grumman Systems Corporation, Bethpage, New York

Figure 4A Western Side of Bethpage Community Park Metals Sample Locations, Northrop Grumman Systems Corporation, Bethpage, New York

Figure 4B Eastern Side of Bethpage Community Park Metals Sample Locations, Northrop Grumman Systems Corporation, Bethpage, New York

Figure 5A Western Side of Bethpage Community Park, Extent of PCBs in Soil Exceeding OU3 ROD Soil Cleanup Goals, Northrop Grumman Systems Corporation, Bethpage, New York

Figure 5B Eastern Side of Bethpage Community Park, Extent of PCBs in Soil Exceeding OU3 ROD Soil Cleanup Goals, Northrop Grumman Systems Corporation, Bethpage, New York

Figure 6 Bethpage Community Park Cross Section A-A' of PCBs in Soil Exceeding OU3 ROD Cleanup Goals, Northrop Grumman Systems Corporation, Bethpage, New York

Figure 7A Western Side of Bethpage Community Park, Extent of Metals in Soil 0-2 and 2-10 Feet Below Land Surface Exceeding OU3 ROD Soil Cleanup Objectives, Northrop Grumman Systems Corporation, Bethpage, New York

Figure 7B Eastern Side of Bethpage Community Park, Extent of Metals in Soil 0-2 and 2-10 Feet Below Land Surface Exceeding OU3 ROD Soil Cleanup Objectives, Northrop Grumman Systems Corporation, Bethpage, New York

Figure 8 Conceptual Excavation Program, Northrop Grumman Systems Corporation, Bethpage, New York

Figure 9 Conceptual Soil Washing Process, Northrop Grumman Systems Corporation, Bethpage, New York

Appendices

A Sample/Core Logs

B Community Air Monitoring Data

C IDW Characterization Data and Disposal Manifests

D Data Usability Reports

E Laboratory Reports

Acronyms and Abbreviations

Arcadis	Arcadis of New York, Inc., formerly ARCADIS
bls	below land surface
FS	feasibility study
Ft	Feet
Northrop Grumman	Northrop Grumman Systems Corporation
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OU	Operable Unit
Park	Bethpage Community Park
PCBs	Polychlorinated Biphenyls
mg/kg	milligrams per kilogram
QA/QC	Quality assurance/quality control
RAOs	Remedial Action Objectives
RI	remedial investigation
ROD	Record of Decision
SCO	Soil cleanup objective
Town	Town of Oyster Bay
VOC	Volatile Organic Compound
USEPA	United States Environmental Protection Agency

1. Introduction

This Pre-Design Sampling and Remedial Alternative Evaluation Report for PCBs and Metals in Soil (Pre-Design Report) has been prepared by Arcadis of New York, Inc. (Arcadis), on behalf of Northrop Grumman Systems Corporation (Northrop Grumman), in accordance with the Order on Consent for Operable Unit 3 (OU3) (NYSDEC 2014) to provide the results of the pre-design sampling for polychlorinated biphenyls (PCBs) and for arsenic, cadmium, and chromium (metals) in soil. The pre-design sampling was conducted at the Bethpage Community Park (Park or Site) (**Figure 1**) and the adjacent McKay Field Access Road and former Plant 24 Access Road (collectively referred to as the Access Road) in Bethpage, New York. This report also evaluates the alternative remedial technology of soil washing (see Section 6, below).

This sampling focused on three areas either on or adjacent to the Park: 1) the western portion of the Park that was formerly used as a baseball field and is hereafter referred to as the "ball field"; 2) the eastern portion of the Park; and 3) the Access Road (**Figure 2**). The pre-design sampling activities were performed pursuant to the New York State Department of Environmental Conservation (NYSDEC)-approved Pre-Design Sampling Work Plan for PCBs (Work Plan) (EMAGIN 2014) and the NYSDEC-approved Work Plan Addenda (ARCADIS 2014, 2015a, 2015b; 2015c).

2. Background

As described in the Site Area Remedial Investigation (RI) Report (ARCADIS 2011a) and the Site Area Feasibility Study (FS) (ARCADIS 2011b), soil at the Park is impacted by PCBs and metals in excess of the NYSDEC Part 375 Soil Cleanup Objectives (SCOs) and the Commissioner's Policy (CP-51) Soil Cleanup Approach, collectively referred to in this report as the Record of Decision (ROD) SCOs. The areas of PCB and metal impacts on and adjacent to the Park were delineated for the purpose of the OU3 Site Area RI/FS. Following issuance of the FS, the OU3 ROD (NYSDEC 2013) selected a soil remedy for the Park and Access Road that includes the following requirements for PCB and metals remediation:

Park

- Remediate soil exceeding 50 milligrams per kilogram (mg/kg) total PCBs in the ball field and eastern portion of the Park.

- Remediate soil exceeding 1 mg/kg total PCBs in the upper 2 feet, exceeding 10 mg/kg PCBs from 2 to 10 feet, and exceeding restricted-residential SCOs (RRSCOs, per 6 NYCRR Part 375-6.4 (b)(2)) for metals from 0 to 10 feet in the "PCB removal area" (as referenced in the ROD).

- Remediate (excavate or cover) the "remaining soil" (as referenced in the ROD) in the upper two feet to achieve the 1 mg/kg SCO for total PCBs and the applicable RRSCOs for metals.

- Excavated soil with less than 50 mg/kg total PCBs may be stockpiled for reuse as backfill in the excavation areas deeper than 10 feet in accordance with an on-site soil reuse plan to be developed during the remedial design.

Access Road

- Remediate soil exceeding 1 mg/kg total PCBs in the upper 2 feet, exceeding 10 mg/kg total PCBs below 2 feet, and exceeding the RRSCO for chromium in the upper 2 feet.

- Excavated soil with less than 50 mg/kg total PCBs may be stockpiled for reuse as backfill in the excavation areas (in the Park) deeper than 10 feet in accordance with an on-site soil reuse plan to be developed during the remedial design.

3. Objectives of the Pre-Design Sampling

The pre-design sampling was conducted to meet the following objectives:

- Refine the characterization and delineation of total PCBs and metals for further evaluation of remedial alternatives and to support the design of the remedy;

- Re-evaluate the sustainability and cost effectiveness of the ROD remedy in consideration of the refined characterization and delineation; and

- Facilitate the evaluation of soil washing as an alternative technology.

4. Field Methods

Four sampling events were completed to meet the project objectives:

- Phase 1 sampling, to delineate PCBs and metals, as defined in the pre-design work plan;
- Phase 2 step out sampling, to further delineate PCBs and metals based on the Phase 1 results;
- Additional sampling and analysis for metals using the Toxicity Characteristic Leaching Procedure (TCLP), to provide waste characterization information; and
- Access Road step out sampling, to further delineate PCBs and metals in the Access Road.

Soil samples were collected using direct-push rigs equipped with Dual-Tube or Macro-Core® samplers (depending on sample depth). Samples were generally collected at 2-foot vertical intervals in each boring unless otherwise noted in the tables. **Figures 3A and 3B** show the sampling grid/boring locations for PCBs in the western and eastern portions of the Park and Access Road, respectively. **Figures 4A and 4B** show the same information for metals. **Table 1** summarizes the soil borings drilled, completion depths, and completion dates. Sample analyses were conducted at Eurofins Lancaster Laboratories Environmental (ELLE) of Lancaster, Pennsylvania, an Environmental Laboratory Accreditation Program (ELAP) New York State Department of Health (NYSDOH) certified laboratory. **Table 2** summarizes the samples analyzed by the laboratory.

4.1 Preliminary Activities

The following activities were conducted to prepare for sampling:

- A property access agreement was signed with the Town of Oyster Bay (Town) to conduct sampling and related activities on the Town's property.
- Vegetation was cleared from the ball field by the Town.
- The thickness of cover material (placed over the ball field by the Town in 2012 to allow the ball field area to be used for Town equipment storage) was measured

prior to sampling to adjust the sampling intervals to correspond to the original land surface.

- A sampling grid was prepared and sampling locations were staked, surveyed, and locations documented (**Figures 3A, 3B, 4A** and **4B**). The alphanumeric grid nodes specified the sample identification, with a few exceptions (**Tables 1** and **2**).

4.2 Phase 1 Sampling

Phase 1 of the pre-design sampling was conducted in the ball field, Access Road, and eastern portion of the Park from early November 2014 to mid-December 2014 in accordance with the NYSDEC-approved Work Plan (EMAGIN 2014) and Work Plan Addendum (ARCADIS 2014). Approximately 20 percent of the total Phase 1 soil samples collected were analyzed in the laboratory for total PCBs using a NYSDEC-approved PCB screening method (i.e., USEPA Modified Method 8082). Split samples were collected for approximately 15 percent of those PCB screening samples, which were submitted to the laboratory for confirmatory analysis using USEPA Method 8082. The remaining Phase 1 samples were analyzed in the laboratory for individual Aroclors using USEPA Method 8082. Soil samples were analyzed for metals using USEPA Method 6010C.

4.3 Phase 2 Step Out Sampling

Following review of the Phase 1 sampling results, it was determined that additional sampling was needed to further delineate PCBs and metals. Accordingly, step out borings were drilled and sampled from May 4 to May 13, 2015 in the ball field, Access Road, and eastern portion of the Park in accordance with the NYSDEC-approved Work Plan Addendum for Phase 2 Step Out Soil Sampling (PCBs and Metals) (ARCADIS 2015a).

At the request of the NYSDOH, surficial soil samples were collected in the playground area of the Park on April 24 and May 4, 2015 as part of the Phase 2 step out sampling. Sampling was conducted in accordance with the Phase 2 Addendum and consisted of collecting surficial soil samples (0-2 inches below land surface [bls]) by hand auger, followed by analysis for PCBs (one sample was also analyzed for chromium and cadmium).

4.4 TCLP Metals Sampling

Samples were collected in the ball field, Access Road, and eastern portion of the Park from May 7 to May 12, 2015 for analysis for metals using the TCLP (USEPA Methods 1311 and 6010C) and total metals (USEPA Method 6010C) in accordance with the NYSDEC-approved Work Plan Addendum for Additional Soil Sampling (TCLP volatile organic compounds [VOCs] and Metals) (ARCADIS 2015b). The purpose of these analyses was to evaluate if soil might potentially be classified as characteristically hazardous waste if excavated.

4.5 Access Road Step Out Sampling

Soil borings were drilled and sampled on July 6, 2015 to further delineate PCB and chromium impacts in the Access Road. This work was performed in accordance with the NYSDEC-approved Access Road Step Out Work Plan Addendum (ARCADIS 2015c).

4.6 Field and Laboratory Documentation

Field logs and back-up documentation are provided in the following appendices:

- **Appendix A – Sample/Core Logs**

- **Appendix B – Community Air Monitoring Data**
  Air monitoring for particulates (i.e., dust) was performed in accordance with the Community Air Monitoring Plan referenced in the Work Plan.

- **Appendix C – IDW Characterization Data and Disposal Manifests**
  Investigation derived waste (IDW) produced during sampling activities was collected, containerized, and temporarily stored at the Northrop Grumman facility before being characterized (as required by the disposal facility) and disposed off-site at an approved facility.

- **Appendix D – Data Usability Summary Reports (DUSRs)**
  The DUSR evaluates the analytical data to determine if it meets the site-specific criteria for data quality and use.

- **Appendix E – Laboratory Reports**

5. Results and Interpretation

This section summarizes the results of the pre-design sampling. **Tables 3** and **4** provide, respectively, the Modified Method 8082 screening results for total PCBs and Method 8082 results for individual Aroclors. **Table 5** provides a comparison of the results from Modified Method 8082 to Method 8082, relative to the applicable CP-51 criteria. **Table 6** provides PCB quality assurance/quality control (QA/QC) sample results. **Tables 7** and **8** provide, respectively, the metals results and metals QA/QC sample results. **Table 9** provides the TCLP sample results.

The horizontal distribution of PCBs in soil over three depth intervals (0-2 feet, 2-10 feet, and greater than 10 feet bls) is presented on **Figures 5A** and **5B,** and the vertical PCB distribution is presented on **Figure 6**. The horizontal distribution of metals (collective maximum extent of cadmium, chromium, and arsenic) in soil over two depth intervals (0-2 feet and 2-10 feet bls) is presented on **Figures 7A** and **7B**. An Earth Volumetric Studio (EVS) model was used to contour the data in three dimensions and to assist in development of the conceptual remedial approach. The contours produced by the EVS model were then reviewed and modified based on experience and Site conditions. Data evaluated in this section include both historical data (e.g., OU3 RI) and data from the pre-design sampling.

5.1 Data Quality Review

5.1.1 PCB Screening Samples

The quality of the PCB screening samples was evaluated by laboratory personnel, who confirmed the method, standard operating procedure (SOP) and Quality Assurance Plan (QAP) criteria were met.

Approximately 15 percent of the screening samples (Modified Method 8082) were submitted for confirmatory analysis by Method 8082. A summary of the comparison is provided in **Table 5**, which demonstrates that the results of the Modified Method 8082 and Method 8082 are in agreement approximately 90 percent of the time. Based on this agreement, the Modified Method 8082 and Method 8082 results are considered acceptable for meeting the objectives described in Section 3.

5.1.2 PCB Laboratory Samples

In accordance with NYSDEC-approved Work Plan and NYSDEC requirements, the quality of the fixed-base laboratory data was evaluated by the Arcadis validator by examining the laboratory's internal QA/QC laboratory-established acceptance limits. Initial and continuing calibration, surrogate, matrix spikes, laboratory control samples and method blanks were performed for every 20 samples analyzed; these parameters were evaluated during data validation. Acceptance criteria defined by quality assurance project plan (QAPP)-specified validation guidelines and the laboratory SOP criteria were met. Approximately 15 percent of the total samples collected were validated.

5.1.3 Metals Samples

In accordance with NYSDEC-approved Work Plan and NYSDEC requirements, the quality of the fixed-base laboratory data was evaluated by the data validator by examining laboratory's internal QA/QC laboratory-established acceptance limits. Evaluated parameters were initial and continuing verification, contract required detection limit (CRDL) standard check, sample interference control sample, matrix spike, laboratory duplicate and laboratory control sample, calibration/method blank and serial dilution. Acceptance criteria defined by the QAPP-specified validation guidelines and the laboratory SOP criteria were met. Approximately 15 percent of the total samples collected were validated.

5.2 Distribution of PCBs and Metals in Ball Field

The distributions of PCBs and metals in ball field soil (**Figures 5A, 6, and 7A**) have the following characteristics relative to the criteria set forth in the OU3 ROD:

<u>0 to 2 foot bls interval:</u> PCBs exceeding the 1 mg/kg cleanup objective are prevalent in the northern half of the ball field. Metals exceeding RRSCOs are found in the northern quarter of the ball field.

<u>2 to 10 foot bls interval</u>: PCBs exceeding the 10 mg/kg cleanup objective and metals exceeding RRSCOs are present across the majority of the ball field.

<u>Deeper than 10 feet bls</u>: total PCBs exceeding the 50 mg/kg cleanup objective are present in the central portion of the ball field. As shown in cross section view (**Figure 6**), PCBs exceeding the 50 mg/kg cleanup objective were found from approximately 3

to 25 feet bls, with the deepest exceedances located in the western portion of the ball field.

5.3 Distribution of PCBs and Metals in Eastern Portion of Park

The distributions of PCBs and metals in the eastern portion of the Park (**Figures 5B and 7B**) have the following characteristics relative to the criteria set forth in the OU3 ROD:

0 to 2 foot bls interval: PCBs exceeding the 1 mg/kg cleanup objective are found in a few localized areas east of the playground and south and east of the pool area. Metals exceeding RRSCOs are predominantly found in the western portion of the playground.

2 to 10 foot bls interval: PCBs exceeding the 10 mg/kg cleanup objective are found in a few localized areas. Metals exceeding RRSCOs are predominantly found in the western portion of the playground.

Deeper than 10 feet bls: PCBs exceeding the 50 mg/kg cleanup objective are found in a few localized areas in the playground area and the eastern Park boundary.

Surficial samples in Park playground area: PCBs exceeding the 1 mg/kg cleanup objective are found in surficial soil (0-2 inches bls) east and southeast of the playground area (playground is underlain by a rubberized surface). The data were transmitted to NYSDEC and NYSDOH on May 1, 2015. In a May 13, 2015 correspondence to the Town, the NYSDOH concluded that "these exceedances do not suggest a need to restrict access to the playground equipment, or the grassed area just outside the fence".

5.4 Distribution of PCBs and Metals in Access Road

The distributions of PCBs and metals in the Access Road (**Figures 5A, 5B, 7A,** and **7B**) have the following characteristics relative to the criteria set forth in the OU3 ROD:

0 to 2 foot bls interval: PCBs exceeding the 1 mg/kg cleanup objective are found mostly in the eastern portion of the former Plant 24 Access Road, with a few exceedances on the McKay Field Access Road. Metals exceeding RRSCOs are found in five localized areas spread out along the former Plant 24 Access Road, and one small area on the McKay Field Access Road.

2 to 10 foot bls interval: PCBs exceeding the 10 mg/kg cleanup objective are found in a few localized areas in the eastern portion of the former Plant 24 Access Road. No exceedances are identified on the McKay Field Access Road. Metals exceeding RSCOs are found in five localized areas spread out along the former Plant 24 Access Road, and are not found on the McKay Field Access Road.

Deeper than 10 ft bls: PCBs exceeding the 50 mg/kg cleanup objective are found in one area in the eastern portion of the Plant 24 Access Road.

5.5 TCLP Evaluation

Samples were collected for analysis of TCLP arsenic, cadmium, and chromium, as presented in **Table 9** and summarized below:

- Cadmium exceeded the TCLP criterion in 3 of the 14 samples analyzed.
- Arsenic and chromium did not exceed TCLP criteria in the samples analyzed.

If needed for evaluating possible soil treatment/disposal approaches, further TCLP characterization of soil with elevated metals concentrations may be conducted.

6. Remedial Alternative Evaluation

6.1 Introduction

This section provides an evaluation of a remedial alternative that augments a portion of the OU3 ROD remedy for addressing Park and Access Road soil containing PCBs, metals, and other parameters above the applicable remedial action objectives (RAOs). Accordingly, this section includes the following discussions:

- Application of, and conceptual design for, the remedial technologies selected in the ROD for soil excavation and capping of surface soil; and
- Evaluation and conceptual design for an alternative remedial technology, soil washing, which would be used to augment the remedy selected in the OU3 ROD by treating the excavated soil, thereby reducing the volume of soil that would otherwise require off-site disposal.

As described above in Section 5, and provided in **Tables 3, 4, 7** and **8** and **Figures 5A** and **5B, 6,** and **7A** and **7B**, PCBs and metals greater than RAOs are present in Park

and Access Road soil covering an area of approximately 4 acres and consisting of a volume of approximately 24,200 cubic yards. PCBs greater than RAOs are present in Park soil in three depth intervals (0 to 2 ft bls, 2 to 10 ft bls, and 10 to 25 ft bls) and metals greater than RAOs are present in Park soil in two depth intervals (0 to 2 ft bls and 2 to 10 ft bls). PCBs greater than RAOs are present in Access Road soil in two depth intervals (0 to 2 ft bls and 2 to 10 ft bls) and chromium greater than its RAO is present in one depth interval (0 to 2 ft bls). A summary of the nature and extent of impacts is provided in **Table 10**.

The RAOs for the Park and Access Road are as follows:

Park

- Remediate soil exceeding 50 mg/kg total PCBs in the ball field and the eastern portion of the Park.

- Remediate soil in the "PCB removal area" exceeding 1 mg/kg total PCBs in the upper 2 feet, exceeding 10 mg/kg total PCBs from 2 to 10 feet, and exceeding RRSCOs for metals from 0 to 10 feet.

- Remediate (excavate or cover) the "remaining soil" (as referenced in the ROD) in the upper two feet to achieve the 1 mg/kg SCO for total PCBs and the applicable RRSCOs for metals.

- Excavated soil may be reused as backfill or cover as provided in the ROD (in accordance with an on-site soil reuse plan to be developed during the remedial design) as follows:

    - Soil with less than 50 mg/kg total PCBs and does not exceed TCLP for metals may be reused in excavation areas deeper than 10 feet in the Park;
    - Soil with less than 10 mg/kg total PCBs and does not exceed the RRSCOs for metals may be reused in excavation areas between 2 and 10 feet in the Park or Access Road.
    - Soil with less than 1 mg/kg total PCBs and does not exceed RRSCOs for metals may be reused as backfill or cover material at depths shallower than 2 feet in the Park or Access Road.

Access Road

- Remediate soil exceeding 1 mg/kg total PCBs in the upper 2 feet, exceeding 10 mg/kg total PCBs below 2 feet, and exceeding the RRSCO for chromium in the upper 2 feet.

- Excavated soil may be reused as backfill or cover (in accordance with an on-site soil reuse plan to be developed during the remedial design) as described above.

6.2 Summary of Remedial Technologies

Technologies for remediation of the Park and Access Road soil discussed in this report are as follows:

- Soil excavation with allowance for on-site reuse of soil that meets re-use requirements, as directed by the OU3 ROD;

- Soil washing, as an alternative technology augmenting the OU3 ROD remedy, which includes ex-situ soil treatment, on-site reuse of treated soil that meets reuse requirements, and limited off-site disposal of soil that does not meet reuse requirements (e.g., fines cake produced by the soil washing process, unwashable soil, and potentially, soil that does not meet reuse criteria following soil washing).

- Capping/covering of soil with asphalt, concrete, or clean soil (i.e., less than 1 mg/kg total PCBs and less than RRSCOs for metals), as directed by the OU3 ROD.

A summary of the remedial technologies, by remedial area, is provided in **Table 11**. These remedial technologies are protective of public health and the environment, will meet applicable RAOs in both the short term and long term, will achieve permanent and significant reduction of toxicity, mobility, and volume, and are technically and administratively feasible to implement. The following sections describe the conceptual designs for the above remedial technologies.

Both the ROD remedy and the alternate remedy described herein would include the remediation of PCBs at concentrations of 50 mg/kg or greater, and thus would require submittal of an application to the U.S. EPA for a risk-based disposal under 40 CFR 761.61(c) and the agency's written approval of the remedy as set forth in this report.

6.3 Conceptual Design - Soil Excavation

A conceptual excavation plan is provided on **Figure 8;** a detailed excavation plan would be developed as part of the remedial design. Soil excavation depths would vary from a minimum of 2 feet bls, to a maximum of 25 feet bls, consistent with achieving the soil RAOs specified in the OU3 ROD. Excavations shallower than 20 feet would be benched and sloped, as needed, to ensure excavation safety. Excavations at depths greater than 20 feet that could not be benched and sloped would utilize sheeting and shoring methods to provide the necessary protections.

Based on the conceptual plan, an estimated total of 59,000 cubic yards of soil would be excavated, including PCB- and metals-impacted soil, overlying soil removed to gain access to impacted soil, and soil removed outside the excavation limits for benching and sloping. Excavated soil would be managed, as appropriate, to allow for initial segregation and stockpiling, as follows:

- Characteristically hazardous for metals and total PCB concentration greater than 1,000 mg/kg. The remedial objective for this soil would be soil washing to meet reuse criteria in accordance with an approved on-site soil reuse plan.

- Characteristically hazardous for metals and total PCB concentration less than 1,000 mg/kg. The remedial objective for this soil would be soil washing to meet approved soil reuse criteria.

- Non-hazardous for metals and total PCB concentration greater than 50 mg/kg. The remedial objective for this soil would be soil washing to meet approved soil reuse criteria.

- Non-hazardous for metals and total PCB concentration less than 50 mg/kg. The remedial objective for this soil would be soil washing to meet approved soil reuse criteria or, if it qualifies, direct reuse (without washing).

- Less than RRSCOs for metals and total PCB concentration less than 1 mg/kg (i.e., un-impacted soil). The remedial objective for this soil would be direct reuse (without washing).

- Unsuitable soil that would not be processed by the soil washing plant would include sludge-like material or other deleterious material (e.g., rocks, debris, fill).

The remedial objective for this soil would be direct reuse or transportation to an off-site licensed facility.

Following initial segregation, the soil would be blended into a feed stockpile for the soil washing process. The purpose of this blending would be to assure that a consistent constituent concentration would be processed by the soil washing plant (Section 6.4). This blending practice is a typical engineering control process to assure consistent soil quality and minimize variations in concentrations in the feed soils that are processed by the soil washing plant.

Soil meeting any of the above criteria that cannot be washed would be segregated and transported to an off-site licensed facility, as appropriate.

6.4 Conceptual Design - Soil Washing

6.4.1 Soil Washing Technology Description

A conceptual process flow diagram for the soil washing technology is provided on **Figure 9**. Soil washing, which involves ex-situ treatment of excavated soil, can address a wide range of substances including PCBs, metals, semi-volatile organics, and VOCs. The technology includes physical and hydraulic processes to separate the soil into its various size fractions and, as applicable, chemical treatment processes. The primary objectives of the soil washing process would be to reduce the volume of impacted soil that requires off-site disposal and to maximize the volume that could be reused on site. In most cases, substances adsorb to the fine soil fractions (i.e., silts and clays), and when these fractions are physically separated from the coarser soil fractions (i.e., sand and gravel) during soil washing, the overall volume of soil requiring off-site disposal can be substantially reduced.

Soil washing technology has been used at sites across the U.S. and is even more widely used in Europe. Soil washing has been selected for use at over two dozen U.S. EPA Superfund sites. Various guidelines and documents regarding soil washing have been published over the last two decades by the U.S. EPA, the New Jersey Department of Environmental Protection, the Interstate Technology and Regulatory Council (ITRC 1997) and others (see listings in references in Section 8 below). One of the first soil washing projects in the U.S. was completed at the King of Prussia Superfund site in New Jersey, which demonstrated that the technology was effective in reducing impacted soil volume by 90 percent. Since that time, soil washing has been used successfully to address soil impacted with:

- Hydrocarbons (e.g., crude oil, diesel, coal tars)
- Other organics (e.g., PCBs, pesticides, chlorinated solvents, TNT, phthalates, cyanide)
- Heavy metals (e.g., lead, arsenic, chromium, nickel, cadmium, mercury)
- Radionuclides (e.g., uranium, radium, cesium, thorium)

Soil washing has a proven ability to remove the substances associated with the Site, including PCBs, metals, and VOCs, and has shown significant reductions (up to 95 percent) in the volume of soil requiring off-site disposal. Performance data for three projects with substances and soil conditions similar to the Site are provided below.

Site and Location	Soil Volume Treated (tons)	Compounds Treated and Treatment Performance	Volume Reduction
Springfield Township Site, Michigan	13,600	PCBs (95% removal) Arsenic (78% removal) Barium (95% removal) Lead (93% removal)	80%
King of Prussia Site, New Jersey	19,200	Chromium (>95% removal) Copper (>95% removal) Nickel (>95% removal)	90%
Vineland Chemical Co. Superfund Site, Vineland, NJ	410,000	Arsenic (95% removal)	95%

Each soil washing treatment system is designed based on the unique soil conditions and remedial goals of a site. Soil washing may include a combination of technologies including soil separation, density separation, attrition scrubbing, flotation, surfactant washing, and chemical extraction.

The key to success with soil washing is understanding the site-specific relationship between the soil matrix and the substances in the soil. In most cases the physical separation of the fines (described below) will generally remove the substances, whether they are organics (e.g., PCBs) or inorganics (e.g., metals). The design of a soil washing plant is, therefore, heavily dependent upon a thorough understanding of the soil make-up, the occurrence and distribution of substances within the soil matrix, and the separation characteristics of the soil. For this reason, bench scale tests and an optimization study (described below) are used to evaluate the feasibility of a soil washing treatment system.

The NYSDEC would determine whether an Explanation of Significant Difference (ESD) or minor change to the OU3 ROD would be required to adopt the soil washing technology.

6.4.2 Results of Bench Scale Testing

Bench testing was performed to evaluate the treatability of PCBs, metals, and VOCs in representative samples from the ball field area of the Park. Four composite soil samples were collected and a particle size distribution was determined based on mechanical sieving, with the results shown in the table below.

Soil Fraction	Soil Fraction Percentage (By Weight)
Gravel (>2.0 mm)	36.2%
Sand (0.063 – 2.0 mm)	57.0%
Fines (<0.038 mm)	6.8%
Total	**100%**

Based on these data, the soil exhibits a very low percentage (6.8%) of fines. This is a favorable finding because soil washing is most effective when the impacts are associated with a soil fraction that is a small percentage of the total and the soil contains a low percentage of fine-grained particles. After separation, the three soil fractions from each composite sample were analyzed for PCBs, metals, and VOCs. In three of the four samples tested, the PCBs, metals, and VOCs, were found to be present mainly in the fines fraction. The concentrations of those constituents found in the coarser sand and gravel fractions were below the aforementioned reuse criteria for backfill at depths greater than 2 feet bls. The fourth sample exhibited chromium at a level that would require additional soil washing treatment before it would meet reuse criteria.

The bench scale results were favorable and indicate that the Site soil is well suited for soil washing. Further, it is expected that the amount of soil that is washed and returned to the Site would exceed 90 percent of the excavated soil on a dry weight basis. As part of the remedial design, additional bench testing would be performed as part of an optimization study (described below) to design a full-scale soil washing process for consistently meeting applicable reuse criteria in the treated soil.

6.4.3 Optimization Study and Remedial Design

As part of the remedial design, an optimization study would be required to design the full-scale soil washing process to address site-specific conditions and to establish performance criteria so that RAOs could be consistently achieved. During the optimization study, additional site-specific data (e.g., evaluation of soil cores for particle size distribution and chemical concentrations) would be collected and evaluated to develop the design for the full-scale soil washing system. Accordingly, the optimization study would confirm the soil washing plant process units required in the final design and identify the critical parameters (e.g., processing rate, process retention times, chemical reaction rates, the amount of soil scrubbing energy required, and stabilization requirements for the fines fraction) necessary for sizing the process equipment.

The optimization study would likely consist of the following:

- Drill additional soil borings;
- Evaluate the soil cores to assess grain size distribution, parameter concentration data, and compare variability from the first bench test results;
- Perform bench-level process simulations and optimization tests as follows:
  - Simulate the physical separation processes and verify results from the first bench test;
  - Perform oxidation tests, as needed, to verify chemical dosages and retention times required to achieve chemical treatment, should it be required;
  - Complete stabilization test on the fines fraction, as needed, to identify any chemical types and dosages that may be needed; and,
  - Complete any other testing that may be required to identify design parameters for the full-size equipment.

Following completion of the optimization study, the remedial design would be completed, which would generally consist of the following:

- List of permits/equivalencies;
- Excavation/backfilling plan;
- Sample analysis/testing plan;
- Equipment specifications including process and equipment layout; and
- Site restoration plan.

Additional design and implementation details are described in the following sections.

6.5 Remedy Implementation

Prior to implementation of the remedy, applicable federal, state, and local permits and approvals (or equivalencies) would be obtained to ensure the project complies with pertinent regulations and requirements.

6.5.1 Excavation and Soil Washing Operations

Soil excavation depths would vary from 2 feet bls to 25 feet bls with excavations benched and sloped, as needed, to ensure excavation safety. Excavations that could not be benched and sloped would utilize sheeting and shoring methods to provide the necessary protections.

Based on the conceptual plan, an estimated total of 59,000 cubic yards of soil would be excavated (including PCB- and metals-impacted soil, overlying soil removed to gain access to impacted soil, and soil removed outside the excavation limits for benching and sloping). Excavated soil would be managed as appropriate to allow for initial segregation, as described in Section 6.3.

Construction of the soil washing plant would include the necessary infrastructure for system operations (e.g., power, water, utilities). The soil washing plant is anticipated to be located on McKay field, northwest of the ball field **(Figure 8)**. The plant would be constructed of modular components to the extent practicable. Excavated soil would be loaded into dump trucks, if non-hazardous, or roll-off containers, if hazardous, and then transferred from the Park to the soil washing plant area. The access road between the Park and the soil washing plant (McKay field) would be used for the trucks; a relatively short distance of approximately 600 feet.

The impacted soil would be stockpiled or stored in roll-off containers near the feed hopper of the soil washing plant to await processing. Excavated soil would be blended prior to treatment to achieve relatively uniform parameter concentrations in the feedstock entering the soil washing plant. Heavy equipment (e.g., front-end loader) would load the feed hopper and soil would be conveyed into the soil washing plant. The soil would be segregated into various fractions through mechanical/hydraulic separation and screening and, if needed, chemical treatment would be performed. Water used during the hydraulic separation would be treated and recycled through the soil washing process. VOCs and dust that may be generated in the processing units would be controlled and treated. Washed sands and gravels would be stockpiled and

samples would be collected to verify that they are ready for reuse and transfer back to the Site for backfilling, per the approved on-site soil reuse plan.

The soil washing process would be completed concurrently with soil excavation so that there is a constant flow of material. An estimated 20,700 cubic yards of soil would be washed and reused on-site. Washed soil determined to not meet the applicable reuse criteria under the soil reuse plan would be further washed until it meets the reuse criteria. If the reuse criteria could not be met through further washing, the soil would be transported off-site to a permitted facility unless another approach is approved by NYSDEC. Another estimated 2,300 cubic yards of fines filter cake (approximately 10 percent by wet weight of the total soil treated) would be produced by the soil washing process and disposed off-site. An additional 300 cubic yards would not be able to be soil washed due to soil type (i.e., silt, clay, or sludge-like material) and would also be disposed off-site. Any off-site disposal of soil with a concentration of 50 mg/kg PCBs or greater would need to be disposed at a TSCA-permitted facility. An estimated soil volume of 35,700 cubic yards would be reused on-site without being soil washed. Following soil washing, the treated soil fractions would be stockpiled in an area dedicated for treated soil pending receipt of analytical results confirming that the soil meets the applicable reuse criteria for backfill or cover.

Based on the conceptual soil washing design presented herein, the estimated duration of the excavation and soil washing remedy, including backfilling and cover installation (see discussions below), is estimated to be 6 to 8 months, assuming a single work shift.

Waste produced from the soil washing process would consist mainly of the fines fraction. Other waste fractions that may be generated include wash water and some soil that may be segregated and not processed within the soil washing plant. The system design would contain applicable testing requirements, a handling plan, and off-site disposal requirements for the wastes that would be generated.

Excavation and soil washing operations would be conducted in accordance with an appropriate air monitoring program and a Site-Specific Health & Safety Plan.

6.5.2 Backfilling of Excavated Areas

Excavated areas in the Park and Access Road would be backfilled with soil that meets the on-site soil reuse criteria described in Section 6.1 and contained in a more specific

soil re-use plan that would be completed as part of the remedial design. Backfill would consist of the following materials, as appropriate:

- Excavated soil that is tested and found to meet applicable criteria for reuse without the need for soil washing;
- Excavated soil that is washed, tested, and found to meet applicable criteria for reuse.
- Imported clean fill meeting the above-referenced reuse criteria.

The design would address handling, placement, and proper compaction of backfill and cover material in the Park and Access Road.

6.5.3 Soil Cover/Cap and Site Restoration

The OU3 ROD specifies that a site cover would be used in areas where the upper two feet of exposed surface soil would exceed the applicable SCOs. The cover would consist of either structures such as asphalt, sidewalks, or buildings, or an installed soil cover. Where the soil cover is required, it would be a minimum of two feet in thickness and would meet cover material requirements as set forth in 6 NYCRR Part 375-6.7(d) for restricted residential use. The soil cover would be placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Vegetation would be planted in soil covered areas to prevent erosion, as necessary.

7. Conclusions

The following conclusions are made based on the data provided in this report:

- The pre-design sampling has achieved its stated objectives of refining the characterization and delineation of PCBs and metals in soil and supporting the design of the remedy.
- The results of the sampling confirmed that PCBs and metals are present in Park and Access Road soil at concentrations above their applicable remedial requirements.
- The estimated total volume of soil with PCBs and metals greater than applicable remedial requirements in the Park and Access Road is 24,200 cubic yards.

- Based on the results of bench testing, soil washing would be an effective remedial technology that would meet the RAOs. Soil washing, a technology that has been used for several decades on similar sites, may be used to augment the remedy selected in the OU3 ROD by treating the excavated soil on McKay Field.

- The remedy evaluation in this report concentrates on soil washing as a viable alternative to the OU3 ROD remedy, which specifies soil excavation and off-site disposal. This evaluation notwithstanding, Northrop Grumman reserves its option to implement the OU3 ROD remedy for soil or other remedial alternative approved by NYSDEC.

- The usual procedure of conducting an optimization study of the soil washing technology (or other comparable technology) would be performed as part of remedial design. In the case of soil washing, the study would be used to adjust the technology and finalize the design to maximize the volume reduction by the full-scale soil washing system.

- If approved, the NYSDEC would determine whether an ESD or minor change to the OU3 ROD is required to adopt the soil washing technology.

- Both the ROD remedy and soil washing alternative would include remediation of PCBs of 50 mg/kg or greater. This would require submittal of an application to the U.S. EPA for a risk-based disposal under 40 CFR 761.61(c) and the agency's written approval of the remedy as set forth in this report.

8. References

ARCADIS 2011a. Remedial Investigation Report (Site Area). Operable Unit 3 – Former Grumman Settling Ponds, Bethpage, New York. February 8, 2011.

ARCADIS 2011b. Site Area Feasibility Study, Operable Unit 3 – Former Grumman Settling Ponds, Bethpage, New York. March 4, 2011.

ARCADIS 2014. Remedial Investigation Report (Site Area). Operable Unit 3 – Former Grumman Settling Ponds, Bethpage, New York. February 8, 2011.

ARCADIS 2015a. Work Plan Addendum for Phase 2 Step Out Soil Sampling (PCBs and Metals), Operable Unit 3, Former Grumman Settling Ponds, Bethpage, New York. May 26, 2015.

ARCADIS 2015b. Work Plan Addendum for Additional Soil Sampling (TCLP VOCs and Metals), Operable Unit 3, Former Grumman Settling Ponds, Bethpage, New York. April 29, 2015.

ARCADIS 2015c. Access Road Step Out Work Plan Addendum Operable Unit 3, Former Grumman Settling Ponds, Bethpage, New York. July 6, 2015.

EMAGIN 2014. Pre-Design Sampling Work Plan for VOC Source Area. Operable Unit 3, Former Grumman Settling Ponds, Bethpage, New York. May 1, 2014.

Interstate Technology and Regulatory Council (ITRC). December 1997. Technical and Regulatory Guidelines for Soil Washing,

New Jersey Department of Environmental Protection January 1998. Guidance Document for the Remediation of Contaminated Soils.

New York State Department of Environmental Conservation (NYSDEC). 2013. Operable Unit 3 Record of Decision. October 2013.

New York State Department of Environmental Conservation (NYSDEC). 2014. Order On Consent. May 2014.

United States Environmental Protection Agency (USEPA). May 2001. A Citizen's Guide to Soil Washing

ARCADIS

Tables

Table 1. PCBs and Metals Sample Summary, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Sampling Event / Area [1]	Area ID [1]	Boring ID [2] [3]	Interval Sampled [4] (ft bls)	Boring Completion Date	Samples Analyzed For	
					PCBs	Metals
Phase 1 Sampling						
Access Road E	1	nAM-23-14	0 - 2	11/4/2014	X	X
Access Road E	1	nAO-24-14	0 - 2	11/4/2014	X	X
Access Road E	1	nAQ-25-14	0 - 2	11/4/2014	X	X
Access Road E	1	nAQ-26-14	0 - 2	11/4/2014	X	X
Access Road E	1/2	nAR-24-14	0 - 10	11/4/2014	X	X
Access Road E	1/2	nBB-24-14	0 - 10	11/4/2014	X	X
Access Road E	1/2	nAW-25-14	0 - 10	11/4/2014	X	X
Access Road E	1/2	nBB-25-14	0 - 10	11/4/2014	X	X
Access Road W	1	nZZB-11-14	0 - 2	11/4/2014	X	X
Access Road W	1	nZZC-11-14	0 - 2	11/4/2014	X	X
Access Road W	1	nZZB-14-14	0 - 2	11/4/2014	X	X
Access Road W	1	nZZC-14-14	0 - 2	11/4/2014	X	X
Access Road W	1	nZZB-17-14	0 - 2	11/4/2014	X	X
Access Road W	1	nZZC-17-14	0 - 2	11/4/2014	X	X
Access Road W	1	nZZB-21-14	0 - 2	11/4/2014	X	X
Access Road W	1	nZZC-21-14	0 - 2	11/4/2014	X	X
Access Road W	1	nR-23-14	0 - 2	11/4/2014	X	X
Access Road W	1	nU-23-14	0 - 2	11/4/2014	X	X
Access Road W	1	nV-23-14	0 - 2	11/4/2014	X	X
Access Road W	1	nA-24-14	0 - 2	11/4/2014	X	X
Access Road W	1	nAA-24-14	0 - 2	11/4/2014	X	X
Access Road W	1	nAG-24-14	0 - 2	11/4/2014	X	X
Access Road W	1	nAI-24-14	0 - 2	11/4/2014	X	X
Access Road W	1	nN-24-14	0 - 2	11/4/2014	X	X
Access Road W	1	nO-24-14	0 - 2	11/4/2014	X	X
Access Road W	1	nP-24-14	0 - 2	11/4/2014	X	X
Access Road W	1	nW-24-14	0 - 2	11/4/2014	X	X
Access Road W	1	nAB-25-14	0 - 2	11/4/2014	X	X
Access Road W	1	nAE-25-14	0 - 2	11/4/2014	X	X
Access Road W	1	nAG-25-14	0 - 2	11/4/2014	X	X
Access Road W	1	nAK-25-14	0 - 2	11/4/2014	X	X
Access Road W	1	nA-25-14	0 - 2	11/4/2014	X	X
Access Road W	1	nD-25-14	0 - 2	11/4/2014	X	X
Access Road W	1	nN-25-14	0 - 2	11/4/2014	X	X
Access Road W	1	nZZB-25-14	0 - 2	11/4/2014	X	X
Access Road W	1	nAB-26-14	0 - 2	11/4/2014	X	X
Access Road W	1	nAE-26-14	0 - 2	11/4/2014	X	X
Access Road W	1	nD-26-14	0 - 2	11/4/2014	X	X
Ball Field	2	G-8-14	0 - 30	11/6/2014	X	X
Ball Field	2	L-12-14	0 - 10	11/6/2014	X	X
Ball Field	2	N-12-14	0 - 10	11/6/2014	X	X
Ball Field	2	K-3-14	0 - 10	11/7/2014	X	X
Ball Field	2	K-4-14	0 - 10	11/7/2014	X	X
Ball Field	2	J-4-14	0 - 10	11/7/2014	X	X
Ball Field	2	K-10-14	0 - 10	11/7/2014	X	X
Ball Field	1	C-10-14(4)	0 - 10	11/10/2014	X	X
Ball Field	1	C-14-14	0 - 10	11/10/2014	X	X
Ball Field	2	E-8-14	0 - 10	11/10/2014	X	X
Ball Field	2	F-9-14	0 - 10	11/10/2014	X	X
Ball Field	3	C-12-14	0 - 18	11/10/2014	X	
Ball Field	3	D-13-14	0 - 20	11/10/2014	X	
Ball Field	3	E-14-14(4)	0 - 20	11/10/2014	X	
Ball Field	3	E-16-14(4)	0 - 20	11/10/2014	X	
Ball Field	4	D-11-14	0 - 24	11/10/2014	X	
Ball Field	4	E-12-14	0 - 24	11/10/2014	X	
Ball Field	6	E-10-14	0 - 24	11/10/2014	X	X
Ball Field	6	F-11-14	0 - 24	11/10/2014	X	X
Ball Field	2	H-9-14	0 - 10	11/12/2014	X	X
Ball Field	3	F-17-14(4)	0 - 20	11/12/2014	X	
Ball Field	3	G-16-14(4)	0 - 20	11/12/2014	X	
Ball Field	4	F-13-14(4)	0 - 24	11/12/2014	X	
Ball Field	4	G-12-14	0 - 24	11/12/2014	X	

Footnotes on last page.

Table 1. PCBs and Metals Sample Summary, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Sampling Event / Area [1]	Area ID [1]	Boring ID [2] [3]	Interval Sampled [4] (ft bls)	Boring Completion Date	Samples Analyzed For	
					PCBs	Metals
Ball Field	4	G-14-14	0 - 24	11/12/2014	X	
Ball Field	5	F-15-14	0 - 20	11/12/2014	X	X
Ball Field	6	G-10-14	0 - 24	11/12/2014	X	X
Ball Field	1	I-16-14	0 - 10	11/13/2014	X	X
Ball Field	2	I-8-14	0 - 10	11/13/2014	X	X
Ball Field	2	J-9-14	0 - 10	11/13/2014	X	X
Ball Field	2	J-18-14	0 - 10	11/13/2014	X	X
Ball Field	3	H-15-14(4)	0 - 20	11/13/2014	X	
Ball Field	4	H-13-14	0 - 22	11/13/2014	X	
Ball Field	4	I-14-14	0 - 22	11/13/2014	X	
Ball Field	6	H-11-14	0 - 22	11/13/2014	X	X
Ball Field	6	I-10-14	0 - 22	11/13/2014	X	X
Ball Field	6	I-12-14	0 - 22	11/13/2014	X	X
Ball Field	6	J-11-14	0 - 22	11/13/2014	X	X
Ball Field	1	K-8-14	0 - 10	11/14/2014	X	X
Ball Field	1	K-14-14	0 - 10	11/14/2014	X	X
Ball Field	1	U-18-14	0 - 10	11/14/2014	X	X
Ball Field	1	W-18-14	0 - 10	11/14/2014	X	X
Ball Field	1	Y-18-14	0 - 10	11/14/2014	X	X
Ball Field	2	J-20-14	0 - 10	11/14/2014	X	X
Ball Field	2	K-19-14	0 - 10	11/14/2014	X	X
Ball Field	2	K-21-14	0 - 10	11/14/2014	X	X
Ball Field	2	L-18-14	0 - 10	11/14/2014	X	X
Ball Field	2	M-18-14	0 - 10	11/14/2014	X	X
Ball Field	2	M-21-14	0 - 10	11/14/2014	X	X
Ball Field	2	N-19-14	0 - 6	11/14/2014	X	X
Ball Field	5	L-20-14	0 - 14	11/14/2014	X	X
Ball Field	8	S-18-14	0 - 2	11/14/2014	X	X
Ball Field	8	S-20-14	0 - 2	11/14/2014	X	X
Ball Field	8	S-22-14	0 - 2	11/14/2014	X	X
Ball Field	8	U-20-14	0 - 2	11/14/2014	X	X
Ball Field	8	U-22-14	0 - 2	11/14/2014	X	X
Eastern Park	1	nAH-22-14	0 - 10	11/17/2014	X	
Eastern Park	1	nAH-23-14	0 - 10	11/17/2014	X	
Eastern Park	1	nAI-23-14	0 - 10	11/17/2014	X	
Eastern Park	2	nAG-18-14	0 - 2	11/17/2014	X	
Eastern Park	2	nAJ-17-14	0 - 2	11/17/2014	X	
Eastern Park	2	nAH-19-14	0 - 2	11/17/2014	X	
Eastern Park	2	nAG-19-14	0 - 2	11/17/2014	X	
Eastern Park	2	nAJ-19-14	0 - 2	11/17/2014	X	
Eastern Park	2	nAH-20-14	0 - 2	11/17/2014	X	
Eastern Park	2	nAF-21-14	0 - 2	11/17/2014	X	
Eastern Park	2	nAI-21-14	0 - 2	11/17/2014	X	
Ball Field	2	C-5-14(4)	0 - 10	12/3/2014	X	X
Ball Field	2	C-6-14(4)	0 - 10	12/3/2014	X	X
Ball Field	2	N-20-14	0 - 4	12/3/2014	X	X
Ball Field	1	A-14-14	0 - 10	12/3/2014	X	X
Ball Field	1	C-4-14	0 - 10	12/3/2014	X	X
Ball Field	1	C-8-14(4)	0 - 10	12/3/2014	X	X
Ball Field	1	C-16-14(4)	0 - 10	12/3/2014	X	X
Ball Field	1	C-18-14(4)	0 - 10	12/3/2014	X	X
Ball Field	1	E-6-14(4)	0 - 10	12/3/2014	X	X
Ball Field	1	O-12-14	0 - 10	12/3/2014	X	X
Ball Field	1	O-20-14	0 - 10	12/3/2014	X	X
Ball Field	3	A-12-14	0 - 12	12/3/2014	X	
Ball Field	3	A-13-14	0 - 12	12/3/2014	X	
Ball Field	3	B-11-14	0 - 12	12/3/2014	X	
Ball Field	3	B-12-14	0 - 12	12/3/2014	X	
Ball Field	3	B-13-14(4)	0 - 12	12/3/2014	X	
Ball Field	3	C-11-14(4)	0 - 18	12/3/2014	X	
Ball Field	3	C-13-14(4)	0 - 18	12/3/2014	X	
Ball Field	3	E-4-14	0 - 20	12/3/2014	X	
Ball Field	3	E-5-14(4)	0 - 20	12/3/2014	X	

Footnotes on last page.

Table 1. PCBs and Metals Sample Summary, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Sampling Event / Area [1]	Area ID [1]	Boring ID [2] [3]	Interval Sampled [4] (ft bls)	Boring Completion Date	Samples Analyzed For	
					PCBs	Metals
Ball Field	3	O-9-14	0 - 20	12/3/2014	X	
Ball Field	3	P-10-14	0 - 20	12/3/2014	X	
Ball Field	5	N-10-14	0 - 20	12/3/2014	X	X
Ball Field	5	N-11-14	0 - 20	12/3/2014	X	X
Ball Field	5	O-10-14	0 - 20	12/3/2014	X	X
Ball Field	5	O-11-14(4)	0 - 20	12/3/2014	X	X
Ball Field	7	S-8-14	0 - 2	12/3/2014	X	X
Ball Field	1	E-18-14	0 - 10	12/4/2014	X	X
Ball Field	1	K-16-14	0 - 10	12/4/2014	X	X
Ball Field	1	M-8-14	0 - 10	12/4/2014	X	X
Ball Field	1	M-14-14	0 - 10	12/4/2014	X	X
Ball Field	1	M-16-14	0 - 10	12/4/2014	X	X
Ball Field	2	E-9-14(4)	0 - 10	12/4/2014	X	X
Ball Field	2	F-8-14(4)	0 - 10	12/4/2014	X	X
Ball Field	2	K-11-14(4)	0 - 10	12/4/2014	X	X
Ball Field	2	K-12-14	0 - 10	12/4/2014	X	X
Ball Field	2	K-18-14	0 - 10	12/4/2014	X	X
Ball Field	2	K-20-14	0 - 10	12/4/2014	X	X
Ball Field	2	L-11-14	0 - 10	12/4/2014	X	X
Ball Field	2	L-13-14	0 - 10	12/4/2014	X	X
Ball Field	2	L-21-14	0 - 10	12/4/2014	X	X
Ball Field	2	M-11-14	0 - 10	12/4/2014	X	X
Ball Field	2	M-12-14	0 - 10	12/4/2014	X	X
Ball Field	2	M-13-14	0 - 10	12/4/2014	X	X
Ball Field	2	M-19-14	0 - 10	12/4/2014	X	X
Ball Field	2	M-20-14	0 - 10	12/4/2014	X	X
Ball Field	3	D-4-14	0 - 20	12/4/2014	X	
Ball Field	3	D-14-14	0 - 20	12/4/2014	X	
Ball Field	3	E-15-14	0 - 20	12/4/2014	X	
Ball Field	3	E-17-14	0 - 20	12/4/2014	X	
Ball Field	3	N-9-14	0 - 20	12/4/2014	X	
Ball Field	4	D-10-14	0 - 24	12/4/2014	X	
Ball Field	4	D-12-14	0 - 24	12/4/2014	X	
Ball Field	4	E-13-14	0 - 24	12/4/2014	X	
Ball Field	5	L-19-14	0 - 14	12/4/2014	X	X
Ball Field	6	E-11-14(4)	0 - 24	12/4/2014	X	X
Ball Field	6	F-10-14	0 - 24	12/4/2014	X	X
Ball Field	1	I-18-14	0 - 10	12/5/2014	X	X
Ball Field	1	I-20-14	0 - 10	12/5/2014	X	X
Ball Field	1	M-10-14	0 - 10	12/5/2014	X	X
Ball Field	2	J-5-14	0 - 10	12/5/2014	X	X
Ball Field	2	J-8-14	0 - 10	12/5/2014	X	X
Ball Field	2	J-19-14	0 - 10	12/5/2014	X	X
Ball Field	2	K-5-14	0 - 10	12/5/2014	X	X
Ball Field	2	K-9-14	0 - 10	12/5/2014	X	X
Ball Field	3	F-14-14	0 - 20	12/5/2014	X	
Ball Field	4	F-12-14	0 - 24	12/5/2014	X	
Ball Field	4	I-13-14	0 - 22	12/5/2014	X	
Ball Field	4	J-13-14	0 - 22	12/5/2014	X	
Ball Field	6	G-11-14	0 - 24	12/5/2014	X	X
Ball Field	6	J-10-14	0 - 22	12/5/2014	X	X
Ball Field	6	J-12-14	0 - 22	12/5/2014	X	X
Ball Field	1	G-6-14	0 - 10	12/8/2014	X	X
Ball Field	1	G-18-14	0 - 10	12/8/2014	X	X
Ball Field	1	I-6-14	0 - 10	12/8/2014	X	X
Ball Field	2	G-9-14	0 - 10	12/8/2014	X	X
Ball Field	2	H-8-14	0 - 10	12/8/2014	X	X
Ball Field	2	I-9-14(4)	0 - 10	12/8/2014	X	X
Ball Field	3	F-16-14	0 - 20	12/8/2014	X	
Ball Field	3	F-18-14	0 - 20	12/8/2014	X	
Ball Field	3	G-15-14	0 - 20	12/8/2014	X	
Ball Field	3	G-17-14	0 - 20	12/8/2014	X	
Ball Field	4	G-13-14	0 - 24	12/8/2014	X	

Footnotes on last page.

Table 1. PCBs and Metals Sample Summary, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Sampling Event / Area [1]	Area ID [1]	Boring ID [2] [3]	Interval Sampled [4] (ft bls)	Boring Completion Date	Samples Analyzed For	
					PCBs	Metals
Ball Field	4	H-12-14	0 - 22	12/8/2014	X	
Ball Field	4	H-14-14	0 - 22	12/8/2014	X	
Ball Field	6	H-10-14	0 - 22	12/8/2014	X	X
Ball Field	6	I-11-14(4)	0 - 22	12/8/2014	X	X
Access Road E	1	nAO-23-14	0 - 2	12/15/2014	X	X
Access Road E	1	nAP-24-14	0 - 2	12/15/2014	X	X
Access Road W	1	nZZB-12-14	0 - 2	12/15/2014	X	X
Eastern Park	2	nAS-21-14	0 - 2	12/15/2014	X	
Eastern Park	2	nAW-21-14	0 - 2	12/15/2014	X	
Eastern Park	2	nAY-21-14	0 - 2	12/15/2014	X	
Eastern Park	2	nAY-6-14	0 - 2	12/15/2014	X	
Eastern Park	2	nAX-7-14	0 - 2	12/15/2014	X	
Eastern Park	2	nAZ-7-14	0 - 2	12/15/2014	X	
Eastern Park	2	nAY-9-14	0 - 2	12/15/2014	X	
Eastern Park	2	nBA-9-14	0 - 2	12/15/2014	X	
Eastern Park	2	nAZ-11-14	0 - 2	12/15/2014	X	
Eastern Park	2	nBB-11-14	0 - 2	12/15/2014	X	
Eastern Park	2	nBA-12-14	0 - 2	12/15/2014	X	
Eastern Park	2	nBB-13-14	0 - 2	12/15/2014	X	
Eastern Park	2	nBB-14-14	0 - 2	12/15/2014	X	
Eastern Park	2	nBC-15-14	0 - 2	12/15/2014	X	
Eastern Park	3	nBD-18-14	0 - 10	12/15/2014	X	X
Eastern Park	3	nBE-16-14	0 - 10	12/15/2014	X	X
Eastern Park	3	nBE-18-14	0 - 10	12/15/2014	X	X
Access Road W	1	nZZC-12-14	0 - 2	12/15/2014	X	X
Access Road W	1	nZZB-19-14	0 - 2	12/15/2014	X	X
Access Road W	1	nZZC-19-14	0 - 2	12/15/2014	X	X
Access Road W	1	nP-23-14	0 - 2	12/15/2014	X	X
Access Road W	1	nAF-24-14	0 - 2	12/15/2014	X	X
Access Road W	1	nAJ-24-14	0 - 2	12/15/2014	X	X
Access Road W	1	nAL-24-14	0 - 2	12/15/2014	X	X
Access Road W	1	nC-24-14	0 - 2	12/15/2014	X	X
Access Road W	1	nD-24-14	0 - 2	12/15/2014	X	X
Access Road W	1	nAA-25-14	0 - 2	12/15/2014	X	X
Access Road W	1	nAF-25-14	0 - 2	12/15/2014	X	X
Access Road W	1	nB-26-14	0 - 2	12/15/2014	X	X
Playground Area Sampling						
Southern Park		AE-22-15	0 - 2 inches	4/24/2015	X	
Southern Park		AG-22-15	0 - 2 inches	4/24/2015	X	
Southern Park		AH-20-15	0 - 2 inches	4/24/2015	X	
Southern Park		nAG-19-15	0 - 2 inches	4/24/2015	X	
Southern Park		nAH-17-15	0 - 2 inches	4/24/2015	X	
Southern Park		nAJ-201-5	0 - 2 inches	4/24/2015	X	
Southern Park		nV-17-15	0 - 2 inches	4/24/2015	X	
Southern Park		nW-17-15	0 - 2 inches	4/24/2015	X	
Southern Park		nY-17-15	0 - 2 inches	4/24/2015	X	
Southern Park		nAA-17-15	0 - 2 inches	5/4/2015	X	
Southern Park		nAD-17-15	0 - 2 inches	5/4/2015	X	
Southern Park		nAI-18-15	0 - 2 inches	5/4/2015	X	
Southern Park		AI-21-15	0 - 2 inches	5/4/2015	X	
Southern Park		nV-22-15	0 - 2 inches	5/4/2015	X	X
Southern Park		X-22-15	0 - 2 inches	5/4/2015	X	
Southern Park		nAA-22-15	0 - 2 inches	5/4/2015	X	
Southern Park		nAJ-22-15	0 - 2 inches	5/4/2015	X	
Phase 2 Step Out Sampling						
Access Road		AJ-25-15	0 - 10	5/13/2015	X	
Access Road		AG-23-15	0 - 10	5/13/2015	X	
Access Road		AP-25-15	0 - 10	5/13/2015	X	
Access Road		nAW-26-15	0 - 10	5/13/2015	X	
Access Road		nBB-27-15	0 - 10	5/13/2015	X	
Access Road		BE-26-15	0 - 10	5/13/2015	X	

Footnotes on last page.

Table 1. PCBs and Metals Sample Summary, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Sampling Event / Area [1]	Area ID [1]	Boring ID [2] [3]	Interval Sampled [4] (ft bls)	Boring Completion Date	Samples Analyzed For	
					PCBs	Metals
Access Road		BF-24-15	0 - 10	5/13/2015	X	
Access Road		nAY-26-15	0 - 10	5/13/2015	X	X
Access Road		AT-25-15	0 - 10	5/13/2015	X	X
Access Road		nAE-23-15	0 - 4	5/13/2015	X	
Access Road		nAO-22-15	0 - 10	5/13/2015	X	
Ball Field		J-2-15	0 - 30	5/4/2015	X	X
Ball Field		F-3-15	0 - 30	5/4/2015	X	X
Ball Field		nI-7-15	0 - 30	5/5/2015	X	X
Ball Field		G-7-15	0 - 30	5/5/2015	X	X
Ball Field		nH-6-15	0 - 30	5/5/2015	X	X
Ball Field		nK-7-15	0 - 30	5/5/2015	X	X
Ball Field		nE-5-15	0 - 30	5/5/2015	X	X
Ball Field		nB-4-15	0 - 30	5/5/2015	X	X
Ball Field		nP-6-15	0 - 30	5/7/2015	X	X
Ball Field		nM-6-15	0 - 30	5/7/2015	X	X
Ball Field		nD-5-15	0 - 30	5/8/2015	X	
Ball Field		C-6-15	0 - 30	5/8/2015	X	
Ball Field		nD-6-15	0 - 30	5/8/2015	X	
Ball Field		nL-22-15	0 - 30	5/11/2015	X	
Ball Field		nM-14-15	0 - 30	5/11/2015	X	
Ball Field		nO-14-15	0 - 30	5/11/2015	X	
Ball Field		nO-15-15	0 - 30	5/11/2015	X	
Ball Field		nN-16-15	0 - 30	5/11/2015	X	
Ball Field		nP-16-15	0 - 30	5/11/2015	X	
Ball Field		nP-19-15	0 - 30	5/11/2015	X	
Ball Field		nR-19-15	0 - 10	5/11/2015	X	
Ball Field		nH-19-15	0 - 30	5/11/2015	X	
Ball Field		nG-21-15	0 - 30	5/11/2015	X	
Ball Field		D-20-15	0 - 30	5/11/2015	X	
Ball Field		nB-15-15	0 - 30	5/11/2015	X	
Ball Field		Q-17-15	0 - 10	5/11/2015	X	
Ball Field		nS-18-15	0 - 6	5/12/2015	X	
Ball Field		nB-16-15	0 - 30	5/12/2015	X	
Ball Field		H-7-15	0 - 30	5/13/2015	X	X
Ball Field		F-13-15	0 - 10	5/13/2015		X
Ball Field		G-16-15	0 - 10	5/13/2015		X
Ball Field		nD-16-15	0 - 10	5/13/2015		X
Eastern Park		AJ-18-15	0 - 10	5/4/2015	X	
Eastern Park		nAW-22-15	0 - 10	5/4/2015	X	
Eastern Park		nAV-21-15	0 - 10	5/4/2015	X	
Eastern Park		BD-19-15	0 - 10	5/4/2015	X	
Eastern Park		BC-17-15	0 - 10	5/4/2015	X	
Eastern Park		nT-18-15	0 - 6	5/4/2015	X	
Eastern Park		nT-19-15	0 - 6	5/4/2015	X	
TCLP Sampling (5)						
Access Road		nD-24-14	0 - 1	5/12/2015		X
Ball Field		B-33	0 - 5	5/7/2015		X
Ball Field		TP-10 (6)	0 - 6.5	5/7/2015		X
Ball Field		B-60	0 - 13	5/8/2015		X
Ball Field		J-5-14	0 - 9	5/8/2015		X
Ball Field		B-34-14	0 - 55.5	5/12/2015		X
Ball Field		O-10-14	0 - 7	5/12/2015		X
Ball Field		B-70	0 - 7	5/12/2015		X
Ball Field		M-12-14	0 - 7	5/12/2015		X
Ball Field		I-3	0 - 2	5/12/2015		X
Ball Field		TP-08N (6)	0 - 6	5/12/2015		X
Eastern Park		P-5	0 - 5	5/12/2015		X
Access Road Step Out Sampling						
Access Road		nZZQ-26-15	0 - 2	7/6/2015	X	X
Access Road		nZZQ-27-15	0 - 2	7/6/2015	X	X
Access Road		nZZO-26-15	0 - 2	7/6/2015	X	X
Access Road		nZZP-27-15	0 - 2	7/6/2015	X	X

Footnotes on last page.

Table 1. PCBs and Metals Sample Summary, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Sampling Event / Area [1]	Area ID [1]	Boring ID [2] [3]	Interval Sampled [4] (ft bls)	Boring Completion Date	Samples Analyzed For	
					PCBs	Metals
Access Road		nZZM-26-15	0 - 2	7/6/2015	X	X
Access Road		nZZK-27-15	0 - 2	7/6/2015	X	X
Access Road		nZZJ-27-15	0 - 2	7/6/2015	X	X
Access Road		nZZK-26-15	0 - 2	7/6/2015	X	X
Access Road		nZZI-26-15	0 - 2	7/6/2015	X	X
Access Road		nZZG-26-15	0 - 2	7/6/2015	X	X
Access Road		nZZE-26-15	0 - 2	7/6/2015	X	X
Access Road		ZZC-26-15	0 - 2	7/6/2015	X	X
Access Road		nZZD-27-15	0 - 2	7/6/2015	X	X
Access Road		ZZB-27-15	0 - 2	7/6/2015	X	X
Access Road		nZZD-25-15	0 - 2	7/6/2015	X	X
Access Road		nI-27-15	0 - 2	7/6/2015	X	X
Access Road		nK-26-15	0 - 2	7/6/2015	X	X
Access Road		nL-26-15	0 - 2	7/6/2015	X	X
Access Road		nM-26-15	0 - 2	7/6/2015	X	X
Access Road		nO-27-15	0 - 2	7/6/2015	X	X
Access Road		nQ-27-15	0 - 2	7/6/2015	X	X
Access Road		nS-26-15	0 - 2	7/6/2015	X	X
Access Road		nV-26-15	0 - 2	7/6/2015	X	X
Access Road		nZ-27-15	0 - 2	7/6/2015	X	X
Access Road		nAL-27-15	0 - 2	7/6/2015	X	X
Access Road		nAN-26-15	0 - 2	7/6/2015	X	X
Access Road		nAO-27-15	0 - 2	7/6/2015	X	X
Access Road		nAU-26-15	0 - 2	7/6/2015	X	X
Access Road		nAX-27-15	0 - 2	7/6/2015	X	X
Access Road		nBA-27-15	0 - 2	7/6/2015	X	X
Access Road		nBD-27-15	0 - 2	7/6/2015	X	X
Access Road		nBF-26-15	0 - 2	7/6/2015	X	X
Access Road		nBF-27-15	0 - 2	7/6/2015	X	X

Notes and Abbreviations:

Samples collected per New York State Department of Environmental Conservation approved Pre-Design Sampling Work Plan for PCBs (May 14, 2014).

ft bls	Feet below original land surface that existed prior to the Town of Oyster Bay bringing in cover material.
(1)	Area ID corresponds to sampling areas defined in the Pre-Design Sampling Work Plan for VOC Source Area (Work Plan) (EMAGIN 2014) and shown on Figure 3.
(2)	Boring IDs correspond to sampling grid nodes (Figure 3) except for B-34-14, B-60-14, and VP-27-14.
(3)	"n" in boring ID designates boring is located between grid nodes
(4)	Sample depths were adjusted from 2.4"-12" below land surface to account for surficial fill material placed above original land surface.
(5)	Samples analyzed for TCLP metals
(6)	Samples analyzed for both TCLP and total metals
E	East
W	West

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Phase 1 Sampling							
Access Road W	nA-24-14	1	nA-24-14_1	11/4/2014		X	X
Access Road W	nA-25-14	1	nA-25-14_1	11/4/2014		X	X
Access Road W	nAA-24-14	1	nAA-24-14_1	11/4/2014		X	X
Access Road W	nAB-25-14	1	nAB-25-14_1	11/4/2014		X	X
Access Road W	nAB-26-14	1	nAB-26-14_1	11/4/2014		X	X
Access Road W	nAE-25-14	1	nAE-25-14_1	11/4/2014		X	X
Access Road W	nAE-26-14	1	nAE-26-14_1	11/4/2014		X	X
Access Road W	nAG-24-14	1	nAG-24-14_1	11/4/2014		X	X
Access Road W	nAG-25-14	1	nAG-25-14_1	11/4/2014		X	X
Access Road W	nAI-24-14	1	nAI-24-14_1	11/4/2014		X	X
Access Road W	nAK-25-14	1	nAK-25-14_1	11/4/2014		X	X
Access Road E	nAM-23-14	1	nAM-23-14_1	11/4/2014		X	X
Access Road E	nAO-24-14	1	nAO-24-14_1	11/4/2014		X	X
Access Road E	nAQ-25-14	1	nAQ-25-14_1	11/4/2014		X	X
Access Road E	nAQ-26-14	1	nAQ-26-14_1	11/4/2014		X	X
Access Road E	nAR-24-14	1	nAR-24-14_1	11/4/2014		X	X
Access Road E	nAR-24-14	5	nAR-24-14_5	11/4/2014		X	X
Access Road E	nAR-24-14	7	nAR-24-14_7	11/4/2014		X	X
Access Road E	nAR-24-14	9	nAR-24-14_9	11/4/2014		X	X
Access Road E	nAW-25-14	1	nAW-25-14_1	11/4/2014		X	X
Access Road E	nAW-25-14	5	nAW-25-14_5	11/4/2014		X	X
Access Road E	nAW-25-14	7	nAW-25-14_7	11/4/2014		X	X
Access Road E	nAW-25-14	9	nAW-25-14_9	11/4/2014		X	X
Access Road E	nBB-24-14	1	nBB-24-14_1	11/4/2014		X	X
Access Road E	nBB-24-14	5	nBB-24-14_5	11/4/2014		X	X
Access Road E	nBB-24-14	7	nBB-24-14_7	11/4/2014		X	X
Access Road E	nBB-24-14	9	nBB-24-14_9	11/4/2014		X	X
Access Road E	nBB-25-14	1	nBB-25-14_1	11/4/2014		X	X
Access Road E	nBB-25-14	5	nBB-25-14_5	11/4/2014		X	X
Access Road E	nBB-25-14	7	nBB-25-14_7	11/4/2014		X	X
Access Road E	nBB-25-14	9	nBB-25-14_9	11/4/2014		X	X
Access Road W	nD-25-14	1	nD-25-14_1	11/4/2014		X	X
Access Road W	nD-26-14	1	nD-26-14_1	11/4/2014		X	X
Access Road W	nN-24-14	1	nN-24-14_1	11/4/2014		X	X
Access Road W	nN-25-14	1	nN-25-14_1	11/4/2014		X	X
Access Road W	nO-24-14	1	nO-24-14_1	11/4/2014		X	X
Access Road W	nP-24-14	1	nP-24-14_1	11/4/2014		X	X
Access Road W	nR-23-14	1	nR-23-14_1	11/4/2014		X	X
Access Road W	nU-23-14	1	nU-23-14_1	11/4/2014		X	X
Access Road W	nV-23-14	1	nV-23-14_1	11/4/2014		X	X
Access Road W	nW-24-14	1	nW-24-14_1	11/4/2014		X	X
Access Road W	nZZB-11-14	1	nZZB-11-14_1	11/4/2014		X	X
Access Road W	nZZB-14-14	1	nZZB-14-14_1	11/4/2014		X	X
Access Road W	nZZB-17-14	1	nZZB-17-14_1	11/4/2014		X	X
Access Road W	nZZB-21-14	1	nZZB-21-14_1	11/4/2014		X	X
Access Road W	nZZB-25-14	1	nZZB-25-14_1	11/4/2014		X	X
Access Road W	nZZC-11-14	1	nZZC-11-14_1	11/4/2014		X	X
Access Road W	nZZC-14-14	1	nZZC-14-14_1	11/4/2014		X	X
Access Road W	nZZC-17-14	1	nZZC-17-14_1	11/4/2014		X	X
Access Road W	nZZC-21-14	1	nZZC-21-14_1	11/4/2014		X	X

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	G-8-14	3	G-8-14_3	11/6/2014		X	X
Ball Field	G-8-14	5	G-8-14_5	11/6/2014		X	X
Ball Field	G-8-14	7	G-8-14_7	11/6/2014		X	X
Ball Field	G-8-14	9	G-8-14_9	11/6/2014		X	X
Ball Field	L-12-14	3	L-12-14_3	11/6/2014		X	X
Ball Field	L-12-14	5	L-12-14_5	11/6/2014		X	X
Ball Field	L-12-14	7	L-12-14_7	11/6/2014		X	X
Ball Field	L-12-14	9	L-12-14_9	11/6/2014		X	X
Ball Field	N-12-14	3	N-12-14_3	11/6/2014		X	X
Ball Field	N-12-14	5	N-12-14_5	11/6/2014		X	X
Ball Field	N-12-14	7	N-12-14_7	11/6/2014		X	X
Ball Field	N-12-14	9	N-12-14_9	11/6/2014		X	X
Ball Field	P-9-14	10	P-9-14_10	11/6/2014		X	
Ball Field	P-9-14	14	P-9-14_14	11/6/2014		X	
Ball Field	P-9-14	18	P-9-14_18	11/6/2014		X	
Ball Field	J-4-14	3	J-4-14_3	11/7/2014		X	X
Ball Field	J-4-14	5	J-4-14_5	11/7/2014		X	X
Ball Field	J-4-14	7	J-4-14_7	11/7/2014		X	X
Ball Field	J-4-14	9	J-4-14_9	11/7/2014		X	X
Ball Field	K-10-14	3	K-10-14_3	11/7/2014		X	X
Ball Field	K-10-14	5	K-10-14_5	11/7/2014		X	X
Ball Field	K-10-14	7	K-10-14_7	11/7/2014		X	X
Ball Field	K-10-14	9	K-10-14_9	11/7/2014		X	X
Ball Field	K-3-14	3	K-3-14_3	11/7/2014		X	X
Ball Field	K-3-14	5	K-3-14_5	11/7/2014		X	X
Ball Field	K-3-14	7	K-3-14_7	11/7/2014		X	X
Ball Field	K-3-14	9	K-3-14_9	11/7/2014		X	X
Ball Field	K-4-14	3	K-4-14_3	11/7/2014		X	X
Ball Field	K-4-14	5	K-4-14_5	11/7/2014		X	X
Ball Field	K-4-14	7	K-4-14_7	11/7/2014		X	X
Ball Field	K-4-14	9	K-4-14_9	11/7/2014		X	X
Ball Field	C-10-14	3	C-10-14_3	11/10/2014		X	X
Ball Field	C-10-14	5	C-10-14_5	11/10/2014		X	X
Ball Field	C-10-14	7	C-10-14_7	11/10/2014		X	X
Ball Field	C-10-14	9	C-10-14_9	11/10/2014		X	X
Ball Field	C-12-14	3	C-12-14_3	11/10/2014		X	
Ball Field	C-12-14	5	C-12-14_5	11/10/2014		X	
Ball Field	C-12-14	7	C-12-14_7	11/10/2014		X	
Ball Field	C-12-14	9	C-12-14_9	11/10/2014		X	
Ball Field	C-12-14	11	C-12-14_11	11/10/2014		X	
Ball Field	C-12-14	13	C-12-14_13	11/10/2014		X	
Ball Field	C-12-14	15	C-12-14_15	11/10/2014		X	
Ball Field	C-12-14	17	C-12-14_17	11/10/2014		X	
Ball Field	C-14-14	3	C-14-14_3	11/10/2014		X	X
Ball Field	C-14-14	5	C-14-14_5	11/10/2014		X	X
Ball Field	C-14-14	7	C-14-14_7	11/10/2014		X	X
Ball Field	C-14-14	9	C-14-14_9	11/10/2014		X	X
Ball Field	D-11-14	11	D-11-14_11	11/10/2014		X	
Ball Field	D-11-14	13	D-11-14_13	11/10/2014		X	
Ball Field	D-11-14	15	D-11-14_15	11/10/2014		X	
Ball Field	D-11-14	17	D-11-14_17	11/10/2014		X	
Ball Field	D-11-14	19	D-11-14_19	11/10/2014		X	
Ball Field	D-11-14	21	D-11-14_21	11/10/2014		X	
Ball Field	D-11-14	23	D-11-14_23	11/10/2014		X	

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	D-13-14	11	D-13-14_11	11/10/2014		X	
Ball Field	D-13-14	13	D-13-14_13	11/10/2014		X	
Ball Field	D-13-14	15	D-13-14_15	11/10/2014		X	
Ball Field	D-13-14	17	D-13-14_17	11/10/2014		X	
Ball Field	D-13-14	19	D-13-14_19	11/10/2014		X	
Ball Field	E-10-14	3	E-10-14_3	11/10/2014		X	X
Ball Field	E-10-14	5	E-10-14_5	11/10/2014		X	X
Ball Field	E-10-14	7	E-10-14_7	11/10/2014		X	X
Ball Field	E-10-14	9	E-10-14_9	11/10/2014		X	X
Ball Field	E-10-14	11	E-10-14_11	11/10/2014		X	
Ball Field	E-10-14	13	E-10-14_13	11/10/2014		X	
Ball Field	E-10-14	15	E-10-14_15	11/10/2014		X	
Ball Field	E-10-14	17	E-10-14_17	11/10/2014		X	
Ball Field	E-10-14	19	E-10-14_19	11/10/2014		X	
Ball Field	E-10-14	21	E-10-14_21	11/10/2014		X	
Ball Field	E-10-14	23	E-10-14_23	11/10/2014		X	
Ball Field	E-12-14	3	E-12-14_3	11/10/2014		X	
Ball Field	E-12-14	5	E-12-14_5	11/10/2014		X	
Ball Field	E-12-14	7	E-12-14_7	11/10/2014		X	
Ball Field	E-12-14	9	E-12-14_9	11/10/2014		X	
Ball Field	E-12-14	11	E-12-14_11	11/10/2014		X	
Ball Field	E-12-14	13	E-12-14_13	11/10/2014		X	
Ball Field	E-12-14	15	E-12-14_15	11/10/2014		X	
Ball Field	E-12-14	17	E-12-14_17	11/10/2014		X	
Ball Field	E-12-14	19	E-12-14_19	11/10/2014		X	
Ball Field	E-12-14	21	E-12-14_21	11/10/2014		X	
Ball Field	E-12-14	23	E-12-14_23	11/10/2014		X	
Ball Field	E-14-14	3	E-14-14_3	11/10/2014		X	
Ball Field	E-14-14	5	E-14-14_5	11/10/2014		X	
Ball Field	E-14-14	7	E-14-14_7	11/10/2014		X	
Ball Field	E-14-14	9	E-14-14_9	11/10/2014		X	
Ball Field	E-14-14	11	E-14-14_11	11/10/2014		X	
Ball Field	E-14-14	13	E-14-14_13	11/10/2014		X	
Ball Field	E-14-14	15	E-14-14_15	11/10/2014		X	
Ball Field	E-14-14	17	E-14-14_17	11/10/2014		X	
Ball Field	E-14-14	19	E-14-14_19	11/10/2014		X	
Ball Field	E-16-14	3	E-16-14_3	11/10/2014		X	
Ball Field	E-16-14	5	E-16-14_5	11/10/2014		X	
Ball Field	E-16-14	7	E-16-14_7	11/10/2014		X	
Ball Field	E-16-14	9	E-16-14_9	11/10/2014		X	
Ball Field	E-16-14	11	E-16-14_11	11/10/2014		X	
Ball Field	E-16-14	13	E-16-14_13	11/10/2014		X	
Ball Field	E-16-14	15	E-16-14_15	11/10/2014		X	
Ball Field	E-16-14	17	E-16-14_17	11/10/2014		X	
Ball Field	E-16-14	19	E-16-14_19	11/10/2014		X	
Ball Field	E-8-14	3	E-8-14_3	11/10/2014		X	X
Ball Field	E-8-14	5	E-8-14_5	11/10/2014		X	X
Ball Field	E-8-14	7	E-8-14_7	11/10/2014		X	X
Ball Field	E-8-14	9	E-8-14_9	11/10/2014		X	X
Ball Field	F-11-14	3	F-11-14_3	11/10/2014		X	X
Ball Field	F-11-14	5	F-11-14_5	11/10/2014		X	X
Ball Field	F-11-14	7	F-11-14_7	11/10/2014		X	X
Ball Field	F-11-14	9	F-11-14_9	11/10/2014		X	X
Ball Field	F-11-14	11	F-11-14_11	11/10/2014		X	

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	F-11-14	13	F-11-14_13	11/10/2014		X	
Ball Field	F-11-14	15	F-11-14_15	11/10/2014		X	
Ball Field	F-11-14	17	F-11-14_17	11/10/2014		X	
Ball Field	F-11-14	19	F-11-14_19	11/10/2014		X	
Ball Field	F-11-14	21	F-11-14_21	11/10/2014		X	
Ball Field	F-11-14	23	F-11-14_23	11/10/2014		X	
Ball Field	F-9-14	3	F-9-14_3	11/10/2014		X	X
Ball Field	F-9-14	5	F-9-14_5	11/10/2014		X	X
Ball Field	F-9-14	7	F-9-14_7	11/10/2014		X	X
Ball Field	F-9-14	9	F-9-14_9	11/10/2014		X	X
Ball Field	F-13-14	11	F-13-14_11	11/12/2014		X	
Ball Field	F-13-14	13	F-13-14_13	11/12/2014		X	
Ball Field	F-13-14	15	F-13-14_15	11/12/2014		X	
Ball Field	F-13-14	17	F-13-14_17	11/12/2014		X	
Ball Field	F-13-14	19	F-13-14_19	11/12/2014		X	
Ball Field	F-13-14	21	F-13-14_21	11/12/2014		X	
Ball Field	F-13-14	23	F-13-14_23	11/12/2014		X	
Ball Field	F-15-14	3	F-15-14_3	11/12/2014		X	X
Ball Field	F-15-14	5	F-15-14_5	11/12/2014		X	X
Ball Field	F-15-14	7	F-15-14_7	11/12/2014		X	X
Ball Field	F-15-14	9	F-15-14_9	11/12/2014		X	X
Ball Field	F-15-14	11	F-15-14_11	11/12/2014		X	X
Ball Field	F-15-14	13	F-15-14_13	11/12/2014		X	X
Ball Field	F-15-14	15	F-15-14_15	11/12/2014		X	X
Ball Field	F-15-14	17	F-15-14_17	11/12/2014		X	X
Ball Field	F-15-14	19	F-15-14_19	11/12/2014		X	X
Ball Field	F-17-14	11	F-17-14_11	11/12/2014		X	
Ball Field	F-17-14	13	F-17-14_13	11/12/2014		X	
Ball Field	F-17-14	15	F-17-14_15	11/12/2014		X	
Ball Field	F-17-14	17	F-17-14_17	11/12/2014		X	
Ball Field	F-17-14	19	F-17-14_19	11/12/2014		X	
Ball Field	G-10-14	3	G-10-14_3	11/12/2014		X	X
Ball Field	G-10-14	5	G-10-14_5	11/12/2014		X	X
Ball Field	G-10-14	7	G-10-14_7	11/12/2014		X	X
Ball Field	G-10-14	9	G-10-14_9	11/12/2014		X	X
Ball Field	G-10-14	11	G-10-14_11	11/12/2014		X	X
Ball Field	G-10-14	13	G-10-14_13	11/12/2014		X	X
Ball Field	G-10-14	15	G-10-14_15	11/12/2014		X	X
Ball Field	G-10-14	17	G-10-14_17	11/12/2014		X	X
Ball Field	G-10-14	19	G-10-14_19	11/12/2014		X	X
Ball Field	G-10-14	21	G-10-14_21	11/12/2014		X	X
Ball Field	G-10-14	23	G-10-14_23	11/12/2014		X	X
Ball Field	G-12-14	3	G-12-14_3	11/12/2014		X	
Ball Field	G-12-14	5	G-12-14_5	11/12/2014		X	
Ball Field	G-12-14	7	G-12-14_7	11/12/2014		X	
Ball Field	G-12-14	9	G-12-14_9	11/12/2014		X	
Ball Field	G-12-14	11	G-12-14_11	11/12/2014		X	
Ball Field	G-12-14	13	G-12-14_13	11/12/2014		X	
Ball Field	G-12-14	15	G-12-14_15	11/12/2014		X	
Ball Field	G-12-14	17	G-12-14_17	11/12/2014		X	
Ball Field	G-12-14	19	G-12-14_19	11/12/2014		X	
Ball Field	G-12-14	21	G-12-14_21	11/12/2014		X	
Ball Field	G-12-14	23	G-12-14_23	11/12/2014		X	

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	G-14-14	3	G-14-14_3	11/12/2014		X	
Ball Field	G-14-14	5	G-14-14_5	11/12/2014		X	
Ball Field	G-14-14	7	G-14-14_7	11/12/2014		X	
Ball Field	G-14-14	9	G-14-14_9	11/12/2014		X	
Ball Field	G-14-14	11	G-14-14_11	11/12/2014		X	
Ball Field	G-14-14	13	G-14-14_13	11/12/2014		X	
Ball Field	G-14-14	15	G-14-14_15	11/12/2014		X	
Ball Field	G-14-14	17	G-14-14_17	11/12/2014		X	
Ball Field	G-14-14	19	G-14-14_19	11/12/2014		X	
Ball Field	G-14-14	21	G-14-14_21	11/12/2014		X	
Ball Field	G-14-14	23	G-14-14_23	11/12/2014		X	
Ball Field	G-16-14	3	G-16-14_3	11/12/2014		X	
Ball Field	G-16-14	5	G-16-14_5	11/12/2014		X	
Ball Field	G-16-14	7	G-16-14_7	11/12/2014		X	
Ball Field	G-16-14	9	G-16-14_9	11/12/2014		X	
Ball Field	G-16-14	11	G-16-14_11	11/12/2014		X	
Ball Field	G-16-14	13	G-16-14_13	11/12/2014		X	
Ball Field	G-16-14	15	G-16-14_15	11/12/2014		X	
Ball Field	G-16-14	17	G-16-14_17	11/12/2014		X	
Ball Field	G-16-14	19	G-16-14_19	11/12/2014		X	
Ball Field	H-9-14	3	H-9-14_3	11/12/2014		X	X
Ball Field	H-9-14	5	H-9-14_5	11/12/2014		X	X
Ball Field	H-9-14	7	H-9-14_7	11/12/2014		X	X
Ball Field	H-9-14	9	H-9-14_9	11/12/2014		X	X
Ball Field	H-11-14	3	H-11-14_3	11/13/2014		X	X
Ball Field	H-11-14	5	H-11-14_5	11/13/2014		X	X
Ball Field	H-11-14	7	H-11-14_7	11/13/2014		X	X
Ball Field	H-11-14	9	H-11-14_9	11/13/2014		X	X
Ball Field	H-11-14	11	H-11-14_11	11/13/2014		X	X
Ball Field	H-11-14	13	H-11-14_13	11/13/2014		X	X
Ball Field	H-11-14	15	H-11-14_15	11/13/2014		X	X
Ball Field	H-11-14	17	H-11-14_17	11/13/2014		X	X
Ball Field	H-11-14	19	H-11-14_19	11/13/2014		X	X
Ball Field	H-11-14	21	H-11-14_21	11/13/2014		X	X
Ball Field	H-13-14	11	H-13-14_11	11/13/2014		X	
Ball Field	H-13-14	13	H-13-14_13	11/13/2014		X	
Ball Field	H-13-14	15	H-13-14_15	11/13/2014		X	
Ball Field	H-13-14	17	H-13-14_17	11/13/2014		X	
Ball Field	H-13-14	19	H-13-14_19	11/13/2014		X	
Ball Field	H-13-14	21	H-13-14_21	11/13/2014		X	
Ball Field	H-15-14	11	H-15-14_11	11/13/2014		X	
Ball Field	H-15-14	13	H-15-14_13	11/13/2014		X	
Ball Field	H-15-14	15	H-15-14_15	11/13/2014		X	
Ball Field	H-15-14	17	H-15-14_17	11/13/2014		X	
Ball Field	H-15-14	19	H-15-14_19	11/13/2014		X	
Ball Field	I-10-14	3	I-10-14_3	11/13/2014		X	X
Ball Field	I-10-14	5	I-10-14_5	11/13/2014		X	X
Ball Field	I-10-14	7	I-10-14_7	11/13/2014		X	X
Ball Field	I-10-14	9	I-10-14_9	11/13/2014		X	X
Ball Field	I-10-14	11	I-10-14_11	11/13/2014		X	X
Ball Field	I-10-14	13	I-10-14_13	11/13/2014		X	X
Ball Field	I-10-14	15	I-10-14_15	11/13/2014		X	X
Ball Field	I-10-14	17	I-10-14_17	11/13/2014		X	X
Ball Field	I-10-14	19	I-10-14_19	11/13/2014		X	X

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	I-10-14	21	I-10-14_21	11/13/2014		X	X
Ball Field	I-12-14	3	I-12-14_3	11/13/2014		X	X
Ball Field	I-12-14	5	I-12-14_5	11/13/2014		X	X
Ball Field	I-12-14	7	I-12-14_7	11/13/2014		X	X
Ball Field	I-12-14	9	I-12-14_9	11/13/2014		X	X
Ball Field	I-12-14	11	I-12-14_11	11/13/2014		X	X
Ball Field	I-12-14	13	I-12-14_13	11/13/2014		X	X
Ball Field	I-12-14	15	I-12-14_15	11/13/2014		X	X
Ball Field	I-12-14	17	I-12-14_17	11/13/2014		X	X
Ball Field	I-12-14	19	I-12-14_19	11/13/2014		X	X
Ball Field	I-12-14	21	I-12-14_21	11/13/2014		X	X
Ball Field	I-14-14	3	I-14-14_3	11/13/2014		X	
Ball Field	I-14-14	5	I-14-14_5	11/13/2014		X	
Ball Field	I-14-14	7	I-14-14_7	11/13/2014		X	
Ball Field	I-14-14	9	I-14-14_9	11/13/2014		X	
Ball Field	I-14-14	11	I-14-14_11	11/13/2014		X	
Ball Field	I-14-14	13	I-14-14_13	11/13/2014		X	
Ball Field	I-14-14	15	I-14-14_15	11/13/2014		X	
Ball Field	I-14-14	17	I-14-14_17	11/13/2014		X	
Ball Field	I-14-14	19	I-14-14_19	11/13/2014		X	
Ball Field	I-14-14	21	I-14-14_21	11/13/2014		X	
Ball Field	I-16-14	3	I-16-14_3	11/13/2014		X	X
Ball Field	I-16-14	5	I-16-14_5	11/13/2014		X	X
Ball Field	I-16-14	7	I-16-14_7	11/13/2014		X	X
Ball Field	I-16-14	9	I-16-14_9	11/13/2014		X	X
Ball Field	I-8-14	3	I-8-14_3	11/13/2014		X	X
Ball Field	I-8-14	5	I-8-14_5	11/13/2014		X	X
Ball Field	I-8-14	7	I-8-14_7	11/13/2014		X	X
Ball Field	I-8-14	9	I-8-14_9	11/13/2014		X	X
Ball Field	J-11-14	3	J-11-14_3	11/13/2014		X	X
Ball Field	J-11-14	5	J-11-14_5	11/13/2014		X	X
Ball Field	J-11-14	7	J-11-14_7	11/13/2014		X	X
Ball Field	J-11-14	9	J-11-14_9	11/13/2014		X	X
Ball Field	J-11-14	11	J-11-14_11	11/13/2014		X	X
Ball Field	J-11-14	13	J-11-14_13	11/13/2014		X	X
Ball Field	J-11-14	15	J-11-14_15	11/13/2014		X	X
Ball Field	J-11-14	17	J-11-14_17	11/13/2014		X	X
Ball Field	J-11-14	19	J-11-14_19	11/13/2014		X	X
Ball Field	J-11-14	21	J-11-14_21	11/13/2014		X	X
Ball Field	J-18-14	3	J-18-14_3	11/13/2014		X	X
Ball Field	J-18-14	5	J-18-14_5	11/13/2014		X	X
Ball Field	J-18-14	7	J-18-14_7	11/13/2014		X	X
Ball Field	J-18-14	9	J-18-14_9	11/13/2014		X	X
Ball Field	J-9-14	3	J-9-14_3	11/13/2014		X	X
Ball Field	J-9-14	5	J-9-14_5	11/13/2014		X	X
Ball Field	J-9-14	7	J-9-14_7	11/13/2014		X	X
Ball Field	J-9-14	9	J-9-14_9	11/13/2014		X	X
Ball Field	J-20-14	3	J-20-14_3	11/14/2014		X	X
Ball Field	J-20-14	5	J-20-14_5	11/14/2014		X	X
Ball Field	J-20-14	7	J-20-14_7	11/14/2014		X	X
Ball Field	J-20-14	9	J-20-14_9	11/14/2014		X	X
Ball Field	K-14-14	3	K-14-14_3	11/14/2014		X	X
Ball Field	K-14-14	5	K-14-14_5	11/14/2014		X	X
Ball Field	K-14-14	7	K-14-14_7	11/14/2014		X	X

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	K-14-14	9	K-14-14_9	11/14/2014		X	X
Ball Field	K-19-14	3	K-19-14_3	11/14/2014		X	X
Ball Field	K-19-14	5	K-19-14_5	11/14/2014		X	X
Ball Field	K-19-14	7	K-19-14_7	11/14/2014		X	X
Ball Field	K-19-14	9	K-19-14_9	11/14/2014		X	X
Ball Field	K-21-14	3	K-21-14_3	11/14/2014		X	X
Ball Field	K-21-14	5	K-21-14_5	11/14/2014		X	X
Ball Field	K-21-14	7	K-21-14_7	11/14/2014		X	X
Ball Field	K-21-14	9	K-21-14_9	11/14/2014		X	X
Ball Field	K-8-14	3	K-8-14_3	11/14/2014		X	X
Ball Field	K-8-14	5	K-8-14_5	11/14/2014		X	X
Ball Field	K-8-14	7	K-8-14_7	11/14/2014		X	X
Ball Field	K-8-14	9	K-8-14_9	11/14/2014		X	X
Ball Field	L-18-14	3	L-18-14_3	11/14/2014		X	X
Ball Field	L-18-14	5	L-18-14_5	11/14/2014		X	X
Ball Field	L-18-14	7	L-18-14_7	11/14/2014		X	X
Ball Field	L-18-14	9	L-18-14_9	11/14/2014		X	X
Ball Field	L-20-14	3	L-20-14_3	11/14/2014		X	X
Ball Field	L-20-14	5	L-20-14_5	11/14/2014		X	X
Ball Field	L-20-14	7	L-20-14_7	11/14/2014		X	X
Ball Field	L-20-14	9	L-20-14_9	11/14/2014		X	X
Ball Field	L-20-14	11	L-20-14_11	11/14/2014		X	
Ball Field	L-20-14	13	L-20-14_13	11/14/2014		X	
Ball Field	M-18-14	3	M-18-14_3	11/14/2014		X	X
Ball Field	M-18-14	5	M-18-14_5	11/14/2014		X	X
Ball Field	M-18-14	7	M-18-14_7	11/14/2014		X	X
Ball Field	M-18-14	9	M-18-14_9	11/14/2014		X	X
Ball Field	M-21-14	3	M-21-14_3	11/14/2014		X	X
Ball Field	M-21-14	5	M-21-14_5	11/14/2014		X	X
Ball Field	M-21-14	7	M-21-14_7	11/14/2014		X	X
Ball Field	M-21-14	9	M-21-14_9	11/14/2014		X	X
Ball Field	N-19-14	3	N-19-14_3	11/14/2014		X	X
Ball Field	N-19-14	5	N-19-14_5	11/14/2014		X	X
Ball Field	S-18-14	1	S-18-14_1	11/14/2014		X	X
Ball Field	S-20-14	1	S-20-14_1	11/14/2014		X	X
Ball Field	S-22-14	1	S-22-14_1	11/14/2014		X	X
Ball Field	U-18-14	3	U-18-14_3	11/14/2014		X	X
Ball Field	U-18-14	5	U-18-14_5	11/14/2014		X	X
Ball Field	U-18-14	7	U-18-14_7	11/14/2014		X	X
Ball Field	U-18-14	9	U-18-14_9	11/14/2014		X	X
Ball Field	U-20-14	1	U-20-14_1	11/14/2014		X	X
Ball Field	U-22-14	1	U-22-14_1	11/14/2014		X	X
Ball Field	W-18-14	3	W-18-14_3	11/14/2014		X	X
Ball Field	W-18-14	5	W-18-14_5	11/14/2014		X	X
Ball Field	W-18-14	7	W-18-14_7	11/14/2014		X	X
Ball Field	W-18-14	9	W-18-14_9	11/14/2014		X	X
Ball Field	Y-18-14	3	Y-18-14_3	11/14/2014		X	X
Ball Field	Y-18-14	5	Y-18-14_5	11/14/2014		X	X
Ball Field	Y-18-14	7	Y-18-14_7	11/14/2014		X	X
Ball Field	Y-18-14	9	Y-18-14_9	11/14/2014		X	X
Eastern Park	nAF-21-14	1	nAF-21-14_1	11/17/2014		X	
Eastern Park	nAG-18-14	1	nAG-18-14_1	11/17/2014		X	
Eastern Park	nAG-19-14	1	nAG-19-14_1	11/17/2014		X	
Eastern Park	nAH-19-14	1	nAH-19-14_1	11/17/2014		X	

Notes and Abbreviations on last page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Eastern Park	nAH-20-14	1	nAH-20-14_1	11/17/2014		X	
Eastern Park	nAH-22-14	1	nAH-22-14_1	11/17/2014		X	
Eastern Park	nAH-22-14	3	nAH-22-14_3	11/17/2014		X	
Eastern Park	nAH-22-14	5	nAH-22-14_5	11/17/2014		X	
Eastern Park	nAH-22-14	7	nAH-22-14_7	11/17/2014		X	
Eastern Park	nAH-22-14	9	nAH-21-14_9	11/17/2014		X	
Eastern Park	nAH-23-14	1	nAH-23-14_1	11/17/2014		X	
Eastern Park	nAH-23-14	3	nAH-23-14_3	11/17/2014		X	
Eastern Park	nAH-23-14	5	nAH-23-14_5	11/17/2014		X	
Eastern Park	nAH-23-14	7	nAH-23-14_7	11/17/2014		X	
Eastern Park	nAH-23-14	9	nAH-23-14_9	11/17/2014		X	
Eastern Park	nAI-21-14	1	nAI-21-14_1	11/17/2014		X	
Eastern Park	nAI-23-14	1	nAI-23-14_1	11/17/2014		X	
Eastern Park	nAI-23-14	3	nAI-23-14_3	11/17/2014		X	
Eastern Park	nAI-23-14	5	nAI-23-14_5	11/17/2014		X	
Eastern Park	nAI-23-14	7	nAI-23-14_7	11/17/2014		X	
Eastern Park	nAI-23-14	9	nAI-23-14_9	11/17/2014		X	
Eastern Park	nAJ-17-14	1	nAJ-17-14_1	11/17/2014		X	
Eastern Park	nAJ-19-14	1	nAJ-19-14_1	11/17/2014		X	
Ball Field	A-12-14	3	A-12-14_3	12/3/2014	X		
Ball Field	A-12-14	5	A-12-14_5	12/3/2014	X		
Ball Field	A-12-14	7	A-12-14_7	12/3/2014	X		
Ball Field	A-12-14	9	A-12-14_9	12/3/2014	X		
Ball Field	A-12-14	11	A-12-14_11	12/3/2014	X		
Ball Field	A-13-14	11	A-13-14_11	12/3/2014	X	X	
Ball Field	A-14-14	3	A-14-14_3	12/3/2014	X		X
Ball Field	A-14-14	5	A-14-14_5	12/3/2014	X		X
Ball Field	A-14-14	7	A-14-14_7	12/3/2014	X		X
Ball Field	A-14-14	9	A-14-14_9	12/3/2014	X		X
Ball Field	B-11-14	11	B-11-14_11	12/3/2014	X		
Ball Field	B-12-14	11	B-12-14_11	12/3/2014	X		
Ball Field	B-13-14	11	B-13-14_11	12/3/2014	X		
Ball Field	C-11-14	11	C-11-14_11	12/3/2014	X		
Ball Field	C-11-14	13	C-11-14_13	12/3/2014	X		
Ball Field	C-11-14	15	C-11-14_15	12/3/2014	X		
Ball Field	C-11-14	17	C-11-14_17	12/3/2014	X		
Ball Field	C-13-14	11	C-13-14_11	12/3/2014	X		
Ball Field	C-13-14	13	C-13-14_13	12/3/2014	X		
Ball Field	C-13-14	15	C-13-14_15	12/3/2014	X		
Ball Field	C-13-14	17	C-13-14_17	12/3/2014	X	X	
Ball Field	C-16-14	3	C-16-14_3	12/3/2014	X		X
Ball Field	C-16-14	5	C-16-14_5	12/3/2014	X		X
Ball Field	C-16-14	7	C-16-14_7	12/3/2014	X	X	X
Ball Field	C-16-14	9	C-16-14_9	12/3/2014	X		X
Ball Field	C-18-14	3	C-18-14_3	12/3/2014	X		X
Ball Field	C-18-14	5	C-18-14_5	12/3/2014	X		X
Ball Field	C-18-14	7	C-18-14_7	12/3/2014	X	X	X
Ball Field	C-18-14	9	C-18-14_9	12/3/2014	X		X
Ball Field	C-4-14	3	C-4-14_3	12/3/2014	X		X
Ball Field	C-4-14	5	C-4-14_5	12/3/2014	X		X
Ball Field	C-4-14	7	C-4-14_7	12/3/2014	X		X
Ball Field	C-4-14	9	C-4-14_9	12/3/2014	X		X

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis	
						PCB (3)	Metals
Ball Field	C-5-14	3	C-5-14_3	12/3/2014	X		X
Ball Field	C-5-14	5	C-5-14_5	12/3/2014	X	X	X
Ball Field	C-5-14	7	C-5-14_7	12/3/2014	X		X
Ball Field	C-5-14	9	C-5-14_9	12/3/2014	X		X
Ball Field	C-6-14	3	C-6-14_3	12/3/2014	X		X
Ball Field	C-6-14	5	C-6-14_5	12/3/2014	X		X
Ball Field	C-6-14	7	C-6-14_7	12/3/2014	X		X
Ball Field	C-6-14	9	C-6-14_9	12/3/2014	X	X	X
Ball Field	C-8-14	3	C-8-14_3	12/3/2014	X		X
Ball Field	C-8-14	5	C-8-14_5	12/3/2014	X		X
Ball Field	C-8-14	7	C-8-14_7	12/3/2014	X		X
Ball Field	C-8-14	9	C-8-14_9	12/3/2014	X		X
Ball Field	E-4-14	3	E-4-14_3	12/3/2014	X		
Ball Field	E-4-14	5	E-4-14_5	12/3/2014	X		
Ball Field	E-4-14	7	E-4-14_7	12/3/2014	X		
Ball Field	E-4-14	9	E-4-14_9	12/3/2014	X		
Ball Field	E-4-14	11	E-4-14_11	12/3/2014	X		
Ball Field	E-4-14	13	E-4-14_13	12/3/2014	X		
Ball Field	E-4-14	15	E-4-14_15	12/3/2014	X		
Ball Field	E-4-14	17	E-4-14_17	12/3/2014	X		
Ball Field	E-4-14	19	E-4-14_19	12/3/2014	X	X	
Ball Field	E-5-14	11	E-5-14_11	12/3/2014	X	X	
Ball Field	E-5-14	13	E-5-14_13	12/3/2014	X		
Ball Field	E-5-14	15	E-5-14_15	12/3/2014	X		
Ball Field	E-5-14	17	E-5-14_17	12/3/2014	X		
Ball Field	E-5-14	19	E-5-14_19	12/3/2014	X		
Ball Field	E-6-14	3	E-6-14_3	12/3/2014	X		X
Ball Field	E-6-14	5	E-6-14_5	12/3/2014	X		X
Ball Field	E-6-14	7	E-6-14_7	12/3/2014	X		X
Ball Field	E-6-14	9	E-6-14_9	12/3/2014	X		X
Ball Field	N-10-14	3	N-10-14_3	12/3/2014	X		X
Ball Field	N-10-14	5	N-10-14_5	12/3/2014	X		X
Ball Field	N-10-14	7	N-10-14_7	12/3/2014	X		X
Ball Field	N-10-14	9	N-10-14_9	12/3/2014	X		X
Ball Field	N-10-14	11	N-10-14_11	12/3/2014	X		X
Ball Field	N-10-14	13	N-10-14_13	12/3/2014	X		
Ball Field	N-10-14	15	N-10-14_15	12/3/2014	X		
Ball Field	N-10-14	17	N-10-14_17	12/3/2014	X		
Ball Field	N-10-14	19	N-10-14_19	12/3/2014	X		
Ball Field	N-11-14	3	N-11-14_3	12/3/2014	X		X
Ball Field	N-11-14	5	N-11-14_5	12/3/2014	X		X
Ball Field	N-11-14	7	N-11-14_7	12/3/2014	X		X
Ball Field	N-11-14	9	N-11-14_9	12/3/2014	X		X
Ball Field	N-11-14	11	N-11-14_11	12/3/2014	X		
Ball Field	N-11-14	13	N-11-14_13	12/3/2014	X		
Ball Field	N-11-14	15	N-11-14_15	12/3/2014	X		
Ball Field	N-11-14	17	N-11-14_17	12/3/2014	X		
Ball Field	N-11-14	19	N-11-14_19	12/3/2014	X		
Ball Field	N-20-14	3	N-20-14_3	12/3/2014	X	X	X
Ball Field	O-10-14	3	O-10-14_3	12/3/2014	X		X
Ball Field	O-10-14	5	O-10-14_5	12/3/2014	X		X
Ball Field	O-10-14	7	O-10-14_7	12/3/2014	X		X
Ball Field	O-10-14	9	O-10-14_9	12/3/2014	X		X
Ball Field	O-10-14	11	O-10-14_11	12/3/2014	X	X	

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	O-10-14	13	O-10-14_13	12/3/2014	X	X	
Ball Field	O-10-14	15	O-10-14_15	12/3/2014	X		
Ball Field	O-10-14	17	O-10-14_17	12/3/2014	X		
Ball Field	O-10-14	19	O-10-14_19	12/3/2014	X		
Ball Field	O-11-14	3	O-11-14_3	12/3/2014	X		X
Ball Field	O-11-14	5	O-11-14_5	12/3/2014	X		X
Ball Field	O-11-14	7	O-11-14_7	12/3/2014	X		X
Ball Field	O-11-14	9	O-11-14_9	12/3/2014	X		X
Ball Field	O-11-14	11	O-11-14_11	12/3/2014	X		
Ball Field	O-11-14	13	O-11-14_13	12/3/2014	X	X	
Ball Field	O-11-14	15	O-11-14_15	12/3/2014	X		
Ball Field	O-11-14	17	O-11-14_17	12/3/2014	X		
Ball Field	O-11-14	19	O-11-14_19	12/3/2014	X		
Ball Field	O-12-14	3	O-12-14_3	12/3/2014	X	X	X
Ball Field	O-12-14	5	O-12-14_5	12/3/2014	X	X	X
Ball Field	O-12-14	7	O-12-14_7	12/3/2014	X		X
Ball Field	O-12-14	9	O-12-14_9	12/3/2014	X		X
Ball Field	O-20-14	3	O-20-14_3	12/3/2014	X		X
Ball Field	O-20-14	5	O-20-14_5	12/3/2014	X		X
Ball Field	O-20-14	7	O-20-14_7	12/3/2014	X		X
Ball Field	O-20-14	9	O-20-14_9	12/3/2014	X	X	X
Ball Field	O-9-14	11	O-9-14_11	12/3/2014	X		
Ball Field	O-9-14	13	O-9-14_13	12/3/2014	X	X	
Ball Field	O-9-14	15	O-9-14_15	12/3/2014	X		
Ball Field	O-9-14	17	O-9-14_17	12/3/2014	X		
Ball Field	O-9-14	19	O-9-14_19	12/3/2014	X		
Ball Field	P-10-14	11	P-10-14_11	12/3/2014	X		
Ball Field	P-10-14	13	P-10-14_13	12/3/2014	X	X	
Ball Field	P-10-14	15	P-10-14_15	12/3/2014	X	X	
Ball Field	P-10-14	17	P-10-14_17	12/3/2014	X	X	
Ball Field	P-10-14	19	P-10-14_19	12/3/2014	X		
Ball Field	S-8-14	1	S-8-14_1	12/3/2014	X		X
Ball Field	D-10-14	11	D-10-14_11	12/4/2014		X	
Ball Field	D-10-14	13	D-10-14_13	12/4/2014		X	
Ball Field	D-10-14	15	D-10-14_15	12/4/2014		X	
Ball Field	D-10-14	21	D-10-14_21	12/4/2014		X	
Ball Field	D-10-14	23	D-10-14_23	12/4/2014		X	
Ball Field	D-12-14	11	D-12-14_11	12/4/2014		X	
Ball Field	D-12-14	13	D-12-14_13	12/4/2014		X	
Ball Field	D-12-14	15	D-12-14_15	12/4/2014		X	
Ball Field	D-12-14	17	D-12-14_17	12/4/2014		X	
Ball Field	D-12-14	19	D-12-14_19	12/4/2014		X	
Ball Field	D-12-14	21	D-12-14_21	12/4/2014		X	
Ball Field	D-12-14	23	D-12-14_23	12/4/2014		X	
Ball Field	D-14-14	11	D-14-14_11	12/4/2014		X	
Ball Field	D-14-14	13	D-14-14_13	12/4/2014		X	
Ball Field	D-14-14	15	D-14-14_15	12/4/2014		X	
Ball Field	D-14-14	17	D-14-14_17	12/4/2014		X	
Ball Field	D-14-14	19	D-14-14_19	12/4/2014		X	
Ball Field	D-4-14	11	D-4-14_11	12/4/2014		X	
Ball Field	D-4-14	13	D-4-14_13	12/4/2014		X	
Ball Field	D-4-14	15	D-4-14_15	12/4/2014		X	
Ball Field	D-4-14	17	D-4-14_17	12/4/2014		X	
Ball Field	D-4-14	19	D-4-14_19	12/4/2014		X	

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	E-11-14	3	E-11-14_3	12/4/2014	X		X
Ball Field	E-11-14	5	E-11-14_5	12/4/2014	X		X
Ball Field	E-11-14	7	E-11-14_7	12/4/2014	X		X
Ball Field	E-11-14	9	E-11-14_9	12/4/2014	X		X
Ball Field	E-11-14	11	E-11-14_11	12/4/2014	X		
Ball Field	E-11-14	13	E-11-14_13	12/4/2014	X		
Ball Field	E-11-14	15	E-11-14_15	12/4/2014	X		
Ball Field	E-11-14	17	E-11-14_17	12/4/2014	X		
Ball Field	E-11-14	19	E-11-14_19	12/4/2014	X		
Ball Field	E-11-14	21	E-11-14_21	12/4/2014	X		
Ball Field	E-11-14	23	E-11-14_23	12/4/2014	X	X	
Ball Field	E-13-14	11	E-13-14_11	12/4/2014	X		
Ball Field	E-13-14	13	E-13-14_13	12/4/2014	X		
Ball Field	E-13-14	15	E-13-14_15	12/4/2014	X		
Ball Field	E-13-14	17	E-13-14_17	12/4/2014	X		
Ball Field	E-13-14	19	E-13-14_19	12/4/2014	X		
Ball Field	E-13-14	21	E-13-14_21	12/4/2014	X		
Ball Field	E-13-14	23	E-13-14_23	12/4/2014	X		
Ball Field	E-15-14	11	E-15-14_11	12/4/2014	X		
Ball Field	E-15-14	13	E-15-14_13	12/4/2014	X		
Ball Field	E-15-14	15	E-15-14_15	12/4/2014	X		
Ball Field	E-15-14	17	E-15-14_17	12/4/2014	X	X	
Ball Field	E-15-14	19	E-15-14_19	12/4/2014	X		
Ball Field	E-17-14	11	E-17-14_11	12/4/2014		X	
Ball Field	E-17-14	13	E-17-14_13	12/4/2014		X	
Ball Field	E-17-14	15	E-17-14_15	12/4/2014		X	
Ball Field	E-17-14	17	E-17-14_17	12/4/2014		X	
Ball Field	E-17-14	19	E-17-14_19	12/4/2014		X	
Ball Field	E-18-14	3	E-18-14_3	12/4/2014		X	X
Ball Field	E-18-14	5	E-18-14_5	12/4/2014		X	X
Ball Field	E-18-14	7	E-18-14_7	12/4/2014		X	X
Ball Field	E-18-14	9	E-18-14_9	12/4/2014		X	X
Ball Field	E-9-14	3	E-9-14_3	12/4/2014	X		X
Ball Field	E-9-14	5	E-9-14_5	12/4/2014	X		X
Ball Field	E-9-14	7	E-9-14_7	12/4/2014	X		X
Ball Field	E-9-14	9	E-9-14_9	12/4/2014	X		X
Ball Field	F-10-14	3	F-10-14_3	12/4/2014		X	X
Ball Field	F-10-14	5	F-10-14_5	12/4/2014		X	X
Ball Field	F-10-14	7	F-10-14_7	12/4/2014		X	X
Ball Field	F-10-14	9	F-10-14_9	12/4/2014		X	X
Ball Field	F-10-14	11	F-10-14_11	12/4/2014		X	
Ball Field	F-10-14	13	F-10-14_13	12/4/2014		X	
Ball Field	F-10-14	15	F-10-14_15	12/4/2014		X	
Ball Field	F-10-14	17	F-10-14_17	12/4/2014		X	
Ball Field	F-10-14	19	F-10-14_19	12/4/2014		X	
Ball Field	F-10-14	21	F-10-14_21	12/4/2014		X	
Ball Field	F-10-14	23	F-10-14_23	12/4/2014		X	
Ball Field	F-8-14	3	F-8-14_3	12/4/2014		X	X
Ball Field	F-8-14	5	F-8-14_5	12/4/2014		X	X
Ball Field	F-8-14	7	F-8-14_7	12/4/2014		X	X
Ball Field	F-8-14	9	F-8-14_9	12/4/2014		X	X
Ball Field	K-11-14	3	K-11-14_3	12/4/2014		X	X
Ball Field	K-11-14	5	K-11-14_5	12/4/2014		X	X
Ball Field	K-11-14	7	K-11-14_7	12/4/2014		X	X

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	K-11-14	9	K-11-14_9	12/4/2014		X	X
Ball Field	K-12-14	3	K-12-14_3	12/4/2014		X	X
Ball Field	K-12-14	5	K-12-14_5	12/4/2014		X	X
Ball Field	K-12-14	7	K-12-14_7	12/4/2014		X	X
Ball Field	K-12-14	9	K-12-14_9	12/4/2014		X	X
Ball Field	K-16-14	3	K-16-14_3	12/4/2014		X	X
Ball Field	K-16-14	5	K-16-14_5	12/4/2014		X	X
Ball Field	K-16-14	7	K-16-14_7	12/4/2014		X	X
Ball Field	K-16-14	9	K-16-14_9	12/4/2014		X	X
Ball Field	K-18-14	3	K-18-14_3	12/4/2014		X	X
Ball Field	K-18-14	5	K-18-14_5	12/4/2014		X	X
Ball Field	K-18-14	7	K-18-14_7	12/4/2014		X	X
Ball Field	K-18-14	9	K-18-14_9	12/4/2014		X	X
Ball Field	K-20-14	3	K-20-14_3	12/4/2014		X	X
Ball Field	K-20-14	5	K-20-14_5	12/4/2014		X	X
Ball Field	K-20-14	7	K-20-14_7	12/4/2014		X	X
Ball Field	K-20-14	9	K-20-14_9	12/4/2014		X	X
Ball Field	L-11-14	3	L-11-14_3	12/4/2014		X	X
Ball Field	L-11-14	5	L-11-14_5	12/4/2014		X	X
Ball Field	L-11-14	7	L-11-14_7	12/4/2014		X	X
Ball Field	L-11-14	9	L-11-14_9	12/4/2014		X	X
Ball Field	L-13-14	3	L-13-14_3	12/4/2014		X	X
Ball Field	L-13-14	5	L-13-14_5	12/4/2014		X	X
Ball Field	L-13-14	7	L-13-14_7	12/4/2014		X	X
Ball Field	L-13-14	9	L-13-14_9	12/4/2014		X	X
Ball Field	L-19-14	3	L-19-14_3	12/4/2014		X	X
Ball Field	L-19-14	5	L-19-14_5	12/4/2014		X	X
Ball Field	L-19-14	7	L-19-14_7	12/4/2014		X	X
Ball Field	L-19-14	9	L-19-14_9	12/4/2014		X	X
Ball Field	L-19-14	11	L-19-14_11	12/4/2014		X	
Ball Field	L-19-14	13	L-19-14_13	12/4/2014		X	
Ball Field	L-21-14	3	L-21-14_3	12/4/2014		X	X
Ball Field	L-21-14	5	L-21-14_5	12/4/2014		X	X
Ball Field	L-21-14	7	L-21-14_7	12/4/2014		X	X
Ball Field	L-21-14	9	L-21-14_9	12/4/2014		X	X
Ball Field	M-11-14	3	M-11-14_3	12/4/2014		X	X
Ball Field	M-11-14	5	M-11-14_5	12/4/2014		X	X
Ball Field	M-11-14	7	M-11-14_7	12/4/2014		X	X
Ball Field	M-11-14	9	M-11-14_9	12/4/2014		X	X
Ball Field	M-12-14	3	M-12-14_3	12/4/2014		X	X
Ball Field	M-12-14	5	M-12-14_5	12/4/2014		X	X
Ball Field	M-12-14	7	M-12-14_7	12/4/2014		X	X
Ball Field	M-12-14	9	M-12-14_9	12/4/2014		X	X
Ball Field	M-13-14	3	M-13-14_3	12/4/2014	X		X
Ball Field	M-13-14	5	M-13-14_5	12/4/2014	X		X
Ball Field	M-13-14	7	M-13-14_7	12/4/2014	X	X	X
Ball Field	M-13-14	9	M-13-14_9	12/4/2014	X		X
Ball Field	M-14-14	3	M-14-14_3	12/4/2014	X		X
Ball Field	M-14-14	5	M-14-14_5	12/4/2014	X		X
Ball Field	M-14-14	7	M-14-14_7	12/4/2014	X		X
Ball Field	M-14-14	9	M-14-14_9	12/4/2014	X		X
Ball Field	M-16-14	3	M-16-14_3	12/4/2014	X		X
Ball Field	M-16-14	5	M-16-14_5	12/4/2014	X		X
Ball Field	M-16-14	7	M-16-14_7	12/4/2014	X		X

Notes and Abbreviations at bottom of last page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	M-16-14	9	M-16-14_9	12/4/2014	X	X	X
Ball Field	M-19-14	3	M-19-14_3	12/4/2014	X	X	X
Ball Field	M-19-14	5	M-19-14_5	12/4/2014	X	X	X
Ball Field	M-19-14	7	M-19-14_7	12/4/2014	X		X
Ball Field	M-19-14	9	M-19-14_9	12/4/2014	X	X	X
Ball Field	M-20-14	3	M-20-14_3	12/4/2014	X		X
Ball Field	M-20-14	5	M-20-14_5	12/4/2014	X	X	X
Ball Field	M-20-14	7	M-20-14_7	12/4/2014	X		X
Ball Field	M-20-14	9	M-20-14_9	12/4/2014	X		X
Ball Field	M-8-14	3	M-8-14_3	12/4/2014		X	X
Ball Field	M-8-14	5	M-8-14_5	12/4/2014		X	X
Ball Field	M-8-14	7	M-8-14_7	12/4/2014		X	X
Ball Field	M-8-14	9	M-8-14_9	12/4/2014		X	X
Ball Field	N-9-14	11	N-9-14_11	12/4/2014	X		
Ball Field	N-9-14	13	N-9-14_13	12/4/2014	X		
Ball Field	N-9-14	15	N-9-14_15	12/4/2014	X		
Ball Field	N-9-14	17	N-9-14_17	12/4/2014	X		
Ball Field	N-9-14	19	N-9-14_19	12/4/2014	X		
Ball Field	F-12-14	11	F-12-14_11	12/5/2014		X	
Ball Field	F-12-14	13	F-12-14_13	12/5/2014		X	
Ball Field	F-12-14	15	F-12-14_15	12/5/2014		X	
Ball Field	F-12-14	17	F-12-14_17	12/5/2014		X	
Ball Field	F-12-14	19	F-12-14_19	12/5/2014		X	
Ball Field	F-12-14	21	F-12-14_21	12/5/2014		X	
Ball Field	F-12-14	23	F-12-14_23	12/5/2014		X	
Ball Field	F-14-14	11	F-14-14_11	12/5/2014		X	
Ball Field	F-14-14	13	F-14-14_13	12/5/2014		X	
Ball Field	F-14-14	15	F-14-14_15	12/5/2014		X	
Ball Field	F-14-14	17	F-14-14_17	12/5/2014		X	
Ball Field	F-14-14	19	F-14-14_19	12/5/2014		X	
Ball Field	F-16-14	11	F-16-14_11	12/5/2014		X	
Ball Field	F-16-14	13	F-16-14_13	12/5/2014		X	
Ball Field	F-16-14	15	F-16-14_15	12/5/2014		X	
Ball Field	F-16-14	17	F-16-14_17	12/5/2014		X	
Ball Field	F-16-14	19	F-16-14_19	12/5/2014		X	
Ball Field	F-18-14	11	F-18-14_11	12/5/2014		X	
Ball Field	F-18-14	13	F-18-14_13	12/5/2014		X	
Ball Field	F-18-14	15	F-18-14_15	12/5/2014		X	
Ball Field	F-18-14	17	F-18-14_17	12/5/2014		X	
Ball Field	F-18-14	19	F-18-14_19	12/5/2014		X	
Ball Field	G-11-14	3	G-11-14_3	12/5/2014		X	X
Ball Field	G-11-14	5	G-11-14_5	12/5/2014		X	X
Ball Field	G-11-14	7	G-11-14_7	12/5/2014		X	X
Ball Field	G-11-14	9	G-11-14_9	12/5/2014		X	X
Ball Field	G-11-14	11	G-11-14_11	12/5/2014		X	
Ball Field	G-11-14	13	G-11-14_13	12/5/2014		X	
Ball Field	G-11-14	15	G-11-14_15	12/5/2014		X	
Ball Field	G-11-14	17	G-11-14_17	12/5/2014		X	
Ball Field	G-11-14	19	G-11-14_19	12/5/2014		X	
Ball Field	G-11-14	21	G-11-14_21	12/5/2014		X	
Ball Field	G-11-14	23	G-11-14_23	12/5/2014		X	
Ball Field	G-13-14	11	G-13-14_11	12/5/2014		X	
Ball Field	G-13-14	13	G-13-14_13	12/5/2014		X	
Ball Field	G-13-14	15	G-13-14_15	12/5/2014		X	

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	G-13-14	17	G-13-14_17	12/5/2014		X	
Ball Field	G-13-14	19	G-13-14_19	12/5/2014		X	
Ball Field	G-13-14	21	G-13-14_21	12/5/2014		X	
Ball Field	G-13-14	23	G-13-14_23	12/5/2014		X	
Ball Field	G-15-14	11	G-15-14_11	12/5/2014		X	
Ball Field	G-15-14	13	G-15-14_13	12/5/2014		X	
Ball Field	G-15-14	15	G-15-14_15	12/5/2014		X	
Ball Field	G-15-14	17	G-15-14_17	12/5/2014		X	
Ball Field	G-15-14	19	G-15-14_19	12/5/2014		X	
Ball Field	G-17-14	11	G-17-14_11	12/5/2014		X	
Ball Field	G-17-14	13	G-17-14_13	12/5/2014		X	
Ball Field	G-17-14	15	G-17-14_15	12/5/2014		X	
Ball Field	G-17-14	17	G-17-14_17	12/5/2014		X	
Ball Field	G-17-14	19	G-17-14_19	12/5/2014		X	
Ball Field	G-18-14	3	G-18-14_3	12/5/2014		X	X
Ball Field	G-18-14	5	G-18-14_5	12/5/2014		X	X
Ball Field	G-18-14	7	G-18-14_7	12/5/2014		X	X
Ball Field	G-6-14	3	G-6-14_3	12/5/2014		X	X
Ball Field	G-6-14	5	G-6-14_5	12/5/2014		X	X
Ball Field	G-6-14	7	G-6-14_7	12/5/2014		X	X
Ball Field	G-6-14	9	G-6-14_9	12/5/2014		X	X
Ball Field	G-9-14	3	G-9-14_3	12/5/2014		X	X
Ball Field	G-9-14	5	G-9-14_5	12/5/2014		X	X
Ball Field	G-9-14	7	G-9-14_7	12/5/2014		X	X
Ball Field	G-9-14	9	G-9-14_9	12/5/2014		X	X
Ball Field	H-8-14	3	H-8-14_3	12/5/2014		X	X
Ball Field	H-8-14	5	H-8-14_5	12/5/2014		X	X
Ball Field	H-8-14	7	H-8-14_7	12/5/2014		X	X
Ball Field	H-8-14	9	H-8-14_9	12/5/2014		X	X
Ball Field	I-13-14	11	I-13-14_11	12/5/2014		X	
Ball Field	I-13-14	13	I-13-14_13	12/5/2014		X	
Ball Field	I-13-14	15	I-13-14_15	12/5/2014		X	
Ball Field	I-13-14	17	I-13-14_17	12/5/2014		X	
Ball Field	I-13-14	19	I-13-14_19	12/5/2014		X	
Ball Field	I-13-14	21	I-13-14_21	12/5/2014		X	
Ball Field	I-18-14	3	I-18-14_3	12/5/2014		X	X
Ball Field	I-18-14	5	I-18-14_5	12/5/2014		X	X
Ball Field	I-18-14	7	I-18-14_7	12/5/2014		X	X
Ball Field	I-18-14	9	I-18-14_9	12/5/2014		X	X
Ball Field	I-20-14	3	I-20-14_3	12/5/2014		X	X
Ball Field	I-20-14	5	I-20-14_5	12/5/2014		X	X
Ball Field	I-20-14	7	I-20-14_7	12/5/2014		X	X
Ball Field	I-20-14	9	I-20-14_9	12/5/2014		X	X
Ball Field	J-10-14	3	J-10-14_3	12/5/2014		X	X
Ball Field	J-10-14	5	J-10-14_5	12/5/2014		X	X
Ball Field	J-10-14	7	J-10-14_7	12/5/2014		X	X
Ball Field	J-10-14	9	J-10-14_9	12/5/2014		X	X
Ball Field	J-10-14	11	J-10-14_11	12/5/2014		X	
Ball Field	J-10-14	13	J-10-14_13	12/5/2014		X	
Ball Field	J-10-14	15	J-10-14_15	12/5/2014		X	
Ball Field	J-10-14	17	J-10-14_17	12/5/2014		X	
Ball Field	J-10-14	19	J-10-14_19	12/5/2014		X	
Ball Field	J-10-14	21	J-10-14_21	12/5/2014		X	

Notes and Abbreviations on last page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	J-12-14	3	J-12-14_3	12/5/2014		X	X
Ball Field	J-12-14	5	J-12-14_5	12/5/2014		X	X
Ball Field	J-12-14	7	J-12-14_7	12/5/2014		X	X
Ball Field	J-12-14	9	J-12-14_9	12/5/2014		X	X
Ball Field	J-12-14	11	J-12-14_11	12/5/2014		X	
Ball Field	J-12-14	13	J-12-14_13	12/5/2014		X	
Ball Field	J-12-14	15	J-12-14_15	12/5/2014		X	
Ball Field	J-12-14	17	J-12-14_17	12/5/2014		X	
Ball Field	J-12-14	19	J-12-14_19	12/5/2014		X	
Ball Field	J-12-14	21	J-12-14_21	12/5/2014		X	
Ball Field	J-13-14	11	J-13-14_11	12/5/2014		X	
Ball Field	J-13-14	13	J-13-14_13	12/5/2014		X	
Ball Field	J-13-14	15	J-13-14_15	12/5/2014		X	
Ball Field	J-13-14	17	J-13-14_17	12/5/2014		X	
Ball Field	J-13-14	19	J-13-14_19	12/5/2014		X	
Ball Field	J-13-14	21	J-13-14_21	12/5/2014		X	
Ball Field	J-19-14	3	J-19-14_3	12/5/2014		X	X
Ball Field	J-19-14	5	J-19-14_5	12/5/2014		X	X
Ball Field	J-19-14	7	J-19-14_7	12/5/2014		X	X
Ball Field	J-19-14	9	J-19-14_9	12/5/2014		X	X
Ball Field	J-5-14	3	J-5-14_3	12/5/2014		X	X
Ball Field	J-5-14	5	J-5-14_5	12/5/2014		X	X
Ball Field	J-5-14	7	J-5-14_7	12/5/2014		X	X
Ball Field	J-5-14	9	J-5-14_9	12/5/2014		X	X
Ball Field	J-8-14	3	J-8-14_3	12/5/2014		X	X
Ball Field	J-8-14	5	J-8-14_5	12/5/2014		X	X
Ball Field	J-8-14	7	J-8-14_7	12/5/2014		X	X
Ball Field	J-8-14	9	J-8-14_9	12/5/2014		X	X
Ball Field	K-5-14	3	K-5-14_3	12/5/2014		X	X
Ball Field	K-5-14	5	K-5-14_5	12/5/2014		X	X
Ball Field	K-5-14	7	K-5-14_7	12/5/2014		X	X
Ball Field	K-5-14	9	K-5-14_9	12/5/2014		X	X
Ball Field	K-9-14	3	K-9-14_3	12/5/2014		X	X
Ball Field	K-9-14	5	K-9-14_5	12/5/2014		X	X
Ball Field	K-9-14	7	K-9-14_7	12/5/2014		X	X
Ball Field	K-9-14	9	K-9-14_9	12/5/2014		X	X
Ball Field	M-10-14	3	M-10-14_3	12/5/2014		X	X
Ball Field	M-10-14	5	M-10-14_5	12/5/2014		X	X
Ball Field	M-10-14	7	M-10-14_7	12/5/2014		X	X
Ball Field	M-10-14	9	M-10-14_9	12/5/2014		X	X
Ball Field	H-10-14	3	H-10-14_3	12/8/2014		X	X
Ball Field	H-10-14	5	H-10-14_5	12/8/2014		X	X
Ball Field	H-10-14	7	H-10-14_7	12/8/2014		X	X
Ball Field	H-10-14	9	H-10-14_9	12/8/2014		X	X
Ball Field	H-10-14	11	H-10-14_11	12/8/2014		X	
Ball Field	H-10-14	13	H-10-14_13	12/8/2014		X	
Ball Field	H-10-14	15	H-10-14_15	12/8/2014		X	
Ball Field	H-10-14	17	H-10-14_17	12/8/2014		X	
Ball Field	H-10-14	19	H-10-14_19	12/8/2014		X	
Ball Field	H-10-14	21	H-10-14_21	12/8/2014		X	
Ball Field	H-12-14	11	H-12-14_11	12/8/2014		X	
Ball Field	H-12-14	13	H-12-14_13	12/8/2014		X	
Ball Field	H-12-14	15	H-12-14_15	12/8/2014		X	
Ball Field	H-12-14	17	H-12-14_17	12/8/2014		X	

Notes and Abbreviations on last page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	H-12-14	19	H-12-14_19	12/8/2014		X	
Ball Field	H-12-14	21	H-12-14_21	12/8/2014		X	
Ball Field	H-14-14	11	H-14-14_11	12/8/2014		X	
Ball Field	H-14-14	13	H-14-14_13	12/8/2014		X	
Ball Field	H-14-14	15	H-14-14_15	12/8/2014		X	
Ball Field	H-14-14	17	H-14-14_17	12/8/2014		X	
Ball Field	H-14-14	19	H-14-14_19	12/8/2014		X	
Ball Field	H-14-14	21	H-14-14_21	12/8/2014		X	
Ball Field	I-11-14	3	I-11-14_3	12/8/2014		X	X
Ball Field	I-11-14	5	I-11-14_5	12/8/2014		X	X
Ball Field	I-11-14	7	I-11-14_7	12/8/2014		X	X
Ball Field	I-11-14	9	I-11-14_9	12/8/2014		X	X
Ball Field	I-11-14	11	I-11-14_11	12/8/2014		X	
Ball Field	I-11-14	13	I-11-14_13	12/8/2014		X	
Ball Field	I-11-14	15	I-11-14_15	12/8/2014		X	
Ball Field	I-11-14	17	I-11-14_17	12/8/2014		X	
Ball Field	I-11-14	19	I-11-14_19	12/8/2014		X	
Ball Field	I-11-14	21	I-11-14_21	12/8/2014		X	
Ball Field	I-6-14	3	I-6-14_3	12/8/2014		X	X
Ball Field	I-6-14	5	I-6-14_5	12/8/2014		X	X
Ball Field	I-6-14	7	I-6-14_7	12/8/2014		X	X
Ball Field	I-6-14	9	I-6-14_9	12/8/2014		X	X
Ball Field	I-9-14	3	I-9-14_3	12/8/2014		X	X
Ball Field	I-9-14	5	I-9-14_5	12/8/2014		X	X
Ball Field	I-9-14	7	I-9-14_7	12/8/2014		X	X
Ball Field	I-9-14	9	I-9-14_9	12/8/2014		X	X
Access Road W	nAA-25-14	1	nAA-25-14_1	12/15/2014		X	X
Access Road W	nAF-24-14	1	nAF-24-14_1	12/15/2014		X	X
Access Road W	nAF-25-14	1	nAF-25-14_1	12/15/2014		X	X
Access Road W	nAJ-24-14	1	nAJ-24-14_1	12/15/2014		X	X
Access Road W	nAL-24-14	1	nAL-24-14_1	12/15/2014		X	X
Access Road E	nAO-23-14	1	nAO-23-14_1	12/15/2014		X	X
Access Road E	nAP-24-14	1	nAP-24-14_1	12/15/2014		X	X
Eastern Park	nAS-21-14	1	nAS-21-14_1	12/15/2014		X	
Eastern Park	nAW-21-14	1	nAW-21-14_1	12/15/2014		X	
Eastern Park	nAX-7-14	1	nAX-7-14_1	12/15/2014		X	
Eastern Park	nAY-21-14	1	nAY-21-14_1	12/15/2014		X	
Eastern Park	nAY-6-14	1	nAY-6-14_1	12/15/2014		X	
Eastern Park	nAY-9-14	1	nAY-9-14_1	12/15/2014		X	
Eastern Park	nAZ-11-14	1	nAZ-11-14_1	12/15/2014		X	
Eastern Park	nAZ-7-14	1	nAZ-7-14_1	12/15/2014		X	
Access Road W	nB-26-14	1	nB-26-14_1	12/15/2014		X	X
Eastern Park	nBA-12-14	1	nBA-12-14_1	12/15/2014		X	
Eastern Park	nBA-9-14	1	nBA-9-14_1	12/15/2014		X	
Eastern Park	nBB-11-14	1	nBB-11-14_1	12/15/2014		X	
Eastern Park	nBB-13-14	1	nBB-13-14_1	12/15/2014		X	
Eastern Park	nBB-14-14	1	nBB-14-14_1	12/15/2014		X	
Eastern Park	nBC-15-14	1	nBC-15-14_1	12/15/2014		X	
Eastern Park	nBD-18-14	1	nBD-18-14_1	12/15/2014		X	X
Eastern Park	nBD-18-14	3	nBD-18-14_3	12/15/2014		X	X
Eastern Park	nBD-18-14	5	nBD-18-14_5	12/15/2014		X	X
Eastern Park	nBD-18-14	7	nBD-18-14_7	12/15/2014		X	X
Eastern Park	nBD-18-14	9	nBD-18-14_9	12/15/2014		X	X

Notes and Abbreviations on last page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Eastern Park	nBE-16-14	1	nBE-16-14_1	12/15/2014		X	X
Eastern Park	nBE-16-14	3	nBE-16-14_3	12/15/2014		X	X
Eastern Park	nBE-16-14	5	nBE-16-14_5	12/15/2014		X	X
Eastern Park	nBE-16-14	7	nBE-16-14_7	12/15/2014		X	X
Eastern Park	nBE-16-14	9	nBE-16-14_9	12/15/2014		X	X
Eastern Park	nBE-18-14	1	nBE-18-14_1	12/15/2014		X	X
Eastern Park	nBE-18-14	3	nBE-18-14_3	12/15/2014		X	X
Eastern Park	nBE-18-14	5	nBE-18-14_5	12/15/2014		X	X
Eastern Park	nBE-18-14	7	nBE-18-14_7	12/15/2014		X	X
Eastern Park	nBE-18-14	9	nBE-18-14_9	12/15/2014		X	X
Access Road W	nC-24-14	1	nC-24-14_1	12/15/2014		X	X
Access Road W	nD-24-14	1	nD-24-14_1	12/15/2014		X	X
Access Road W	nP-23-14	1	nP-23-14_1	12/15/2014		X	X
Access Road W	nZZB-12-14	1	nZZB-12-14_1	12/15/2014		X	X
Access Road W	nZZB-19-14	1	nZZB-19-14_1	12/15/2014		X	X
Access Road W	nZZC-12-14	1	nZZC-12-14_1	12/15/2014		X	X
Access Road W	nZZC-19-14	1	nZZC-19-14_1	12/15/2014		X	X
Playground Area Sampling							
Southern Park	AE-22-15	2 inches	AE-22-15	4/24/2015		X	
Southern Park	AG-22-15	2 inches	AG-22-15	4/24/2015		X	
Southern Park	AH-20-15	2 inches	AH-20-15	4/24/2015		X	
Southern Park	nAG-19-15	2 inches	nAG-19-15	4/24/2015		X	
Southern Park	nAH-17-15	2 inches	nAH-17-15	4/24/2015		X	
Southern Park	nAJ-20-15	2 inches	nAJ-20-15	4/24/2015		X	
Southern Park	nV-17-15	2 inches	nV-17-15	4/24/2015		X	
Southern Park	nW-17-15	2 inches	nW-17-15	4/24/2015		X	
Southern Park	nY-17-15	2 inches	nY-17-15	4/24/2015		X	
Southern Park	nAA-17-15	2 inches	nAA-17-15	5/4/2015		X	
Southern Park	nAD-17-15	2 inches	nAD-17-15	5/4/2015		X	
Southern Park	nAI-18-15	2 inches	nAI-18-15	5/4/2015		X	
Southern Park	AI-21-15	2 inches	AI-21-15	5/4/2015		X	
Southern Park	nV-22-15	2 inches	nV-22-15	5/4/2015		X	X (4)
Southern Park	X-22-15	2 inches	X-22-15	5/4/2015		X	
Southern Park	nAA-22-15	2 inches	nAA-22-15	5/4/2015		X	
Southern Park	nAJ-22-15	2 inches	nAJ-22-15	5/4/2015		X	
Phase 2 Step Out Sampling							
Access Road	AJ-25-15	1	AJ-25-15 (0-2)	5/13/2015		X	
Access Road	AJ-25-15	3	AJ-25-15 (2-4)	5/13/2015		X	
Access Road	AJ-25-15	5	AJ-25-15 (4-6)	5/13/2015		X	
Access Road	AJ-25-15	7	AJ-25-15 (6-8)	5/13/2015		X	
Access Road	AJ-25-15	9	AJ-25-15 (9)	5/13/2015		X	
Access Road	AG-23-15	1	AG-23-15 (0-2)	5/13/2015		X	
Access Road	AG-23-15	3	AG-23-15 (2-4)	5/13/2015		X	
Access Road	AG-23-15	5	AG-23-15 (4-6)	5/13/2015		X	
Access Road	AG-23-15	7	AG-23-15 (6-8)	5/13/2015		X	
Access Road	AG-23-15	9	AG-23-15 (8-10)	5/13/2015		X	
Access Road	AP-25-15	1	AP-25-15 (0-2)	5/13/2015		X	
Access Road	AP-25-15	3	AP-25-15 (2-4)	5/13/2015		X	
Access Road	AP-25-15	5	AP-25-15 (4-6)	5/13/2015		X	
Access Road	AP-25-15	7	AP-25-15 (6-8)	5/13/2015		X	
Access Road	AP-25-15	9	AP-25-15 (8-10)	5/13/2015		X	
Access Road	nAW-26-15	1	nAW-26-15 (0-2)	5/13/2015		X	
Access Road	nAW-26-15	3	nAW-26-15 (2-4)	5/13/2015		X	

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Access Road	nAW-26-15	5	nAW-26-15 (4-6)	5/13/2015		X	
Access Road	nAW-26-15	7	nAW-26-15 (6-8)	5/13/2015		X	
Access Road	nAW-26-15	9	nAW-26-15 (8-10)	5/13/2015		X	
Access Road	nBB-27-15	1	nBB-27-15 (0-2)	5/13/2015		X	
Access Road	nBB-27-15	3	nBB-27-15 (2-4)	5/13/2015		X	
Access Road	nBB-27-15	5	nBB-27-15 (4-6)	5/13/2015		X	
Access Road	nBB-27-15	7	nBB-27-15 (6-8)	5/13/2015		X	
Access Road	nBB-27-15	9	nBB-27-15 (8-10)	5/13/2015		X	
Access Road	BE-26-15	1	BE-26-15 (0-2)	5/13/2015		X	
Access Road	BE-26-15	3	BE-26-15 (2-4)	5/13/2015		X	
Access Road	BE-26-15	5	BE-26-15 (4-6)	5/13/2015		X	
Access Road	BE-26-15	7	BE-26-15 (6-8)	5/13/2015		X	
Access Road	BE-26-15	9	BE-26-15 (8-10)	5/13/2015		X	
Access Road	BF-24-15	1	BF-24-15 (0-2)	5/13/2015		X	
Access Road	BF-24-15	3	BF-24-15 (2-4)	5/13/2015		X	
Access Road	BF-24-15	5	BF-24-15 (4-6)	5/13/2015		X	
Access Road	BF-24-15	7	BF-24-15 (6-8)	5/13/2015		X	
Access Road	BF-24-15	9	BF-24-15 (8-10)	5/13/2015		X	
Access Road	nAY-26-15	1	nAY-26-15 (0-2)	5/13/2015		X	X
Access Road	nAY-26-15	3	nAY-26-15 (2-4)	5/13/2015		X	X
Access Road	nAY-26-15	5	nAY-26-15 (4-6)	5/13/2015		X	X
Access Road	nAY-26-15	7	nAY-26-15 (6-8)	5/13/2015		X	X
Access Road	nAY-26-15	9	nAY-26-15 (8-10)	5/13/2015		X	X
Access Road	AT-25-15	1	AT-25-15 (0-2)	5/13/2015		X	X
Access Road	AT-25-15	3	AT-25-15 (2-4)	5/13/2015		X	X
Access Road	AT-25-15	5	AT-25-15 (4-6)	5/13/2015		X	X
Access Road	AT-25-15	7	AT-25-15 (6-8)	5/13/2015		X	X
Access Road	AT-25-15	9	AT-25-15 (8-10)	5/13/2015		X	X
Access Road	nAE-23-15	1	nAE-23-15 (0-2)	5/13/2015		X	
Access Road	nAE-23-15	3	nAE-23-15 (2-4)	5/13/2015		X	
Access Road	nAO-22-15	1	nAO-22-15 (0-2)	5/13/2015		X	
Access Road	nAO-22-15	3	nAO-22-15 (2-4)	5/13/2015		X	
Access Road	nAO-22-15	5	nAO-22-15 (4-6)	5/13/2015		X	
Access Road	nAO-22-15	7	nAO-22-15 (6-8)	5/13/2015		X	
Access Road	nAO-22-15	9	nAO-22-15 (8-10)	5/13/2015		X	
Ball Field	J-2-15	1	J-2-15 (0-2)	5/4/2015		X	X
Ball Field	J-2-15	3	J-2-15 (2-4)	5/4/2015		X	X
Ball Field	J-2-15	5	J-2-15 (4-6)	5/4/2015		X	X
Ball Field	J-2-15	7	J-2-15 (6-8)	5/4/2015		X	X
Ball Field	J-2-15	9	J-2-15 (8-10)	5/4/2015		X	X
Ball Field	J-2-15	11	J-2-15 (10-12)	5/4/2015		X	X
Ball Field	J-2-15	13	J-2-15 (12-14)	5/4/2015		X	X
Ball Field	J-2-15	15	J-2-15 (14-16)	5/4/2015		X	X
Ball Field	J-2-15	17	J-2-15 (16-18)	5/4/2015		X	X
Ball Field	J-2-15	19	J-2-15 (18-20)	5/4/2015		X	X
Ball Field	J-2-15	21	J-2-15 (20-22)	5/4/2015		X	X
Ball Field	J-2-15	23	J-2-15 (22-24)	5/4/2015		X	X
Ball Field	J-2-15	25	J-2-15 (24-26)	5/4/2015		X	X
Ball Field	J-2-15	27	J-2-15 (26-28)	5/4/2015		X	X
Ball Field	J-2-15	29	J-2-15 (28-30)	5/4/2015		X	X
Ball Field	F-3-15	1	F-3-15 (0-2)	5/4/2015		X	X
Ball Field	F-3-15	3	F-3-15 (2-4)	5/4/2015		X	X
Ball Field	F-3-15	5	F-3-15 (4-6)	5/4/2015		X	X
Ball Field	F-3-15	7	F-3-15 (6-8)	5/4/2015		X	X

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	F-3-15	9	F-3-15 (8-10)	5/4/2015		X	X
Ball Field	F-3-15	11	F-3-15 (10-12)	5/4/2015		X	X
Ball Field	F-3-15	13	F-3-15 (12-14)	5/4/2015		X	X
Ball Field	F-3-15	15	F-3-15 (14-16)	5/4/2015		X	X
Ball Field	F-3-15	17	F-3-15 (16-18)	5/4/2015		X	X
Ball Field	F-3-15	19	F-3-15 (18-20)	5/4/2015		X	X
Ball Field	F-3-15	21	F-3-15 (20-22)	5/4/2015		X	X
Ball Field	F-3-15	23	F-3-15 (22-24)	5/4/2015		X	X
Ball Field	F-3-15	25	F-3-15 (24-26)	5/4/2015		X	X
Ball Field	F-3-15	27	F-3-15 (26-28)	5/4/2015		X	X
Ball Field	F-3-15	29	F-3-15 (28-30)	5/4/2015		X	X
Ball Field	nI-7-15	1	nI-7-15 (0-2)	5/5/2015		X	X
Ball Field	nI-7-15	3	nI-7-15 (2-4)	5/5/2015		X	X
Ball Field	nI-7-15	5	nI-7-15 (4-6)	5/5/2015		X	X
Ball Field	nI-7-15	7	nI-7-15 (6-8)	5/5/2015		X	X
Ball Field	nI-7-15	9	nI-7-15 (8-10)	5/5/2015		X	X
Ball Field	nI-7-15	11	nI-7-15 (10-12)	5/5/2015		X	X
Ball Field	nI-7-15	13	nI-7-15 (12-14)	5/5/2015		X	X
Ball Field	nI-7-15	15	nI-7-15 (14-16)	5/5/2015		X	X
Ball Field	nI-7-15	17	nI-7-15 (16-18)	5/5/2015		X	X
Ball Field	nI-7-15	19	nI-7-15 (18-20)	5/5/2015		X	X
Ball Field	nI-7-15	21	nI-7-15 (20-22)	5/5/2015		X	X
Ball Field	nI-7-15	23	nI-7-15 (22-24)	5/5/2015		X	X
Ball Field	nI-7-15	25	nI-7-15 (24-26)	5/5/2015		X	X
Ball Field	nI-7-15	27	nI-7-15 (26-28)	5/5/2015		X	X
Ball Field	nI-7-15	29	nI-7-15 (28-30)	5/5/2015		X	X
Ball Field	G-7-15	1	G-7-15 (0-2)	5/5/2015		X	X
Ball Field	G-7-15	3	G-7-15 (2-4)	5/5/2015		X	X
Ball Field	G-7-15	5	G-7-15 (4-6)	5/5/2015		X	X
Ball Field	G-7-15	7	G-7-15 (6-8)	5/5/2015		X	X
Ball Field	G-7-15	9	G-7-15 (8-10)	5/5/2015		X	X
Ball Field	G-7-15	11	G-7-15 (10-12)	5/5/2015		X	X
Ball Field	G-7-15	13	G-7-15 (12-14)	5/5/2015		X	X
Ball Field	G-7-15	15	G-7-15 (14-16)	5/5/2015		X	X
Ball Field	G-7-15	17	G-7-15 (16-18)	5/5/2015		X	X
Ball Field	G-7-15	19	G-7-15 (18-20)	5/5/2015		X	X
Ball Field	G-7-15	21	G-7-15 (20-22)	5/5/2015		X	X
Ball Field	G-7-15	23	G-7-15 (22-24)	5/5/2015		X	X
Ball Field	G-7-15	25	G-7-15 (24-26)	5/5/2015		X	X
Ball Field	G-7-15	27	G-7-15 (26-28)	5/5/2015		X	X
Ball Field	G-7-15	29	G-7-15 (28-30)	5/5/2015		X	X
Ball Field	nH-6-15	1	nH-6-15 (0-2)	5/5/2015		X	X
Ball Field	nH-6-15	3	nH-6-15 (2-4)	5/5/2015		X	X
Ball Field	nH-6-15	5	nH-6-15 (4-6)	5/5/2015		X	X
Ball Field	nH-6-15	7	nH-6-15 (6-8)	5/5/2015		X	X
Ball Field	nH-6-15	9	nH-6-15 (8-10)	5/5/2015		X	X
Ball Field	nH-6-15	11	nH-6-15 (10-12)	5/5/2015		X	X
Ball Field	nH-6-15	13	nH-6-15 (12-14)	5/5/2015		X	X
Ball Field	nH-6-15	15	nH-6-15 (14-16)	5/5/2015		X	X
Ball Field	nH-6-15	17	nH-6-15 (16-18)	5/5/2015		X	X
Ball Field	nH-6-15	19	nH-6-15 (18-20)	5/5/2015		X	X
Ball Field	nH-6-15	21	nH-6-15 (20-22)	5/5/2015		X	X
Ball Field	nH-6-15	23	nH-6-15 (22-24)	5/5/2015		X	X
Ball Field	nH-6-15	25	nH-6-15 (24-26)	5/5/2015		X	X

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	nH-6-15	27	nH-6-15 (26-28)	5/5/2015		X	X
Ball Field	nH-6-15	29	nH-6-15 (28-30)	5/5/2015		X	X
Ball Field	nK-7-15	1	nK-7-15 (0-2)	5/5/2015		X	X
Ball Field	nK-7-15	3	nK-7-15 (2-4)	5/5/2015		X	X
Ball Field	nK-7-15	5	nK-7-15 (4-6)	5/5/2015		X	X
Ball Field	nK-7-15	7	nK-7-15 (6-8)	5/5/2015		X	X
Ball Field	nK-7-15	9	nK-7-15 (8-10)	5/5/2015		X	X
Ball Field	nK-7-15	11	nK-7-15 (10-12)	5/5/2015		X	X
Ball Field	nK-7-15	13	nK-7-15 (12-14)	5/5/2015		X	X
Ball Field	nK-7-15	15	nK-7-15 (14-16)	5/5/2015		X	X
Ball Field	nK-7-15	17	nK-7-15 (16-18)	5/5/2015		X	X
Ball Field	nK-7-15	19	nK-7-15 (18-20)	5/5/2015		X	X
Ball Field	nK-7-15	21	nK-7-15 (20-22)	5/5/2015		X	X
Ball Field	nK-7-15	23	nK-7-15 (22-24)	5/5/2015		X	X
Ball Field	nK-7-15	25	nK-7-15 (24-26)	5/5/2015		X	X
Ball Field	nK-7-15	27	nK-7-15 (26-28)	5/5/2015		X	X
Ball Field	nK-7-15	29	nK-7-15 (28-30)	5/5/2015		X	X
Ball Field	nE-5-15	1	nE-5-15 (0-2)	5/5/2015		X	X
Ball Field	nE-5-15	3	nE-5-15 (2-4)	5/5/2015		X	X
Ball Field	nE-5-15	5	nE-5-15 (4-6)	5/5/2015		X	X
Ball Field	nE-5-15	7	nE-5-15 (6-8)	5/5/2015		X	X
Ball Field	nE-5-15	9	nE-5-15 (8-10)	5/5/2015		X	X
Ball Field	nE-5-15	11	nE-5-15 (10-12)	5/5/2015		X	X
Ball Field	nE-5-15	13	nE-5-15 (12-14)	5/5/2015		X	X
Ball Field	nE-5-15	15	nE-5-15 (14-16)	5/5/2015		X	X
Ball Field	nE-5-15	17	nE-5-15 (16-18)	5/5/2015		X	X
Ball Field	nE-5-15	19	nE-5-15 (18-20)	5/5/2015		X	X
Ball Field	nE-5-15	21	nE-5-15 (20-22)	5/5/2015		X	X
Ball Field	nE-5-15	23	nE-5-15 (22-24)	5/5/2015		X	X
Ball Field	nE-5-15	25	nE-5-15 (24-26)	5/5/2015		X	X
Ball Field	nE-5-15	27	nE-5-15 (26-28)	5/5/2015		X	X
Ball Field	nE-5-15	29	nE-5-15 (28-30)	5/5/2015		X	X
Ball Field	nB-4-15	1	nB-4-15 (0-2)	5/5/2015		X	X
Ball Field	nB-4-15	3	nB-4-15 (2-4)	5/5/2015		X	X
Ball Field	nB-4-15	5	nB-4-15 (4-6)	5/5/2015		X	X
Ball Field	nB-4-15	7	nB-4-15 (6-8)	5/5/2015		X	X
Ball Field	nB-4-15	9	nB-4-15 (8-10)	5/5/2015		X	X
Ball Field	nB-4-15	11	nB-4-15 (10-12)	5/5/2015		X	X
Ball Field	nB-4-15	13	nB-4-15 (12-14)	5/5/2015		X	X
Ball Field	nB-4-15	15	nB-4-15 (14-16)	5/5/2015		X	X
Ball Field	nB-4-15	17	nB-4-15 (16-18)	5/5/2015		X	X
Ball Field	nB-4-15	19	nB-4-15 (18-20)	5/5/2015		X	X
Ball Field	nB-4-15	21	nB-4-15 (20-22)	5/5/2015		X	X
Ball Field	nB-4-15	23	nB-4-15 (22-24)	5/5/2015		X	X
Ball Field	nB-4-15	25	nB-4-15 (24-26)	5/5/2015		X	X
Ball Field	nB-4-15	27	nB-4-15 (26-28)	5/5/2015		X	X
Ball Field	nB-4-15	29	nB-4-15 (28-30)	5/5/2015		X	X
Ball Field	nP-6-15	1	nP-6-15 (0-2)	5/7/2015		X	X
Ball Field	nP-6-15	3	nP-6-15 (2-4)	5/7/2015		X	X
Ball Field	nP-6-15	5	nP-6-15 (4-6)	5/7/2015		X	X
Ball Field	nP-6-15	7	nP-6-15 (6-8)	5/7/2015		X	X
Ball Field	nP-6-15	9	nP-6-15 (8-10)	5/7/2015		X	X
Ball Field	nP-6-15	11	nP-6-15 (10-12)	5/7/2015		X	X
Ball Field	nP-6-15	13	nP-6-15 (12-14)	5/7/2015		X	X

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	nP-6-15	15	nP-6-15 (14-16)	5/7/2015		X	X
Ball Field	nP-6-15	17	nP-6-15 (16-18)	5/7/2015		X	X
Ball Field	nP-6-15	19	nP-6-15 (18-20)	5/7/2015		X	X
Ball Field	nP-6-15	21	nP-6-15 (20-22)	5/7/2015		X	X
Ball Field	nP-6-15	23	nP-6-15 (22-24)	5/7/2015		X	X
Ball Field	nP-6-15	25	nP-6-15 (24-26)	5/7/2015		X	X
Ball Field	nP-6-15	27	nP-6-15 (26-28)	5/7/2015		X	X
Ball Field	nP-6-15	29	nP-6-15 (28-30)	5/7/2015		X	X
Ball Field	nM-6-15	1	nM-6-15 (0-2)	5/7/2015		X	X
Ball Field	nM-6-15	3	nM-6-15 (2-4)	5/7/2015		X	X
Ball Field	nM-6-15	5	nM-6-15 (4-6)	5/7/2015		X	X
Ball Field	nM-6-15	7	nM-6-15 (6-8)	5/7/2015		X	X
Ball Field	nM-6-15	9	nM-6-15 (8-10)	5/7/2015		X	X
Ball Field	nM-6-15	11	nM-6-15 (10-12)	5/7/2015		X	X
Ball Field	nM-6-15	13	nM-6-15 (12-14)	5/7/2015		X	X
Ball Field	nM-6-15	15	nM-6-15 (14-16)	5/7/2015		X	X
Ball Field	nM-6-15	17	nM-6-15 (16-18)	5/7/2015		X	X
Ball Field	nM-6-15	19	nM-6-15 (18-20)	5/7/2015		X	X
Ball Field	nM-6-15	21	nM-6-15 (20-22)	5/7/2015		X	X
Ball Field	nM-6-15	23	nM-6-15 (22-24)	5/7/2015		X	X
Ball Field	nM-6-15	25	nM-6-15 (24-26)	5/7/2015		X	X
Ball Field	nM-6-15	27	nM-6-15 (26-28)	5/7/2015		X	X
Ball Field	nM-6-15	29	nM-6-15 (28-30)	5/7/2015		X	X
Ball Field	nD-5-15	1	nD-5-15 (0-2)	5/8/2015		X	
Ball Field	nD-5-15	3	nD-5-15 (2-4)	5/8/2015		X	
Ball Field	nD-5-15	5	nD-5-15 (4-6)	5/8/2015		X	
Ball Field	nD-5-15	7	nD-5-15 (6-8)	5/8/2015		X	
Ball Field	nD-5-15	9	nD-5-15 (8-10)	5/8/2015		X	
Ball Field	nD-5-15	11	nD-5-15 (10-12)	5/8/2015		X	
Ball Field	nD-5-15	13	nD-5-15 (12-14)	5/8/2015		X	
Ball Field	nD-5-15	15	nD-5-15 (14-16)	5/8/2015		X	
Ball Field	nD-5-15	17	nD-5-15 (16-18)	5/8/2015		X	
Ball Field	nD-5-15	19	nD-5-15 (18-20)	5/8/2015		X	
Ball Field	nD-5-15	21	nD-5-15 (20-22)	5/8/2015		X	
Ball Field	nD-5-15	23	nD-5-15 (22-24)	5/8/2015		X	
Ball Field	nD-5-15	25	nD-5-15 (24-26)	5/8/2015		X	
Ball Field	nD-5-15	27	nD-5-15 (26-28)	5/8/2015		X	
Ball Field	nD-5-15	29	nD-5-15 (28-30)	5/8/2015		X	
Ball Field	C-6-15	1	C-6-15 (0-2)	5/8/2015		X	
Ball Field	C-6-15	3	C-6-15 (2-4)	5/8/2015		X	
Ball Field	C-6-15	5	C-6-15 (4-6)	5/8/2015		X	
Ball Field	C-6-15	7	C-6-15 (6-8)	5/8/2015		X	
Ball Field	C-6-15	9	C-6-15 (8-10)	5/8/2015		X	
Ball Field	C-6-15	11	C-6-15 (10-12)	5/8/2015		X	
Ball Field	C-6-15	13	C-6-15 (12-14)	5/8/2015		X	
Ball Field	C-6-15	15	C-6-15 (14-16)	5/8/2015		X	
Ball Field	C-6-15	17	C-6-15 (16-18)	5/8/2015		X	
Ball Field	C-6-15	19	C-6-15 (18-20)	5/8/2015		X	
Ball Field	C-6-15	21	C-6-15 (20-22)	5/8/2015		X	
Ball Field	C-6-15	23	C-6-15 (22-24)	5/8/2015		X	
Ball Field	C-6-15	25	C-6-15 (24-26)	5/8/2015		X	
Ball Field	C-6-15	27	C-6-15 (26-28)	5/8/2015		X	
Ball Field	C-6-15	29	C-6-15 (28-30)	5/8/2015		X	

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	nD-6-15	1	nD-6-15 (0-2)	5/8/2015		X	
Ball Field	nD-6-15	3	nD-6-15 (2-4)	5/8/2015		X	
Ball Field	nD-6-15	5	nD-6-15 (4-6)	5/8/2015		X	
Ball Field	nD-6-15	7	nD-6-15 (6-8)	5/8/2015		X	
Ball Field	nD-6-15	9	nD-6-15 (8-10)	5/8/2015		X	
Ball Field	nD-6-15	11	nD-6-15 (10-12)	5/8/2015		X	
Ball Field	nD-6-15	13	nD-6-15 (12-14)	5/8/2015		X	
Ball Field	nD-6-15	15	nD-6-15 (14-16)	5/8/2015		X	
Ball Field	nD-6-15	17	nD-6-15 (16-18)	5/8/2015		X	
Ball Field	nD-6-15	19	nD-6-15 (18-20)	5/8/2015		X	
Ball Field	nD-6-15	21	nD-6-15 (20-22)	5/8/2015		X	
Ball Field	nD-6-15	23	nD-6-15 (22-24)	5/8/2015		X	
Ball Field	nD-6-15	25	nD-6-15 (24-26)	5/8/2015		X	
Ball Field	nD-6-15	27	nD-6-15 (26-28)	5/8/2015		X	
Ball Field	nD-6-15	29	nD-6-15 (28-30)	5/8/2015		X	
Ball Field	nL-22-15	1	nL-22-15 (0-2)	5/11/2015		X	
Ball Field	nL-22-15	3	nL-22-15 (2-4)	5/11/2015		X	
Ball Field	nL-22-15	5	nL-22-15 (4-6)	5/11/2015		X	
Ball Field	nL-22-15	7	nL-22-15 (6-8)	5/11/2015		X	
Ball Field	nL-22-15	9	nL-22-15 (8-10)	5/11/2015		X	
Ball Field	nL-22-15	11	nL-22-15 (10-12)	5/11/2015		X	
Ball Field	nL-22-15	13	nL-22-15 (12-14)	5/11/2015		X	
Ball Field	nL-22-15	15	nL-22-15 (14-16)	5/11/2015		X	
Ball Field	nL-22-15	17	nL-22-15 (16-18)	5/11/2015		X	
Ball Field	nL-22-15	19	nL-22-15 (18-20)	5/11/2015		X	
Ball Field	nL-22-15	21	nL-22-15 (20-22)	5/11/2015		X	
Ball Field	nL-22-15	23	nL-22-15 (22-24)	5/11/2015		X	
Ball Field	nL-22-15	25	nL-22-15 (24-26)	5/11/2015		X	
Ball Field	nL-22-15	27	nL-22-15 (26-28)	5/11/2015		X	
Ball Field	nL-22-15	29	nL-22-15 (28-30)	5/11/2015		X	
Ball Field	nM-14-15	1	nM-14-15 (0-2)	5/11/2015		X	
Ball Field	nM-14-15	3	nM-14-15 (2-4)	5/11/2015		X	
Ball Field	nM-14-15	5	nM-14-15 (4-6)	5/11/2015		X	
Ball Field	nM-14-15	7	nM-14-15 (6-8)	5/11/2015		X	
Ball Field	nM-14-15	9	nM-14-15 (8-10)	5/11/2015		X	
Ball Field	nM-14-15	11	nM-14-15 (10-12)	5/11/2015		X	
Ball Field	nM-14-15	13	nM-14-15 (12-14)	5/11/2015		X	
Ball Field	nM-14-15	15	nM-14-15 (14-16)	5/11/2015		X	
Ball Field	nM-14-15	17	nM-14-15 (16-18)	5/11/2015		X	
Ball Field	nM-14-15	19	nM-14-15 (18-20)	5/11/2015		X	
Ball Field	nM-14-15	21	nM-14-15 (20-22)	5/11/2015		X	
Ball Field	nM-14-15	23	nM-14-15 (22-24)	5/11/2015		X	
Ball Field	nM-14-15	25	nM-14-15 (24-26)	5/11/2015		X	
Ball Field	nM-14-15	27	nM-14-15 (26-28)	5/11/2015		X	
Ball Field	nM-14-15	29	nM-14-15 (28-30)	5/11/2015		X	
Ball Field	nO-14-15	1	nO-14-15 (0-2)	5/11/2015		X	
Ball Field	nO-14-15	3	nO-14-15 (2-4)	5/11/2015		X	
Ball Field	nO-14-15	5	nO-14-15 (4-6)	5/11/2015		X	
Ball Field	nO-14-15	7	nO-14-15 (6-8)	5/11/2015		X	
Ball Field	nO-14-15	9	nO-14-15 (8-10)	5/11/2015		X	
Ball Field	nO-14-15	11	nO-14-15 (10-12)	5/11/2015		X	
Ball Field	nO-14-15	13	nO-14-15 (12-14)	5/11/2015		X	
Ball Field	nO-14-15	15	nO-14-15 (14-16)	5/11/2015		X	
Ball Field	nO-14-15	17	nO-14-15 (16-18)	5/11/2015		X	

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	nO-14-15	19	nO-14-15 (18-20)	5/11/2015		X	
Ball Field	nO-14-15	21	nO-14-15 (20-22)	5/11/2015		X	
Ball Field	nO-14-15	23	nO-14-15 (22-24)	5/11/2015		X	
Ball Field	nO-14-15	25	nO-14-15 (24-26)	5/11/2015		X	
Ball Field	nO-14-15	27	nO-14-15 (26-28)	5/11/2015		X	
Ball Field	nO-14-15	29	nO-14-15 (28-30)	5/11/2015		X	
Ball Field	nO-15-15	1	nO-15-15 (0-2)	5/11/2015		X	
Ball Field	nO-15-15	3	nO-15-15 (2-4)	5/11/2015		X	
Ball Field	nO-15-15	5	nO-15-15 (4-6)	5/11/2015		X	
Ball Field	nO-15-15	7	nO-15-15 (6-8)	5/11/2015		X	
Ball Field	nO-15-15	9	nO-15-15 (8-10)	5/11/2015		X	
Ball Field	nO-15-15	11	nO-15-15 (10-12)	5/11/2015		X	
Ball Field	nO-15-15	13	nO-15-15 (12-14)	5/11/2015		X	
Ball Field	nO-15-15	15	nO-15-15 (14-16)	5/11/2015		X	
Ball Field	nO-15-15	17	nO-15-15 (16-18)	5/11/2015		X	
Ball Field	nO-15-15	19	nO-15-15 (18-20)	5/11/2015		X	
Ball Field	nO-15-15	21	nO-15-15 (20-22)	5/11/2015		X	
Ball Field	nO-15-15	23	nO-15-15 (22-24)	5/11/2015		X	
Ball Field	nO-15-15	25	nO-15-15 (24-26)	5/11/2015		X	
Ball Field	nO-15-15	27	nO-15-15 (26-28)	5/11/2015		X	
Ball Field	nO-15-15	29	nO-15-15 (28-30)	5/11/2015		X	
Ball Field	nN-16-15	1	nN-16-15 (0-2)	5/11/2015		X	
Ball Field	nN-16-15	3	nN-16-15 (2-4)	5/11/2015		X	
Ball Field	nN-16-15	5	nN-16-15 (4-6)	5/11/2015		X	
Ball Field	nN-16-15	7	nN-16-15 (6-8)	5/11/2015		X	
Ball Field	nN-16-15	9	nN-16-15 (8-10)	5/11/2015		X	
Ball Field	nN-16-15	11	nN-16-15 (10-12)	5/11/2015		X	
Ball Field	nN-16-15	13	nN-16-15 (12-14)	5/11/2015		X	
Ball Field	nN-16-15	15	nN-16-15 (14-16)	5/11/2015		X	
Ball Field	nN-16-15	17	nN-16-15 (16-18)	5/11/2015		X	
Ball Field	nN-16-15	19	nN-16-15 (18-20)	5/11/2015		X	
Ball Field	nN-16-15	21	nN-16-15 (20-22)	5/11/2015		X	
Ball Field	nN-16-15	23	nN-16-15 (22-24)	5/11/2015		X	
Ball Field	nN-16-15	25	nN-16-15 (24-26)	5/11/2015		X	
Ball Field	nN-16-15	27	nN-16-15 (26-28)	5/11/2015		X	
Ball Field	nN-16-15	29	nN-16-15 (28-30)	5/11/2015		X	
Ball Field	nP-16-15	1	nP-16-15 (0-2)	5/11/2015		X	
Ball Field	nP-16-15	3	nP-16-15 (2-4)	5/11/2015		X	
Ball Field	nP-16-15	5	nP-16-15 (4-6)	5/11/2015		X	
Ball Field	nP-16-15	7	nP-16-15 (6-8)	5/11/2015		X	
Ball Field	nP-16-15	9	nP-16-15 (8-10)	5/11/2015		X	
Ball Field	nP-16-15	11	nP-16-15 (10-12)	5/11/2015		X	
Ball Field	nP-16-15	13	nP-16-15 (12-14)	5/11/2015		X	
Ball Field	nP-16-15	15	nP-16-15 (14-16)	5/11/2015		X	
Ball Field	nP-16-15	17	nP-16-15 (16-18)	5/11/2015		X	
Ball Field	nP-16-15	19	nP-16-15 (18-20)	5/11/2015		X	
Ball Field	nP-16-15	21	nP-16-15 (20-22)	5/11/2015		X	
Ball Field	nP-16-15	23	nP-16-15 (22-24)	5/11/2015		X	
Ball Field	nP-16-15	25	nP-16-15 (24-26)	5/11/2015		X	
Ball Field	nP-16-15	27	nP-16-15 (26-28)	5/11/2015		X	
Ball Field	nP-16-15	29	nP-16-15 (28-30)	5/11/2015		X	
Ball Field	nP-19-15	1	nP-19-15 (0-2)	5/11/2015		X	
Ball Field	nP-19-15	3	nP-19-15 (2-4)	5/11/2015		X	
Ball Field	nP-19-15	5	nP-19-15 (4-6)	5/11/2015		X	

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	nP-19-15	7	nP-19-15 (6-8)	5/11/2015		X	
Ball Field	nP-19-15	9	nP-19-15 (8-10)	5/11/2015		X	
Ball Field	nP-19-15	11	nP-19-15 (10-12)	5/11/2015		X	
Ball Field	nP-19-15	13	nP-19-15 (12-14)	5/11/2015		X	
Ball Field	nP-19-15	15	nP-19-15 (14-16)	5/11/2015		X	
Ball Field	nP-19-15	17	nP-19-15 (16-18)	5/11/2015		X	
Ball Field	nP-19-15	19	nP-19-15 (18-20)	5/11/2015		X	
Ball Field	nP-19-15	21	nP-19-15 (20-22)	5/11/2015		X	
Ball Field	nP-19-15	23	nP-19-15 (22-24)	5/11/2015		X	
Ball Field	nP-19-15	25	nP-19-15 (24-26)	5/11/2015		X	
Ball Field	nP-19-15	27	nP-19-15 (26-28)	5/11/2015		X	
Ball Field	nP-19-15	29	nP-19-15 (28-30)	5/11/2015		X	
Ball Field	nR-19-15	1	nR-19-15 (0-2)	5/11/2015		X	
Ball Field	nR-19-15	3	nR-19-15 (2-4)	5/11/2015		X	
Ball Field	nR-19-15	5	nR-19-15 (4-6)	5/11/2015		X	
Ball Field	nR-19-15	7	nR-19-15 (6-8)	5/11/2015		X	
Ball Field	nR-19-15	9	nR-19-15 (8-10)	5/11/2015		X	
Ball Field	nH-19-15	1	nH-19-15 (0-2)	5/11/2015		X	
Ball Field	nH-19-15	3	nH-19-15 (2-4)	5/11/2015		X	
Ball Field	nH-19-15	5	nH-19-15 (4-6)	5/11/2015		X	
Ball Field	nH-19-15	7	nH-19-15 (6-8)	5/11/2015		X	
Ball Field	nH-19-15	9	nH-19-15 (8-10)	5/11/2015		X	
Ball Field	nH-19-15	11	nH-19-15 (10-12)	5/11/2015		X	
Ball Field	nH-19-15	13	nH-19-15 (12-14)	5/11/2015		X	
Ball Field	nH-19-15	15	nH-19-15 (14-16)	5/11/2015		X	
Ball Field	nH-19-15	17	nH-19-15 (16-18)	5/11/2015		X	
Ball Field	nH-19-15	19	nH-19-15 (18-20)	5/11/2015		X	
Ball Field	nH-19-15	21	nH-19-15 (20-22)	5/11/2015		X	
Ball Field	nH-19-15	23	nH-19-15 (22-24)	5/11/2015		X	
Ball Field	nH-19-15	25	nH-19-15 (24-26)	5/11/2015		X	
Ball Field	nH-19-15	27	nH-19-15 (26-28)	5/11/2015		X	
Ball Field	nH-19-15	29	nH-19-15 (28-30)	5/11/2015		X	
Ball Field	nG-21-15	1	nG-21-15 (0-2)	5/11/2015		X	
Ball Field	nG-21-15	3	nG-21-15 (2-4)	5/11/2015		X	
Ball Field	nG-21-15	5	nG-21-15 (4-6)	5/11/2015		X	
Ball Field	nG-21-15	7	nG-21-15 (6-8)	5/11/2015		X	
Ball Field	nG-21-15	9	nG-21-15 (8-10)	5/11/2015		X	
Ball Field	nG-21-15	11	nG-21-15 (10-12)	5/11/2015		X	
Ball Field	nG-21-15	13	nG-21-15 (12-14)	5/11/2015		X	
Ball Field	nG-21-15	15	nG-21-15 (14-16)	5/11/2015		X	
Ball Field	nG-21-15	17	nG-21-15 (16-18)	5/11/2015		X	
Ball Field	nG-21-15	19	nG-21-15 (18-20)	5/11/2015		X	
Ball Field	nG-21-15	21	nG-21-15 (20-22)	5/11/2015		X	
Ball Field	nG-21-15	23	nG-21-15 (22-24)	5/11/2015		X	
Ball Field	nG-21-15	25	nG-21-15 (24-26)	5/11/2015		X	
Ball Field	nG-21-15	27	nG-21-15 (26-28)	5/11/2015		X	
Ball Field	nG-21-15	29	nG-21-15 (28-30)	5/11/2015		X	
Ball Field	D-20-15	1	D-20-15 (0-2)	5/11/2015		X	
Ball Field	D-20-15	3	D-20-15 (2-4)	5/11/2015		X	
Ball Field	D-20-15	5	D-20-15 (4-6)	5/11/2015		X	
Ball Field	D-20-15	7	D-20-15 (6-8)	5/11/2015		X	
Ball Field	D-20-15	9	D-20-15 (8-10)	5/11/2015		X	
Ball Field	D-20-15	11	D-20-15 (10-12)	5/11/2015		X	
Ball Field	D-20-15	13	D-20-15 (12-14)	5/11/2015		X	

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	D-20-15	15	D-20-15 (14-16)	5/11/2015		X	
Ball Field	D-20-15	17	D-20-15 (16-18)	5/11/2015		X	
Ball Field	D-20-15	19	D-20-15 (18-20)	5/11/2015		X	
Ball Field	D-20-15	21	D-20-15 (20-22)	5/11/2015		X	
Ball Field	D-20-15	23	D-20-15 (22-24)	5/11/2015		X	
Ball Field	D-20-15	25	D-20-15 (24-26)	5/11/2015		X	
Ball Field	D-20-15	27	D-20-15 (26-28)	5/11/2015		X	
Ball Field	D-20-15	29	D-20-15 (28-30)	5/11/2015		X	
Ball Field	nB-15-15	1	nB-15-15 (0-2)	5/11/2015		X	
Ball Field	nB-15-15	3	nB-15-15 (2-4)	5/11/2015		X	
Ball Field	nB-15-15	5	nB-15-15 (4-6)	5/11/2015		X	
Ball Field	nB-15-15	7	nB-15-15 (6-8)	5/11/2015		X	
Ball Field	nB-15-15	9	nB-15-15 (8-10)	5/11/2015		X	
Ball Field	nB-15-15	11	nB-15-15 (10-12)	5/11/2015		X	
Ball Field	nB-15-15	13	nB-15-15 (12-14)	5/11/2015		X	
Ball Field	nB-15-15	15	nB-15-15 (14-16)	5/11/2015		X	
Ball Field	nB-15-15	17	nB-15-15 (16-18)	5/11/2015		X	
Ball Field	nB-15-15	19	nB-15-15 (18-20)	5/11/2015		X	
Ball Field	nB-15-15	21	nB-15-15 (20-22)	5/11/2015		X	
Ball Field	nB-15-15	23	nB-15-15 (22-24)	5/11/2015		X	
Ball Field	nB-15-15	25	nB-15-15 (24-26)	5/11/2015		X	
Ball Field	nB-15-15	27	nB-15-15 (26-28)	5/11/2015		X	
Ball Field	nB-15-15	29	nB-15-15 (28-30)	5/11/2015		X	
Ball Field	Q-17-15	1	Q-17-15 (0-2)	5/11/2015		X	
Ball Field	Q-17-15	3	Q-17-15 (2-4)	5/11/2015		X	
Ball Field	Q-17-15	5	Q-17-15 (4-6)	5/11/2015		X	
Ball Field	Q-17-15	7	Q-17-15 (6-8)	5/11/2015		X	
Ball Field	Q-17-15	9	Q-17-15 (8-10)	5/11/2015		X	
Ball Field	nS-18-15	1	nS-18-15 (0-2)	5/12/2015		X	
Ball Field	nS-18-15	3	nS-18-15 (2-4)	5/12/2015		X	
Ball Field	nS-18-15	5	nS-18-15 (4-6)	5/12/2015		X	
Ball Field	nB-16-15	1	nB-16-15 (0-2)	5/12/2015		X	
Ball Field	nB-16-15	3	nB-16-15 (2-4)	5/12/2015		X	
Ball Field	nB-16-15	5	nB-16-15 (4-6)	5/12/2015		X	
Ball Field	nB-16-15	7	nB-16-15 (6-8)	5/12/2015		X	
Ball Field	nB-16-15	9	nB-16-15 (8-10)	5/12/2015		X	
Ball Field	nB-16-15	11	nB-16-15 (10-12)	5/12/2015		X	
Ball Field	nB-16-15	13	nB-16-15 (12-14)	5/12/2015		X	
Ball Field	nB-16-15	15	nB-16-15 (14-16)	5/12/2015		X	
Ball Field	nB-16-15	17	nB-16-15 (16-18)	5/12/2015		X	
Ball Field	nB-16-15	19	nB-16-15 (18-20)	5/12/2015		X	
Ball Field	nB-16-15	21	nB-16-15 (20-22)	5/12/2015		X	
Ball Field	nB-16-15	23	nB-16-15 (22-24)	5/12/2015		X	
Ball Field	nB-16-15	25	nB-16-15 (24-26)	5/12/2015		X	
Ball Field	nB-16-15	27	nB-16-15 (26-28)	5/12/2015		X	
Ball Field	nB-16-15	29	nB-16-15 (28-30)	5/12/2015		X	
Ball Field	H-7-15	1	H-7-15 (0-2)	5/13/2015		X	X
Ball Field	H-7-15	3	H-7-15 (2-4)	5/13/2015		X	X
Ball Field	H-7-15	5	H-7-15 (4-6)	5/13/2015		X	X
Ball Field	H-7-15	7	H-7-15 (6-8)	5/13/2015		X	X
Ball Field	H-7-15	9	H-7-15 (8-10)	5/13/2015		X	X
Ball Field	H-7-15	11	H-7-15 (10-12)	5/13/2015		X	X
Ball Field	H-7-15	13	H-7-15 (12-14)	5/13/2015		X	X
Ball Field	H-7-15	15	H-7-15 (14-16)	5/13/2015		X	X

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis PCB (3)	Lab Analysis Metals
Ball Field	H-7-15	17	H-7-15 (16-18)	5/13/2015		X	X
Ball Field	H-7-15	19	H-7-15 (18-20)	5/13/2015		X	X
Ball Field	H-7-15	21	H-7-15 (20-22)	5/13/2015		X	X
Ball Field	H-7-15	23	H-7-15 (22-24)	5/13/2015		X	X
Ball Field	H-7-15	25	H-7-15 (24-26)	5/13/2015		X	X
Ball Field	H-7-15	27	H-7-15 (26-28)	5/13/2015		X	X
Ball Field	H-7-15	29	H-7-15 (28-30)	5/13/2015		X	X
Ball Field	F-13-15	1	F-13-15 (0-2)	5/13/2015			X
Ball Field	F-13-15	3	F-13-15 (2-4)	5/13/2015			X
Ball Field	F-13-15	5	F-13-15 (4-6)	5/13/2015			X
Ball Field	F-13-15	7	F-13-15 (6-8)	5/13/2015			X
Ball Field	F-13-15	9	F-13-15 (8-10)	5/13/2015			X
Ball Field	G-16-15	1	G-16-15 (0-2)	5/13/2015			X
Ball Field	G-16-15	3	G-16-15 (2-4)	5/13/2015			X
Ball Field	G-16-15	5	G-16-15 (4-6)	5/13/2015			X
Ball Field	G-16-15	7	G-16-15 (6-8)	5/13/2015			X
Ball Field	G-16-15	9	G-16-15 (8-10)	5/13/2015			X
Ball Field	nD-16-15	1	nD-16-15 (0-2)	5/13/2015			X
Ball Field	nD-16-15	3	nD-16-15 (2-4)	5/13/2015			X
Ball Field	nD-16-15	5	nD-16-15 (4-6)	5/13/2015			X
Ball Field	nD-16-15	7	nD-16-15 (6-8)	5/13/2015			X
Ball Field	nD-16-15	9	nD-16-15 (8-10)	5/13/2015			X
Eastern Park	AJ-18-15	1	AJ-18-15 (0-2)	5/4/2015		X	
Eastern Park	AJ-18-15	3	AJ-18-15 (2-4)	5/4/2015		X	
Eastern Park	AJ-18-15	5	AJ-18-15 (4-6)	5/4/2015		X	
Eastern Park	AJ-18-15	7	AJ-18-15 (6-8)	5/4/2015		X	
Eastern Park	AJ-18-15	9	AJ-18-15 (8-10)	5/4/2015		X	
Eastern Park	nAW-22-15	1	nAW-22-15 (0-2)	5/4/2015		X	
Eastern Park	nAW-22-15	3	nAW-22-15 (2-4)	5/4/2015		X	
Eastern Park	nAW-22-15	5	nAW-22-15 (4-6)	5/4/2015		X	
Eastern Park	nAW-22-15	7	nAW-22-15 (6-8)	5/4/2015		X	
Eastern Park	nAW-22-15	9	nAW-22-15 (8-10)	5/4/2015		X	
Eastern Park	nAV-21-15	1	nAV-21-15 (0-2)	5/4/2015		X	
Eastern Park	nAV-21-15	3	nAV-21-15 (2-4)	5/4/2015		X	
Eastern Park	nAV-21-15	5	nAV-21-15 (4-6)	5/4/2015		X	
Eastern Park	nAV-21-15	7	nAV-21-15 (6-8)	5/4/2015		X	
Eastern Park	nAV-21-15	9	nAV-21-15 (8-10)	5/4/2015		X	
Eastern Park	BD-19-15	1	BD-19-15 (0-2)	5/4/2015		X	
Eastern Park	BD-19-15	3	BD-19-15 (2-4)	5/4/2015		X	
Eastern Park	BD-19-15	5	BD-19-15 (4-6)	5/4/2015		X	
Eastern Park	BD-19-15	7	BD-19-15 (6-8)	5/4/2015		X	
Eastern Park	BD-19-15	9	BD-19-15 (8-10)	5/4/2015		X	
Eastern Park	BC-17-15	1	BC-17-15 (0-2)	5/4/2015		X	
Eastern Park	BC-17-15	3	BC-17-15 (2-4)	5/4/2015		X	
Eastern Park	BC-17-15	5	BC-17-15 (4-6)	5/4/2015		X	
Eastern Park	BC-17-15	7	BC-17-15 (6-8)	5/4/2015		X	
Eastern Park	BC-17-15	9	BC-17-15 (8-10)	5/4/2015		X	
Eastern Park	nT-18-15	1	nT-18-15 (0-2)	5/4/2015		X	
Eastern Park	nT-18-15	3	nT-18-15 (2-4)	5/4/2015		X	
Eastern Park	nT-18-15	5	nT-18-15 (4-6)	5/4/2015		X	
Eastern Park	nT-19-15	1	nT-19-15 (0-2)	5/4/2015		X	
Eastern Park	nT-19-15	3	nT-19-15 (2-4)	5/4/2015		X	
Eastern Park	nT-19-15	5	nT-19-15 (4-6)	5/4/2015		X	

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) [1]	Sample ID	Date Sampled	Lab PCB Screening Analysis [2]	Lab Analysis PCB [3]	Lab Analysis Metals
TCLP Sampling [5]							
Access Road	nD-24-14	1	nD-24-14 (1)	5/12/2015			X
Ball Field	B-33	1	B-33 (1)	5/7/2015			X
Ball Field	B-33	3	B-33 (3)	5/7/2015			X
Ball Field	B-33	5	B-33 (5)	5/7/2015			X
Ball Field	TP-10 [6]	6.5	TP-10 (6.5)	5/7/2015			X
Ball Field	B-60	13	B-60 (13)	5/8/2015			X
Ball Field	J-5-14	9	J-5-14 (9)	5/8/2015			X
Ball Field	B-34-14	1	B-34-14 (1)	5/12/2015			X
Ball Field	B-34-14	3	B-34-14 (3)	5/12/2015			X
Ball Field	B-34-14	11	B-34-14 (11)	5/12/2015			X
Ball Field	B-34-14	12	B-34-14 (12)	5/12/2015			X
Ball Field	B-34-14	13	B-34-14 (13)	5/12/2015			X
Ball Field	B-34-14	15	B-34-14 (15)	5/12/2015			X
Ball Field	B-34-14	17	B-34-14 (17)	5/12/2015			X
Ball Field	O-10-14	7	O-10-14 (7)	5/12/2015			X
Ball Field	B-70	1	B-70 (1)	5/12/2015			X
Ball Field	B-70	3	B-70 (3)	5/12/2015			X
Ball Field	B-70	7	B-70 (7)	5/12/2015			X
Ball Field	M-12-14	5	M-12-14 (5)	5/12/2015			X
Ball Field	M-12-14	7	M-12-14 (7)	5/12/2015			X
Ball Field	I-3-SB	2	I-3-SB (2)	5/12/2015			X
Ball Field	TP-08N [6]	6	TP-08N (6)	5/12/2015			X
Eastern Park	P-5	5	P-5 (5)	5/12/2015			X
Access Road Step Out Sampling							
Access Road	nZZQ-26-15	1	nZZQ-26-15 (0-2)	7/6/2015		X	X
Access Road	nZZQ-27-15	1	nZZQ-27-15 (0-2)	7/6/2015		X	X
Access Road	nZZO-26-15	1	nZZO-26-15 (0-2)	7/6/2015		X	X
Access Road	nZZP-27-15	1	nZZP-27-15 (0-2)	7/6/2015		X	X
Access Road	nZZM-26-15	1	nZZM-26-15 (0-2)	7/6/2015		X	X
Access Road	nZZK-27-15	1	nZZK-27-15 (0-2)	7/6/2015		X	X
Access Road	nZZJ-27-15	1	nZZJ-27-15 (0-2)	7/6/2015		X	X
Access Road	nZZK-26-15	1	nZZK-26-15 (0-2)	7/6/2015		X	X
Access Road	nZZI-26-15	1	nZZI-26-15 (0-2)	7/6/2015		X	X
Access Road	nZZG-26-15	1	nZZG-26-15 (0-2)	7/6/2015		X	X
Access Road	nZZE-26-15	1	nZZE-26-15 (0-2)	7/6/2015		X	X
Access Road	ZZC-26-15	1	ZZC-26-15 (0-2)	7/6/2015		X	X
Access Road	nZZD-27-15	1	nZZD-27-15 (0-2)	7/6/2015		X	X
Access Road	ZZB-27-15	1	ZZB-27-15 (0-2)	7/6/2015		X	X
Access Road	nZZD-25-15	1	nZZD-25-15 (0-2)	7/6/2015		X	X
Access Road	nI-27-15	1	nI-27-15 (0-2)	7/6/2015		X	X
Access Road	nK-26-15	1	nK-26-15 (0-2)	7/6/2015		X	X
Access Road	nL-26-15	1	nL-26-15 (0-2)	7/6/2015		X	X
Access Road	nM-26-15	1	nM-26-15 (0-2)	7/6/2015		X	X
Access Road	nO-27-15	1	nO-27-15 (0-2)	7/6/2015		X	X
Access Road	nQ-27-15	1	nQ-27-15 (0-2)	7/6/2015		X	X
Access Road	nS-26-15	1	nS-26-15 (0-2)	7/6/2015		X	X
Access Road	nV-26-15	1	nV-26-15 (0-2)	7/6/2015		X	X
Access Road	nZ-27-15	1	nZ-27-15 (0-2)	7/6/2015		X	X
Access Road	nAL-27-15	1	nAL-27-15 (0-2)	7/6/2015		X	X
Access Road	nAN-26-15	1	nAN-26-15 (0-2)	7/6/2015		X	X
Access Road	nAO-27-15	1	nAO-27-15 (0-2)	7/6/2015		X	X
Access Road	nAU-26-15	1	nAU-26-15 (0-2)	7/6/2015		X	X

Notes and Abbreviations on Last Page

Table 2. PCBs and Metals Sample Details, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Settling Ponds), Bethpage NY.

Area	Boring ID	Sample Midpoint Depth (ft) (1)	Sample ID	Date Sampled	Lab PCB Screening Analysis (2)	Lab Analysis	
						PCB (3)	Metals
Access Road	nAX-27-15	1	nAX-27-15 (0-2)	7/6/2015		X	X
Access Road	nBA-27-15	1	nBA-27-15 (0-2)	7/6/2015		X	X
Access Road	nBD-27-15	1	nBD-27-15 (0-2)	7/6/2015		X	X
Access Road	nBF-26-15	1	nBF-26-15 (0-2)	7/6/2015		X	X
Access Road	nBF-27-15	1	nBF-27-15 (0-2)	7/6/2015		X	X

Notes and Abbreviations:

(1) Samples were collected every 2 feet per the Pre-Design Sampling Work Plan for PCBs (Work Plan) (EMAGIN 2014).

(2) PCB Screening samples analyzed for Total PCBs by a fixed-base laboratory using modified USEPA Method 8082 per New York State Department of Environmental Conservation approval of alternative method on 10/31/14. 15 percent of PCB Screening samples were also analyzed for individual Aroclors and total PCBs using EPA Method 8082 for confirmatory purposes.

(3) Samples analyzed in fixed-base laboratory for total PCBs and individual Aroclors using EPA Method 8082.

(4) Sample analyzed for cadmium and chromium.

(5) Samples analyzed for TCLP metals (sample interval 0.5 ft)

(6) Samples analyzed for both TCLP and total metals

EPA United States Enviromental Protection Agency

ft bls feet below original land surface

E East

W West

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	S-8-14	A-12-14	A-14-14	C-16-14	C-18-14	C-4-14	C-5-14	C-6-14	C-8-14
Sample Midpoint Depth (ft):	1	3	3	3	3	3	3	3	3
Date Sampled:	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014
Sample ID:	S-8-14_1	A-12-14_3	A-14-14_3	C-16-14_3	C-18-14_3	C-4-14_3	C-5-14_3	C-6-14_3	C-8-14_3
CONSTITUENT (unit in mg/kg)									
Total PCBs	**1.4**	**0.89 J**	**2.9**	**2.3**	**0.73 J**	**26**	**3.8**	**41**	**6.0**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	E-11-14	E-4-14	E-6-14	E-9-14	M-13-14	M-14-14	M-16-14	M-19-14	M-20-14
Sample Midpoint Depth (ft):	3	3	3	3	3	3	3	3	3
Date Sampled:	12/4/2014	12/3/2014	12/3/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014
Sample ID:	E-11-14_3	E-4-14_3	E-6-14_3	E-9-14_3	M-13-14_3	M-14-14_3	M-16-14_3	M-19-14_3	M-20-14_3
CONSTITUENT (unit in mg/kg)									
Total PCBs	**1.6**	**13**	**4.3**	**1.8**	**1.9**	**0.96**	0	**220 E**	**1.8**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	N-10-14	N-11-14	N-20-14	O-10-14	O-11-14	O-12-14	O-20-14	A-12-14	A-14-14
Sample Midpoint Depth (ft):	3	3	3	3	3	3	3	5	5
Date Sampled:	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014
Sample ID:	N-10-14_3	N-11-14_3	N-20-14_3	O-10-14_3	O-11-14_3	O-12-14_3	O-20-14_3	A-12-14_5	A-14-14_5
CONSTITUENT (unit in mg/kg)									
Total PCBs	**3.7**	**2.6**	0	**4.8**	0	0	**86 E**	**11**	**2.7**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	C-16-14	C-18-14	C-4-14	C-5-14	C-6-14	C-8-14	E-11-14	E-4-14	E-6-14
Sample Midpoint Depth (ft):	5	5	5	5	5	5	5	5	5
Date Sampled:	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/4/2014	12/3/2014	12/3/2014
Sample ID:	C-16-14_5	C-18-14_5	C-4-14_5	C-5-14_5	C-6-14_5	C-8-14_5	E-11-14_5	E-4-14_5	E-6-14_5
CONSTITUENT (unit in mg/kg)									
Total PCBs	**1.6**	**1.7**	**60 E**	**14**	**1.3**	**7.6**	**0.47 J**	**190 E**	**46**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	E-9-14	M-13-14	M-14-14	M-16-14	M-19-14	M-20-14	N-10-14	N-11-14	O-10-14
Sample Midpoint Depth (ft):	5	5	5	5	5	5	5	5	5
Date Sampled:	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/3/2014	12/3/2014	12/3/2014
Sample ID:	E-9-14_5	M-13-14_5	M-14-14_5	M-16-14_5	M-19-14_5	M-20-14_5	N-10-14_5	N-11-14_5	O-10-14_5
CONSTITUENT (unit in mg/kg)									
Total PCBs	**1.3**	**14**	**1.8**	**17**	**230 E**	**190 E**	**21**	**1.7**	**66**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	O-11-14	O-12-14	O-20-14	A-12-14	A-14-14	C-16-14	C-18-14	C-4-14	C-5-14
Sample Midpoint Depth (ft):	5	5	5	7	7	7	7	7	7
Date Sampled:	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014
Sample ID:	O-11-14_5	O-12-14_5	O-20-14_5	A-12-14_7	A-14-14_7	C-16-14_7	C-18-14_7	C-4-14_7	C-5-14_7
CONSTITUENT (unit in mg/kg)									
Total PCBs	**0.8**	**14**	**41**	**2.6**	**8.8**	0	0	**17**	**19**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	C-6-14	C-8-14	E-11-14	E-4-14	E-6-14	E-9-14	M-13-14	M-14-14	M-16-14
Sample Midpoint Depth (ft):	7	7	7	7	7	7	7	7	7
Date Sampled:	12/3/2014	12/3/2014	12/4/2014	12/3/2014	12/3/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014
Sample ID:	C-6-14_7	C-8-14_7	E-11-14_7	E-4-14_7	E-6-14_7	E-9-14_7	M-13-14_7	M-14-14_7	M-16-14_7
CONSTITUENT (unit in mg/kg)									
Total PCBs	0	**3.2**	**6.4**	**78 E**	**0.91**	**12**	0	**54 E**	**46**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	M-19-14	M-20-14	N-10-14	N-11-14	O-10-14	O-11-14	O-12-14	O-20-14	A-12-14
Sample Midpoint Depth (ft):	7	7	7	7	7	7	7	7	9
Date Sampled:	12/4/2014	12/4/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014
Sample ID:	M-19-14_7	M-20-14_7	N-10-14_7	N-11-14_7	O-10-14_7	O-11-14_7	O-12-14_7	O-20-14_7	A-12-14_9
CONSTITUENT (unit in mg/kg)									
Total PCBs	**48**	**41**	**14**	**220 E**	**1.3**	0	**4.1**	0	**4.6**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	A-14-14	C-16-14	C-18-14	C-4-14	C-5-14	C-6-14	C-8-14	E-11-14	E-4-14
Sample Midpoint Depth (ft):	9	9	9	9	9	9	9	9	9
Date Sampled:	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/4/2014	12/3/2014
Sample ID:	A-14-14_9	C-16-14_9	C-18-14_9	C-4-14_9	C-5-14_9	C-6-14_9	C-8-14_9	E-11-14_9	E-4-14_9
CONSTITUENT (unit in mg/kg)									
Total PCBs	**0.71 J**	**3.1**	**0.59 J**	**5.5**	**8.7**	0	**36**	**23**	**32**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	E-6-14	E-9-14	M-13-14	M-14-14	M-16-14	M-19-14	M-20-14	N-10-14	N-11-14
Sample Midpoint Depth (ft):	9	9	9	9	9	9	9	9	9
Date Sampled:	12/3/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/3/2014	12/3/2014
Sample ID:	E-6-14_9	E-9-14_9	M-13-14_9	M-14-14_9	M-16-14_9	M-19-14_9	M-20-14_9	N-10-14_9	N-11-14_9
CONSTITUENT (unit in mg/kg)									
Total PCBs	0	**3.1**	0	**1.5**	0	**56 E**	**4.4**	**38**	**21**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	O-10-14	O-11-14	O-12-14	O-20-14	A-12-14	A-13-14	B-11-14	B-12-14	B-13-14
Sample Midpoint Depth (ft):	9	9	9	9	11	11	11	11	11
Date Sampled:	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014
Sample ID:	O-10-14_9	O-11-14_9	O-12-14_9	O-20-14_9	A-12-14_11	A-13-14_11	B-11-14_11	B-12-14_11	B-13-14_11
CONSTITUENT (unit in mg/kg)									
Total PCBs	0	0	**5.9**	0	**22**	**47**	**73**	**3.0**	**5.0**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	C-11-14	C-13-14	E-11-14	E-13-14	E-15-14	E-4-14	E-5-14	N-10-14	N-11-14
Sample Midpoint Depth (ft):	11	11	11	11	11	11	11	11	11
Date Sampled:	12/3/2014	12/3/2014	12/4/2014	12/4/2014	12/4/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014
Sample ID:	C-11-14_11	C-13-14_11	E-11-14_11	E-13-14_11	E-15-14_11	E-4-14_11	E-5-14_11	N-10-14_11	N-11-14_11
CONSTITUENT (unit in mg/kg)									
Total PCBs	**4.7**	**2.5**	**1.6**	**16**	**5.8**	**31**	**35**	**36**	**400 E**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	N-9-14	O-10-14	O-11-14	O-9-14	P-10-14	C-11-14	C-13-14	E-11-14	E-13-14
Sample Midpoint Depth (ft):	11	11	11	11	11	13	13	13	13
Date Sampled:	12/4/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/4/2014	12/4/2014
Sample ID:	N-9-14_11	O-10-14_11	O-11-14_11	O-9-14_11	P-10-14_11	C-11-14_13	C-13-14_13	E-11-14_13	E-13-14_13
CONSTITUENT (unit in mg/kg)									
Total PCBs	**4.8**	**6300 E**	**1.3**	**10**	**0.53 J**	**1.9**	**1.2**	**1.6**	**38**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	E-15-14	E-4-14	E-5-14	N-10-14	N-11-14	N-9-14	O-10-14	O-11-14	O-9-14
Sample Midpoint Depth (ft):	13	13	13	13	13	13	13	13	13
Date Sampled:	12/4/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/4/2014	12/3/2014	12/3/2014	12/3/2014
Sample ID:	E-15-14_13	E-4-14_13	E-5-14_13	N-10-14_13	N-11-14_13	N-9-14_13	O-10-14_13	O-11-14_13	O-9-14_13
CONSTITUENT (unit in mg/kg)									
Total PCBs	**54**	**21**	**16**	**11**	**25**	**8.3**	**3300 E**	**5400 E**	**2600 E**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	P-10-14	C-11-14	C-13-14	E-11-14	E-13-14	E-15-14	E-4-14	E-5-14	N-10-14
Sample Midpoint Depth (ft):	13	15	15	15	15	15	15	15	15
Date Sampled:	12/3/2014	12/3/2014	12/3/2014	12/4/2014	12/4/2014	12/4/2014	12/3/2014	12/3/2014	12/3/2014
Sample ID:	P-10-14_13	C-11-14_15	C-13-14_15	E-11-14_15	E-13-14_15	E-15-14_15	E-4-14_15	E-5-14_15	N-10-14_15
CONSTITUENT (unit in mg/kg)									
Total PCBs	**6700 E**	**11**	**9.6**	**18**	**68 E**	**46**	**20**	**2.8**	**12**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	N-11-14	N-9-14	O-10-14	O-11-14	O-9-14	P-10-14	C-11-14	C-13-14	E-11-14
Sample Midpoint Depth (ft):	15	15	15	15	15	15	17	17	17
Date Sampled:	12/3/2014	12/4/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/4/2014
Sample ID:	N-11-14_15	N-9-14_15	O-10-14_15	O-11-14_15	O-9-14_15	P-10-14_15	C-11-14_17	C-13-14_17	E-11-14_17
CONSTITUENT (unit in mg/kg)									
Total PCBs	**10**	**24**	**66 E**	**4.5**	**330 E**	**1200 E**	**20**	**41**	**11**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	E-13-14	E-15-14	E-4-14	E-5-14	N-10-14	N-11-14	N-9-14	O-10-14	O-11-14
Sample Midpoint Depth (ft):	17	17	17	17	17	17	17	17	17
Date Sampled:	12/4/2014	12/4/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/4/2014	12/3/2014	12/3/2014
Sample ID:	E-13-14_17	E-15-14_17	E-4-14_17	E-5-14_17	N-10-14_17	N-11-14_17	N-9-14_17	O-10-14_17	O-11-14_17
CONSTITUENT (unit in mg/kg)									
Total PCBs	**97 E**	**46**	0	**9.3**	**21**	**1.1**	**18**	**14**	**4.3**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	O-9-14	P-10-14	E-11-14	E-13-14	E-15-14	E-4-14	E-5-14	N-10-14	N-11-14	N-11-14
Sample Midpoint Depth (ft):	17	17	19	19	19	19	19	19	19	19
Date Sampled:	12/3/2014	12/3/2014	12/4/2014	12/4/2014	12/4/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014
Sample ID:	O-9-14_17	P-10-14_17	E-11-14_19	E-13-14_19	E-15-14_19	E-4-14_19	E-5-14_19	N-10-14_19	N-11-14_19	REP 120314 DM2
CONSTITUENT (unit in mg/kg)										
Total PCBs	**16**	**23**	**66 E**	**30**	**5.2**	0	**2.9**	**5.6**	**3**	**3**

Notes and Abbreviations on Last Page

Table 3. Concentrations of Total PCBs in Soil Samples by modified EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	N-9-14	O-10-14	O-11-14	O-9-14	P-10-14	E-11-14	E-13-14	E-11-14	E-13-14
Sample Midpoint Depth (ft):	19	19	19	19	19	21	21	23	23
Date Sampled:	12/4/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014
Sample ID:	N-9-14_19	O-10-14_19	O-11-14_19	O-9-14_19	P-10-14_19	E-11-14_21	E-13-14_21	E-11-14_23	E-13-14_23
CONSTITUENT (unit in mg/kg)									
Total PCBs	**16**	**5.4**	**4.2**	**2.2**	**9.1**	**3.9**	**60 E**	**16**	**71 E**

Notes and Abbreviations:

- Results are not validated.
- Samples were collected every 2 feet per the Pre-Design Sampling Work Plan for PCBs (Work Plan) (EMAGIN 2014)
- Samples were screened for Total PCBs by fixed base laboratory using Modified EPA Method 8082 Per NYSDEC Approval of Alternative Method on 10/31/2014.
- Samples analyzed on a dry weight basis.

Bold value indicates a detection

indicates sample collected from 0-2 ft has Total PCBs greater than 1 mg/kg

indicates sample collected from 2-10 ft has Total PCBs greater than 10 mg/kg

indicates sample collected from below 10 ft has Total PCBs greater than 50 mg/kg

PCB	Polychlorinated biphenyl
ft	Feet below original land surface
mg/kg	Milligrams per kilogram
J	Value is estimated
E	Concentration is from secondary dilution
EPA	United States Environmental Protection Agency
NYSDEC	New York State Department of Environmental Conservation

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	A-13-14	C-10-14	C-10-14	C-10-14	C-10-14	C-12-14	C-12-14	C-12-14	C-12-14	C-12-14	C-12-14
Sample Depth (ft):	11	3	5	7	9	3	5	7	9	11	13
Date Sampled:	12/3/2014	11/7/2014	11/7/2014	11/7/2014	11/7/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014
Sample ID:	A-13-14_11	C-10-14_3	C-10-14_5	C-10-14_7	C-10-14_9	C-12-14_3	C-12-14_5	C-12-14_7	C-12-14_9	C-12-14_11	C-12-14_13
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 1.2	< 0.11 J	< 0.11 J	< 5.4 J	< 2.1 J	< 0.11 J	< 0.11 J	< 0.57 J	< 2.2 J	< 0.11 J	< 1.1 J
Aroclor 1221	< 1.2	< 0.11 J	< 0.11 J	< 5.4 J	< 2.1 J	< 0.11 J	< 0.11 J	< 0.57 J	< 2.2 J	< 0.11 J	< 1.1 J
Aroclor 1232	< 1.2	< 0.11 J	< 0.11 J	< 5.4 J	< 2.1 J	< 0.11 J	< 0.11 J	< 0.57 J	< 2.2 J	< 0.11 J	< 1.1 J
Aroclor 1242	**11**	< 0.11 J	< 0.11 J	**61 J**	**17 J**	< 0.11 J	< 0.11 J	< 0.57 J	**28 J**	**0.3 J**	**24 J**
Aroclor 1248	< 1.2	**1.2 J**	**0.17 J**	< 5.4 J	< 2.1 J	**0.36 J**	**0.36 J**	**2 J**	< 2.2 J	< 0.11 J	< 1.1 J
Aroclor 1254	< 1.2	**0.23 J**	**0.061 J**	**4.5 J**	**1.7 J**	**0.14 J**	**0.077 J**	**1.5 J**	< 2.2 J	< 0.11 J	< 1.1 J
Aroclor 1260	< 1.2	< 0.11 J	< 0.11 J	< 5.4 J	< 2.1 J	< 0.11 J	< 0.11 J	< 0.57 J	< 2.2 J	< 0.11 J	< 1.1 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**11**	**1.4**	**0.23**	**66**	**19**	**0.50**	**0.44**	**3.5**	**28**	**0.30**	**24**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	C-12-14	C-12-14	C-13-14	C-14-14	C-14-14	C-14-14	C-14-14	C-16-14	C-18-14	C-5-14	C-6-14
Sample Depth (ft):	15	17	17	3	5	7	9	7	7	5	9
Date Sampled:	11/10/2014	11/10/2014	12/3/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014
Sample ID:	C-12-14_15	C-12-14_17	C-13-14_17	C-14-14_3	C-14-14_5	C-14-14_7	C-14-14_9	C-16-14_7	C-18-14_7	C-5-14_5	C-6-14_9
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 1.1 J	< 6 J	< 2.7	< 0.11 J	< 0.11 J	< 0.11 J	< 1.1 J	< 0.11	< 0.11	< 0.56	< 0.11
Aroclor 1221	< 1.1 J	< 6 J	< 2.7	< 0.11 J	< 0.11 J	< 0.11 J	< 1.1 J	< 0.11	< 0.11	< 0.56	< 0.11
Aroclor 1232	< 1.1 J	< 6 J	< 2.7	< 0.11 J	< 0.11 J	< 0.11 J	< 1.1 J	< 0.11	< 0.11	< 0.56	< 0.11
Aroclor 1242	**22 J**	**90 J**	**45**	< 0.11 J	< 0.11 J	< 0.11 J	**12 J**	**0.35**	**0.12**	**5.8**	**0.25**
Aroclor 1248	< 1.1 J	< 6 J	< 2.7	**0.48 J**	**0.87 J**	< 0.14 J	< 1.1 J	< 0.11	< 0.11	< 0.56	< 0.11
Aroclor 1254	< 1.1 J	< 6 J	< 2.7	**0.11 J**	**0.25 J**	< 0.11 J	< 1.1 J	**0.055 J**	< 0.11	< 0.56	< 0.11
Aroclor 1260	< 1.1 J	< 6 J	**1.1 J**	< 0.11 J	< 0.11 J	< 0.11 J	< 1.1 J	**0.095 J**	**0.28**	< 0.56	< 0.11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**22**	**90**	**46**	**0.59**	**1.1**	0.00	**12**	**0.50**	**0.40**	**5.8**	**0.25**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	D-10-14	D-10-14	D-10-14	D-10-14	D-10-14	D-11-14	D-11-14	D-11-14	D-11-14	D-11-14	D-11-14
Sample Depth (ft):	11	13	15	21	23	11	13	15	17	19	21
Date Sampled:	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014
Sample ID:	D-10-14_11	D-10-14_13	D-10-14_15	D-10-14_21	D-10-14_23	D-11-14_11	D-11-14_13	D-11-14_15	D-11-14_17	D-11-14_19	D-11-14_21
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.91	< 0.91	< 3.6	< 19	< 3.7	< 0.57 J	< 2.2 J	< 0.57 J	< 1.2 J	< 12 J	< 1.1 J
Aroclor 1221	< 0.91	< 0.91	< 3.6	< 19	< 3.7	< 0.57 J	< 2.2 J	< 0.57 J	< 1.2 J	< 12 J	< 1.1 J
Aroclor 1232	< 0.91	< 0.91	< 3.6	< 19	< 3.7	< 0.57 J	< 2.2 J	< 0.57 J	< 1.2 J	< 12 J	< 1.1 J
Aroclor 1242	**19**	**9.4**	**26**	**85**	**72**	**3.8 J**	**25 J**	**11 J**	**20 J**	**160 J**	**23 J**
Aroclor 1248	< 0.91	< 0.91	< 3.6	< 19	< 3.7	< 0.57 J	< 2.2 J	< 0.57 J	< 1.2 J	< 12 J	< 1.1 J
Aroclor 1254	< 0.91	< 0.91	< 3.6	< 19	< 3.7	< 0.57 J	< 2.2 J	< 0.57 J	< 1.2 J	< 12 J	< 1.1 J
Aroclor 1260	< 0.91	< 0.91	< 3.6	< 19	< 3.7	< 0.57 J	< 2.2 J	< 0.57 J	< 1.2 J	< 12 J	< 1.1 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**19**	**9.4**	**26**	**85**	**72**	**3.8**	**25**	**11**	**20**	**160**	**23**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	D-11-14	D-12-14	D-12-14	D-12-14	D-12-14	D-12-14	D-12-14	D-12-14	D-12-14	D-13-14
Sample Depth (ft):	23	11	11	13	15	17	19	21	23	11
Date Sampled:	11/10/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	11/10/2014
Sample ID:	D-11-14_23	REP 120414 NC3	D-12-14_11	D-12-14_13	D-12-14_15	D-12-14_17	D-12-14_19	D-12-14_21	D-12-14_23	D-13-14_11
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 5.5 J	< 0.93	< 0.018	< 0.91	< 1.9	< 0.091	< 19	< 0.36	< 0.36	< 2.2 J
Aroclor 1221	< 5.5 J	< 0.93	< 0.018	< 0.91	< 1.9	< 0.091	< 19	< 0.36	< 0.36	< 2.2 J
Aroclor 1232	< 5.5 J	< 0.93	< 0.018	< 0.91	< 1.9	< 0.091	< 19	< 0.36	< 0.36	< 2.2 J
Aroclor 1242	**57 J**	**21**	**0.16**	**16**	**28**	**0.86**	**77**	**5.4**	**4.6**	**29 J**
Aroclor 1248	< 5.5 J	< 0.93	< 0.018	< 0.91	< 1.9	< 0.091	< 19	< 0.36	< 0.36	< 2.2 J
Aroclor 1254	< 5.5 J	< 0.93	< 0.018	< 0.91	< 1.9	< 0.091	< 19	< 0.36	< 0.36	< 2.2 J
Aroclor 1260	< 5.5 J	< 0.93	< 0.018	< 0.91	< 1.9	< 0.091	< 19	< 0.36	< 0.36	< 2.2 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**57**	**21**	**0.16**	**16**	**28**	**0.86**	**77**	**5.4**	**4.6**	**29**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	D-13-14	D-13-14	D-13-14	D-13-14	D-14-14	D-14-14	D-14-14	D-14-14	D-14-14	D-4-14	D-4-14
Sample Depth (ft):	13	15	17	19	11	13	15	17	19	11	13
Date Sampled:	11/10/2014	11/10/2014	11/10/2014	11/10/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014
Sample ID:	D-13-14_13	D-13-14_15	D-13-14_17	D-13-14_19	D-14-14_11	D-14-14_13	D-14-14_15	D-14-14_17	D-14-14_19	D-4-14_11	D-4-14_13
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 2.2 J	< 5.7 J	< 6 J	< 12 J	< 0.091	< 1.8	< 0.93	< 1.8	< 1.9	< 0.92	< 0.39
Aroclor 1221	< 2.2 J	< 5.7 J	< 6 J	< 12 J	< 0.091	< 1.8	< 0.93	< 1.8	< 1.9	< 0.92	< 0.39
Aroclor 1232	< 2.2 J	< 5.7 J	< 6 J	< 12 J	< 0.091	< 1.8	< 0.93	< 1.8	< 1.9	< 0.92	< 0.39
Aroclor 1242	**44 J**	**45 J**	**53 J**	**140 J**	< 0.091	**27**	**12**	**15**	**23**	**5.9**	**7.1**
Aroclor 1248	< 2.2 J	< 5.7 J	< 6 J	< 12 J	**0.53**	< 1.8	< 0.93	< 1.8	< 1.9	< 0.92	< 0.39
Aroclor 1254	< 2.2 J	< 5.7 J	< 6 J	< 12 J	**0.15**	< 1.8	< 0.93	< 1.8	< 1.9	< 0.92	< 0.39
Aroclor 1260	< 2.2 J	< 5.7 J	< 6 J	< 12 J	< 0.091	< 1.8	< 0.93	< 1.8	< 1.9	< 0.92	< 0.39
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**44**	**45**	**53**	**140**	**0.68**	**27**	**12**	**15**	**23**	**5.9**	**7.1**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	D-4-14	D-4-14	D-4-14	E-10-14	E-10-14	E-10-14	E-10-14	E-10-14	E-10-14	E-10-14	E-10-14
Sample Depth (ft):	15	17	19	3	5	7	9	11	13	15	17
Date Sampled:	12/4/2014	12/4/2014	12/4/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014
Sample ID:	D-4-14_15	D-4-14_17	D-4-14_19	E-10-14_3	E-10-14_5	E-10-14_7	E-10-14_9	E-10-14_11	E-10-14_13	E-10-14_15	E-10-14_17
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 2	< 0.018	< 1.1	< 0.11 J	< 0.56 J	< 11 J	< 1.1 J	< 0.57 J	< 11 J	< 11 J	< 2.3 J
Aroclor 1221	< 2	< 0.018	< 1.1	< 0.11 J	< 0.56 J	< 11 J	< 1.1 J	< 0.57 J	< 11 J	< 11 J	< 2.3 J
Aroclor 1232	< 2	< 0.018	< 1.1	< 0.11 J	< 0.56 J	< 11 J	< 1.1 J	< 0.57 J	< 11 J	< 11 J	< 2.3 J
Aroclor 1242	**28**	**0.12**	< 1.1	< 0.11 J	**7.5 J**	**36 J**	**5.2 J**	**5.6 J**	**91 J**	**110 J**	**6.7 J**
Aroclor 1248	< 2	< 0.018	< 1.1	**0.42 J**	< 0.56 J	< 11 J	< 1.1 J	< 0.57 J	< 11 J	< 11 J	< 2.3 J
Aroclor 1254	**4**	**0.28**	**3.1**	**0.15 J**	< 0.56 J	< 11 J	**0.67 J**	< 0.57 J	< 11 J	< 11 J	< 2.3 J
Aroclor 1260	**1.8 J**	< 0.018	< 1.1	< 0.11 J	< 0.56 J	< 11 J	< 1.1 J	< 0.57 J	< 11 J	< 11 J	< 2.3 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**34**	**0.4**	**3.1**	**0.57**	**7.5**	**36**	**5.9**	**5.6**	**91**	**110**	**6.7**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	E-10-14	E-10-14	E-10-14	E-11-14	E-12-14	E-12-14	E-12-14	E-12-14	E-12-14	E-12-14	E-12-14
Sample Depth (ft):	19	21	23	23	3	5	7	9	11	13	15
Date Sampled:	11/10/2014	11/10/2014	11/10/2014	12/4/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014
Sample ID:	E-10-14_19	E-10-14_21	E-10-14_23	E-11-14_23	E-12-14_3	E-12-14_5	E-12-14_7	E-12-14_9	E-12-14_11	E-12-14_13	E-12-14_15
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 11 J	< 5.9 J	< 11 J	< 5.8	< 2.2 J	< 0.54 J	< 5.8 J	< 11 J	< 1.1 J	< 57 J	< 22 J
Aroclor 1221	< 11 J	< 5.9 J	< 11 J	< 5.8	< 2.2 J	< 0.54 J	< 5.8 J	< 11 J	< 1.1 J	< 57 J	< 22 J
Aroclor 1232	< 11 J	< 5.9 J	< 11 J	< 5.8	< 2.2 J	< 0.54 J	< 5.8 J	< 11 J	< 1.1 J	< 57 J	< 22 J
Aroclor 1242	**57 J**	**90 J**	**98 J**	**25**	< 2.2 J	**4.9 J**	**28 J**	**54 J**	**9.1 J**	**170 J**	**93 J**
Aroclor 1248	< 11 J	< 5.9 J	< 11 J	< 5.8	**3.1 J**	< 0.54 J	< 5.8 J	< 11 J	< 1.1 J	< 57 J	< 22 J
Aroclor 1254	< 11 J	**7 J**	**6.7 J**	< 5.8	**0.75 J**	**0.79 J**	**2.5 J**	< 11 J	< 1.1 J	< 57 J	< 22 J
Aroclor 1260	< 11 J	**3.7 J**	< 11 J	< 5.8	< 2.2 J	< 0.54 J	< 5.8 J	< 11 J	< 1.1 J	< 57 J	< 22 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**57**	**100**	**100**	**25**	**3.9**	**5.7**	**31**	**54**	**9.1**	**170**	**93**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	E-12-14	E-12-14	E-12-14	E-12-14	E-12-14	E-13-14	E-14-14	E-14-14	E-14-14	E-14-14
Sample Depth (ft):	17	19	21	23	23	17	3	5	7	9
Date Sampled:	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	12/4/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014
Sample ID:	E-12-14_17	E-12-14_19	E-12-14_21	Rep111014DM	E-12-14_23	E-13-14_17	E-14-14_3	E-14-14_5	E-14-14_7	E-14-14_9
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 23 J	< 5.9 J	< 30 J	< 20	< 11 J	< 6.2	< 0.11 J	< 0.11 J	< 5.8 J	< 5.5 J
Aroclor 1221	< 23 J	< 5.9 J	< 30 J	< 20	< 11 J	< 6.2	< 0.11 J	< 0.11 J	< 5.8 J	< 5.5 J
Aroclor 1232	< 23 J	< 5.9 J	< 30 J	< 20	< 11 J	< 6.2	< 0.11 J	< 0.11 J	< 5.8 J	< 5.5 J
Aroclor 1242	**160 J**	**98 J**	**140 J**	**90**	**62 J**	**69**	< 0.11 J	**0.38 J**	**24 J**	**17 J**
Aroclor 1248	< 23 J	< 5.9 J	< 30 J	< 20	< 11 J	< 6.2	**0.48 J**	< 0.11 J	< 5.8 J	< 5.5 J
Aroclor 1254	< 23 J	< 5.9 J	< 30 J	< 20	< 11 J	< 6.2	**0.16 J**	**0.19 J**	< 5.8 J	< 5.5 J
Aroclor 1260	< 23 J	< 5.9 J	< 30 J	< 20	< 11 J	< 6.2	< 0.11 J	**0.15 J**	< 5.8 J	< 5.5 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**160**	**98**	**140**	**90**	**62**	**69**	**0.64**	**0.72**	**24**	**17**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	E-14-14	E-14-14	E-14-14	E-14-14	E-14-14	E-16-14	E-16-14	E-16-14	E-16-14	E-16-14	E-16-14
Sample Depth (ft):	11	13	15	17	19	3	5	7	9	11	13
Date Sampled:	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014
Sample ID:	E-14-14_11	E-14-14_13	E-14-14_15	E-14-14_17	E-14-14_19	E-16-14_3	E-16-14_5	E-16-14_7	E-16-14_9	E-16-14_11	E-16-14_13
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 2.1 J	< 57 J	< 11 J	< 11 J	< 11 J	< 0.11 J	< 5.6 J	< 2.3 J	< 2.8 J	< 2.8 J	< 5.7 J
Aroclor 1221	< 2.1 J	< 57 J	< 11 J	< 11 J	< 11 J	< 0.11 J	< 5.6 J	< 2.3 J	< 2.8 J	< 2.8 J	< 5.7 J
Aroclor 1232	< 2.1 J	< 57 J	< 11 J	< 11 J	< 11 J	< 0.11 J	< 5.6 J	< 2.3 J	< 2.8 J	< 2.8 J	< 5.7 J
Aroclor 1242	**19 J**	**460 J**	**80 J**	**120 J**	**77 J**	< 0.11 J	**41 J**	**22 J**	**37 J**	**26 J**	**86 J**
Aroclor 1248	< 2.1 J	< 57 J	< 11 J	< 11 J	< 11 J	**0.63 J**	< 5.6 J	< 2.3 J	< 2.8 J	< 2.8 J	< 5.7 J
Aroclor 1254	< 2.1 J	< 57 J	< 11 J	< 11 J	< 11 J	< 0.11 J	< 5.6 J	< 2.3 J	< 2.8 J	< 2.8 J	< 5.7 J
Aroclor 1260	< 2.1 J	< 57 J	< 11 J	< 11 J	< 11 J	< 0.11 J	< 5.6 J	< 2.3 J	< 2.8 J	< 2.8 J	< 5.7 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**19**	**460**	**80**	**120**	**77**	**0.63**	**41**	**22**	**37**	**26**	**86**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	E-16-14	E-16-14	E-16-14	E-17-14	E-17-14	E-17-14	E-17-14	E-17-14	E-18-14	E-18-14	E-18-14
Sample Depth (ft):	15	17	19	11	13	15	17	19	3	5	7
Date Sampled:	11/10/2014	11/10/2014	11/10/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014
Sample ID:	E-16-14_15	E-16-14_17	E-16-14_19	E-17-14_11	E-17-14_13	E-17-14_15	E-17-14_17	E-17-14_19	E-18-14_3	E-18-14_5	E-18-14_7
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 2.8 J	< 60 J	< 5.8 J	< 3.7	< 37	< 0.93	< 3.7	< 1.8	< 0.096	< 0.36	< 1.8
Aroclor 1221	< 2.8 J	< 60 J	< 5.8 J	< 3.7	< 37	< 0.93	< 3.7	< 1.8	< 0.096	< 0.36	< 1.8
Aroclor 1232	< 2.8 J	< 60 J	< 5.8 J	< 3.7	< 37	< 0.93	< 3.7	< 1.8	< 0.096	< 0.36	< 1.8
Aroclor 1242	**44 J**	**190 J**	**97 J**	**31**	**140**	**8.6**	**24**	**12**	**0.036 J**	**2.9**	**16**
Aroclor 1248	< 2.8 J	< 60 J	< 5.8 J	< 3.7	< 37	< 0.93	< 3.7	< 1.8	< 0.096	< 0.36	< 1.8
Aroclor 1254	**13 J**	< 60 J	< 5.8 J	< 3.7	< 37	**3.3**	< 3.7	< 1.8	**0.095 J**	**0.57**	< 1.8
Aroclor 1260	< 2.8 J	< 60 J	< 5.8 J	< 3.7	< 37	< 0.93	< 3.7	< 1.8	< 0.096	< 0.36	< 1.8
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**57**	**190**	**97**	**31**	**140**	**12**	**24**	**12**	**0.13**	**3.5**	**16**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	E-18-14	E-4-14	E-5-14	E-8-14	E-8-14	E-8-14	E-8-14	F-10-14	F-10-14	F-10-14	F-10-14
Sample Depth (ft):	9	19	11	3	5	7	9	3	5	7	9
Date Sampled:	12/4/2014	12/3/2014	12/3/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014
Sample ID:	E-18-14_9	E-4-14_19	E-5-14_11	E-8-14_3	E-8-14_5	E-8-14_7	E-8-14_9	F-10-14_3	F-10-14_5	F-10-14_7	F-10-14_9
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 1.8	< 0.2	< 2.5	< 0.56 J	< 1.1 J	< 0.58 J	< 11 J	< 0.37	< 0.093	< 3.7	< 22
Aroclor 1221	< 1.8	< 0.2	< 2.5	< 0.56 J	< 1.1 J	< 0.58 J	< 11 J	< 0.37	< 0.093	< 3.7	< 22
Aroclor 1232	< 1.8	< 0.2	< 2.5	< 0.56 J	< 1.1 J	< 0.58 J	< 11 J	< 0.37	< 0.093	< 3.7	< 22
Aroclor 1242	**29**	< 0.2	**15**	< 0.56 J	**18 J**	**6 J**	**45 J**	< 0.37	< 0.093	**57**	**150**
Aroclor 1248	< 1.8	< 0.2	< 2.5	**4.4 J**	< 1.1 J	< 0.58 J	< 11 J	**5.1**	**0.95**	< 3.7	< 22
Aroclor 1254	< 1.8	**0.59**	< 2.5	**1 J**	< 1.1 J	**0.84 J**	< 11 J	**1.7**	< 0.093	< 3.7	< 22
Aroclor 1260	< 1.8	< 0.2	< 2.5	< 0.56 J	< 1.1 J	< 0.58 J	< 11 J	< 0.37	< 0.093	< 3.7	< 22
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**29**	**0.59**	**15**	**5.4**	**18**	**6.8**	**45**	**6.8**	**0.95**	**57**	**150**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	F-10-14	F-10-14	F-10-14	F-10-14	F-10-14	F-10-14	F-10-14	F-11-14	F-11-14	F-11-14	F-11-14
Sample Depth (ft):	11	13	15	17	19	21	23	3	5	7	9
Date Sampled:	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014
Sample ID:	F-10-14_11	F-10-14_13	F-10-14_15	F-10-14_17	F-10-14_19	F-10-14_21	F-10-14_23	F-11-14_3	F-11-14_5	F-11-14_7	F-11-14_9
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 5.7	< 11	< 22	< 2.1	< 11	< 6.1	< 22	< 0.55 J	< 0.11 J	< 2.8 J	< 0.56 J
Aroclor 1221	< 5.7	< 11	< 22	< 2.1	< 11	< 6.1	< 22	< 0.55 J	< 0.11 J	< 2.8 J	< 0.56 J
Aroclor 1232	< 5.7	< 11	< 22	< 2.1	< 11	< 6.1	< 22	< 0.55 J	< 0.11 J	< 2.8 J	< 0.56 J
Aroclor 1242	**41**	**97**	**150**	**23**	**54**	**39**	**240**	< 0.55 J	**0.22 J**	**49 J**	**7.8 J**
Aroclor 1248	< 5.7	< 11	< 22	< 2.1	< 11	< 6.1	< 22	**2.9 J**	< 0.11 J	< 2.8 J	< 0.56 J
Aroclor 1254	< 5.7	< 11	< 22	< 2.1	< 11	< 6.1	< 22	**0.73 J**	< 0.11 J	< 2.8 J	**1.6 J**
Aroclor 1260	< 5.7	< 11	< 22	< 2.1	< 11	< 6.1	< 22	< 0.55 J	< 0.11 J	< 2.8 J	< 0.56 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**41**	**97**	**150**	**23**	**54**	**39**	**240**	**3.6**	**0.22**	**49**	**9.4**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	F-11-14	F-11-14	F-11-14	F-11-14	F-11-14	F-11-14	F-11-14	F-12-14	F-12-14	F-12-14	F-12-14
Sample Depth (ft):	11	13	15	17	19	21	23	11	13	15	17
Date Sampled:	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014
Sample ID:	F-11-14_11	F-11-14_13	F-11-14_15	F-11-14_17	F-11-14_19	F-11-14_21	F-11-14_23	F-12-14_11	F-12-14_13	F-12-14_15	F-12-14_17
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.11 J	< 0.11 J	< 5.7 J	< 12 J	< 12 J	< 2.9 J	< 11 J	< 2.1	< 13	< 11	< 11
Aroclor 1221	< 0.11 J	< 0.11 J	< 5.7 J	< 12 J	< 12 J	< 2.9 J	< 11 J	< 2.1	< 13	< 11	< 11
Aroclor 1232	< 0.11 J	< 0.11 J	< 5.7 J	< 12 J	< 12 J	< 2.9 J	< 11 J	< 2.1	< 13	< 11	< 11
Aroclor 1242	**1.9 J**	**1.8 J**	**110 J**	**79 J**	**86 J**	**16 J**	**41 J**	**17**	**100**	**93**	**120**
Aroclor 1248	< 0.11 J	< 0.11 J	< 5.7 J	< 12 J	< 12 J	< 2.9 J	< 11 J	< 2.1	< 13	< 11	< 11
Aroclor 1254	< 0.11 J	< 0.11 J	< 5.7 J	< 12 J	< 12 J	< 2.9 J	< 11 J	< 2.1	< 13	< 11	< 11
Aroclor 1260	< 0.11 J	< 0.11 J	< 5.7 J	< 12 J	< 12 J	< 2.9 J	< 11 J	< 2.1	< 13	< 11	< 11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**1.9**	**1.8**	**110**	**79**	**86**	**16**	**41**	**17**	**100**	**93**	**120**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	F-12-14	F-12-14	F-12-14	F-13-14	F-13-14	F-13-14	F-13-14	F-13-14	F-13-14	F-13-14
Sample Depth (ft):	19	21	23	11	13	15	17	19	21	23
Date Sampled:	12/5/2014	12/5/2014	12/5/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014
Sample ID:	F-12-14_19	F-12-14_21	F-12-14_23	F-13-14_11	F-13-14_13	F-13-14_15	F-13-14_17	F-13-14_19	F-13-14_21	F-13-14_23
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 11	< 5.7	< 5.5	< 0.11 J	< 11 J	< 11 J	< 2.2 J	< 2.3 J	< 2.2 J	< 10 J
Aroclor 1221	< 11	< 5.7	< 5.5	< 0.11 J	< 11 J	< 11 J	< 2.2 J	< 2.3 J	< 2.2 J	< 10 J
Aroclor 1232	< 11	< 5.7	< 5.5	< 0.11 J	< 11 J	< 11 J	< 2.2 J	< 2.3 J	< 2.2 J	< 10 J
Aroclor 1242	**54**	**49**	**53**	< 0.11 J	**72 J**	**61 J**	**18 J**	**42 J**	**46 J**	**73 J**
Aroclor 1248	< 11	< 5.7	< 5.5	**0.065 J**	< 11 J	< 11 J	< 2.2 J	< 2.3 J	< 2.2 J	< 10 J
Aroclor 1254	< 11	< 5.7	< 5.5	**0.031 J**	< 11 J	< 11 J	< 2.2 J	< 2.3 J	< 2.2 J	< 10 J
Aroclor 1260	< 11	< 5.7	< 5.5	< 0.11 J	< 11 J	< 11 J	< 2.2 J	< 2.3 J	< 2.2 J	< 10 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**54**	**49**	**53**	**0.096**	**72**	**61**	**18**	**42**	**46**	**73**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	F-14-14	F-14-14	F-14-14	F-14-14	F-14-14	F-14-14	F-15-14	F-15-14	F-15-14	F-15-14
Sample Depth (ft):	11	11	13	15	17	19	3	5	7	9
Date Sampled:	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014
Sample ID:	REP 120514 NC1	F-14-14_11	F-14-14_13	F-14-14_15	F-14-14_17	F-14-14_19	F-15-14_3	F-15-14_5	F-15-14_7	F-15-14_9
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 3.7	< 9.1	< 18	< 0.089	< 3.8	< 3.8	< 0.11 J	< 1.1 J	< 2.3 J	< 5.6 J
Aroclor 1221	< 3.7	< 9.1	< 18	< 0.089	< 3.8	< 3.8	< 0.11 J	< 1.1 J	< 2.3 J	< 5.6 J
Aroclor 1232	< 3.7	< 9.1	< 18	< 0.089	< 3.8	< 3.8	< 0.11 J	< 1.1 J	< 2.3 J	< 5.6 J
Aroclor 1242	**15**	**40**	**50**	**0.42**	**19**	**31**	< 0.11 J	**20 J**	**24 J**	**48 J**
Aroclor 1248	< 3.7	< 9.1	< 18	< 0.089	< 3.8	< 3.8	**0.16 J**	< 1.1 J	< 2.3 J	< 5.6 J
Aroclor 1254	< 3.7	< 9.1	< 18	< 0.089	< 3.8	< 3.8	**0.034 J**	< 1.1 J	< 2.3 J	< 5.6 J
Aroclor 1260	< 3.7	< 9.1	< 18	< 0.089	< 3.8	< 3.8	< 0.11 J	< 1.1 J	< 2.3 J	< 5.6 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**15**	**40**	**50**	**0.42**	**19**	**31**	**0.19**	**20**	**24**	**48**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	F-15-14	F-15-14	F-15-14	F-15-14	F-15-14	F-16-14	F-16-14	F-16-14	F-16-14	F-16-14
Sample Depth (ft):	11	13	15	17	19	5	11	13	15	17
Date Sampled:	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014
Sample ID:	F-15-14_11	F-15-14_13	F-15-14_15	F-15-14_17	F-15-14_19	REP 120514 NC2	F-16-14_11	F-16-14_13	F-16-14_15	F-16-14_17
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 5.3 J	< 11 J	< 2.1 J	< 0.56 J	< 1.1 J	< 58	< 110	< 0.56	< 1.2	< 0.57
Aroclor 1221	< 5.3 J	< 11 J	< 2.1 J	< 0.56 J	< 1.1 J	< 58	< 110	< 0.56	< 1.2	< 0.57
Aroclor 1232	< 5.3 J	< 11 J	< 2.1 J	< 0.56 J	< 1.1 J	< 58	< 110	< 0.56	< 1.2	< 0.57
Aroclor 1242	**80 J**	**61 J**	**29 J**	**8.2 J**	**21 J**	**320**	**730**	**6**	**20**	**7.1**
Aroclor 1248	< 5.3 J	< 11 J	< 2.1 J	< 0.56 J	< 1.1 J	< 58	< 110	< 0.56	< 1.2	< 0.57
Aroclor 1254	< 5.3 J	< 11 J	< 2.1 J	**1.9 J**	< 1.1 J	< 58	< 110	< 0.56	< 1.2	**1.3**
Aroclor 1260	< 5.3 J	< 11 J	< 2.1 J	< 0.56 J	< 1.1 J	< 58	< 110	< 0.56	< 1.2	< 0.57
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**80**	**61**	**29**	**10**	**21**	**320**	**730**	**6**	**20**	**8.4**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	F-16-14	F-17-14	F-17-14	F-17-14	F-17-14	F-17-14	F-18-14	F-18-14	F-18-14	F-18-14	F-18-14
Sample Depth (ft):	19	11	13	15	17	19	11	13	15	17	19
Date Sampled:	12/5/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014
Sample ID:	F-16-14_19	F-17-14_11	F-17-14_13	F-17-14_15	F-17-14_17	F-17-14_19	F-18-14_11	F-18-14_13	F-18-14_15	F-18-14_17	F-18-14_19
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 11	< 0.11 J	< 2.2 J	< 2.2 J	< 2.3 J	< 12 J	< 2.2	< 5.2	< 5.8	< 2.2	< 0.11 J
Aroclor 1221	< 11	< 0.11 J	< 2.2 J	< 2.2 J	< 2.3 J	< 12 J	< 2.2	< 5.2	< 5.8	< 2.2	< 0.11 J
Aroclor 1232	< 11	< 0.11 J	< 2.2 J	< 2.2 J	< 2.3 J	< 12 J	< 2.2	< 5.2	< 5.8	< 2.2	< 0.11 J
Aroclor 1242	**150**	**0.85 J**	< 2.2 J	**35 J**	**19 J**	**160 J**	**22**	**36**	**42**	**19**	**2.2 J**
Aroclor 1248	< 11	< 0.11 J	**34 J**	< 2.2 J	< 2.3 J	< 12 J	< 2.2	< 5.2	< 5.8	< 2.2	< 0.11 J
Aroclor 1254	< 11	**0.19 J**	< 2.2 J	< 2.2 J	< 2.3 J	< 12 J	< 2.2	< 5.2	< 5.8	< 2.2	**0.22 J**
Aroclor 1260	< 11	< 0.11 J	< 2.2 J	< 2.2 J	< 2.3 J	< 12 J	< 2.2	< 5.2	< 5.8	< 2.2	**0.076 J**
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**150**	**1.0**	**34**	**35**	**19**	**160**	**22**	**36**	**42**	**19**	**2.5**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	F-8-14	F-8-14	F-8-14	F-8-14	F-9-14	F-9-14	F-9-14	F-9-14	G-10-14	G-10-14	G-10-14
Sample Depth (ft):	3	5	7	9	3	5	7	9	3	5	7
Date Sampled:	12/4/2014	12/4/2014	12/4/2014	12/4/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/12/2014	11/12/2014	11/12/2014
Sample ID:	F-8-14_3	F-8-14_5	F-8-14_7	F-8-14_9	F-9-14_3	F-9-14_5	F-9-14_7	F-9-14_9	G-10-14_3	G-10-14_5	G-10-14_7
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.37	< 0.37	< 3.8	< 3.7	< 0.55 J	< 0.11 J	< 0.11 J	< 5.5 J	< 0.56 J	< 0.11 J	< 2.3 J
Aroclor 1221	< 0.37	< 0.37	< 3.8	< 3.7	< 0.55 J	< 0.11 J	< 0.11 J	< 5.5 J	< 0.56 J	< 0.11 J	< 2.3 J
Aroclor 1232	< 0.37	< 0.37	< 3.8	< 3.7	< 0.55 J	< 0.11 J	< 0.11 J	< 5.5 J	< 0.56 J	< 0.11 J	< 2.3 J
Aroclor 1242	**1.3**	**0.86**	**81**	**23**	< 0.55 J	**0.19 J**	**1.9 J**	**110 J**	< 0.56 J	**1.4 J**	**15 J**
Aroclor 1248	< 0.37	< 0.37	< 3.8	< 3.7	**2.3 J**	< 0.11 J	< 0.11 J	< 5.5 J	**3.3 J**	< 0.11 J	< 2.3 J
Aroclor 1254	**0.92**	**0.46**	< 3.8	< 3.7	**0.62 J**	< 0.11 J	< 0.11 J	< 5.5 J	**0.59 J**	< 0.11 J	< 2.3 J
Aroclor 1260	< 0.37	< 0.37	< 3.8	< 3.7	< 0.55 J	< 0.11 J	< 0.11 J	< 5.5 J	< 0.56 J	< 0.11 J	< 2.3 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**2.2**	**1.3**	**81**	**23**	**2.9**	**0.19**	**1.9**	**110**	**3.9**	**1.4**	**15**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	G-10-14	G-10-14	G-10-14	G-10-14	G-10-14	G-10-14	G-10-14	G-10-14	G-11-14	G-11-14	G-11-14
Sample Depth (ft):	9	11	13	15	17	19	21	23	3	5	7
Date Sampled:	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	12/5/2014	12/5/2014	12/5/2014
Sample ID:	G-10-14_9	G-10-14_11	G-10-14_13	G-10-14_15	G-10-14_17	G-10-14_19	G-10-14_21	G-10-14_23	G-11-14_3	G-11-14_5	G-11-14_7
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 5.7 J	< 0.11 J	< 5.6 J	< 5.7 J	< 0.59 J	< 2.3 J	< 1.1 J	< 11 J	< 0.59 J	< 0.6 J	< 2.2 J
Aroclor 1221	< 5.7 J	< 0.11 J	< 5.6 J	< 5.7 J	< 0.59 J	< 2.3 J	< 1.1 J	< 11 J	< 0.59 J	< 0.6 J	< 2.2 J
Aroclor 1232	< 5.7 J	< 0.11 J	< 5.6 J	< 5.7 J	< 0.59 J	< 2.3 J	< 1.1 J	< 11 J	< 0.59 J	< 0.6 J	< 2.2 J
Aroclor 1242	**80 J**	**1.6 J**	**100 J**	**73 J**	**6.7 J**	**35 J**	**10 J**	**83 J**	**2.9 J**	**5.7 J**	**24 J**
Aroclor 1248	< 5.7 J	< 0.11 J	< 5.6 J	< 5.7 J	< 0.59 J	< 2.3 J	< 1.1 J	< 11 J	< 0.59 J	< 0.6 J	< 2.2 J
Aroclor 1254	< 5.7 J	< 0.11 J	< 5.6 J	< 5.7 J	< 0.59 J	< 2.3 J	< 1.1 J	< 11 J	< 0.59 J	< 0.6 J	< 2.2 J
Aroclor 1260	< 5.7 J	< 0.11 J	< 5.6 J	< 5.7 J	< 0.59 J	< 2.3 J	< 1.1 J	< 11 J	< 0.59 J	< 0.6 J	< 2.2 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**80**	**1.6**	**100**	**73**	**6.7**	**35**	**10**	**83**	**2.9**	**5.7**	**24**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	G-11-14	G-11-14	G-11-14	G-11-14	G-11-14	G-11-14	G-11-14	G-11-14	G-11-14	G-12-14
Sample Depth (ft):	9	11	13	15	17	17	19	21	23	3
Date Sampled:	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	11/12/2014
Sample ID:	G-11-14_9	G-11-14_11	G-11-14_13	G-11-14_15	REP 120514 NC3	G-11-14_17	G-11-14_19	G-11-14_21	G-11-14_23	G-12-14_3
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 2.2 J	-- R	< 11	< 5.5 J	< 5.9 J	< 5.5 J	< 5.5 J	< 11	< 10	< 0.52 J
Aroclor 1221	< 2.2 J	-- R	< 11	< 5.5 J	< 5.9 J	< 5.5 J	< 5.5 J	< 11	< 10	< 0.52 J
Aroclor 1232	< 2.2 J	-- R	< 11	< 5.5 J	< 5.9 J	< 5.5 J	< 5.5 J	< 11	< 10	< 0.52 J
Aroclor 1242	**32 J**	**10 J**	**48**	**76 J**	**64 J**	**79 J**	**75 J**	**110**	**100**	< 0.52 J
Aroclor 1248	< 2.2 J	-- R	< 11	< 5.5 J	< 5.9 J	< 5.5 J	< 5.5 J	< 11	< 10	**3.6 J**
Aroclor 1254	< 2.2 J	-- R	< 11	< 5.5 J	< 5.9 J	< 5.5 J	< 5.5 J	< 11	< 10	< 0.52 J
Aroclor 1260	< 2.2 J	-- R	< 11	< 5.5 J	< 5.9 J	< 5.5 J	< 5.5 J	< 11	< 10	< 0.52 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**32**	**10**	**48**	**76**	**64**	**79**	**75**	**110**	**100**	**3.6**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	G-12-14	G-12-14	G-12-14	G-12-14	G-12-14	G-12-14	G-12-14	G-12-14	G-12-14	G-12-14	G-13-14
Sample Depth (ft):	5	7	9	11	13	15	17	19	21	23	11
Date Sampled:	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	12/5/2014
Sample ID:	G-12-14_5	G-12-14_7	G-12-14_9	G-12-14_11	G-12-14_13	G-12-14_15	G-12-14_17	G-12-14_19	G-12-14_21	G-12-14_23	G-13-14_11
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 220 J	< 0.57 J	< 2.2 J	< 11 J	< 5.7 J	< 0.57 J	< 5.8 J	< 12 J	< 5.9 J	< 2.2 J	< 12
Aroclor 1221	< 220 J	< 0.57 J	< 2.2 J	< 11 J	< 5.7 J	< 0.57 J	< 5.8 J	< 12 J	< 5.9 J	< 2.2 J	< 12
Aroclor 1232	< 220 J	< 0.57 J	< 2.2 J	< 11 J	< 5.7 J	< 0.57 J	< 5.8 J	< 12 J	< 5.9 J	< 2.2 J	< 12
Aroclor 1242	**1200 J**	**4.1 J**	**46 J**	**84 J**	**62 J**	**4.6 J**	**110 J**	**75 J**	**82 J**	< 2.2 J	**62**
Aroclor 1248	< 220 J	< 0.57 J	< 2.2 J	< 11 J	< 5.7 J	< 0.57 J	< 5.8 J	< 12 J	< 5.9 J	**11 J**	< 12
Aroclor 1254	< 220 J	< 0.57 J	< 2.2 J	< 11 J	< 5.7 J	**2 J**	< 5.8 J	< 12 J	< 5.9 J	**2.9 J**	< 12
Aroclor 1260	< 220 J	< 0.57 J	< 2.2 J	< 11 J	< 5.7 J	< 0.57 J	< 5.8 J	< 12 J	< 5.9 J	**6.5 J**	< 12
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**1200**	**4.1**	**46**	**84**	**62**	**6.6**	**110**	**75**	**82**	**20**	**62**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	G-13-14	G-13-14	G-13-14	G-13-14	G-13-14	G-13-14	G-14-14	G-14-14	G-14-14	G-14-14	G-14-14
Sample Depth (ft):	13	15	17	19	21	23	3	5	7	9	11
Date Sampled:	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014
Sample ID:	G-13-14_13	G-13-14_15	G-13-14_17	G-13-14_19	G-13-14_21	G-13-14_23	G-14-14_3	G-14-14_5	G-14-14_7	G-14-14_9	G-14-14_11
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 2.6	< 11	< 7.2	< 12	< 12	< 0.098	< 0.11 J	< 2.2 J	< 11 J	< 5.7 J	< 5.6 J
Aroclor 1221	< 2.6	< 11	< 7.2	< 12	< 12	< 0.098	< 0.11 J	< 2.2 J	< 11 J	< 5.7 J	< 5.6 J
Aroclor 1232	< 2.6	< 11	< 7.2	< 12	< 12	< 0.098	< 0.11 J	< 2.2 J	< 11 J	< 5.7 J	< 5.6 J
Aroclor 1242	**16**	**41**	**29**	**89**	**59**	**0.065 J**	< 0.11 J	**14 J**	**170 J**	**23 J**	**29 J**
Aroclor 1248	< 2.6	< 11	< 7.2	< 12	< 12	< 0.098	**0.59 J**	< 2.2 J	< 11 J	< 5.7 J	< 5.6 J
Aroclor 1254	< 2.6	< 11	< 7.2	< 12	< 12	< 0.098	< 0.11 J	**5.3 J**	< 11 J	< 5.7 J	< 5.6 J
Aroclor 1260	< 2.6	< 11	< 7.2	< 12	< 12	< 0.098	< 0.11 J	< 2.2 J	< 11 J	< 5.7 J	< 5.6 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**16**	**41**	**29**	**89**	**59**	**0.065**	**0.59**	**19**	**170**	**23**	**29**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	G-14-14	G-14-14	G-14-14	G-14-14	G-14-14	G-14-14	G-15-14	G-15-14	G-15-14	G-15-14
Sample Depth (ft):	13	15	17	19	21	23	11	13	15	17
Date Sampled:	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014
Sample ID:	G-14-14_13	G-14-14_15	G-14-14_17	G-14-14_19	G-14-14_21	G-14-14_23	G-15-14_11	G-15-14_13	G-15-14_15	G-15-14_17
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 5.6 J	< 1.1 J	< 0.59 J	< 2.3 J	< 2.3 J	< 2.2 J	< 2.3	< 12	< 2.5	< 6.5
Aroclor 1221	< 5.6 J	< 1.1 J	< 0.59 J	< 2.3 J	< 2.3 J	< 2.2 J	< 2.3	< 12	< 2.5	< 6.5
Aroclor 1232	< 5.6 J	< 1.1 J	< 0.59 J	< 2.3 J	< 2.3 J	< 2.2 J	< 2.3	< 12	< 2.5	< 6.5
Aroclor 1242	**25 J**	**18 J**	**3.8 J**	**36 J**	**37 J**	**28 J**	**16**	**110**	**12**	**30**
Aroclor 1248	< 5.6 J	< 1.1 J	< 0.59 J	< 2.3 J	< 2.3 J	< 2.2 J	< 2.3	< 12	< 2.5	< 6.5
Aroclor 1254	< 5.6 J	< 1.1 J	< 0.59 J	< 2.3 J	< 2.3 J	< 2.2 J	< 2.3	< 12	< 2.5	< 6.5
Aroclor 1260	< 5.6 J	< 1.1 J	< 0.59 J	< 2.3 J	< 2.3 J	< 2.2 J	< 2.3	< 12	< 2.5	< 6.5
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**25**	**18**	**3.8**	**36**	**37**	**28**	**16**	**110**	**12**	**30**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	G-15-14	G-15-14	G-16-14	G-16-14	G-16-14	G-16-14	G-16-14	G-16-14	G-16-14
Sample Depth (ft):	19	19	3	3	5	5	7	7	9
Date Sampled:	12/5/2014	12/5/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014
Sample ID:	REP 120514 NC4	G-15-14_19	REP111214DM1	G-16-14_3	REP111214DM2	G-16-14_5	REP111214DM3	G-16-14_7	REP111214DM4
CONSTITUENT (unit in mg/kg)									
Aroclor 1016	< 1.2	< 1.2	< 0.094	< 0.11 J	< 2	< 2.2 J	< 9.6	< 5.8 J	< 2
Aroclor 1221	< 1.2	< 1.2	< 0.094	< 0.11 J	< 2	< 2.2 J	< 9.6	< 5.8 J	< 2
Aroclor 1232	< 1.2	< 1.2	< 0.094	< 0.11 J	< 2	< 2.2 J	< 9.6	< 5.8 J	< 2
Aroclor 1242	**6.8**	**6.7**	**0.36**	< 0.11 J	**35**	**35 J**	**55**	**110 J**	**21**
Aroclor 1248	< 1.2	< 1.2	< 0.094	**1.2 J**	< 2	< 2.2 J	< 9.6	< 5.8 J	< 2
Aroclor 1254	**1.6**	< 1.2	**0.17**	**0.2 J**	< 2	< 2.2 J	< 9.6	< 5.8 J	< 2
Aroclor 1260	< 1.2	< 1.2	< 0.094	< 0.11 J	< 2	< 2.2 J	< 9.6	< 5.8 J	< 2
Aroclor 1262	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--
Total PCBs	**8.4**	**6.7**	**0.53**	**1.4**	**35**	**35**	**55**	**110**	**21**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	G-16-14	G-16-14	G-16-14	G-16-14	G-16-14	G-16-14	G-16-14	G-16-14	G-16-14	G-17-14
Sample Depth (ft):	9	11	11	13	13	15	17	19	19	11
Date Sampled:	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	12/5/2014
Sample ID:	G-16-14_9	REP111214DM5	G-16-14_11	REP111214DM6	G-16-14_13	G-16-14_15	G-16-14_17	REP111214DM9	G-16-14_19	G-17-14_11
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 1.1 J	< 2	< 11 J	< 4.8	< 1.1 J	< 2.2 J	< 5.8 J	< 10	< 1.2 J	< 2.5
Aroclor 1221	< 1.1 J	< 2	< 11 J	< 4.8	< 1.1 J	< 2.2 J	< 5.8 J	< 10	< 1.2 J	< 2.5
Aroclor 1232	< 1.1 J	< 2	< 11 J	< 4.8	< 1.1 J	< 2.2 J	< 5.8 J	< 10	< 1.2 J	< 2.5
Aroclor 1242	**18 J**	**35**	**43 J**	**37**	**18 J**	**26 J**	**83 J**	**24**	**15 J**	**23**
Aroclor 1248	< 1.1 J	< 2	< 11 J	< 4.8	< 1.1 J	< 2.2 J	< 5.8 J	< 10	< 1.2 J	< 2.5
Aroclor 1254	< 1.1 J	< 2	< 11 J	< 4.8	< 1.1 J	< 2.2 J	< 5.8 J	< 10	< 1.2 J	< 2.5
Aroclor 1260	< 1.1 J	< 2	< 11 J	< 4.8	< 1.1 J	< 2.2 J	< 5.8 J	< 10	< 1.2 J	< 2.5
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**18**	**35**	**43**	**37**	**18**	**26**	**83**	**24**	**15**	**23**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	G-17-14	G-17-14	G-17-14	G-17-14	G-18-14	G-18-14	G-18-14	G-6-14	G-6-14	G-6-14	G-6-14
Sample Depth (ft):	13	15	17	19	3	5	7	3	5	7	9
Date Sampled:	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014
Sample ID:	G-17-14_13	G-17-14_15	G-17-14_17	G-17-14_19	G-18-14_3	G-18-14_5	G-18-14_7	G-6-14_3	G-6-14_5	G-6-14_7	G-6-14_9
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 2.4	< 2.4	< 17	< 1.4	< 0.12	< 1.2	< 0.69	< 2.3 J	< 2.5 J	< 0.6 J	< 0.7 J
Aroclor 1221	< 2.4	< 2.4	< 17	< 1.4	< 0.12	< 1.2	< 0.69	< 2.3 J	< 2.5 J	< 0.6 J	< 0.7 J
Aroclor 1232	< 2.4	< 2.4	< 17	< 1.4	< 0.12	< 1.2	< 0.69	< 2.3 J	< 2.5 J	< 0.6 J	< 0.7 J
Aroclor 1242	**11**	**16**	**110**	**39**	**0.048 J**	**22**	**7.7**	**23 J**	**33 J**	**2.3 J**	< 0.7 J
Aroclor 1248	< 2.4	< 2.4	< 17	< 1.4	< 0.12	< 1.2	< 0.69	< 2.3 J	< 2.5 J	< 0.6 J	< 0.7 J
Aroclor 1254	< 2.4	< 2.4	< 17	< 1.4	**0.048 J**	< 1.2	< 0.69	< 2.3 J	< 2.5 J	**0.78 J**	< 0.7 J
Aroclor 1260	< 2.4	< 2.4	< 17	< 1.4	< 0.12	< 1.2	< 0.69	< 2.3 J	< 2.5 J	**3.5 J**	**7.1 J**
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**11**	**16**	**110**	**39**	**0.096**	**22**	**7.7**	**23**	**33**	**6.6**	**7.1**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	G-8-14	G-8-14	G-8-14	G-8-14	G-9-14	G-9-14	G-9-14	G-9-14	H-10-14	H-10-14	H-10-14
Sample Depth (ft):	3	5	7	9	3	5	7	9	3	5	7
Date Sampled:	11/6/2014	11/6/2014	11/6/2014	11/6/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/8/2014	12/8/2014	12/8/2014
Sample ID:	G-8-14_3	G-8-14_5	G-8-14_7	G-8-14_9	G-9-14_3	G-9-14_5	G-9-14_7	G-9-14_9	H-10-14_3	H-10-14_5	H-10-14_7
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 11 J	< 11 J	< 2.3 J	< 2.2 J	< 0.56 J	< 0.55 J	< 2.3 J	< 23 J	< 0.11 J	< 0.53 J	< 22 J
Aroclor 1221	< 11 J	< 11 J	< 2.3 J	< 2.2 J	< 0.56 J	< 0.55 J	< 2.3 J	< 23 J	< 0.11 J	< 0.53 J	< 22 J
Aroclor 1232	< 11 J	< 11 J	< 2.3 J	< 2.2 J	< 0.56 J	< 0.55 J	< 2.3 J	< 23 J	< 0.11 J	< 0.53 J	< 22 J
Aroclor 1242	**52 J**	**59 J**	**25 J**	**22 J**	**5.4 J**	**2.5 J**	**32 J**	**110 J**	**0.47 J**	**6.4 J**	**97 J**
Aroclor 1248	-- R	< 11 J	< 2.3 J	< 2.2 J	< 0.56 J	< 0.55 J	< 2.3 J	< 23 J	< 0.11 J	< 0.53 J	< 22 J
Aroclor 1254	-- R	< 11 J	**2.6 J**	**1.8 J**	< 0.56 J	< 0.55 J	< 2.3 J	< 23 J	< 0.11 J	< 0.53 J	< 22 J
Aroclor 1260	-- R	< 11 J	< 2.3 J	< 2.2 J	< 0.56 J	< 0.55 J	< 2.3 J	< 23 J	< 0.11 J	< 0.53 J	< 22 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**52**	**59**	**28**	**24**	**5.4**	**2.5**	**32**	**110**	**0.47**	**6.4**	**97**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	H-10-14	H-10-14	H-10-14	H-10-14	H-10-14	H-10-14	H-10-14	H-11-14	H-11-14	H-11-14
Sample Depth (ft):	9	11	13	15	17	19	21	3	3	5
Date Sampled:	12/8/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014	11/13/2014	11/13/2014	11/13/2014
Sample ID:	H-10-14_9	H-10-14_11	H-10-14_13	H-10-14_15	H-10-14_17	H-10-14_19	H-10-14_21	REP111314DM1	H-11-14_3	REP111314DM2
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 21 J	< 0.11 J	< 0.11 J	< 0.54 J	< 5.5 J	< 5.5 J	< 0.54 J	< 0.094	< 0.1 J	< 0.49
Aroclor 1221	< 21 J	< 0.11 J	< 0.11 J	< 0.54 J	< 5.5 J	< 5.5 J	< 0.54 J	< 0.094	< 0.1 J	< 0.49
Aroclor 1232	< 21 J	< 0.11 J	< 0.11 J	< 0.54 J	< 5.5 J	< 5.5 J	< 0.54 J	< 0.094	< 0.1 J	< 0.49
Aroclor 1242	**100 J**	**2 J**	**1.1 J**	**6.2 J**	**63 J**	**91 J**	**7.8 J**	< 0.094	< 0.1 J	**7.2**
Aroclor 1248	< 21 J	< 0.11 J	< 0.11 J	< 0.54 J	< 5.5 J	< 5.5 J	< 0.54 J	**1**	**1.2 J**	< 0.49
Aroclor 1254	< 21 J	< 0.11 J	< 0.11 J	< 0.54 J	< 5.5 J	< 5.5 J	< 0.54 J	< 0.094	**0.23 J**	< 0.49
Aroclor 1260	< 21 J	< 0.11 J	< 0.11 J	< 0.54 J	< 5.5 J	< 5.5 J	< 0.54 J	< 0.094	< 0.1 J	< 0.49
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**100**	**2.0**	**1.1**	**6.2**	**63**	**91**	**7.8**	**1.0**	**1.4**	**7.2**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	H-11-14	H-11-14	H-11-14	H-11-14	H-11-14	H-11-14	H-11-14	H-11-14	H-11-14	H-11-14
Sample Depth (ft):	5	7	7	9	9	11	13	15	17	19
Date Sampled:	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014
Sample ID:	H-11-14_5	REP111314DM3	H-11-14_7	REP111314DM4	H-11-14_9	H-11-14_11	H-11-14_13	H-11-14_15	H-11-14_17	H-11-14_19
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 1.1 J	< 5	< 11 J	< 0.096	< 0.1 J	< 1.1 J	< 2.2 J	< 11 J	< 0.12 J	< 2.3 J
Aroclor 1221	< 1.1 J	< 5	< 11 J	< 0.096	< 0.1 J	< 1.1 J	< 2.2 J	< 11 J	< 0.12 J	< 2.3 J
Aroclor 1232	< 1.1 J	< 5	< 11 J	< 0.096	< 0.1 J	< 1.1 J	< 2.2 J	< 11 J	< 0.12 J	< 2.3 J
Aroclor 1242	**10 J**	**67**	**120 J**	**0.26**	**0.39 J**	**2.9 J**	**40 J**	**53 J**	**1.5 J**	**43 J**
Aroclor 1248	< 1.1 J	< 5	< 11 J	< 0.096	< 0.1 J	< 1.1 J	< 2.2 J	< 11 J	< 0.12 J	< 2.3 J
Aroclor 1254	< 1.1 J	< 5	< 11 J	< 0.096	< 0.1 J	< 1.1 J	< 2.2 J	< 11 J	< 0.12 J	< 2.3 J
Aroclor 1260	< 1.1 J	< 5	< 11 J	< 0.096	< 0.1 J	< 1.1 J	< 2.2 J	< 11 J	< 0.12 J	< 2.3 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**10**	**67**	**120**	**0.26**	**0.39**	**2.9**	**40**	**53**	**1.5**	**43**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	H-11-14	H-12-14	H-12-14	H-12-14	H-12-14	H-12-14	H-12-14	H-13-14	H-13-14	H-13-14	H-13-14
Sample Depth (ft):	21	11	13	15	17	19	21	11	13	15	17
Date Sampled:	11/13/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014
Sample ID:	H-11-14_21	H-12-14_11	H-12-14_13	H-12-14_15	H-12-14_17	H-12-14_19	H-12-14_21	H-13-14_11	H-13-14_13	H-13-14_15	H-13-14_17
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.59 J	< 5.5	< 5.6	< 10	< 11	< 10	< 10	< 0.94 J	< 0.95 J	< 1.9 J	< 0.4 J
Aroclor 1221	< 0.59 J	< 5.5	< 5.6	< 10	< 11	< 10	< 10	< 0.94 J	< 0.95 J	< 1.9 J	< 0.4 J
Aroclor 1232	< 0.59 J	< 5.5	< 5.6	< 10	< 11	< 10	< 10	< 0.94 J	< 0.95 J	< 1.9 J	< 0.4 J
Aroclor 1242	**4 J**	**55**	**60**	**61**	**59**	**60**	**72**	**7.2 J**	**8.6 J**	**33 J**	**1.8 J**
Aroclor 1248	< 0.59 J	< 5.5	< 5.6	< 10	< 11	< 10	< 10	< 0.94 J	< 0.95 J	< 1.9 J	< 0.4 J
Aroclor 1254	< 0.59 J	< 5.5	< 5.6	< 10	< 11	< 10	< 10	< 0.94 J	< 0.95 J	< 1.9 J	**0.56 J**
Aroclor 1260	< 0.59 J	< 5.5	< 5.6	< 10	< 11	< 10	< 10	< 0.94 J	< 0.95 J	< 1.9 J	< 0.4 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**4.0**	**55**	**60**	**61**	**59**	**60**	**72**	**7.2**	**8.6**	**33**	**2.4**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	H-13-14	H-13-14	H-14-14	H-14-14	H-14-14	H-14-14	H-14-14	H-14-14	H-14-14	H-15-14
Sample Depth (ft):	19	21	11	13	15	17	19	19	21	11
Date Sampled:	11/13/2014	11/13/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014	11/13/2014
Sample ID:	H-13-14_19	H-13-14_21	H-14-14_11	H-14-14_13	H-14-14_15	H-14-14_17	REP 120814 DM1	H-14-14_19	H-14-14_21	H-15-14_11
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 2.3 J	< 0.57 J	< 1.1	< 5.3	< 2.1	< 0.12	< 0.11	< 0.11 J	< 0.59 J	< 11 J
Aroclor 1221	< 2.3 J	< 0.57 J	< 1.1	< 5.3	< 2.1	< 0.12	< 0.11	< 0.11 J	< 0.59 J	< 11 J
Aroclor 1232	< 2.3 J	< 0.57 J	< 1.1	< 5.3	< 2.1	< 0.12	< 0.11	< 0.11 J	< 0.59 J	< 11 J
Aroclor 1242	**40 J**	**10 J**	**13**	**32**	**33**	**3.3**	**2.1**	**1.5 J**	**5.5 J**	**57 J**
Aroclor 1248	< 2.3 J	< 0.57 J	< 1.1	< 5.3	< 2.1	< 0.12	< 0.11	< 0.11 J	< 0.59 J	< 11 J
Aroclor 1254	< 2.3 J	< 0.57 J	< 1.1	< 5.3	< 2.1	< 0.12	< 0.11	**0.18 J**	< 0.59 J	< 11 J
Aroclor 1260	< 2.3 J	< 0.57 J	< 1.1	< 5.3	< 2.1	< 0.12	< 0.11	**0.16 J**	< 0.59 J	< 11 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**40**	**10**	**13**	**32**	**33**	**3.3**	**2.1**	**1.8**	**5.5**	**57**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	H-15-14	H-15-14	H-15-14	H-15-14	H-8-14	H-8-14	H-8-14	H-8-14	H-9-14	H-9-14
Sample Depth (ft):	13	15	17	19	3	5	7	9	3	3
Date Sampled:	11/13/2014	11/13/2014	11/13/2014	11/13/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	11/12/2014	11/12/2014
Sample ID:	H-15-14_13	H-15-14_15	H-15-14_17	H-15-14_19	H-8-14_3	H-8-14_5	H-8-14_7	H-8-14_9	REP111214DM10	H-9-14_3
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 11 J	< 11 J	< 2.3 J	< 58 J	< 0.62	< 23	< 57	< 0.6	< 0.96	< 0.56 J
Aroclor 1221	< 11 J	< 11 J	< 2.3 J	< 58 J	< 0.62	< 23	< 57	< 0.6	< 0.96	< 0.56 J
Aroclor 1232	< 11 J	< 11 J	< 2.3 J	< 58 J	< 0.62	< 23	< 57	< 0.6	< 0.96	< 0.56 J
Aroclor 1242	**60 J**	**87 J**	**39 J**	**330 J**	**6.9**	**72**	**83**	**7.2**	< 0.96	< 0.56 J
Aroclor 1248	< 11 J	< 11 J	< 2.3 J	< 58 J	< 0.62	< 23	< 57	< 0.6	**4.8**	**3.7 J**
Aroclor 1254	< 11 J	< 11 J	< 2.3 J	< 58 J	< 0.62	< 23	< 57	**0.92**	**0.93 J**	**0.76 J**
Aroclor 1260	< 11 J	< 11 J	< 2.3 J	< 58 J	< 0.62	< 23	< 57	**1.9**	< 0.96	< 0.56 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**60**	**87**	**39**	**330**	**6.9**	**72**	**83**	**10**	**5.7**	**4.5**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	H-9-14	H-9-14	H-9-14	H-9-14	H-9-14	H-9-14	I-10-14	I-10-14	I-10-14	I-10-14
Sample Depth (ft):	5	5	7	7	9	9	3	5	7	9
Date Sampled:	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014
Sample ID:	REP111214DM11	H-9-14_5	REP111214DM12	H-9-14_7	REP111214DM13	H-9-14_9	I-10-14_3	I-10-14_5	I-10-14_7	I-10-14_9
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 2	< 5.6 J	< 190	< 23 J	< 9.8	< 11 J	< 0.11 J	< 5.4 J	< 58 J	< 11 J
Aroclor 1221	< 2	< 5.6 J	< 190	< 23 J	< 9.8	< 11 J	< 0.11 J	< 5.4 J	< 58 J	< 11 J
Aroclor 1232	< 2	< 5.6 J	< 190	< 23 J	< 9.8	< 11 J	< 0.11 J	< 5.4 J	< 58 J	< 11 J
Aroclor 1242	**30**	**35 J**	**940**	**260 J**	**200**	**170 J**	**2.2 J**	**40 J**	**170 J**	**130 J**
Aroclor 1248	< 2	< 5.6 J	< 190	< 23 J	< 9.8	< 11 J	< 0.11 J	< 5.4 J	< 58 J	< 11 J
Aroclor 1254	< 2	< 5.6 J	< 190	< 23 J	< 9.8	< 11 J	< 0.11 J	**3.2 J**	< 58 J	< 11 J
Aroclor 1260	< 2	< 5.6 J	< 190	< 23 J	< 9.8	< 11 J	< 0.11 J	**11 J**	< 58 J	< 11 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**30**	**35**	**940**	**260**	**200**	**170**	**2.2**	**54**	**170**	**130**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	I-10-14	I-10-14	I-10-14	I-10-14	I-10-14	I-10-14	I-11-14	I-11-14	I-11-14	I-11-14	I-11-14
Sample Depth (ft):	11	13	15	17	19	21	3	5	7	9	11
Date Sampled:	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014
Sample ID:	I-10-14_11	I-10-14_13	I-10-14_15	I-10-14_17	I-10-14_19	I-10-14_21	I-11-14_3	I-11-14_5	I-11-14_7	I-11-14_9	I-11-14_11
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.57 J	< 57 J	< 110 J	< 120 J	< 12 J	< 2.3 J	< 0.11	< 55	< 5.8	< 12	< 0.61
Aroclor 1221	< 0.57 J	< 57 J	< 110 J	< 120 J	< 12 J	< 2.3 J	< 0.11	< 55	< 5.8	< 12	< 0.61
Aroclor 1232	< 0.57 J	< 57 J	< 110 J	< 120 J	< 12 J	< 2.3 J	< 0.11	< 55	< 5.8	< 12	< 0.61
Aroclor 1242	**8.7 J**	**190 J**	**800 J**	**650 J**	**150 J**	< 2.3 J	**1.4**	**1100**	**26**	**66**	**4.7**
Aroclor 1248	< 0.57 J	< 57 J	< 110 J	< 120 J	< 12 J	**16 J**	< 0.11	< 55	< 5.8	< 12	< 0.61
Aroclor 1254	< 0.57 J	< 57 J	< 110 J	< 120 J	< 12 J	**6.2 J**	**0.53**	< 55	< 5.8	< 12	< 0.61
Aroclor 1260	< 0.57 J	< 57 J	< 110 J	< 120 J	< 12 J	< 2.3 J	< 0.11	< 55	< 5.8	< 12	< 0.61
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**8.7**	**190**	**800**	**650**	**150**	**22**	**1.9**	**1100**	**26**	**66**	**4.7**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	I-11-14	I-11-14	I-11-14	I-11-14	I-11-14	I-11-14	I-12-14	I-12-14	I-12-14	I-12-14
Sample Depth (ft):	13	15	17	19	19	21	3	5	7	9
Date Sampled:	12/8/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014
Sample ID:	I-11-14_13	I-11-14_15	I-11-14_17	REP 120814 DM2	I-11-14_19	I-11-14_21	I-12-14_3	I-12-14_5	I-12-14_7	I-12-14_9
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.11	< 11	< 1.2	< 5.2	< 2.2	< 2.3	< 0.11 J	< 2.2 J	< 2.3 J	< 5.6 J
Aroclor 1221	< 0.11	< 11	< 1.2	< 5.2	< 2.2	< 2.3	< 0.11 J	< 2.2 J	< 2.3 J	< 5.6 J
Aroclor 1232	< 0.11	< 11	< 1.2	< 5.2	< 2.2	< 2.3	< 0.11 J	< 2.2 J	< 2.3 J	< 5.6 J
Aroclor 1242	**2.9**	**70**	**17**	**18**	**39**	**11**	< 0.11 J	**36 J**	**35 J**	**110 J**
Aroclor 1248	< 0.11	< 11	< 1.2	< 5.2	< 2.2	< 2.3	**1.2 J**	< 2.2 J	< 2.3 J	< 5.6 J
Aroclor 1254	< 0.11	< 11	< 1.2	< 5.2	< 2.2	< 2.3	**0.34 J**	< 2.2 J	< 2.3 J	< 5.6 J
Aroclor 1260	< 0.11	< 11	< 1.2	< 5.2	< 2.2	< 2.3	< 0.11 J	< 2.2 J	< 2.3 J	< 5.6 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**2.9**	**70**	**17**	**18**	**39**	**11**	**1.5**	**36**	**35**	**110**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	I-12-14	I-12-14	I-12-14	I-12-14	I-12-14	I-12-14	I-13-14	I-13-14	I-13-14	I-13-14	I-13-14
Sample Depth (ft):	11	13	15	17	19	21	11	13	15	17	19
Date Sampled:	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014
Sample ID:	I-12-14_11	I-12-14_13	I-12-14_15	I-12-14_17	I-12-14_19	I-12-14_21	I-13-14_11	I-13-14_13	I-13-14_15	I-13-14_17	I-13-14_19
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 11 J	< 2.2 J	< 11 J	< 2.3 J	< 12 J	< 2.3 J	< 1.1	< 2.3	< 11	< 0.12	< 0.12
Aroclor 1221	< 11 J	< 2.2 J	< 11 J	< 2.3 J	< 12 J	< 2.3 J	< 1.1	< 2.3	< 11	< 0.12	< 0.12
Aroclor 1232	< 11 J	< 2.2 J	< 11 J	< 2.3 J	< 12 J	< 2.3 J	< 1.1	< 2.3	< 11	< 0.12	< 0.12
Aroclor 1242	**64 J**	**51 J**	**76 J**	**35 J**	**79 J**	**43 J**	**23**	**26**	**50**	**1.9**	**2.1**
Aroclor 1248	< 11 J	< 2.2 J	< 11 J	< 2.3 J	< 12 J	< 2.3 J	< 1.1	< 2.3	< 11	< 0.12	< 0.12
Aroclor 1254	< 11 J	< 2.2 J	< 11 J	< 2.3 J	< 12 J	< 2.3 J	< 1.1	< 2.3	< 11	< 0.12	< 0.12
Aroclor 1260	< 11 J	< 2.2 J	< 11 J	< 2.3 J	< 12 J	< 2.3 J	< 1.1	< 2.3	< 11	< 0.12	< 0.12
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**64**	**51**	**76**	**35**	**79**	**43**	**23**	**26**	**50**	**1.9**	**2.1**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	I-13-14	I-14-14	I-14-14	I-14-14	I-14-14	I-14-14	I-14-14	I-14-14	I-14-14	I-14-14	I-14-14
Sample Depth (ft):	21	3	5	7	9	11	13	15	17	19	21
Date Sampled:	12/5/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014
Sample ID:	I-13-14_21	I-14-14_3	I-14-14_5	I-14-14_7	I-14-14_9	I-14-14_11	I-14-14_13	I-14-14_15	I-14-14_17	I-14-14_19	I-14-14_21
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 6.5	< 0.54 J	< 0.11 J	< 5.6 J	< 11 J	< 2.1 J	< 54 J	< 2.1 J	< 5.6 J	< 11 J	< 5.9 J
Aroclor 1221	< 6.5	< 0.54 J	< 0.11 J	< 5.6 J	< 11 J	< 2.1 J	< 54 J	< 2.1 J	< 5.6 J	< 11 J	< 5.9 J
Aroclor 1232	< 6.5	< 0.54 J	< 0.11 J	< 5.6 J	< 11 J	< 2.1 J	< 54 J	< 2.1 J	< 5.6 J	< 11 J	< 5.9 J
Aroclor 1242	**55**	< 0.54 J	< 0.11 J	**18 J**	**78 J**	**32 J**	**240 J**	**20 J**	**40 J**	**72 J**	**49 J**
Aroclor 1248	< 6.5	**1.9 J**	**0.18 J**	< 5.6 J	< 11 J	< 2.1 J	< 54 J	< 2.1 J	< 5.6 J	< 11 J	< 5.9 J
Aroclor 1254	< 6.5	< 0.54 J	**0.073 J**	**6.5 J**	< 11 J	< 2.1 J	< 54 J	< 2.1 J	< 5.6 J	< 11 J	< 5.9 J
Aroclor 1260	< 6.5	< 0.54 J	< 0.11 J	< 5.6 J	< 11 J	< 2.1 J	< 54 J	< 2.1 J	< 5.6 J	< 11 J	< 5.9 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**55**	**1.9**	**0.25**	**25**	**78**	**32**	**240**	**20**	**40**	**72**	**49**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	I-16-14	I-16-14	I-16-14	I-16-14	I-18-14	I-18-14	I-18-14	I-18-14	I-20-14	I-20-14	I-20-14
Sample Depth (ft):	3	5	7	9	3	5	7	9	3	5	7
Date Sampled:	11/13/2014	11/13/2014	11/13/2014	11/13/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014
Sample ID:	I-16-14_3	I-16-14_5	I-16-14_7	I-16-14_9	I-18-14_3	I-18-14_5	I-18-14_7	I-18-14_9	I-20-14_3	I-20-14_5	I-20-14_7
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.11 J	< 11 J	< 5.7 J	< 5.5 J	< 0.11	< 2.2	< 57	< 1.1	< 0.11	< 0.57	< 0.13
Aroclor 1221	< 0.11 J	< 11 J	< 5.7 J	< 5.5 J	< 0.11	< 2.2	< 57	< 1.1	< 0.11	< 0.57	< 0.13
Aroclor 1232	< 0.11 J	< 11 J	< 5.7 J	< 5.5 J	< 0.11	< 2.2	< 57	< 1.1	< 0.11	< 0.57	< 0.13
Aroclor 1242	< 0.11 J	**93 J**	**29 J**	**55 J**	< 0.11	**23**	**400**	**19**	< 0.11	< 0.57	**2.4**
Aroclor 1248	**0.38 J**	< 11 J	< 5.7 J	< 5.5 J	**0.093 J**	< 2.2	< 57	< 1.1	**0.22**	**6.6**	< 0.13
Aroclor 1254	**0.13 J**	< 11 J	< 5.7 J	< 5.5 J	**0.06 J**	< 2.2	< 57	< 1.1	**0.11 J**	< 0.57	**0.34**
Aroclor 1260	**0.12 J**	< 11 J	< 5.7 J	< 5.5 J	< 0.11	< 2.2	< 57	< 1.1	< 0.11	< 0.57	**0.13**
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.63**	**93**	**29**	**55**	**0.15**	**23**	**400**	**19**	**0.33**	**6.6**	**2.9**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	I-20-14	I-6-14	I-6-14	I-6-14	I-6-14	I-8-14	I-8-14	I-8-14	I-8-14	I-8-14
Sample Depth (ft):	9	3	5	7	9	3	3	5	5	7
Date Sampled:	12/5/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014
Sample ID:	I-20-14_9	I-6-14_3	I-6-14_5	I-6-14_7	I-6-14_9	REP111314DM5	I-8-14_3	REP111314DM6	I-8-14_5	REP111314DM7
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.58	< 2.1 J	< 2.2 J	< 58 J	< 0.55 J	< 4.8	< 1.1 J	< 5	< 5.5 J	< 0.98
Aroclor 1221	< 0.58	< 2.1 J	< 2.2 J	< 58 J	< 0.55 J	< 4.8	< 1.1 J	< 5	< 5.5 J	< 0.98
Aroclor 1232	< 0.58	< 2.1 J	< 2.2 J	< 58 J	< 0.55 J	< 4.8	< 1.1 J	< 5	< 5.5 J	< 0.98
Aroclor 1242	**2.6**	< 2.1 J	< 2.2 J	**280 J**	**0.4 J**	**37**	**20 J**	**58**	**56 J**	**11**
Aroclor 1248	< 0.58	**38 J**	**28 J**	< 58 J	< 0.55 J	< 4.8	< 1.1 J	< 5	< 5.5 J	< 0.98
Aroclor 1254	**0.79**	**5.2 J**	**3.4 J**	< 58 J	< 0.55 J	< 4.8	< 1.1 J	< 5	< 5.5 J	< 0.98
Aroclor 1260	< 0.58	< 2.1 J	< 2.2 J	< 58 J	**0.48 J**	< 4.8	< 1.1 J	< 5	< 5.5 J	< 0.98
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**3.4**	**43**	**31**	**280**	**0.88**	**37**	**20**	**58**	**56**	**11**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	I-8-14	I-8-14	I-8-14	I-9-14	I-9-14	I-9-14	I-9-14	J-10-14	J-10-14	J-10-14
Sample Depth (ft):	7	8	9	3	5	7	9	3	5	7
Date Sampled:	11/13/2014	11/13/2014	11/13/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014	12/5/2014	12/5/2014	12/5/2014
Sample ID:	I-8-14_7	REP111314DM8	I-8-14_9	I-9-14_3	I-9-14_5	I-9-14_7	I-9-14_9	J-10-14_3	J-10-14_5	J-10-14_7
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 2.3 J	< 2	< 5.7 J	< 0.54 J	< 5.5 J	< 110 J	< 2.1 J	< 0.11	< 5.6	< 11 J
Aroclor 1221	< 2.3 J	< 2	< 5.7 J	< 0.54 J	< 5.5 J	< 110 J	< 2.1 J	< 0.11	< 5.6	< 11 J
Aroclor 1232	< 2.3 J	< 2	< 5.7 J	< 0.54 J	< 5.5 J	< 110 J	< 2.1 J	< 0.11	< 5.6	< 11 J
Aroclor 1242	**10 J**	**27**	**43 J**	**3.8 J**	**73 J**	**490 J**	**21 J**	**0.48**	**64**	**55 J**
Aroclor 1248	< 2.3 J	< 2	< 5.7 J	< 0.54 J	< 5.5 J	< 110 J	< 2.1 J	< 0.11	< 5.6	< 11 J
Aroclor 1254	< 2.3 J	< 2	< 5.7 J	< 0.54 J	< 5.5 J	< 110 J	< 2.1 J	< 0.11	< 5.6	< 11 J
Aroclor 1260	< 2.3 J	< 2	< 5.7 J	< 0.54 J	< 5.5 J	< 110 J	< 2.1 J	< 0.11	< 5.6	< 11 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**10**	**27**	**43**	**3.8**	**73**	**490**	**21**	**0.48**	**64**	**55**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	J-10-14	J-10-14	J-10-14	J-10-14	J-10-14	J-10-14	J-10-14	J-11-14	J-11-14	J-11-14	J-11-14
Sample Depth (ft):	9	11	13	15	17	19	21	3	5	7	9
Date Sampled:	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014
Sample ID:	J-10-14_9	J-10-14_11	J-10-14_13	J-10-14_15	J-10-14_17	J-10-14_19	J-10-14_21	J-11-14_3	J-11-14_5	J-11-14_7	J-11-14_9
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 54 J	< 5.6 J	< 11	< 5.6	< 24 J	< 2.2	< 1.1	< 0.11 J	< 5.2 J	< 5.4 J	< 5.7 J
Aroclor 1221	< 54 J	< 5.6 J	< 11	< 5.6	< 24 J	< 2.2	< 1.1	< 0.11 J	< 5.2 J	< 5.4 J	< 5.7 J
Aroclor 1232	< 54 J	< 5.6 J	< 11	< 5.6	< 24 J	< 2.2	< 1.1	< 0.11 J	< 5.2 J	< 5.4 J	< 5.7 J
Aroclor 1242	**620 J**	**37 J**	**79**	**17**	**170 J**	**15**	**6.4**	< 0.11 J	**67 J**	**110 J**	**54 J**
Aroclor 1248	< 54 J	< 5.6 J	< 11	< 5.6	< 24 J	< 2.2	< 1.1	**0.84 J**	< 5.2 J	< 5.4 J	< 5.7 J
Aroclor 1254	< 54 J	< 5.6 J	< 11	< 5.6	< 24 J	< 2.2	< 1.1	< 0.11 J	< 5.2 J	< 5.4 J	< 5.7 J
Aroclor 1260	< 54 J	< 5.6 J	< 11	< 5.6	< 24 J	< 2.2	< 1.1	< 0.11 J	< 5.2 J	< 5.4 J	< 5.7 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**620**	**37**	**79**	**17**	**170**	**15**	**6.4**	**0.84**	**67**	**110**	**54**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	J-11-14	J-11-14	J-11-14	J-11-14	J-11-14	J-11-14	J-12-14	J-12-14	J-12-14	J-12-14	J-12-14
Sample Depth (ft):	11	13	15	17	19	21	3	5	7	9	11
Date Sampled:	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014
Sample ID:	J-11-14_11	J-11-14_13	J-11-14_15	J-11-14_17	J-11-14_19	J-11-14_21	J-12-14_3	J-12-14_5	J-12-14_7	J-12-14_9	J-12-14_11
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 5.6 J	< 5.7 J	< 11 J	< 11 J	< 2.2 J	< 2.2 J	< 0.11	< 5.4	< 11	< 6.4	< 5.6
Aroclor 1221	< 5.6 J	< 5.7 J	< 11 J	< 11 J	< 2.2 J	< 2.2 J	< 0.11	< 5.4	< 11	< 6.4	< 5.6
Aroclor 1232	< 5.6 J	< 5.7 J	< 11 J	< 11 J	< 2.2 J	< 2.2 J	< 0.11	< 5.4	< 11	< 6.4	< 5.6
Aroclor 1242	**62 J**	**91 J**	**130 J**	**96 J**	**35 J**	**37 J**	< 0.11	**25**	**110**	**64**	**69**
Aroclor 1248	< 5.6 J	< 5.7 J	< 11 J	< 11 J	< 2.2 J	< 2.2 J	**1.2**	< 5.4	< 11	< 6.4	< 5.6
Aroclor 1254	< 5.6 J	< 5.7 J	< 11 J	< 11 J	< 2.2 J	< 2.2 J	< 0.11	< 5.4	< 11	< 6.4	< 5.6
Aroclor 1260	< 5.6 J	< 5.7 J	< 11 J	< 11 J	< 2.2 J	< 2.2 J	< 0.11	< 5.4	< 11	< 6.4	< 5.6
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**62**	**91**	**130**	**96**	**35**	**37**	**1.2**	**25**	**110**	**64**	**69**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	J-12-14	J-12-14	J-12-14	J-12-14	J-12-14	J-13-14	J-13-14	J-13-14	J-13-14	J-13-14	J-13-14
Sample Depth (ft):	13	15	17	19	21	11	13	15	17	19	21
Date Sampled:	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014
Sample ID:	J-12-14_13	J-12-14_15	J-12-14_17	J-12-14_19	J-12-14_21	J-13-14_11	J-13-14_13	J-13-14_15	J-13-14_17	J-13-14_19	J-13-14_21
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 5.6	< 11	< 5.2	< 11	< 5.8	< 2.2	< 5.5	< 5.5	< 0.11	< 11	< 0.56
Aroclor 1221	< 5.6	< 11	< 5.2	< 11	< 5.8	< 2.2	< 5.5	< 5.5	< 0.11	< 11	< 0.56
Aroclor 1232	< 5.6	< 11	< 5.2	< 11	< 5.8	< 2.2	< 5.5	< 5.5	< 0.11	< 11	< 0.56
Aroclor 1242	**75**	**43**	**36**	**48**	**38**	**17**	**42**	**44**	**0.84**	**63**	**2.6**
Aroclor 1248	< 5.6	< 11	< 5.2	< 11	< 5.8	< 2.2	< 5.5	< 5.5	< 0.11	< 11	< 0.56
Aroclor 1254	< 5.6	< 11	< 5.2	< 11	< 5.8	< 2.2	< 5.5	< 5.5	< 0.11	< 11	< 0.56
Aroclor 1260	< 5.6	< 11	< 5.2	< 11	< 5.8	< 2.2	< 5.5	< 5.5	< 0.11	< 11	< 0.56
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**75**	**43**	**36**	**48**	**38**	**17**	**42**	**44**	**0.84**	**63**	**2.6**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	J-18-14	J-18-14	J-18-14	J-18-14	J-19-14	J-19-14	J-19-14	J-19-14	J-20-14	J-20-14	J-20-14
Sample Depth (ft):	5	7	9	17	3	5	7	9	3	5	7
Date Sampled:	11/13/2014	11/13/2014	11/13/2014	11/13/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	11/14/2014	11/14/2014	11/14/2014
Sample ID:	J-18-14_5	J-18-14_7	J-18-14_9	J-18-14_3	J-19-14_3	J-19-14_5	J-19-14_7	J-19-14_9	J-20-14_3	J-20-14_5	J-20-14_7
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 5.6 J	< 1.1 J	< 0.52 J	< 0.019 J	< 0.11	< 2.2	< 11	< 0.11	< 0.11 J	< 0.19 J	< 2.3 J
Aroclor 1221	< 5.6 J	< 1.1 J	< 0.52 J	< 0.019 J	< 0.11	< 2.2	< 11	< 0.11	< 0.11 J	< 0.19 J	< 2.3 J
Aroclor 1232	< 5.6 J	< 1.1 J	< 0.52 J	< 0.019 J	< 0.11	< 2.2	< 11	< 0.11	< 0.11 J	< 0.19 J	< 2.3 J
Aroclor 1242	**83 J**	**9.5 J**	**9.5 J**	< 0.019 J	< 0.11	**35**	**61**	**1.4**	< 0.11 J	**1.4 J**	**33 J**
Aroclor 1248	< 5.6 J	< 1.1 J	< 0.52 J	**0.11 J**	**0.83**	< 2.2	< 11	< 0.11	**0.071 J**	< 0.19 J	< 2.3 J
Aroclor 1254	< 5.6 J	< 1.1 J	**3.5 J**	**0.059 J**	**0.28**	< 2.2	< 11	**0.33**	**0.056 J**	**0.3 J**	< 2.3 J
Aroclor 1260	< 5.6 J	< 1.1 J	< 0.52 J	**0.046 J**	< 0.11	< 2.2	< 11	< 0.11	< 0.11 J	**0.42 J**	< 2.3 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**83**	**9.5**	**13**	**0.22**	**1.1**	**35**	**61**	**1.7**	**0.13**	**2.1**	**33**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	J-20-14	J-4-14	J-4-14	J-4-14	J-4-14	J-5-14	J-5-14	J-5-14	J-5-14	J-8-14	J-8-14
Sample Depth (ft):	9	3	5	7	9	3	5	7	9	3	5
Date Sampled:	11/14/2014	11/7/2014	11/7/2014	11/7/2014	11/7/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014
Sample ID:	J-20-14_9	J-4-14_3	J-4-14_5	J-4-14_7	J-4-14_9	J-5-14_3	J-5-14_5	J-5-14_7	J-5-14_9	J-8-14_3	J-8-14_5
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 11 J	< 0.53 J	< 0.11 J	< 0.11 J	< 0.11 J	< 1.2	< 1.2	< 6.9	< 9	< 2.1	< 11
Aroclor 1221	< 11 J	< 0.53 J	< 0.11 J	< 0.11 J	< 0.11 J	< 1.2	< 1.2	< 6.9	< 9	< 2.1	< 11
Aroclor 1232	< 11 J	< 0.53 J	< 0.11 J	< 0.11 J	< 0.11 J	< 1.2	< 1.2	< 6.9	< 9	< 2.1	< 11
Aroclor 1242	**160 J**	< 0.53 J	< 0.11 J	< 0.11 J	< 0.11 J	< 1.2	< 1.2	< 6.9	< 9	**14**	**110**
Aroclor 1248	< 11 J	**3.3 J**	< 0.11 J	< 0.11 J	< 0.11 J	**4.5**	**5.2**	< 6.9	< 9	< 2.1	< 11
Aroclor 1254	< 11 J	**0.98 J**	**0.11 J**	< 0.11 J	< 0.11 J	**1.7**	**1.8**	**22**	**25**	< 2.1	< 11
Aroclor 1260	< 11 J	< 0.53 J	**0.074 J**	< 0.11 J	< 0.11 J	< 1.2	< 1.2	< 6.9	< 9	< 2.1	< 11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**160**	**4.3**	**0.18**	0.00	0.00	**6.2**	**7.0**	**22**	**25**	**14**	**110**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	J-8-14	J-8-14	J-9-14	J-9-14	J-9-14	J-9-14	K-10-14	K-10-14	K-10-14	K-10-14	K-11-14
Sample Depth (ft):	7	9	3	5	7	9	3	5	7	9	3
Date Sampled:	12/5/2014	12/5/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/7/2014	11/7/2014	11/7/2014	11/7/2014	12/4/2014
Sample ID:	J-8-14_7	J-8-14_9	J-9-14_3	J-9-14_5	J-9-14_7	J-9-14_9	K-10-14_3	K-10-14_5	K-10-14_7	K-10-14_9	K-11-14_3
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 5.3	< 5.4	< 0.1 J	< 5.2 J	< 110 J	< 5.6 J	< 0.55 J	< 22 J	< 5.3 J	< 2.2 J	< 0.92
Aroclor 1221	< 5.3	< 5.4	< 0.1 J	< 5.2 J	< 110 J	< 5.6 J	< 0.55 J	< 22 J	< 5.3 J	< 2.2 J	< 0.92
Aroclor 1232	< 5.3	< 5.4	< 0.1 J	< 5.2 J	< 110 J	< 5.6 J	< 0.55 J	< 22 J	< 5.3 J	< 2.2 J	< 0.92
Aroclor 1242	**30**	**30**	< 0.1 J	**49 J**	**320 J**	**71 J**	**13 J**	**250 J**	**85 J**	**32 J**	**8.3**
Aroclor 1248	< 5.3	< 5.4	**1.4 J**	< 5.2 J	< 110 J	< 5.6 J	< 0.55 J	< 22 J	< 5.3 J	< 2.2 J	< 0.92
Aroclor 1254	< 5.3	< 5.4	**0.41 J**	< 5.2 J	< 110 J	< 5.6 J	**1.2 J**	< 22 J	**5.9 J**	**2.2 J**	< 0.92
Aroclor 1260	< 5.3	< 5.4	< 0.1 J	< 5.2 J	< 110 J	< 5.6 J	< 0.55 J	< 22 J	< 5.3 J	< 2.2 J	< 0.92
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**30**	**30**	**1.8**	**49**	**320**	**71**	**14**	**250**	**91**	**34**	**8.3**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	K-11-14	K-11-14	K-11-14	K-12-14	K-12-14	K-12-14	K-12-14	K-14-14	K-14-14	K-14-14	K-14-14
Sample Depth (ft):	5	7	9	3	5	7	9	3	5	7	9
Date Sampled:	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014
Sample ID:	K-11-14_5	K-11-14_7	K-11-14_9	K-12-14_3	K-12-14_5	K-12-14_7	K-12-14_9	K-14-14_3	K-14-14_5	K-14-14_7	K-14-14_9
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 3.7	< 9.4	< 19	< 0.092	< 1.8	< 19	< 3.7	< 0.19 J	< 3.8 J	< 1.9 J	< 1.9 J
Aroclor 1221	< 3.7	< 9.4	< 19	< 0.092	< 1.8	< 19	< 3.7	< 0.19 J	< 3.8 J	< 1.9 J	< 1.9 J
Aroclor 1232	< 3.7	< 9.4	< 19	< 0.092	< 1.8	< 19	< 3.7	< 0.19 J	< 3.8 J	< 1.9 J	< 1.9 J
Aroclor 1242	**68**	**70**	**110**	**0.62**	**24**	**82**	**56**	< 0.19 J	**42 J**	**15 J**	**20 J**
Aroclor 1248	< 3.7	< 9.4	< 19	< 0.092	< 1.8	< 19	< 3.7	**0.79 J**	< 3.8 J	< 1.9 J	< 1.9 J
Aroclor 1254	< 3.7	< 9.4	< 19	< 0.092	< 1.8	< 19	< 3.7	**0.15 J**	< 3.8 J	< 1.9 J	< 1.9 J
Aroclor 1260	< 3.7	< 9.4	< 19	< 0.092	< 1.8	< 19	< 3.7	< 0.19 J	< 3.8 J	< 1.9 J	< 1.9 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**68**	**70**	**110**	**0.62**	**24**	**82**	**56**	**0.94**	**42**	**15**	**20**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	K-16-14	K-16-14	K-16-14	K-16-14	K-18-14	K-18-14	K-18-14	K-18-14	K-19-14	K-19-14	K-19-14
Sample Depth (ft):	3	5	7	9	3	5	7	9	3	5	7
Date Sampled:	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	11/14/2014	11/14/2014	11/14/2014
Sample ID:	K-16-14_3	K-16-14_5	K-16-14_7	K-16-14_9	K-18-14_3	K-18-14_5	K-18-14_7	K-18-14_9	K-19-14_3	K-19-14_5	K-19-14_7
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.018	< 97	< 1.9	< 0.91	< 1.8	< 0.019	< 1.8	< 0.93	< 0.019 J	< 19 J	< 9.6 J
Aroclor 1221	< 0.018	< 97	< 1.9	< 0.91	< 1.8	< 0.019	< 1.8	< 0.93	< 0.019 J	< 19 J	< 9.6 J
Aroclor 1232	< 0.018	< 97	< 1.9	< 0.91	< 1.8	< 0.019	< 1.8	< 0.93	< 0.019 J	< 19 J	< 9.6 J
Aroclor 1242	< 0.018	**440**	**27**	**14**	**6.2**	**0.07**	**20**	**6.4**	< 0.019 J	**250 J**	**140 J**
Aroclor 1248	**0.13**	< 97	< 1.9	< 0.91	< 1.8	< 0.019	< 1.8	< 0.93	< 0.019 J	< 19 J	< 9.6 J
Aroclor 1254	**0.17**	< 97	< 1.9	< 0.91	< 1.8	**0.045**	< 1.8	**2.1**	**0.058 J**	< 19 J	< 9.6 J
Aroclor 1260	**0.046**	< 97	< 1.9	< 0.91	< 1.8	**0.059**	< 1.8	< 0.93	**0.036 J**	< 19 J	< 9.6 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.35**	**440**	**27**	**14**	**6.2**	**0.17**	**20**	**8.5**	**0.094**	**250**	**140**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	K-19-14	K-20-14	K-20-14	K-20-14	K-20-14	K-21-14	K-21-14	K-21-14	K-21-14	K-3-14	K-3-14
Sample Depth (ft):	9	3	5	7	9	3	5	7	9	3	5
Date Sampled:	11/14/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/7/2014	11/7/2014
Sample ID:	K-19-14_9	K-20-14_3	K-20-14_5	K-20-14_7	K-20-14_9	K-21-14_3	K-21-14_5	K-21-14_7	K-21-14_9	K-3-14_3	K-3-14_5
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.95 J	< 0.019	< 0.36	< 0.92	< 3.7	< 0.019 J	< 0.019 J	< 0.11 J	< 0.1 J	< 0.53 J	< 0.54 J
Aroclor 1221	< 0.95 J	< 0.019	< 0.36	< 0.92	< 3.7	< 0.019 J	< 0.019 J	< 0.11 J	< 0.1 J	< 0.53 J	< 0.54 J
Aroclor 1232	< 0.95 J	< 0.019	< 0.36	< 0.92	< 3.7	< 0.019 J	< 0.019 J	< 0.11 J	< 0.1 J	< 0.53 J	< 0.54 J
Aroclor 1242	**11 J**	**0.19**	**4**	**11**	**58**	< 0.019 J	< 0.019 J	< 0.11 J	< 0.1 J	< 0.53 J	**7 J**
Aroclor 1248	< 0.95 J	< 0.019	< 0.36	< 0.92	< 3.7	**0.19 J**	**0.22 J**	**0.19 J**	**0.043 J**	**3 J**	< 0.54 J
Aroclor 1254	**18 J**	**0.074**	**0.45**	< 0.92	< 3.7	**0.084 J**	**0.087 J**	< 0.11 J	< 0.1 J	**0.8 J**	**1.5 J**
Aroclor 1260	< 0.95 J	**0.017 J**	< 0.36	< 0.92	< 3.7	**0.069 J**	**0.27 J**	**0.48 J**	**0.043 J**	< 0.53 J	< 0.54 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**29**	**0.28**	**4.5**	**11**	**58**	**0.34**	**0.58**	**0.67**	**0.086**	**3.8**	**8.5**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	K-3-14	K-3-14	K-4-14	K-4-14	K-4-14	K-4-14	K-5-14	K-5-14	K-5-14	K-5-14	K-8-14
Sample Depth (ft):	7	9	3	5	7	9	3	5	7	9	3
Date Sampled:	11/7/2014	11/7/2014	11/7/2014	11/7/2014	11/7/2014	11/7/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	11/14/2014
Sample ID:	K-3-14_7	K-3-14_9	K-4-14_3	K-4-14_5	K-4-14_7	K-4-14_9	K-5-14_3	K-5-14_5	K-5-14_7	K-5-14_9	K-8-14_3
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J	< 5.8 J	< 0.55 J	< 5.4	< 2.8	< 0.1	< 0.1	< 0.37 J
Aroclor 1221	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J	< 5.8 J	< 0.55 J	< 5.4	< 2.8	< 0.1	< 0.1	< 0.37 J
Aroclor 1232	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J	< 5.8 J	< 0.55 J	< 5.4	< 2.8	< 0.1	< 0.1	< 0.37 J
Aroclor 1242	**2.5 J**	< 0.11 J	< 0.11 J	< 0.11 J	< 5.8 J	**9.5 J**	< 5.4	< 2.8	< 0.1	< 0.1	< 0.37 J
Aroclor 1248	< 0.11 J	**1.2 J**	**0.85 J**	**2.4 J**	**65 J**	< 0.55 J	**23**	**14**	**0.35**	**0.23**	**6.4 J**
Aroclor 1254	**0.86 J**	**0.64 J**	**0.32 J**	**0.61 J**	**11 J**	**3 J**	**3.8 J**	**4**	**0.12**	**0.053 J**	< 0.37 J
Aroclor 1260	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J	< 5.8 J	< 0.55 J	< 5.4	< 2.8	< 0.1	< 0.1	< 0.37 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**3.4**	**1.8**	**1.2**	**3.0**	**76**	**13**	**27**	**18**	**0.47**	**0.28**	**6.4**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	K-8-14	K-8-14	K-8-14	K-9-14	K-9-14	K-9-14	K-9-14	K-9-14	L-11-14	L-11-14
Sample Depth (ft):	5	7	9	3	5	7	7	9	3	5
Date Sampled:	11/14/2014	11/14/2014	11/14/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/4/2014	12/4/2014
Sample ID:	K-8-14_5	K-8-14_7	K-8-14_9	K-9-14_3	K-9-14_5	REP 120514 DM1	K-9-14_7	K-9-14_9	L-11-14_3	L-11-14_5
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.93 J	< 0.39 J	< 9.4 J	< 0.11	< 9.9	< 0.11	< 0.1	-- R	< 3.7	< 37 J
Aroclor 1221	< 0.93 J	< 0.39 J	< 9.4 J	< 0.11	< 9.9	< 0.11	< 0.1	-- R	< 3.7	< 37 J
Aroclor 1232	< 0.93 J	< 0.39 J	< 9.4 J	< 0.11	< 9.9	< 0.11	< 0.1	-- R	< 3.7	< 37 J
Aroclor 1242	**7.4 J**	**5.4 J**	**81 J**	< 0.11	**67**	**1.9**	**2.1**	**61 J**	**27**	**100 J**
Aroclor 1248	< 0.93 J	< 0.39 J	< 9.4 J	**1.6**	< 9.9	< 0.11	< 0.1	-- R	< 3.7	< 37 J
Aroclor 1254	< 0.93 J	< 0.39 J	< 9.4 J	**0.51**	< 9.9	**0.38**	**0.34**	-- R	< 3.7	< 37 J
Aroclor 1260	< 0.93 J	< 0.39 J	< 9.4 J	< 0.11	< 9.9	< 0.11	**0.23**	-- R	< 3.7	< 37 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**7.4**	**5.4**	**81**	**2.1**	**67**	**2.3**	**2.7**	**61**	**27**	**100**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	L-11-14	L-11-14	L-12-14	L-12-14	L-12-14	L-12-14	L-13-14	L-13-14	L-13-14	L-13-14	L-18-14
Sample Depth (ft):	7	9	3	5	7	9	3	5	7	9	3
Date Sampled:	12/4/2014	12/4/2014	11/6/2014	11/6/2014	11/6/2014	11/6/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	11/14/2014
Sample ID:	L-11-14_7	L-11-14_9	L-12-14_3	L-12-14_5	L-12-14_7	L-12-14_9	L-13-14_3	L-13-14_5	L-13-14_7	L-13-14_9	L-18-14_3
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 37 J	< 19	< 0.11 J	< 11 J	< 2.2 J	< 10 J	< 0.95	< 0.93	< 1.9	< 38 J	< 0.11 J
Aroclor 1221	< 37 J	< 19	< 0.11 J	< 11 J	< 2.2 J	< 10 J	< 0.95	< 0.93	< 1.9	< 38 J	< 0.11 J
Aroclor 1232	< 37 J	< 19	< 0.11 J	< 11 J	< 2.2 J	< 10 J	< 0.95	< 0.93	< 1.9	< 38 J	< 0.11 J
Aroclor 1242	**110 J**	**76**	< 0.11 J	**96 J**	**23 J**	**86 J**	< 0.95	< 0.93	**36**	**92 J**	< 0.11 J
Aroclor 1248	< 37 J	< 19	**0.34 J**	< 11 J	< 2.2 J	< 10 J	**4.4**	**9.5**	< 1.9	< 38 J	**0.19 J**
Aroclor 1254	< 37 J	< 19	**0.1 J**	< 11 J	**2.9 J**	**4.7 J**	< 0.95	**1.7**	< 1.9	< 38 J	< 0.11 J
Aroclor 1260	< 37 J	< 19	< 0.11 J	< 11 J	< 2.2 J	< 10 J	< 0.95	< 0.93	< 1.9	< 38 J	< 0.11 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**110**	**76**	**0.44**	**96**	**26**	**91**	**4.4**	**11**	**36**	**92**	**0.19**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	L-18-14	L-18-14	L-18-14	L-19-14	L-19-14	L-19-14	L-19-14	L-19-14	L-19-14	L-20-14	L-20-14
Sample Depth (ft):	5	7	9	3	5	7	9	11	13	3	5
Date Sampled:	11/14/2014	11/14/2014	11/14/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	11/14/2014	11/14/2014
Sample ID:	L-18-14_5	L-18-14_7	L-18-14_9	L-19-14_3	L-19-14_5	L-19-14_7	L-19-14_9	L-19-14_11	L-19-14_13	L-20-14_3	L-20-14_5
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 22 J	< 23 J	< 2.2 J	< 0.018	< 1.8 J	< 38 J	< 3.7	< 0.18	< 0.091	< 0.56 J	< 11 J
Aroclor 1221	< 22 J	< 23 J	< 2.2 J	< 0.018	< 1.8 J	< 38 J	< 3.7	< 0.18	< 0.091	< 0.56 J	< 11 J
Aroclor 1232	< 22 J	< 23 J	< 2.2 J	< 0.018	< 1.8 J	< 38 J	< 3.7	< 0.18	< 0.091	< 0.56 J	< 11 J
Aroclor 1242	**340 J**	**280 J**	**25 J**	< 0.018	**39 J**	**210 J**	**75**	**0.29**	**1.7**	< 0.56 J	**190 J**
Aroclor 1248	< 22 J	< 23 J	< 2.2 J	**0.11**	< 1.8 J	< 38 J	< 3.7	< 0.18	< 0.091	**2.7 J**	< 11 J
Aroclor 1254	< 22 J	< 23 J	**3.7 J**	**0.059**	< 1.8 J	< 38 J	< 3.7	**0.11 J**	**0.3**	< 0.56 J	< 11 J
Aroclor 1260	< 22 J	< 23 J	< 2.2 J	**0.034**	< 1.8 J	< 38 J	< 3.7	**0.18**	< 0.091	< 0.56 J	< 11 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**340**	**280**	**29**	**0.20**	**39**	**210**	**75**	**0.58**	**2.0**	**2.7**	**190**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	L-20-14	L-20-14	L-20-14	L-20-14	L-21-14	L-21-14	L-21-14	L-21-14	L-21-14	M-10-14
Sample Depth (ft):	7	9	11	13	3	5	7	7	9	3
Date Sampled:	11/14/2014	11/14/2014	11/14/2014	11/14/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/5/2014
Sample ID:	L-20-14_7	L-20-14_9	L-20-14_11	L-20-14_13	L-21-14_3	L-21-14_5	REP 120414 DM3	L-21-14_7	L-21-14_9	M-10-14_3
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 57 J	< 5.6 J	< 11 J	< 0.11 J	< 0.18	< 0.37	< 0.95	< 0.38	-- R	< 11
Aroclor 1221	< 57 J	< 5.6 J	< 11 J	< 0.11 J	< 0.18	< 0.37	< 0.95	< 0.38	-- R	< 11
Aroclor 1232	< 57 J	< 5.6 J	< 11 J	< 0.11 J	< 0.18	< 0.37	< 0.95	< 0.38	-- R	< 11
Aroclor 1242	**520 J**	**78 J**	**200 J**	< 0.11 J	< 0.18	< 0.37	**10**	< 0.38	**280 J**	**99**
Aroclor 1248	< 57 J	< 5.6 J	< 11 J	**1.2 J**	**2.5**	**3.8**	< 0.95	**5**	-- R	< 11
Aroclor 1254	< 57 J	< 5.6 J	< 11 J	**0.2 J**	**0.55**	**0.73**	< 0.95	**1.3**	-- R	< 11
Aroclor 1260	< 57 J	< 5.6 J	< 11 J	< 0.11 J	**0.33**	**0.36 J**	< 0.95	< 0.38	-- R	< 11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**520**	**78**	**200**	**1.4**	**3.4**	**4.9**	**10**	**6.3**	**280**	**99**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	M-10-14	M-10-14	M-10-14	M-11-14	M-11-14	M-11-14	M-11-14	M-12-14	M-12-14	M-12-14
Sample Depth (ft):	5	7	9	3	5	7	9	3	5	7
Date Sampled:	12/5/2014	12/5/2014	12/5/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014
Sample ID:	M-10-14_5	M-10-14_7	M-10-14_9	M-11-14_3	M-11-14_5	M-11-14_7	M-11-14_9	M-12-14_3	M-12-14_5	REP 120414 DM2
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 1.1	< 0.1	< 0.097	< 0.18	< 3600	< 0.36	< 0.35	< 0.18	< 9.1	< 0.18
Aroclor 1221	< 1.1	< 0.1	< 0.097	< 0.18	< 3600	< 0.36	< 0.35	< 0.18	< 9.1	< 0.18
Aroclor 1232	< 1.1	< 0.1	< 0.097	< 0.18	< 3600	< 0.36	< 0.35	< 0.18	< 9.1	< 0.18
Aroclor 1242	< 1.1	< 0.1	< 0.097	**1.7**	**20000**	**0.58**	**0.79**	< 0.18	**160**	**2.3**
Aroclor 1248	**3.4**	< 0.1	< 0.097	< 0.18	< 3600	< 0.36	< 0.35	**0.41**	< 9.1	< 0.18
Aroclor 1254	**2.5**	< 0.1	< 0.097	< 0.18	< 3600	< 0.36	< 0.35	< 0.18	< 9.1	**0.14 J**
Aroclor 1260	< 1.1	**0.43**	< 0.097	< 0.18	< 3600	< 0.36	< 0.35	< 0.18	< 9.1	**0.2**
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**5.9**	**0.43**	0.00	**1.7**	**20000**	**0.58**	**0.79**	**0.41**	**160**	**2.6**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	M-12-14	M-12-14	M-13-14	M-16-14	M-18-14	M-18-14	M-18-14	M-18-14	M-19-14	M-19-14	M-19-14
Sample Depth (ft):	7	9	7	9	3	5	7	9	3	5	9
Date Sampled:	12/4/2014	12/4/2014	12/4/2014	12/4/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	12/4/2014	12/4/2014	12/4/2014
Sample ID:	M-12-14_7	M-12-14_9	M-13-14_7	M-16-14_9	M-18-14_3	M-18-14_5	M-18-14_7	M-18-14_9	M-19-14_3	M-19-14_5	M-19-14_9
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 1.8	< 0.018	< 5.5	< 0.1	< 0.11 J	< 22 J	< 11 J	< 0.11 J	< 11	< 11	< 2.2
Aroclor 1221	< 1.8	< 0.018	< 5.5	< 0.1	< 0.11 J	< 22 J	< 11 J	< 0.11 J	< 11	< 11	< 2.2
Aroclor 1232	< 1.8	< 0.018	< 5.5	< 0.1	< 0.11 J	< 22 J	< 11 J	< 0.11 J	< 11	< 11	< 2.2
Aroclor 1242	**15**	**0.06**	**14**	< 0.1	< 0.11 J	**290 J**	**110 J**	**0.18 J**	**78**	**100**	**28**
Aroclor 1248	< 1.8	< 0.018	< 5.5	< 0.1	**0.36 J**	< 22 J	< 11 J	< 0.11 J	< 11	< 11	< 2.2
Aroclor 1254	**12**	**0.013 J**	**13**	< 0.1	**0.1 J**	< 22 J	< 11 J	< 0.11 J	< 11	< 11	< 2.2
Aroclor 1260	**7.4**	**0.047**	< 5.5	< 0.1	< 0.11 J	< 22 J	< 11 J	< 0.11 J	< 11	< 11	< 2.2
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**34**	**0.12**	**27**	0.00	**0.46**	**290**	**110**	**0.18**	**78**	**100**	**28**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	M-20-14	M-21-14	M-21-14	M-21-14	M-21-14	M-8-14	M-8-14	M-8-14	M-8-14	N-12-14	N-12-14
Sample Depth (ft):	5	3	5	7	9	3	5	7	9	3	5
Date Sampled:	12/4/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	11/6/2014	11/6/2014
Sample ID:	M-20-14_5	M-21-14_3	M-21-14_5	M-21-14_7	M-21-14_9	M-8-14_3	M-8-14_5	M-8-14_7	M-8-14_9	N-12-14_3	N-12-14_5
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 11	< 1.1 J	< 2.2 J	< 5.7 J	< 0.11 J	< 0.38	< 18	< 0.37	< 0.36	< 0.11 J	< 0.11 J
Aroclor 1221	< 11	< 1.1 J	< 2.2 J	< 5.7 J	< 0.11 J	< 0.38	< 18	< 0.37	< 0.36	< 0.11 J	< 0.11 J
Aroclor 1232	< 11	< 1.1 J	< 2.2 J	< 5.7 J	< 0.11 J	< 0.38	< 18	< 0.37	< 0.36	< 0.11 J	< 0.11 J
Aroclor 1242	**110**	**26 J**	**36 J**	< 5.7 J	< 0.11 J	< 0.38	**97**	< 0.37	< 0.36	**0.2 J**	**1.4 J**
Aroclor 1248	< 11	< 1.1 J	< 2.2 J	**24 J**	< 0.11 J	**3.6**	< 18	< 0.37	< 0.36	< 0.11 J	< 0.11 J
Aroclor 1254	< 11	< 1.1 J	< 2.2 J	< 5.7 J	< 0.11 J	**0.79**	< 18	**2.3**	**3.3**	**0.062 J**	**0.46 J**
Aroclor 1260	< 11	< 1.1 J	< 2.2 J	< 5.7 J	< 0.11 J	< 0.38	< 18	< 0.37	< 0.36	< 0.11 J	< 0.11 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**110**	**26**	**36**	**24**	0.00	**4.4**	**97**	**2.3**	**3.3**	**0.26**	**1.9**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	N-12-14	N-12-14	N-19-14	N-19-14	N-20-14	nA-24-14	nA-25-14	nAA-24-14	nAA-25-14	nAB-25-14	nAB-26-14
Sample Depth (ft):	7	9	3	5	3	1	1	1	1	1	1
Date Sampled:	11/6/2014	11/6/2014	11/14/2014	11/14/2014	12/3/2014	1/12/2015	11/4/2014	1/12/2015	12/15/2014	11/4/2014	1/12/2015
Sample ID:	N-12-14_7	N-12-14_9	N-19-14_3	N-19-14_5	N-20-14_3	nA-24-14_1	nA-25-14_1	nAA-24-14_1	nAA-25-14_1	nAB-25-14_1	nAB-26-14_1
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.11 J	< 0.11 J	< 0.11 J	< 11 J	< 0.11	< 0.11	< 0.094 J	< 0.54	< 0.11	< 5.2 J	< 0.11
Aroclor 1221	< 0.11 J	< 0.11 J	< 0.11 J	< 11 J	< 0.11	< 0.11	< 0.094 J	< 0.54	< 0.11	< 5.2 J	< 0.11
Aroclor 1232	< 0.11 J	< 0.11 J	< 0.11 J	< 11 J	< 0.11	< 0.11	< 0.094 J	< 0.54	< 0.11	< 5.2 J	< 0.11
Aroclor 1242	< 0.11 J	< 0.11 J	< 0.11 J	**130 J**	**0.099 J**	< 0.11	< 0.094 J	< 0.54	< 0.11	**28 J**	< 0.11
Aroclor 1248	< 0.11 J	< 0.11 J	**0.77 J**	< 11 J	< 0.11	**0.35**	**0.9 J**	**2.2**	**1.7**	< 5.2 J	< 0.11
Aroclor 1254	**0.084 J**	< 0.11 J	**0.27 J**	< 11 J	**0.2**	**0.18**	< 0.094 J	**0.33 J**	< 0.11	< 5.2 J	< 0.11
Aroclor 1260	< 0.11 J	< 0.11 J	< 0.11 J	< 11 J	< 0.11	< 0.11	< 0.094 J	< 0.54	< 0.11	< 5.2 J	< 0.11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.084**	0.00	**1.0**	**130**	**0.30**	**0.53**	**0.90**	**2.5**	**1.7**	**28**	0.00

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nAE-25-14	nAE-26-14	nAF-21-14	nAF-24-14	nAF-25-14	nAG-18-14	nAG-19-14	nAG-24-14	nAG-25-14	nAH-19-14	nAH-20-14
Sample Depth (ft):	1	1	1	1	1	1	1	1	1	1	1
Date Sampled:	1/12/2015	1/12/2015	11/17/2014	12/15/2014	12/15/2014	11/17/2014	11/17/2014	1/12/2015	1/12/2015	11/17/2014	11/17/2014
Sample ID:	nAE-25-14_1	nAE-26-14_1	nAF-21-14_1	nAF-24-14_1	nAF-25-14_1	nAG-18-14_1	nAG-19-14_1	nAG-24-14_1	nAG-25-14_1	nAH-19-14_1	nAH-20-14_1
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.11	< 0.11	< 0.096	< 0.55	< 0.12	< 0.1 J	< 5.2 J	< 0.51	< 0.11	< 1 J	< 0.51 J
Aroclor 1221	< 0.11	< 0.11	< 0.096	< 0.55	< 0.12	< 0.1 J	< 5.2 J	< 0.51	< 0.11	< 1 J	< 0.51 J
Aroclor 1232	< 0.11	< 0.11	< 0.096	< 0.55	< 0.12	< 0.1 J	< 5.2 J	< 0.51	< 0.11	< 1 J	< 0.51 J
Aroclor 1242	< 0.11	< 0.11	< 0.096	< 0.55	**1.7**	< 0.1 J	**22 J**	< 0.51	< 0.11	< 1 J	< 0.51 J
Aroclor 1248	**0.34**	**0.071 J**	< 0.096	**1.8**	< 0.12	< 0.1 J	< 5.2 J	**2.8**	**0.24**	**3.4 J**	**2.3 J**
Aroclor 1254	**0.33**	**0.045 J**	< 0.096	< 0.55	< 0.12	< 0.1 J	< 5.2 J	**0.69**	< 0.11	< 1 J	< 0.51 J
Aroclor 1260	< 0.11	< 0.11	< 0.096	< 0.55	< 0.12	< 0.1 J	< 5.2 J	< 0.51	< 0.11	< 1 J	< 0.51 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.67**	**0.12**	0.00	**1.8**	**1.7**	0.00	**22**	**3.5**	**0.24**	**3.4**	**2.3**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nAH-22-14	nAH-22-14	nAH-22-14	nAH-22-14	nAH-22-14	nAH-23-14	nAH-23-14	nAH-23-14	nAH-23-14	nAH-23-14	nAI-21-14
Sample Depth (ft):	1	3	5	7	9	1	3	5	7	9	1
Date Sampled:	11/17/2014	11/17/2014	11/17/2014	11/17/2014	11/17/2014	11/17/2014	11/17/2014	11/17/2014	11/17/2014	11/17/2014	11/17/2014
Sample ID:	nAH-22-14_1	nAH-22-14_3	nAH-22-14_5	nAH-22-14_7	nAH-22-14_9	nAH-23-14_1	nAH-23-14_3	nAH-23-14_5	nAH-23-14_7	nAH-23-14_9	nAI-21-14_1
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.1 J	< 0.51	< 0.098	< 0.96	< 0.098	< 0.1 J	< 9.6	< 0.51	< 0.1	< 0.1	< 0.1 J
Aroclor 1221	< 0.1 J	< 0.51	< 0.098	< 0.96	< 0.098	< 0.1 J	< 9.6	< 0.51	< 0.1	< 0.1	< 0.1 J
Aroclor 1232	< 0.1 J	< 0.51	< 0.098	< 0.96	< 0.098	< 0.1 J	< 9.6	< 0.51	< 0.1	< 0.1	< 0.1 J
Aroclor 1242	< 0.1 J	< 0.51	< 0.098	< 0.96	< 0.098	< 0.1 J	< 9.6	< 0.51	< 0.1	< 0.1	< 0.1 J
Aroclor 1248	**0.98 J**	**4**	< 0.098	< 0.96	< 0.098	**0.56 J**	**42**	**1.2**	< 0.1	< 0.1	**0.88 J**
Aroclor 1254	**0.2 J**	< 0.51	**0.44**	**5.1**	< 0.098	**0.27 J**	**7.4 J**	< 0.51	< 0.1	< 0.1	**0.33 J**
Aroclor 1260	< 0.1 J	< 0.51	< 0.098	< 0.96	**0.077 J**	< 0.1 J	< 9.6	< 0.51	**0.11**	< 0.1	< 0.1 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**1.2**	**4.0**	**0.44**	**5.1**	**0.077**	**0.83**	**49**	**1.2**	**0.11**	0.00	**1.2**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nAI-23-14	nAI-23-14	nAI-23-14	nAI-23-14	nAI-23-14	nAI-24-14	nAJ-17-14	nAJ-19-14	nAJ-24-14	nAK-25-14	nAL-24-14
Sample Depth (ft):	1	3	5	7	9	1	1	1	1	1	1
Date Sampled:	11/17/2014	11/17/2014	11/17/2014	11/17/2014	11/17/2014	1/12/2015	11/17/2014	11/17/2014	12/15/2014	1/12/2015	12/15/2014
Sample ID:	nAI-23-14_1	nAI-23-14_3	nAI-23-14_5	nAI-23-14_7	nAI-23-14_9	nAI-24-14_1	nAJ-17-14_1	nAJ-19-14_1	nAJ-24-14_1	nAK-25-14_1	nAL-24-14_1
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 2.1 J	< 0.1	< 0.1	< 0.096	< 0.1	< 0.53	< 1 J	< 1 J	< 0.57	< 2	< 0.54
Aroclor 1221	< 2.1 J	< 0.1	< 0.1	< 0.096	< 0.1	< 0.53	< 1 J	< 1 J	< 0.57	< 2	< 0.54
Aroclor 1232	< 2.1 J	< 0.1	< 0.1	< 0.096	< 0.1	< 0.53	< 1 J	< 1 J	< 0.57	< 2	< 0.54
Aroclor 1242	< 2.1 J	< 0.1	< 0.1	< 0.096	< 0.1	< 0.53	< 1 J	< 1 J	< 0.57	< 2	< 0.54
Aroclor 1248	**14 J**	< 0.1	**0.099 J**	< 0.096	< 0.1	**5.6**	**7.9 J**	**8 J**	**1.9**	**27**	**2.8**
Aroclor 1254	< 2.1 J	< 0.1	< 0.1	< 0.096	< 0.1	**1.1**	< 1 J	< 1 J	< 0.57	< 2	< 0.54
Aroclor 1260	< 2.1 J	< 0.1	< 0.1	< 0.096	< 0.1	< 0.53	< 1 J	< 1 J	< 0.57	< 2	< 0.54
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**14**	0.00	**0.099**	0.00	0.00	**6.7**	**7.9**	**8.0**	**1.9**	**27**	**2.8**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nAM-23-14	nAO-23-14	nAO-24-14	nAP-24-14	nAQ-25-14	nAQ-26-14	nAR-24-14	nAR-24-14	nAR-24-14	nAR-24-14	nAS-21-14
Sample Depth (ft):	1	1	1	1	1	1	1	5	7	9	1
Date Sampled:	1/12/2015	12/15/2014	1/12/2015	12/15/2014	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	12/15/2014
Sample ID:	nAM-23-14_1	nAO-23-14_1	nAO-24-14_1	nAP-24-14_1	nAQ-25-14_1	nAQ-26-14_1	nAR-24-14_1	nAR-24-14_5	nAR-24-14_7	nAR-24-14_9	nAS-21-14_1
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.53	< 0.53	< 0.53	< 0.52	< 1.1	< 0.54	< 0.52	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1221	< 0.53	< 0.53	< 0.53	< 0.52	< 1.1	< 0.54	< 0.52	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1232	< 0.53	< 0.53	< 0.53	< 0.52	< 1.1	< 0.54	< 0.52	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1242	< 0.53	< 0.53	< 0.53	< 0.52	< 1.1	< 0.54	< 0.52	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1248	**3.5**	**4.2**	**1.9**	**3.7**	**4.8**	**1.8**	**4.4**	**0.086 J**	< 0.1	< 0.1	< 0.1
Aroclor 1254	**0.72**	< 0.53	**0.52 J**	< 0.52	**2.2**	**0.83**	**1.2**	**0.031 J**	< 0.1	< 0.1	< 0.1
Aroclor 1260	< 0.53	< 0.53	< 0.53	< 0.52	< 1.1	< 0.54	**0.93**	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**4.2**	**4.2**	**2.4**	**3.7**	**7.0**	**2.6**	**6.5**	**0.12**	0.00	0.00	0.00

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nAW-21-14	nAW-25-14	nAW-25-14	nAW-25-14	nAW-25-14	nAX-7-14	nAX-7-14	nAY-21-14	nAY-6-14	nAY-9-14
Sample Depth (ft):	1	1	5	7	9	1	1	1	1	1
Date Sampled:	12/15/2014	1/12/2015	1/12/2015	1/12/2015	1/12/2015	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014
Sample ID:	nAW-21-14_1	nAW-25-14_1	nAW-25-14_5	nAW-25-14_7	nAW-25-14_9	REP 121514 DM4	nAX-7-14_1	nAY-21-14_1	nAY-6-14_1	REP 121514 DM6
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.52	< 1.1	< 2.3	< 2.1	< 0.11	< 0.099	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1221	< 0.52	< 1.1	< 2.3	< 2.1	< 0.11	< 0.099	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1232	< 0.52	< 1.1	< 2.3	< 2.1	< 0.11	< 0.099	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1242	< 0.52	< 1.1	< 2.3	< 2.1	< 0.11	< 0.099	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1248	**1.8**	**12**	< 2.3	< 2.1	< 0.11	< 0.099	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1254	**0.57**	< 1.1	< 2.3	< 2.1	< 0.11	< 0.099	**0.17**	< 0.1	< 0.11	< 0.11
Aroclor 1260	< 0.52	< 1.1	**1.8 J**	< 2.1	**0.058 J**	< 0.099	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**2.4**	**12**	**1.8**	0.00	**0.058**	0.00	**0.17**	0.00	0.00	0.00

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nAY-9-14	nAZ-11-14	nAZ-7-14	nAZ-7-14	nB-26-14	nBA-12-14	nBA-9-14	nBB-11-14	nBB-13-14	nBB-14-14
Sample Depth (ft):	1	1	1	1	1	1	1	1	1	1
Date Sampled:	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014
Sample ID:	nAY-9-14_1	nAZ-11-14_1	REP 121514 DM5	nAZ-7-14_1	nB-26-14_1	nBA-12-14_1	nBA-9-14_1	nBB-11-14_1	nBB-13-14_1	nBB-14-14_1
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.11	< 0.099	< 0.1	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.1
Aroclor 1221	< 0.1	< 0.11	< 0.099	< 0.1	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.1
Aroclor 1232	< 0.1	< 0.11	< 0.099	< 0.1	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.1
Aroclor 1242	< 0.1	< 0.11	< 0.099	< 0.1	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.1
Aroclor 1248	< 0.1	< 0.11	< 0.099	< 0.1	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.1
Aroclor 1254	**0.066 J**	**0.24**	< 0.099	< 0.1	< 0.12	< 0.11	**0.076 J**	< 0.11	< 0.11	**0.12**
Aroclor 1260	< 0.1	< 0.11	**0.082 J**	< 0.1	< 0.12	**0.053 J**	**0.063 J**	< 0.11	< 0.11	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.066**	**0.24**	**0.082**	0.00	0.00	**0.053**	**0.14**	0.00	0.00	**0.12**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nBB-24-14	nBB-24-14	nBB-24-14	nBB-24-14	nBB-25-14	nBB-25-14	nBB-25-14	nBB-25-14	nBC-15-14	nBD-18-14	nBD-18-14
Sample Depth (ft):	1	5	7	9	1	5	7	9	1	1	3
Date Sampled:	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015	12/15/2014	12/15/2014	12/15/2014
Sample ID:	nBB-24-14_1	nBB-24-14_5	nBB-24-14_7	nBB-24-14_9	nBB-25-14_1	nBB-25-14_5	nBB-25-14_7	nBB-25-14_9	nBC-15-14_1	nBD-18-14_1	nBD-18-14_3
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 1.1	< 1.1	< 0.1	< 0.1	< 0.58	< 0.51	< 0.1	< 0.11	< 0.11	< 0.1	< 0.099
Aroclor 1221	< 1.1	< 1.1	< 0.1	< 0.1	< 0.58	< 0.51	< 0.1	< 0.11	< 0.11	< 0.1	< 0.099
Aroclor 1232	< 1.1	< 1.1	< 0.1	< 0.1	< 0.58	< 0.51	< 0.1	< 0.11	< 0.11	< 0.1	< 0.099
Aroclor 1242	< 1.1	< 1.1	< 0.1	< 0.1	**6**	**1.6**	< 0.1	< 0.11	< 0.11	< 0.1	< 0.099
Aroclor 1248	**8.8**	**10**	< 0.1	< 0.1	< 0.58	< 0.51	**0.075 J**	**0.039 J**	< 0.11	< 0.1	< 0.099
Aroclor 1254	**3.4**	**2.3**	< 0.1	< 0.1	**1.4**	**0.97**	< 0.1	< 0.11	< 0.11	**0.85**	< 0.099
Aroclor 1260	< 1.1	< 1.1	< 0.1	< 0.1	< 0.58	< 0.51	< 0.1	< 0.11	< 0.11	**0.21**	< 0.099
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**12**	**12**	0.00	0.00	**7.4**	**2.6**	**0.075**	**0.039**	0.00	**1.1**	0.00

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nBD-18-14	nBD-18-14	nBD-18-14	nBE-16-14	nBE-16-14	nBE-16-14	nBE-16-14	nBE-16-14	nBE-16-14	nBE-16-14
Sample Depth (ft):	5	7	9	1	1	3	3	5	5	7
Date Sampled:	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014
Sample ID:	nBD-18-14_5	nBD-18-14_7	nBD-18-14_9	REP 121514 DM7	nBE-16-14_1	REP 121514 DM8	nBE-16-14_3	REP 121514 DM9	nBE-16-14_5	REP 121514 DM10
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1221	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1232	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1242	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1248	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1254	**0.15**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.084 J**	< 0.1	< 0.1
Aroclor 1260	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.06 J**	**0.071 J**
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.15**	0.00	0.00	0.00	0.00	0.00	0.00	**0.084**	**0.060**	**0.071**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nBE-16-14	nBE-16-14	nBE-16-14	nBE-18-14	nBE-18-14	nBE-18-14	nBE-18-14	nBE-18-14	nBE-18-14
Sample Depth (ft):	7	9	9	1	1	3	3	5	5
Date Sampled:	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014
Sample ID:	nBE-16-14_7	REP 121514 DM11	nBE-16-14_9	REP 121514 DM12	nBE-18-14_1	REP 121514 DM1	nBE-18-14_3	REP 121514 DM2	nBE-18-14_5
CONSTITUENT (unit in mg/kg)									
Aroclor 1016	< 0.11	< 0.11	< 0.098	< 0.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1221	< 0.11	< 0.11	< 0.098	< 0.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1232	< 0.11	< 0.11	< 0.098	< 0.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1242	< 0.11	< 0.11	< 0.098	< 0.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1248	< 0.11	< 0.11	< 0.098	< 0.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1254	**0.067 J**	**0.16**	< 0.098	< 0.1	< 0.11	**0.81**	**0.04 J**	< 0.11	< 0.11
Aroclor 1260	< 0.11	< 0.11	< 0.098	< 0.1	< 0.11	< 0.11	**0.09 J**	< 0.11	**0.086 J**
Aroclor 1262	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--
Total PCBs	**0.07**	**0.16**	0.00	0.00	0.00	**0.81**	**0.13**	0.00	**0.09**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nBE-18-14	nBE-18-14	nBE-18-14	nC-24-14	nD-24-14	nD-25-14	nD-26-14	nN-24-14	nN-25-14	nO-24-14
Sample Depth (ft):	7	7	9	1	1	1	1	1	1	1
Date Sampled:	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	1/12/2015	1/12/2015	1/12/2015	1/12/2015	1/12/2015
Sample ID:	REP 121514 DM3	nBE-18-14_7	nBE-18-14_9	nC-24-14_1	nD-24-14_1	nD-25-14_1	nD-26-14_1	nN-24-14_1	nN-25-14_1	nO-24-14_1
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.11	< 0.098	< 0.1	< 0.64	< 0.11	< 0.12	< 0.55	< 0.56	< 1.1
Aroclor 1221	< 0.1	< 0.11	< 0.098	< 0.1	< 0.64	< 0.11	< 0.12	< 0.55	< 0.56	< 1.1
Aroclor 1232	< 0.1	< 0.11	< 0.098	< 0.1	< 0.64	< 0.11	< 0.12	< 0.55	< 0.56	< 1.1
Aroclor 1242	< 0.1	< 0.11	< 0.098	< 0.1	< 0.64	< 0.11	< 0.12	< 0.55	< 0.56	< 1.1
Aroclor 1248	< 0.1	< 0.11	< 0.098	< 0.1	< 0.64	**0.17**	< 0.12	**1.7**	**2.7**	**13**
Aroclor 1254	**0.34**	< 0.11	< 0.098	< 0.1	< 0.64	**0.058 J**	< 0.12	**0.53 J**	**1**	**2**
Aroclor 1260	< 0.1	< 0.11	< 0.098	**0.11**	**3.3**	**0.042 J**	< 0.12	**0.41 J**	< 0.56	< 1.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.34**	0.00	0.00	**0.11**	**3.3**	**0.27**	0.00	**2.6**	**3.7**	**15**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nP-23-14	nP-24-14	nR-23-14	nU-23-14	nV-23-14	nW-24-14	nZZB-11-14	nZZB-12-14	nZZB-14-14	nZZB-17-14	nZZB-19-14
Sample Depth (ft):	1	1	1	1	1	1	1	1	1	1	1
Date Sampled:	12/15/2014	11/4/2014	1/12/2015	1/12/2015	1/12/2015	11/4/2014	1/12/2015	12/15/2014	1/12/2015	1/12/2015	12/15/2014
Sample ID:	nP-23-14_1	nP-24-14_1	nR-23-14_1	nU-23-14_1	nV-23-14_1	nW-24-14_1	nZZB-11-14_1	nZZB-12-14_1	nZZB-14-14_1	nZZB-17-14_1	nZZB-19-14_1
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.11	< 0.11 J	< 0.11	< 0.57	< 0.56	< 0.11 J	< 0.12	< 0.1	< 0.12	< 0.11	< 0.11
Aroclor 1221	< 0.11	< 0.11 J	< 0.11	< 0.57	< 0.56	< 0.11 J	< 0.12	< 0.1	< 0.12	< 0.11	< 0.11
Aroclor 1232	< 0.11	< 0.11 J	< 0.11	< 0.57	< 0.56	< 0.11 J	< 0.12	< 0.1	< 0.12	< 0.11	< 0.11
Aroclor 1242	< 0.11	< 0.11 J	< 0.11	< 0.57	< 0.56	< 0.11 J	< 0.12	< 0.1	< 0.12	< 0.11	< 0.11
Aroclor 1248	< 0.11	< 0.11 J	< 0.11	**0.86**	**3.5**	< 0.11 J	**0.25**	< 0.1	**0.046 J**	< 0.11	< 0.11
Aroclor 1254	< 0.11	**1.6 J**	**0.13**	**0.82**	**2.2**	**0.038 J**	**0.052 J**	< 0.1	**0.03 J**	< 0.11	< 0.11
Aroclor 1260	**0.11 J**	< 0.11 J	**0.13**	< 0.57	< 0.56	< 0.11 J	< 0.12	< 0.1	< 0.12	< 0.11	**0.058 J**
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.11**	**1.6**	**0.26**	**1.7**	**5.7**	**0.038**	**0.30**	0.00	**0.076**	0.00	**0.058**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nZZB-21-14	nZZB-25-14	nZZC-11-14	nZZC-12-14	nZZC-14-14	nZZC-17-14	nZZC-19-14	nZZC-21-14	O-10-14	O-10-14	O-11-14
Sample Depth (ft):	1	1	1	1	1	1	1	1	11	13	13
Date Sampled:	1/12/2015	1/12/2015	1/12/2015	12/15/2014	1/12/2015	1/12/2015	12/15/2014	1/12/2015	12/3/2014	12/3/2014	12/3/2014
Sample ID:	nZZB-21-14_1	nZZB-25-14_1	nZZC-11-14_1	nZZC-12-14_1	nZZC-14-14_1	nZZC-17-14_1	nZZC-19-14_1	nZZC-21-14_1	O-10-14_11	O-10-14_13	O-11-14_13
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.11	< 0.58	< 0.11	< 0.1	< 0.11	< 0.12	< 0.11	< 1.1	< 1500	< 650	< 610
Aroclor 1221	< 0.11	< 0.58	< 0.11	< 0.1	< 0.11	< 0.12	< 0.11	< 1.1	< 1500	< 650	< 610
Aroclor 1232	< 0.11	< 0.58	< 0.11	< 0.1	< 0.11	< 0.12	< 0.11	< 1.1	< 1500	< 650	< 610
Aroclor 1242	< 0.11	< 0.58	< 0.11	< 0.1	< 0.11	< 0.12	< 0.11	< 1.1	**15000**	**2200**	**1900**
Aroclor 1248	< 0.11	**8.2**	**0.054 J**	< 0.1	< 0.11	< 0.12	< 0.11	**10**	< 1500	< 650	< 610
Aroclor 1254	< 0.11	**1.6**	< 0.11	**0.094 J**	**0.03 J**	< 0.12	< 0.11	**1.6**	< 1500	< 650	< 610
Aroclor 1260	**0.2**	< 0.58	< 0.11	< 0.1	< 0.11	< 0.12	< 0.11	< 1.1	< 1500	< 650	< 610
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.20**	**9.8**	**0.054**	**0.094**	**0.030**	0.00	0.00	**12**	**15000**	**2200**	**1900**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	O-12-14	O-12-14	O-20-14	O-9-14	P-10-14	P-10-14	P-10-14	P-9-14	P-9-14	P-9-14	P-9-14
Sample Depth (ft):	3	5	9	13	13	15	17	10	12	14	16
Date Sampled:	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	11/6/2014	11/6/2014	11/6/2014	11/6/2014
Sample ID:	O-12-14_3	O-12-14_5	O-20-14_9	O-9-14_13	P-10-14_13	P-10-14_15	P-10-14_17	P-9-14_10	P-9-14_12	P-9-14_14	P-9-14_16
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.1	< 1.1	< 0.1	< 130	< 610	< 61	< 1.2	< 0.11 J	< 1.1 J	< 0.56 J	< 0.54 J
Aroclor 1221	< 0.1	< 1.1	< 0.1	< 130	< 610	< 61	< 1.2	< 0.11 J	< 1.1 J	< 0.56 J	< 0.54 J
Aroclor 1232	< 0.1	< 1.1	< 0.1	< 130	< 610	< 61	< 1.2	< 0.11 J	< 1.1 J	< 0.56 J	< 0.54 J
Aroclor 1242	**0.1**	**14**	**0.034 J**	**290**	**4800**	**650**	**9.6**	**1 J**	< 1.1 J	< 0.56 J	< 0.54 J
Aroclor 1248	< 0.1	< 1.1	< 0.1	< 130	< 610	< 61	< 1.2	< 0.11 J	< 1.1 J	**0.8 J**	< 0.54 J
Aroclor 1254	< 0.1	< 1.1	< 0.1	< 130	< 610	< 61	**2.9**	**0.33 J**	**6.7 J**	**0.57 J**	**2.2 J**
Aroclor 1260	< 0.1	< 1.1	< 0.1	< 130	< 610	< 61	< 1.2	< 0.11 J	< 1.1 J	< 0.56 J	< 0.54 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.10**	**14**	**0.034**	**290**	**4800**	**650**	**13**	**1.3**	**6.7**	**1.4**	**2.2**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	P-9-14	S-18-14	S-20-14	S-22-14	U-18-14	U-18-14	U-18-14	U-18-14	U-20-14	U-22-14	W-18-14
Sample Depth (ft):	18	1	1	1	3	5	7	9	1	1	3
Date Sampled:	11/6/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014
Sample ID:	P-9-14_18	S-18-14_1	S-20-14_1	S-22-14_1	U-18-14_3	U-18-14_5	U-18-14_7	U-18-14_9	U-20-14_1	U-22-14_1	W-18-14_3
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.12 J	< 0.11 J	< 1.1 J	< 0.1 J	< 0.11 J	< 0.1 J	< 0.11 J	< 0.1 J	< 0.1 J	< 0.11 J	< 0.11 J
Aroclor 1221	< 0.12 J	< 0.11 J	< 1.1 J	< 0.1 J	< 0.11 J	< 0.1 J	< 0.11 J	< 0.1 J	< 0.1 J	< 0.11 J	< 0.11 J
Aroclor 1232	< 0.12 J	< 0.11 J	< 1.1 J	< 0.1 J	< 0.11 J	< 0.1 J	< 0.11 J	< 0.1 J	< 0.1 J	< 0.11 J	< 0.11 J
Aroclor 1242	< 0.12 J	< 0.11 J	< 1.1 J	< 0.1 J	**0.26 J**	< 0.1 J	< 0.11 J	< 0.1 J	< 0.1 J	< 0.11 J	< 0.11 J
Aroclor 1248	< 0.12 J	**1.3 J**	**6.2 J**	**0.24 J**	< 0.11 J	< 0.1 J	< 0.11 J	< 0.1 J	**0.65 J**	**0.45 J**	**0.051 J**
Aroclor 1254	< 0.12 J	**0.36 J**	< 1.1 J	**0.22 J**	< 0.11 J	< 0.1 J	< 0.11 J	< 0.1 J	< 0.1 J	**0.16 J**	< 0.11 J
Aroclor 1260	< 0.2 J	< 0.11 J	**0.49 J**	< 0.1 J	< 0.11 J	< 0.1 J	< 0.11 J	< 0.1 J	< 0.1 J	< 0.11 J	< 0.11 J
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	0.00	**1.7**	**6.7**	**0.46**	**0.26**	0.00	0.00	0.00	**0.65**	**0.61**	**0.051**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	W-18-14	W-18-14	W-18-14	Y-18-14	Y-18-14	Y-18-14	Y-18-14
Sample Depth (ft):	5	7	9	3	5	7	9
Date Sampled:	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014
Sample ID:	W-18-14_5	W-18-14_7	W-18-14_9	Y-18-14_3	Y-18-14_5	Y-18-14_7	Y-18-14_9
CONSTITUENT (unit in mg/kg)							
Aroclor 1016	< 54 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J
Aroclor 1221	< 54 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J
Aroclor 1232	< 54 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J
Aroclor 1242	< 54 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J
Aroclor 1248	< 54 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J	**0.18 J**	< 0.11 J
Aroclor 1254	< 54 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J
Aroclor 1260	< 250 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J
Aroclor 1262	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--
Total PCBs	0.00	0.00	0.00	0.00	0.00	**0.18**	0.00

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	53-AC	53-AC	53-AC	53-AC	53-AC	57-AC	57-AC	57-AC	57-AC	58-AC	58-AC
Sample Depth (ft):	0-0.16	0.16-1	0.16-1	1-2	2-3	0-0.16	0.16-1	1-2	2-3	0-0.16	0.16-1
Date Sampled:	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015
Sample ID:	53-AC-01	53-AC-02	53-AC-02 DUP	53-AC-03	53-AC-04	57-AC-01	57-AC-02	57-AC-03	57-AC-04	58-AC-01	58-AC-02
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.037	< 0.037	< 0.36	< 0.17	< 0.036	< 0.038	< 0.038	< 0.035	< 0.032	< 0.037	< 0.038
Aroclor 1221	< 0.037	< 0.037	< 0.36	< 0.17	< 0.036	< 0.038	< 0.038	< 0.035	< 0.032	< 0.037	< 0.038
Aroclor 1232	< 0.037	< 0.037	< 0.36	< 0.17	< 0.036	< 0.038	< 0.038	< 0.035	< 0.032	< 0.037	< 0.038
Aroclor 1242	< 0.037	< 0.037	< 0.36	< 0.17	< 0.036	< 0.038	< 0.038	< 0.035	< 0.032	< 0.037	< 0.038
Aroclor 1248	**6.01**	**17.4**	**49.1**	**2.65**	**0.138**	**4.56**	**4.17**	**0.93**	**0.145**	**2.2**	**0.472**
Aroclor 1254	< 0.037	< 0.037	< 0.36	< 0.17	< 0.036	**1.45**	**1.32**	**0.437**	**0.0547**	**0.978**	**0.248**
Aroclor 1260	< 0.037	< 0.037	< 0.36	< 0.17	< 0.036	< 0.038	< 0.038	< 0.035	< 0.032	< 0.037	< 0.038
Aroclor 1262	< 0.037	< 0.037	< 0.36	< 0.17	< 0.036	< 0.038	< 0.038	< 0.035	< 0.032	< 0.037	< 0.038
Aroclor 1268	< 0.037	< 0.037	< 0.36	< 0.17	< 0.036	< 0.038	< 0.038	< 0.035	< 0.032	< 0.037	< 0.038
Total PCBs	**6.01**	**17.4**	**49.1**	**2.65**	**0.138**	**6.01**	**5.49**	**1.367**	**0.1997**	**3.178**	**0.72**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	58-AC	58-AC	62-AC	62-AC	63-AC	63-AC	63-AC	63-AC	66-AC	66-AC	66-AC	66-AC
Sample Depth (ft):	1-2	2-3	0-0.16	0.16-1	0-0.16	2-12	1-2	2-3	0-0.16	0.16-1	0.16-1	1-2
Date Sampled:	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015
Sample ID:	58-AC-03	58-AC-04	62-AC-01	62-AC-02	63-AC-01	63-AC-02	63-AC-03	63-AC-04	66-AC-01	66-AC-02 DUP	66-AC-02	66-AC-03
CONSTITUENT (unit in mg/kg)												
Aroclor 1016	< 0.036	< 0.033	< 0.041	< 0.04	< 0.04	< 0.042	< 0.04	< 0.033	< 0.038	< 0.039	< 0.039	< 0.038
Aroclor 1221	< 0.036	< 0.033	< 0.041	< 0.04	< 0.04	< 0.042	< 0.04	< 0.033	< 0.038	< 0.039	< 0.039	< 0.038
Aroclor 1232	< 0.036	< 0.033	< 0.041	< 0.04	< 0.04	< 0.042	< 0.04	< 0.033	< 0.038	< 0.039	< 0.039	< 0.038
Aroclor 1242	< 0.036	< 0.033	< 0.041	< 0.04	< 0.04	< 0.042	< 0.04	< 0.033	< 0.038	< 0.039	< 0.039	< 0.038
Aroclor 1248	**0.103**	< 0.033	< 0.041	**0.341**	**4.14**	**2.34**	**0.35**	**0.143**	**4.26**	**1.01**	**1.38**	**0.227**
Aroclor 1254	0.0758	< 0.033	< 0.041	< 0.04	**2**	**1.32**	**0.208**	**0.0792**	**2.63**	< 0.039	**1.41**	**0.228**
Aroclor 1260	< 0.036	< 0.033	< 0.041	< 0.04	< 0.04	< 0.042	< 0.04	< 0.033	< 0.038	< 0.039	< 0.039	< 0.038
Aroclor 1262	< 0.036	< 0.033	< 0.041	< 0.04	< 0.04	< 0.042	< 0.04	< 0.033	< 0.038	< 0.039	< 0.039	< 0.038
Aroclor 1268	< 0.036	< 0.033	< 0.041	< 0.04	< 0.04	< 0.042	< 0.04	< 0.033	< 0.038	< 0.039	< 0.039	< 0.038
Total PCBs	**0.1788**	**< 0.033 U**	**< 0.041 U**	**0.341**	**6.14**	**3.66**	**0.558**	**0.2222**	**6.89**	**1.01**	**2.79**	**0.455**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	66-AC	67-AC	67-AC	67-AC	67-AC	68-AC	68-AC	68-AC	68-AC	69-AC	69-AC	69-AC
Sample Depth (ft):	2-3	0-0.16	0.16-1	1-2	2-3	0-0.16	0.16-1	1-2	2-3	0-0.16	0.16-1	1-2
Date Sampled:	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015
Sample ID:	66-AC-04	67-AC-01	67-AC-02	67-AC-03	67-AC-04	68-AC-01	68-AC-02	68-AC-03	68-AC-04	69-AC-01	69-AC-02	69-AC-03-
CONSTITUENT (unit in mg/kg)												
Aroclor 1016	< 0.033	< 0.74	< 0.19	< 0.037	< 0.037	< 0.37	< 0.18	< 0.034	< 0.037	< 0.2	< 0.2	< 0.035
Aroclor 1221	< 0.033	< 0.74	< 0.19	< 0.037	< 0.037	< 0.37	< 0.18	< 0.034	< 0.037	< 0.2	< 0.2	< 0.035
Aroclor 1232	< 0.033	< 0.74	< 0.19	< 0.037	< 0.037	< 0.37	< 0.18	< 0.034	< 0.037	< 0.2	< 0.2	< 0.035
Aroclor 1242	< 0.033	< 0.74	< 0.19	< 0.037	< 0.037	< 0.37	< 0.18	< 0.034	< 0.037	< 0.2	< 0.2	< 0.035
Aroclor 1248	**0.304**	**16.9**	**3.39**	**1.26**	**0.529**	**5.22**	**3.26**	**0.691**	**0.0759**	**2.25**	**2.75**	**0.16**
Aroclor 1254	**0.217**	< 0.74	< 0.19	**0.444**	**0.195**	**1.82**	**1.62**	**0.465**	< 0.037	**2.04**	**2.56**	**0.203**
Aroclor 1260	< 0.033	< 0.74	< 0.19	0.0602	< 0.037	< 0.37	< 0.18	0.0649	< 0.037	< 0.2	< 0.2	< 0.035
Aroclor 1262	< 0.033	< 0.74	< 0.19	< 0.037	< 0.037	< 0.37	< 0.18	< 0.034	< 0.037	< 0.2	< 0.2	< 0.035
Aroclor 1268	< 0.033	< 0.74	< 0.19	< 0.037	< 0.037	< 0.37	< 0.18	< 0.034	< 0.037	< 0.2	< 0.2	< 0.035
Total PCBs	**0.521**	**16.9**	**3.39**	**1.7642**	**0.724**	**7.04**	**4.88**	**1.2209**	**0.0759**	**4.29**	**5.31**	**0.363**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	69-AC	70-AC	70-AC	70-AC	70-AC	71-AC	71-AC	71-AC	71-AC	71-AC	72-AC	72-AC
Sample Depth (ft):	2-3	0-0.16	0.16-1	1-2	2-3	0-0.16	0.16-1	0.16-1	1-2	2-3	0-0.16	0.16-1
Date Sampled:	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/16/2015	4/16/2015
Sample ID:	69-AC-04	70-AC-01	70-AC-02	70-AC-03	70-AC-04	71-AC-01	71-AC-02	71-AC-02	71-AC-03	71-AC-04	72-AC-01	72-AC-02
CONSTITUENT (unit in mg/kg)												
Aroclor 1016	< 0.032	< 0.2	< 0.18	< 0.039	< 0.036	< 0.039	< 0.037	< 0.039	< 0.034	< 0.038	< 0.036	< 0.04
Aroclor 1221	< 0.032	< 0.2	< 0.18	< 0.039	< 0.036	< 0.039	< 0.037	< 0.039	< 0.034	< 0.038	< 0.036	< 0.04
Aroclor 1232	< 0.032	< 0.2	< 0.18	< 0.039	< 0.036	< 0.039	< 0.037	< 0.039	< 0.034	< 0.038	< 0.036	< 0.04
Aroclor 1242	< 0.032	< 0.2	< 0.18	< 0.039	< 0.036	**0.22**	**0.227**	**0.256**	< 0.034	< 0.038	**2.38**	< 0.04
Aroclor 1248	**0.125**	**2.48**	**1.14**	**0.591**	**0.077**	< 0.039	< 0.037	< 0.039	**0.16**	< 0.038	< 0.036	< 0.04
Aroclor 1254	**0.132**	**1.82**	**0.819**	**0.376**	**0.125**	**0.497**	**0.601**	**0.68**	**0.31**	< 0.038	**1.57**	**0.0706**
Aroclor 1260	< 0.032	< 0.2	< 0.18	0.0665	< 0.036	**0.102**	**0.134**	**0.147**	< 0.034	< 0.038	**0.38**	< 0.04
Aroclor 1262	< 0.032	< 0.2	< 0.18	< 0.039	< 0.036	< 0.039	< 0.037	< 0.039	< 0.034	< 0.038	< 0.036	< 0.04
Aroclor 1268	< 0.032	< 0.2	< 0.18	< 0.039	< 0.036	< 0.039	< 0.037	< 0.039	< 0.034	< 0.038	< 0.036	< 0.04
Total PCBs	**0.257**	**4.3**	**1.959**	**1.0335**	**0.202**	**0.819**	**0.962**	**1.083**	**0.47**	**< 0.038 U**	**4.33**	**0.0706**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	72-AC	72-AC	73-AC	73-AC	73-AC	73-AC	74-AC	74-AC	74-AC	74-AC	75-AC	75-AC
Sample Depth (ft):	1-2	2-3	0-0.16	0.16-1	1-2	2-3	0-0.16	0.16-1	1-2	2-3	0-0.16	0.16-1
Date Sampled:	4/16/2015	4/16/2015	4/16/2015	4/16/2015	4/16/2015	4/16/2015	4/16/2015	4/16/2015	4/16/2015	4/16/2015	4/16/2015	4/16/2015
Sample ID:	72-AC-03	72-AC-04	73-AC-01	73-AC-02	73-AC-03	73-AC-04	74-AC-01	74-AC-02	74-AC-03	74-AC-04	75-AC-01	75-AC-02
CONSTITUENT (unit in mg/kg)												
Aroclor 1016	< 0.038	< 0.034	< 0.036	< 0.038	< 0.039	< 0.035	< 0.038	< 0.038	< 0.034	< 0.035	< 0.036	< 0.034
Aroclor 1221	< 0.038	< 0.034	< 0.036	< 0.038	< 0.039	< 0.035	< 0.038	< 0.038	< 0.034	< 0.035	< 0.036	< 0.034
Aroclor 1232	< 0.038	< 0.034	< 0.036	< 0.038	< 0.039	< 0.035	< 0.038	< 0.038	< 0.034	< 0.035	< 0.036	< 0.034
Aroclor 1242	< 0.038	< 0.034	**0.37**	**0.539**	< 0.039	< 0.035	**2.21**	**0.995**	**0.137**	< 0.035	**0.662**	**0.266**
Aroclor 1248	**0.13**	**0.109**	< 0.036	< 0.038	**0.0909**	**0.0695**	< 0.038	< 0.038	< 0.034	**0.09**	< 0.036	< 0.034
Aroclor 1254	**0.111**	**0.0673**	**0.383**	**0.641**	< 0.039	0.0739	**1.44**	**0.946**	**0.144**	**0.0706**	**0.583**	**0.307**
Aroclor 1260	< 0.038	< 0.034	**0.166**	**0.161**	< 0.039	< 0.035	**0.33**	**0.231**	**0.0551**	< 0.035	**0.114**	**0.0674**
Aroclor 1262	< 0.038	< 0.034	< 0.036	< 0.038	< 0.039	< 0.035	< 0.038	< 0.038	< 0.034	< 0.035	< 0.036	< 0.034
Aroclor 1268	< 0.038	< 0.034	< 0.036	< 0.038	< 0.039	< 0.035	< 0.038	< 0.038	< 0.034	< 0.035	< 0.036	< 0.034
Total PCBs	**0.241**	**0.1763**	**0.919**	**1.341**	**0.0909**	**0.1434**	**3.98**	**2.172**	**0.3361**	**0.1606**	**1.359**	**0.6404**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	75-AC	75-AC	76-AC	76-AC	76-AC	76-AC	76-AC	AE-22-15	AG-22-15	AG-23-15	AG-23-15
Sample Depth (ft):	1-2	2-3	0-0.16	0.16-1	0.16-1	1-2	2-3	0-0.15	0-0.15	0-2	2-4
Date Sampled:	4/16/2015	4/16/2015	4/16/2015	4/16/2015	4/16/2015	4/16/2015	4/16/2015	4/24/2015	4/24/2015	5/13/2015	5/13/2015
Sample ID:	75-AC-03	75-AC-04	75-AC-04	76-AC-02	76-AC-02-DUP	76-AC-03	76-AC-04	AE-22-15	AG-22-15	AG-23-15(0-2)	AG-23-15(2-4)
CONSTITUENT (unit in mg/kg)											
Aroclor 1016	< 0.034	< 0.038	< 0.037	< 0.035	< 0.033	< 0.033	< 0.039	< 0.67	< 0.13	< 0.12	< 0.12
Aroclor 1221	< 0.034	< 0.038	< 0.037	< 0.035	< 0.033	< 0.033	< 0.039	< 0.67	< 0.13	< 0.12	< 0.12
Aroclor 1232	< 0.034	< 0.038	< 0.037	< 0.035	< 0.033	< 0.033	< 0.039	< 0.67	< 0.13	< 0.12	< 0.12
Aroclor 1242	< 0.034	< 0.038	**2.12**	**0.569**	**0.599**	< 0.033	< 0.039	< 0.67	< 0.13	< 0.12	< 0.12
Aroclor 1248	**0.0592**	< 0.038	< 0.037	< 0.035	< 0.033	**0.162**	**0.0809**	**0.38 J**	**1.1**	**0.15**	< 0.12
Aroclor 1254	**0.0458**	< 0.038	**4.33**	**1.07**	**1.1**	**0.246**	**0.121**	**0.45 J**	**0.62**	< 0.12	< 0.12
Aroclor 1260	< 0.034	< 0.038	**0.639**	**0.223**	**0.235**	**0.0427**	< 0.039	< 0.67	**0.17**	< 0.12	< 0.12
Aroclor 1262	< 0.034	< 0.038	< 0.037	< 0.035	< 0.033	< 0.033	< 0.039	--	--	--	--
Aroclor 1268	< 0.034	< 0.038	< 0.037	< 0.035	< 0.033	< 0.033	< 0.039	--	--	--	--
Total PCBs	**0.105**	< 0.038 U	**7.089**	**1.862**	**1.934**	**0.4507**	**0.2019**	**0.83**	**1.89**	**0.15**	< 0.12 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	AG-23-15	AG-23-15	AG-23-15	AG-23-15	AH-20-15	AJ-18-15	AJ-18-15	AJ-18-15	AJ-18-15	AJ-18-15
Sample Depth (ft):	4-6	6-8	8-10	8-10	0-0.15	0-2	2-4	4-6	6-8	8-10
Date Sampled:	5/13/2015	5/13/2015	5/13/2015	5/13/2015	4/24/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015
Sample ID:	AG-23-15(4-6)	AG-23-15(6-8)	AG-23-15(8-10)	DUP051315DM5	AH-20-15	AJ-18-15 (0-2)	AJ-18-15 (2-4)	AJ-18-15 (4-6)	AJ-18-15 (6-8)	AJ-18-15 (8-10)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.1	< 0.1	< 0.11	< 0.12	< 0.51	< 0.1	< 0.52	< 0.1	< 0.11
Aroclor 1221	< 0.1	< 0.1	< 0.1	< 0.11	< 0.12	< 0.51	< 0.1	< 0.52	< 0.1	< 0.11
Aroclor 1232	< 0.1	< 0.1	< 0.1	< 0.11	< 0.12	< 0.51	< 0.1	< 0.52	< 0.1	< 0.11
Aroclor 1242	< 0.1	< 0.1	< 0.1	< 0.11	< 0.12	< 0.51	< 0.1	< 0.52	< 0.1	< 0.11
Aroclor 1248	< 0.1	< 0.1	< 0.1	< 0.11	**0.18**	**1.4**	**0.052 J**	**1.9**	< 0.1	< 0.11
Aroclor 1254	< 0.1	< 0.1	< 0.1	< 0.11	**0.23**	< 0.51	< 0.1	< 0.52	< 0.1	< 0.11
Aroclor 1260	< 0.1	< 0.1	< 0.1	< 0.11	**0.094 J**	< 0.51	< 0.1	< 0.52	< 0.1	< 0.11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.1 U	< 0.1 U	< 0.1 U	< 0.11 U	**0.504**	**1.4**	**0.052**	**1.9**	< 0.1 U	< 0.11 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	AJ-25-15	AJ-25-15	AJ-25-15	AJ-25-15	AJ-25-15	AJ-25-15	AP-25-15	AP-25-15	AP-25-15	AP-25-15
Sample Depth (ft):	0-2	2-4	4-6	6-8	8-10	8-10	0-2	2-4	4-6	6-7
Date Sampled:	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015
Sample ID:	AJ-25-15(0-2)	AJ-25-15(2-4)	AJ-25-15(4-6)	AJ-25-15(6-8)	AJ-25-15(8-10)	DUP051315DM4	AP-25-15(0-2)	AP-25-15(2-4)	AP-25-15(4-6)	AP-25-15(6-8)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 5.3	< 0.12	< 0.1	< 0.1	< 0.1	< 0.1	< 1.1	< 1.1	< 0.1	< 0.1
Aroclor 1221	< 5.3	< 0.12	< 0.1	< 0.1	< 0.1	< 0.1	< 1.1	< 1.1	< 0.1	< 0.1
Aroclor 1232	< 5.3	< 0.12	< 0.1	< 0.1	< 0.1	< 0.1	< 1.1	< 1.1	< 0.1	< 0.1
Aroclor 1242	< 5.3	< 0.12	< 0.1	< 0.1	< 0.1	< 0.1	< 1.1	< 1.1	< 0.1	< 0.1
Aroclor 1248	**38**	< 0.12	< 0.1	< 0.1	< 0.1	< 0.1	**7.1**	**8.1**	**0.45**	< 0.1
Aroclor 1254	**12**	< 0.12	< 0.1	< 0.1	< 0.1	< 0.1	**2.2**	**2.2**	**0.15**	< 0.1
Aroclor 1260	< 5.3	< 0.12	< 0.1	< 0.1	< 0.1	< 0.1	< 1.1	< 1.1	< 0.1	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**50**	< 0.12 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	**9.3**	**10.3**	**0.6**	< 0.1 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	AP-25-15	AT-25-15	AT-25-15	AT-25-15	AT-25-15	AT-25-15	AT-25-15	BC-17-15	BC-17-15	BC-17-15
Sample Depth (ft):	8-10	0-2	2-4	4-6	6-8	8-10	8-10	0-2	2-4	4-6
Date Sampled:	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/4/2015	5/4/2015	5/4/2015
Sample ID:	AP-25-15(8-10)	AT-25-15(0-2)	AT-25-15(2-4)	AT-25-15(4-6)	AT-25-15(6-8)	DUP051315DM2	AT-25-15(8-10)	BC-17-15 (0-2)	BC-17-15 (2-4)	BC-17-15 (4-6)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.53	< 0.56	< 0.52	< 0.1	< 0.1	< 0.11	< 0.1	< 0.11	< 0.11
Aroclor 1221	< 0.1	< 0.53	< 0.56	< 0.52	< 0.1	< 0.1	< 0.11	< 0.1	< 0.11	< 0.11
Aroclor 1232	< 0.1	< 0.53	< 0.56	< 0.52	< 0.1	< 0.1	< 0.11	< 0.1	< 0.11	< 0.11
Aroclor 1242	< 0.1	< 0.53	< 0.56	< 0.52	< 0.1	< 0.1	< 0.11	< 0.1	< 0.11	< 0.11
Aroclor 1248	< 0.1	**3.5**	< 0.56	< 0.52	< 0.1	< 0.1	< 0.11	< 0.1	**0.18**	< 0.11
Aroclor 1254	< 0.1	< 0.53	< 0.56	< 0.52	< 0.1	< 0.1	< 0.11	**0.085 J**	**0.22**	**0.044 J**
Aroclor 1260	< 0.1	**0.62**	**0.91**	**2.1**	**0.58**	**0.29**	**0.46**	< 0.1	< 0.11	< 0.11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.1 U	**4.12**	**0.91**	**2.1**	**0.58**	**0.29**	**0.46**	**0.085**	**0.4**	**0.044**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	BC-17-15	BC-17-15	BD-19-15	BD-19-15	BD-19-15	BD-19-15	BD-19-15	BE-26-15	BE-26-15	BE-26-15
Sample Depth (ft):	6-8	8-10	0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6
Date Sampled:	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/13/2015	5/13/2015	5/13/2015
Sample ID:	BC-17-15 (6-8)	BC-17-15 (8-10)	BD-19-15 (0-2)	BD-19-15 (2-4)	BD-19-15 (4-6)	BD-19-15 (6-8)	BD-19-15 (8-10)	BE-26-15(0-2)	BE-26-15(2-4)	BE-26-15(4-6)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11
Aroclor 1221	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11
Aroclor 1232	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11
Aroclor 1242	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11
Aroclor 1248	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11
Aroclor 1254	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11
Aroclor 1260	< 0.1	< 0.1	< 0.1	**0.052 J**	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.1 U	< 0.1 U	< 0.1 U	**0.052**	< 0.1 U	< 0.1 U	< 0.1 U	< 0.11 U	< 0.11 U	< 0.11 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	BE-26-15	BE-26-15	BE-26-15	BF-24-15	BF-24-15	BF-24-15	BF-24-15	BF-24-15	BF-24-15	C-6-15
Sample Depth (ft):	4-6	6-8	8-10	0-2	2-4	4-6	6-8	8-10	8-10	0-2
Date Sampled:	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/8/2015
Sample ID:	DUP051315TM7	BE-26-15(6-8)	BE-26-15(8-10)	BF-24-15(0-2)	BF-24-15(2-4)	BF-24-15(4-6)	BF-24-15(6-8)	BF-24-15(8-10)	DUP051315DM1	C-6-15(0-2)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.11	< 0.1	< 0.098	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 0.53
Aroclor 1221	< 0.11	< 0.1	< 0.098	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 0.53
Aroclor 1232	< 0.11	< 0.1	< 0.098	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 0.53
Aroclor 1242	**0.032 J**	< 0.1	< 0.098	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 0.53
Aroclor 1248	< 0.11	< 0.1	< 0.098	**0.52**	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	**3.3**
Aroclor 1254	< 0.11	< 0.1	< 0.098	**0.59**	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 0.53
Aroclor 1260	< 0.11	< 0.1	< 0.098	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 0.53
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.032**	< 0.1 U	< 0.098 U	**1.11**	< 0.11 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.11 U	**3.3**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	C-6-15	C-6-15	C-6-15	C-6-15	C-6-15	C-6-15	C-6-15	C-6-15	C-6-15	C-6-15
Sample Depth (ft):	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	16-18	18-20
Date Sampled:	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015
Sample ID:	C-6-15(2-4)	C-6-15(4-6)	C-6-15(6-8)	C-6-15(8-10)	C-6-15(10-12)	C-6-15(12-14)	C-6-15(14-16)	C-6-15(16-18)	DUP050815DD3	C-6-15(18-20)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 54	< 0.55	< 0.59	< 0.11	< 0.57	< 1.1	< 0.98	< 0.93	< 1	< 0.1
Aroclor 1221	< 54	< 0.55	< 0.59	< 0.11	< 0.57	< 1.1	< 0.98	< 0.93	< 1	< 0.1
Aroclor 1232	< 54	< 0.55	< 0.59	< 0.11	< 0.57	< 1.1	< 0.98	< 0.93	< 1	< 0.1
Aroclor 1242	**480**	**4.9**	**1.2**	**0.11**	**0.99 P**	**20**	< 0.98	< 0.93	1.6	< 0.1
Aroclor 1248	< 54	< 0.55	< 0.59	< 0.11	< 0.57	< 1.1	< 0.98	< 0.93	< 1	< 0.1
Aroclor 1254	< 54	< 0.55	**0.49 JP**	**0.14 P**	**0.64**	< 1.1	**5.5**	**4.2**	**4.2 P**	< 0.1
Aroclor 1260	< 54	< 0.55	**1.5**	**0.22**	**1.7**	< 1.1	< 0.98	**1.3 P**	**1.9 P**	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**480**	**4.9**	**3.19**	**0.47**	**3.33**	**20**	**5.5**	**5.5**	**7.7**	< 0.1 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	C-6-15	C-6-15	C-6-15	C-6-15	C-6-15	D-20-15	D-20-15	D-20-15	D-20-15	D-20-15
Sample Depth (ft):	20-22	22-24	24-26	26-28	28-30	0-2	2-4	4-6	6-8	8-10
Date Sampled:	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015
Sample ID:	C-6-15(20-22)	C-6-15(22-24)	C-6-15(24-26)	C-6-15(26-28)	C-6-15(28-30)	D-20-15(0-2)	D-20-15(2-4)	D-20-15(4-6)	D-20-15(6-8)	D-20-15(8-10)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.1	< 0.11	< 0.11
Aroclor 1221	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.1	< 0.11	< 0.11
Aroclor 1232	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.1	< 0.11	< 0.11
Aroclor 1242	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.1	< 0.11	< 0.11
Aroclor 1248	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.57**	**0.21**	**0.97**	**0.61**	< 0.11
Aroclor 1254	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.1	< 0.11	< 0.11
Aroclor 1260	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.1	**0.19**	**0.37**
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	**0.57**	**0.21**	**0.97**	**0.8**	**0.37**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	D-20-15	D-20-15	D-20-15	D-20-15	D-20-15	D-20-15	D-20-15	D-20-15	D-20-15	D-20-15
Sample Depth (ft):	10-12	12-14	14-16	16-18	18-20	20-22	22-24	24-26	26-28	28-30
Date Sampled:	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015
Sample ID:	D-20-15(10-12)	D-20-15(12-14)	D-20-15(14-16)	D-20-15(16-18)	D-20-15(18-20)	D-20-15(20-22)	D-20-15(22-24)	D-20-15(24-26)	D-20-15(26-28)	D-20-15(28-30)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.11	< 0.11	< 0.11	< 1.1	< 0.1	< 1.1	< 0.1	< 0.11	< 0.55	< 0.1
Aroclor 1221	< 0.11	< 0.11	< 0.11	< 1.1	< 0.1	< 1.1	< 0.1	< 0.11	< 0.55	< 0.1
Aroclor 1232	< 0.11	< 0.11	< 0.11	< 1.1	< 0.1	< 1.1	< 0.1	< 0.11	< 0.55	< 0.1
Aroclor 1242	**0.72**	< 0.11	< 0.11	**17**	**0.28**	**15**	< 0.1	**1.6**	**5.3**	< 0.1
Aroclor 1248	< 0.11	**0.73**	**0.32**	< 1.1	< 0.1	< 1.1	< 0.1	< 0.11	< 0.55	< 0.1
Aroclor 1254	< 0.11	< 0.11	**0.3**	< 1.1	< 0.1	< 1.1	< 0.1	< 0.11	< 0.55	< 0.1
Aroclor 1260	< 0.11	< 0.11	**0.17**	< 1.1	< 0.1	< 1.1	< 0.1	< 0.11	< 0.55	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.72**	**0.73**	**0.79**	**17**	**0.28**	**15**	**< 0.1**	**1.6**	**5.3**	< 0.1

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15
Sample Depth (ft):	0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20
Date Sampled:	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015
Sample ID:	F-3-15 (0-2)	F-3-15 (2-4)	F-3-15 (4-6)	F-3-15 (6-8)	F-3-15 (8-10)	F-3-15 (10-12)	F-3-15 (12-14)	F-3-15 (14-16)	F-3-15 (16-18)	F-3-15 (18-20)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 1.1	< 1.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1221	< 1.1	< 1.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1232	< 1.1	< 1.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1242	< 1.1	< 1.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1248	**13**	**11**	**0.032 J**	< 0.1	< 0.1	**1.1**	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1254	< 1.1	**12**	< 0.11	< 0.1	< 0.1	**0.69**	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1260	< 1.1	< 1.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**13**	**23**	**0.032**	< 0.1 U	< 0.1 U	**1.79**	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	G-7-15	G-7-15	G-7-15	G-7-15	G-7-15
Sample Depth (ft):	20-22	22-24	24-26	26-28	28-30	0-2	2-4	4-6	6-8	8-10
Date Sampled:	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015
Sample ID:	F-3-15 (20-22)	F-3-15 (22-24)	F-3-15 (24-26)	F-3-15 (26-28)	F-3-15 (28-30)	G-7-15(0-2)	G-7-15(2-4)	G-7-15(4-6)	G-7-15(6-8)	G-7-15(8-10)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.53	< 5.5	< 2.3	< 0.11	< 0.1
Aroclor 1221	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.53	< 5.5	< 2.3	< 0.11	< 0.1
Aroclor 1232	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.53	< 5.5	< 2.3	< 0.11	< 0.1
Aroclor 1242	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.53	**56**	**27**	**0.38**	**0.058 J**
Aroclor 1248	**0.16**	< 0.1	< 0.1	**0.24**	**0.044 J**	**7**	< 5.5	< 2.3	< 0.11	< 0.1
Aroclor 1254	**0.09 J**	< 0.1	< 0.1	**0.15**	**0.027 J**	**1.3**	< 5.5	< 2.3	< 0.11	< 0.1
Aroclor 1260	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	**0.53**	< 5.5	< 2.3	< 0.11	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.25**	< 0.1 U	< 0.1 U	**0.39**	**0.071**	**8.83**	**56**	**27**	**0.38**	**0.058**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	G-7-15	G-7-15	G-7-15	G-7-15	G-7-15	G-7-15	G-7-15	G-7-15	G-7-15	G-7-15
Sample Depth (ft):	10-12	12-14	14-16	16-18	18-20	20-22	22-24	24-26	26-28	28-30
Date Sampled:	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015
Sample ID:	G-7-15(10-12)	G-7-15(12-14)	G-7-15(14-16)	G-7-15(16-18)	G-7-15(18-20)	G-7-15(20-22)	G-7-15(22-24)	G-7-15(24-26)	G-7-15(26-28)	G-7-15(28-30)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1221	< 0.1	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1232	< 0.1	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1242	**0.11**	< 0.1	< 0.1	< 0.1	< 0.11	**0.052 J**	< 0.1	0.14	< 0.1	< 0.1
Aroclor 1248	< 0.1	< 0.1	**0.03 J**	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1254	< 0.1	< 0.1	**0.029 J**	< 0.1	< 0.11	< 0.1	< 0.1	**0.038 J**	< 0.1	< 0.1
Aroclor 1260	< 0.1	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.11**	< 0.1 U	**0.059**	< 0.1 U	< 0.11 U	**0.052**	< 0.1 U	**0.178**	< 0.1 U	< 0.1 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	H-7-15	H-7-15	H-7-15	H-7-15	H-7-15	H-7-15	H-7-15	H-7-15	H-7-15	H-7-15
Sample Depth (ft):	0-2	2-4	4-6	6-8	8-10	8-10	10-12	12-14	14-16	16-18
Date Sampled:	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015
Sample ID:	H-7-15(0-2)	H-7-15(2-4)	H-7-15(4-6)	H-7-15(6-8)	H-7-15(8-10)	DUP051315TM6	H-7-15(10-12)	H-7-15(12-14)	H-7-15(14-16)	H-7-15(16-18)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.12	< 1.1	< 2.1	< 2.2	< 0.11	< 0.11	< 0.11	< 0.6	< 11	< 0.1
Aroclor 1221	< 0.12	< 1.1	< 2.1	< 2.2	< 0.11	< 0.11	< 0.11	< 0.6	< 11	< 0.1
Aroclor 1232	< 0.12	< 1.1	< 2.1	< 2.2	< 0.11	< 0.11	< 0.11	< 0.6	< 11	< 0.1
Aroclor 1242	< 0.12	**8.1 P**	**31**	**37**	**0.18**	**0.37**	**1.3**	< 0.6	**73**	< 0.1
Aroclor 1248	**0.62**	< 1.1	< 2.1	< 2.2	< 0.11	< 0.11	< 0.11	< 0.6	< 11	< 0.1
Aroclor 1254	**0.37**	**2.2**	< 2.1	< 2.2	**0.29**	**0.43**	**1.1**	< 0.6	< 11	< 0.1
Aroclor 1260	< 0.12	< 1.1	< 2.1	< 2.2	**0.27**	**0.43**	**1.3**	**2.4**	< 11	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.99**	**10.3**	**31**	**37**	**0.74**	**1.23**	**3.7**	**2.4**	**73**	< 0.1 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	H-7-15	H-7-15	H-7-15	H-7-15	H-7-15	H-7-15	J-2-15	J-2-15	J-2-15	J-2-15
Sample Depth (ft):	18-20	20-22	22-24	24-26	26-28	28-30	0-2	2-4	4-6	6-8
Date Sampled:	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015
Sample ID:	H-7-15(18-20)	H-7-15(20-22)	H-7-15(22-24)	H-7-15(24-26)	H-7-15(26-28)	H-7-15(28-30)	J-2-15 (0-2)	J-2-15 (2-4)	J-2-15 (4-6)	J-2-15 (6-8)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.099	< 0.55	< 0.6	< 0.12	< 0.12
Aroclor 1221	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.099	< 0.55	< 0.6	< 0.12	< 0.12
Aroclor 1232	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.099	< 0.55	< 0.6	< 0.12	< 0.12
Aroclor 1242	**0.035 J**	< 0.11	< 0.1	< 0.1	< 0.1	< 0.099	< 0.55	< 0.6	< 0.12	< 0.12
Aroclor 1248	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.099	**3.5**	< 0.6	**0.3**	< 0.12
Aroclor 1254	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.099	**1.3**	**6.4**	**0.23**	< 0.12
Aroclor 1260	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.099	< 0.55	< 0.6	< 0.12	< 0.12
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.035**	< 0.11 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.099 U	**4.8**	**6.4**	**0.53**	< 0.12 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15
Sample Depth (ft):	8-10	10-12	12-14	14-16	16-18	18-20	20-22	22-24	24-26	26-28
Date Sampled:	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015
Sample ID:	J-2-15 (8-10)	J-2-15 (10-12)	J-2-15 (12-14)	J-2-15 (14-16)	J-2-15 (16-18)	J-2-15 (18-20)	J-2-15 (20-22)	J-2-15 (22-24)	J-2-15 (24-26)	J-2-15 (26-28)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.1	< 0.12	< 0.1	< 0.12	< 0.1	< 0.1	< 0.1	< 0.1	< 0.11
Aroclor 1221	< 0.1	< 0.1	< 0.12	< 0.1	< 0.12	< 0.1	< 0.1	< 0.1	< 0.1	< 0.11
Aroclor 1232	< 0.1	< 0.1	< 0.12	< 0.1	< 0.12	< 0.1	< 0.1	< 0.1	< 0.1	< 0.11
Aroclor 1242	< 0.1	< 0.1	< 0.12	< 0.1	< 0.12	< 0.1	< 0.1	< 0.1	< 0.1	< 0.11
Aroclor 1248	< 0.1	< 0.1	< 0.12	< 0.1	< 0.12	< 0.1	**0.28**	< 0.1	< 0.1	< 0.11
Aroclor 1254	< 0.1	< 0.1	< 0.12	< 0.1	< 0.12	< 0.1	**0.2**	< 0.1	< 0.1	**0.12**
Aroclor 1260	< 0.1	< 0.1	< 0.12	< 0.1	< 0.12	< 0.1	< 0.1	< 0.1	< 0.1	< 0.11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.1 U	< 0.1 U	< 0.12 U	< 0.1 U	< 0.12 U	< 0.1 U	**0.48**	< 0.1 U	< 0.1 U	**0.12**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	J-2-15	nAE-23-15	nAE-23-15	nAE-23-15	nAG-19-15	nAH-17-15	nAJ-20-15	nAO-22-15	nAO-22-15	nAO-22-15
Sample Depth (ft):	28-30	0-2	2-4	2-4	0-0.15	0-0.15	0-0.15	0-2	2-4	4-6
Date Sampled:	5/4/2015	5/13/2015	5/13/2015	5/13/2015	4/24/2015	4/24/2015	4/24/2015	5/13/2015	5/13/2015	5/13/2015
Sample ID:	J-2-15 (28-30)	nAE-23-15(0-2)	nAE-23-15(2-4)	DUP051315DME	nAG-19-15	nAH-17-15	nAJ-20-15	nAO-22-15(0-2)	nAO-22-15(2-4)	nAO-22-15(4-6)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.11	< 0.12	< 0.1	< 0.11	< 0.12	< 0.13	< 0.099	< 0.11	< 0.11
Aroclor 1221	< 0.1	< 0.11	< 0.12	< 0.1	< 0.11	< 0.12	< 0.13	< 0.099	< 0.11	< 0.11
Aroclor 1232	< 0.1	< 0.11	< 0.12	< 0.1	< 0.11	< 0.12	< 0.13	< 0.099	< 0.11	< 0.11
Aroclor 1242	< 0.1	< 0.11	< 0.12	< 0.1	< 0.11	< 0.12	< 0.13	< 0.099	< 0.11	< 0.11
Aroclor 1248	< 0.1	**0.094 J**	< 0.12	< 0.1	< 0.11	**0.57**	**1.3**	< 0.099	**0.083 J**	< 0.11
Aroclor 1254	< 0.1	**0.059 J**	< 0.12	< 0.1	< 0.11	**0.33**	**1.1**	**0.036 J**	< 0.11	< 0.11
Aroclor 1260	< 0.1	**0.13**	< 0.12	< 0.1	< 0.11	**0.09 J**	**0.33**	< 0.099	< 0.11	< 0.11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.1 U	**0.283**	< 0.12 U	< 0.1 U	< 0.11 U	**0.99**	**2.73**	**0.036**	**0.083**	< 0.11 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nAO-22-15	nAO-22-15	nAV-21-15	nAV-21-15	nAV-21-15	nAV-21-15	nAV-21-15	nAV-21-15	nAW-22-15	nAW-22-15
Sample Depth (ft):	6-8	8-10	0-2	2-4	4-6	6-8	6-8	8-10	0-2	2-4
Date Sampled:	5/13/2015	5/13/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015
Sample ID:	nAO-22-15(6-8)	nAO-22-15(8-10	nAV-21-15 (0-2)	nAV-21-15 (2-4)	nAV-21-15 (4-6)	nAV-21-15 (6-8)	DUP050415DM1	nAV-21-15 (8-10	nAW-22-15 (0-2)	nAW-22-15 (2-4)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.1
Aroclor 1221	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.1
Aroclor 1232	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.1
Aroclor 1242	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.1
Aroclor 1248	< 0.1	< 0.1	**0.15**	< 0.11	**0.3**	< 0.1	**0.098 J**	< 0.11	**0.25**	< 0.1
Aroclor 1254	< 0.1	< 0.1	**0.051 J**	< 0.11	**0.48**	< 0.1	< 0.1	< 0.11	**0.23**	< 0.1
Aroclor 1260	< 0.1	< 0.1	< 0.1	**0.14**	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.1 U	< 0.1 U	**0.201**	**0.14**	**0.78**	< 0.1 U	**0.098**	< 0.11 U	**0.48**	< 0.1 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nAW-22-15	nAW-22-15	nAW-22-15	nAW-26-15	nAW-26-15	nAW-26-15	nAW-26-15	nAW-26-15	nAW-26-15	nAY-26-15
Sample Depth (ft):	4-6	6-8	8-10	0-2	2-4	4-6	6-8	8-10	8-10	0-2
Date Sampled:	5/4/2015	5/4/2015	5/4/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015
Sample ID:	nAW-22-15 (4-6	nAW-22-15 (6-8	AW-22-15 (8-1(	nAW-26-15(0-2)	nAW-26-15(2-4)	nAW-26-15(4-6)	nAW-26-15(6-8)	AW-26-15(8-10)	UP051315TM1	nAY-26-15(0-2)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.51	< 0.1	< 0.11	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1221	< 0.51	< 0.1	< 0.11	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1232	< 0.51	< 0.1	< 0.11	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1242	< 0.51	< 0.1	< 0.11	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1248	**1.9**	**0.29**	**0.55**	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1254	< 0.51	**0.26**	< 0.11	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1260	< 0.51	< 0.1	< 0.11	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**1.9**	**0.55**	**0.55**	< 0.11 U	< 0.1 U	< 0.11 U	< 0.1 U	< 0.1 U	< 0.11 U	< 0.11

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nAY-26-15	nAY-26-15	nAY-26-15	nAY-26-15	nB-15-15	nB-15-15	nB-15-15	nB-15-15	nB-15-15	nB-15-15
Sample Depth (ft):	2-4	4-6	6-8	8-10	0-2	2-4	4-6	6-8	8-10	10-12
Date Sampled:	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015
Sample ID:	nAY-26-15(2-4)	nAY-26-15(4-6)	nAY-26-15(6-8)	nAY-26-15(8-10)	nB-15-15(0-2)	nB-15-15(2-4)	nB-15-15(4-6)	nB-15-15(6-8)	nB-15-15(8-10)	nB-15-15(10-12)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.11	< 0.11	< 0.1	< 0.097	< 0.11	< 0.11	< 0.54	< 0.61	< 0.55	< 2.2
Aroclor 1221	< 0.11	< 0.11	< 0.1	< 0.097	< 0.11	< 0.11	< 0.54	< 0.61	< 0.55	< 2.2
Aroclor 1232	< 0.11	< 0.11	< 0.1	< 0.097	< 0.11	< 0.11	< 0.54	< 0.61	< 0.55	< 2.2
Aroclor 1242	< 0.11	< 0.11	< 0.1	< 0.097	< 0.11	**0.38**	**4.3**	**4.1**	**4.3**	**29**
Aroclor 1248	< 0.11	< 0.11	< 0.1	< 0.097	**0.088 J**	< 0.11	< 0.54	< 0.61	< 0.55	< 2.2
Aroclor 1254	< 0.11	< 0.11	< 0.1	< 0.097	**0.057 J**	**0.21**	< 0.54	< 0.61	< 0.55	< 2.2
Aroclor 1260	< 0.11	< 0.11	< 0.1	< 0.097	< 0.11	< 0.11	< 0.54	< 0.61	< 0.55	< 2.2
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.11	< 0.11	< 0.1	< 0.097	**0.145**	**0.59**	**4.3**	**4.1**	**4.3**	**29**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nB-15-15	nB-15-15	nB-15-15	nB-15-15	nB-15-15	nB-15-15	nB-15-15	nB-15-15	nB-15-15	nB-16-15
Sample Depth (ft):	12-14	14-16	16-18	18-20	20-22	22-24	24-26	26-28	28-30	0-2
Date Sampled:	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/12/2015
Sample ID:	nB-15-15(12-14)	nB-15-15(14-16)	nB-15-15(16-18)	nB-15-15(18-20)	nB-15-15(20-22)	nB-15-15(22-24)	nB-15-15(24-26)	nB-15-15(26-28)	nB-15-15(28-30)	nB-16-15(0-2)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 2.1	< 0.54	< 0.56	< 0.52	< 0.1	< 0.59	< 0.1	< 0.11	< 0.1	< 0.11
Aroclor 1221	< 2.1	< 0.54	< 0.56	< 0.52	< 0.1	< 0.59	< 0.1	< 0.11	< 0.1	< 0.11
Aroclor 1232	< 2.1	< 0.54	< 0.56	< 0.52	< 0.1	< 0.59	< 0.1	< 0.11	< 0.1	< 0.11
Aroclor 1242	**35**	**7.4**	**8.4**	**2.1**	**0.19**	**3.8**	**0.042 J**	< 0.11	**0.047 J**	< 0.11
Aroclor 1248	< 2.1	< 0.54	< 0.56	< 0.52	< 0.1	< 0.59	< 0.1	< 0.11	< 0.1	< 0.11
Aroclor 1254	< 2.1	**1.6**	< 0.56	< 0.52	< 0.1	< 0.59	< 0.1	< 0.11	< 0.1	**0.17**
Aroclor 1260	< 2.1	< 0.54	< 0.56	< 0.52	< 0.1	< 0.59	< 0.1	< 0.11	< 0.1	**0.077 J**
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**35**	**9**	**8.4**	**2.1**	**0.19**	**3.8**	**0.042**	< 0.11 U	**0.047**	**0.247**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nB-16-15	nB-16-15	nB-16-15	nB-16-15	nB-16-15	nB-16-15	nB-16-15	nB-16-15	nB-16-15	nB-16-15
Sample Depth (ft):	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20	20-22
Date Sampled:	5/12/2015	5/12/2015	5/12/2015	5/12/2015	5/12/2015	5/12/2015	5/12/2015	5/12/2015	5/12/2015	5/12/2015
Sample ID:	nB-16-15(2-4)	nB-16-15(4-6)	nB-16-15(6-8)	nB-16-15(8-10)	nB-16-15(10-12)	nB-16-15(12-14)	nB-16-15(14-16)	nB-16-15(16-18)	nB-16-15(18-20)	nB-16-15(20-22)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.11	< 0.11	< 0.1	< 1.1	< 0.1	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11
Aroclor 1221	< 0.11	< 0.11	< 0.1	< 1.1	< 0.1	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11
Aroclor 1232	< 0.11	< 0.11	< 0.1	< 1.1	< 0.1	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11
Aroclor 1242	< 0.11	< 0.11	< 0.1	**14**	< 0.1	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11
Aroclor 1248	**0.21**	**0.22**	**0.35**	< 1.1	**0.08 J**	< 0.11	**0.039 J**	< 0.12	< 0.11	**0.14**
Aroclor 1254	**0.24**	< 0.11	< 0.1	< 1.1	< 0.1	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11
Aroclor 1260	< 0.11	**0.07 J**	**0.11**	< 1.1	< 0.1	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.45**	**0.29**	**0.46**	**14**	**0.08**	< 0.11 U	**0.039**	< 0.12 U	< 0.11 U	**0.14**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nB-16-15	nB-16-15	nB-16-15	nB-16-15	nB-4-15	nB-4-15	nB-4-15	nB-4-15	nB-4-15	nB-4-15
Sample Depth (ft):	22-24	24-26	26-28	28-30	0-2	2-4	4-6	6-8	8-10	10-12
Date Sampled:	5/12/2015	5/12/2015	5/12/2015	5/12/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015
Sample ID:	nB-16-15(22-24)	nB-16-15(24-26)	nB-16-15(26-28)	nB-16-15(28-30)	nB-4-15 (0-2)	nB-4-15 (2-4)	nB-4-15 (4-6)	nB-4-15 (6-8)	nB-4-15 (8-10)	nB-4-15 (10-12)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.1	< 0.1	< 0.1	< 0.12	< 0.55	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1221	< 0.1	< 0.1	< 0.1	< 0.1	< 0.12	< 0.55	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1232	< 0.1	< 0.1	< 0.1	< 0.1	< 0.12	< 0.55	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1242	< 0.1	< 0.1	< 0.1	< 0.1	< 0.12	< 0.55	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1248	< 0.1	**0.032 J**	< 0.1	< 0.1	**1.4**	**4.8**	**0.63**	**0.24**	**0.24**	**0.03 J**
Aroclor 1254	< 0.1	< 0.1	< 0.1	< 0.1	**0.22**	**4.9**	**0.24**	**0.086 JP**	**0.13**	< 0.11
Aroclor 1260	< 0.1	< 0.1	< 0.1	< 0.1	< 0.12	< 0.55	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.1 U	**0.032**	< 0.1 U	< 0.1 U	**1.62**	**9.7**	**0.87**	**0.326**	**0.37**	**0.03**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nB-4-15	nB-4-15	nB-4-15	nB-4-15	nB-4-15	nB-4-15	nB-4-15	nB-4-15	nB-4-15	nBB-27-15
Sample Depth (ft):	12-14	14-16	16-18	18-20	20-22	22-24	24-26	26-28	28-30	0-2
Date Sampled:	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/13/2015
Sample ID:	nB-4-15 (12-14)	nB-4-15 (14-16)	nB-4-15 (16-18)	nB-4-15 (18-20)	nB-4-15 (20-22)	nB-4-15 (22-24)	nB-4-15 (24-26)	nB-4-15 (26-28)	nB-4-15 (28-30)	nBB-27-15(0-2)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.55
Aroclor 1221	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.55
Aroclor 1232	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.55
Aroclor 1242	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.55
Aroclor 1248	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**2.8**
Aroclor 1254	**0.032 J**	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**2.1**
Aroclor 1260	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.55
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.032**	< 0.1 U	< 0.11 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	**4.9**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nBB-27-15	nBB-27-15	nBB-27-15	nBB-27-15	nBB-27-15	nBF-27-15	nD-5-15	nD-5-15	nD-5-15	nD-5-15
Sample Depth (ft):	2-4	4-6	4-6	6-8	8-10	0-2	0-2	2-4	4-6	6-8
Date Sampled:	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	7/7/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015
Sample ID:	nBB-27-15(2-4)	nBB-27-15(4-6)	DUP051315TM8	nBB-27-15(6-8)	nBB-27-15(8-10)	nBF-27-15 (0-2)	nD-5-15(0-2)	nD-5-15(2-4)	nD-5-15(4-6)	nD-5-15(6-8)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.018	< 0.55	< 5.5	< 5.6	< 0.11
Aroclor 1221	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.018	< 0.55	< 5.5	< 5.6	< 0.11
Aroclor 1232	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.018	< 0.55	< 5.5	< 5.6	< 0.11
Aroclor 1242	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.018	< 0.55	**56**	**56**	**0.14**
Aroclor 1248	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.018	**5.1**	< 5.5	< 5.6	< 0.11
Aroclor 1254	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.018	< 0.55	< 5.5	< 5.6	< 0.11
Aroclor 1260	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.018	< 0.55	< 5.5	< 5.6	**0.32**
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.11 U	< 0.11 U	< 0.11 U	< 0.1 U	< 0.1 U	< 0.018 U	**5.1**	**56**	**56**	**0.46**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nD-5-15	nD-5-15	nD-5-15	nD-5-15	nD-5-15	nD-5-15	nD-5-15	nD-5-15	nD-5-15	nD-5-15
Sample Depth (ft):	8-10	10-12	12-14	14-16	16-18	18-20	20-22	22-24	24-26	26-28
Date Sampled:	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015
Sample ID:	nD-5-15(8-10)	nD-5-15(10-12)	nD-5-15(12-14)	nD-5-15(14-16)	nD-5-15(16-18)	nD-5-15(18-20)	nD-5-15(20-22)	nD-5-15(22-24)	nD-5-15(24-26)	nD-5-15(26-28)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.11	< 0.66	< 0.11	< 0.59	< 0.61	< 0.11	< 0.12	< 0.14	< 0.11	< 0.11
Aroclor 1221	< 0.11	< 0.66	< 0.11	< 0.59	< 0.61	< 0.11	< 0.12	< 0.14	< 0.11	< 0.11
Aroclor 1232	< 0.11	< 0.66	< 0.11	< 0.59	< 0.61	< 0.11	< 0.12	< 0.14	< 0.11	< 0.11
Aroclor 1242	**0.036 J**	< 0.66	**1.6**	**6.6**	< 0.61	< 0.11	**0.84**	0.14 J	**1.5**	**0.48**
Aroclor 1248	< 0.11	< 0.66	< 0.11	< 0.59	< 0.61	< 0.11	< 0.12	< 0.14	< 0.11	< 0.11
Aroclor 1254	< 0.11	< 0.66	< 0.11	< 0.59	< 0.61	**0.18**	< 0.12	**0.23**	< 0.11	**0.077 JP**
Aroclor 1260	< 0.11	**3.2**	< 0.11	< 0.59	**1.8**	< 0.11	**1.2**	< 0.14	< 0.11	**0.11**
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.036**	**3.2**	**1.6**	**6.6**	**1.8**	**0.18**	**2.04**	**0.37**	**1.5**	**0.667**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nD-5-15	nD-5-15	nD-6-15	nD-6-15	nD-6-15	nD-6-15	nD-6-15	nD-6-15	nD-6-15	nD-6-15
Sample Depth (ft):	28-30	28-30	0-2	2-4	4-6	6-8	6-8	8-10	10-12	12-14
Date Sampled:	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015
Sample ID:	DUP050815DD1	nD-5-15(28-30)	nD-6-15(0-2)	nD-6-15(2-4)	nD-6-15(4-6)	DUP050815DD2	nD-6-15(6-8)	nD-6-15(8-10)	nD-6-15(10-12)	nD-6-15(12-14)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.1	< 0.11	< 0.52	< 0.53	< 1.1	< 2.2	< 5.5	< 1.1	< 0.1
Aroclor 1221	< 0.1	< 0.1	< 0.11	< 0.52	< 0.53	< 1.1	< 2.2	< 5.5	< 1.1	< 0.1
Aroclor 1232	< 0.1	< 0.1	< 0.11	< 0.52	< 0.53	< 1.1	< 2.2	< 5.5	< 1.1	< 0.1
Aroclor 1242	**0.06 J**	**0.16**	< 0.11	< 0.52	< 0.53	**14**	**40**	**24**	< 1.1	< 0.1
Aroclor 1248	< 0.1	< 0.1	**0.75**	**7.2**	**3.4**	< 1.1	< 2.2	< 5.5	**10**	< 0.1
Aroclor 1254	< 0.1	**0.035 J**	**0.35**	< 0.52	< 0.53	< 1.1	< 2.2	< 5.5	< 1.1	< 0.1
Aroclor 1260	< 0.1	< 0.1	< 0.11	< 0.52	< 0.53	< 1.1	< 2.2	< 5.5	< 1.1	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.06**	**0.195**	**1.1**	**7.2**	**3.4**	**14**	**40**	**24**	**10**	< 0.1 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nD-6-15	nD-6-15	nD-6-15	nD-6-15	nD-6-15	nD-6-15	nD-6-15	nD-6-15	nE-5-15	nE-5-15
Sample Depth (ft):	14-16	16-18	18-20	20-22	22-24	24-26	26-28	28-30	0-2	2-4
Date Sampled:	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/8/2015	5/5/2015	5/5/2015
Sample ID:	nD-6-15(14-16)	nD-6-15(16-18)	nD-6-15(18-20)	nD-6-15(20-22)	nD-6-15(22-24)	nD-6-15(24-26)	nD-6-15(26-28)	nD-6-15(28-30)	nE-5-15 (0-2)	nE-5-15 (2-4)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.54	< 2.3
Aroclor 1221	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.54	< 2.3
Aroclor 1232	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.54	< 2.3
Aroclor 1242	**0.054 J**	< 0.1	< 0.1	< 0.1	< 0.1	**0.034 J**	< 0.1	< 0.1	**3.4**	**27**
Aroclor 1248	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.54	< 2.3
Aroclor 1254	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.54	< 2.3
Aroclor 1260	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.54	< 2.3
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.054**	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	**0.034**	< 0.1 U	< 0.1 U	**3.4**	**27**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nE-5-15	nE-5-15	nE-5-15	nE-5-15	nE-5-15	nE-5-15	nE-5-15	nE-5-15	nE-5-15	nE-5-15
Sample Depth (ft):	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20	20-22	22-24
Date Sampled:	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015
Sample ID:	nE-5-15 (4-6)	nE-5-15 (6-8)	nE-5-15 (8-10)	nE-5-15 (10-12)	nE-5-15 (12-14)	nE-5-15 (14-16)	nE-5-15 (16-18)	nE-5-15 (18-20)	nE-5-15 (20-22)	nE-5-15 (22-24)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 2.2	< 0.11	< 1.2	< 2.3	< 5.7	< 2.3	< 1.2	< 13	< 0.64	< 0.11
Aroclor 1221	< 2.2	< 0.11	< 1.2	< 2.3	< 5.7	< 2.3	< 1.2	< 13	< 0.64	< 0.11
Aroclor 1232	< 2.2	< 0.11	< 1.2	< 2.3	< 5.7	< 2.3	< 1.2	< 13	< 0.64	< 0.11
Aroclor 1242	**32**	**1.8**	< 1.2	**5.2**	< 5.7	< 2.3	< 1.2	< 13	< 0.64	< 0.11
Aroclor 1248	< 2.2	< 0.11	< 1.2	< 2.3	**9.3**	**5.1**	**2.1**	< 13	**4**	< 0.11
Aroclor 1254	< 2.2	0.82	< 1.2	< 2.3	**8.9**	**3.6**	**3.2**	**9.8 J**	**5.7**	< 0.11
Aroclor 1260	< 2.2	**1.7**	**7.5**	**3.1**	< 5.7	< 2.3	< 1.2	< 13	< 0.64	< 0.11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**32**	**4.32**	**7.5**	**8.3**	**18.2**	**8.7**	**5.3**	**9.8**	**9.7**	< 0.11 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nE-5-15	nE-5-15	nE-5-15	nG-21-15	nG-21-15	nG-21-15	nG-21-15	nG-21-15	nG-21-15	nG-21-15
Sample Depth (ft):	24-26	26-28	28-30	0-2	2-4	4-6	6-8	8-10	10-12	12-14
Date Sampled:	5/5/2015	5/5/2015	5/5/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015
Sample ID:	nE-5-15 (24-26)	nE-5-15 (26-28)	nE-5-15 (28-30)	nG-21-15(0-2)	nG-21-15(2-4)	nG-21-15(4-6)	nG-21-15(6-8)	nG-21-15(8-10)	nG-21-15(10-12)	nG-21-15(12-14)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.11	< 0.1	< 0.11	< 0.1	< 0.12	< 0.1	< 0.12	< 0.53	< 11	< 22
Aroclor 1221	< 0.11	< 0.1	< 0.11	< 0.1	< 0.12	< 0.1	< 0.12	< 0.53	< 11	< 22
Aroclor 1232	< 0.11	< 0.1	< 0.11	< 0.1	< 0.12	< 0.1	< 0.12	< 0.53	< 11	< 22
Aroclor 1242	< 0.11	< 0.1	< 0.11	< 0.1	**0.41**	**1.2**	**0.17**	**2.6**	**33**	**180**
Aroclor 1248	< 0.11	< 0.1	< 0.11	**0.059**	< 0.12	< 0.1	< 0.12	< 0.53	< 11	< 22
Aroclor 1254	< 0.11	< 0.1	< 0.11	**0.033**	< 0.12	< 0.1	**0.041**	< 0.53	< 11	< 22
Aroclor 1260	< 0.11	< 0.1	< 0.11	< 0.1	< 0.12	< 0.1	< 0.12	< 0.53	< 11	< 22
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.11 U	< 0.1 U	< 0.11 U	**0.092**	**0.41**	**1.2**	**0.211**	**2.6**	**33**	**180**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nG-21-15	nG-21-15	nG-21-15	nG-21-15	nG-21-15	nG-21-15	nG-21-15	nG-21-15	nH-19-15	nH-19-15
Sample Depth (ft):	14-16	16-18	18-20	20-22	22-24	24-26	26-28	28-30	0-2	2-4
Date Sampled:	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015
Sample ID:	nG-21-15(14-16)	nG-21-15(16-18)	nG-21-15(18-20)	nG-21-15(20-22)	nG-21-15(22-24)	nG-21-15(24-26)	nG-21-15(26-28)	nG-21-15(28-30)	nH-19-15(0-2)	nH-19-15(2-4)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 5.3	< 5.5	< 0.53	< 0.54	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 1.1
Aroclor 1221	< 5.3	< 5.5	< 0.53	< 0.54	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 1.1
Aroclor 1232	< 5.3	< 5.5	< 0.53	< 0.54	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 1.1
Aroclor 1242	**9.2**	**54**	**4**	**7.4**	< 0.1	**1.1**	**0.047**	< 0.1	< 0.11	**18**
Aroclor 1248	< 5.3	< 5.5	< 0.53	< 0.54	< 0.1	< 0.11	< 0.1	< 0.1	**0.55**	< 1.1
Aroclor 1254	< 5.3	< 5.5	< 0.53	< 0.54	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 1.1
Aroclor 1260	< 5.3	< 5.5	< 0.53	< 0.54	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 1.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**9.2**	**54**	**4**	**7.4**	< 0.1	**1.1**	**0.047**	< 0.1	**0.55**	**18**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nH-19-15	nH-19-15	nH-19-15	nH-19-15	nH-19-15	nH-19-15	nH-19-15	nH-19-15	nH-19-15	nH-19-15
Sample Depth (ft):	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20	20-22	22-24
Date Sampled:	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015
Sample ID:	nH-19-15(4-6)	nH-19-15(6-8)	nH-19-15(8-10)	nH-19-15(10-12)	nH-19-15(12-14)	nH-19-15(14-16)	nH-19-15(16-18)	nH-19-15(18-20)	nH-19-15(20-22)	nH-19-15(22-24)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.11	< 0.54	< 5.6	< 5.6	< 5.5	< 5.5	< 1.1	< 0.11	< 5.5	< 0.1
Aroclor 1221	< 0.11	< 0.54	< 5.6	< 5.6	< 5.5	< 5.5	< 1.1	< 0.11	< 5.5	< 0.1
Aroclor 1232	< 0.11	< 0.54	< 5.6	< 5.6	< 5.5	< 5.5	< 1.1	< 0.11	< 5.5	< 0.1
Aroclor 1242	**0.69**	**7.8**	**25**	**80**	**31**	**60**	**9.4**	**1.6**	**40**	**0.089 J**
Aroclor 1248	< 0.11	< 0.54	< 5.6	< 5.6	< 5.5	< 5.5	< 1.1	< 0.11	< 5.5	< 0.1
Aroclor 1254	< 0.11	< 0.54	< 5.6	< 5.6	**5.4 J**	**10**	**2.1**	< 0.11	< 5.5	< 0.1
Aroclor 1260	< 0.11	< 0.54	< 5.6	< 5.6	< 5.5	< 5.5	< 1.1	< 0.11	< 5.5	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.69**	**7.8**	**25**	**80**	**36.4**	**70**	**11.5**	**1.6**	**40**	**0.089**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nH-19-15	nH-19-15	nH-19-15	nH-6-15	nH-6-15	nH-6-15	nH-6-15	nH-6-15	nH-6-15	nH-6-15
Sample Depth (ft):	24-26	26-28	28-30	0-2	2-4	4-6	6-8	8-10	10-12	12-14
Date Sampled:	5/11/2015	5/11/2015	5/11/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015
Sample ID:	nH-19-15(24-26)	nH-19-15(26-28)	nH-19-15(28-30)	nH-6-15 (0-2)	nH-6-15 (2-4)	nH-6-15 (4-6)	nH-6-15 (6-8)	nH-6-15 (8-10)	nH-6-15 (10-12)	nH-6-15 (12-14)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 1.2	< 0.1	< 0.1	< 0.58	< 11	< 2.3	< 2.3	< 1.2	< 1.1	< 9
Aroclor 1221	< 1.2	< 0.1	< 0.1	< 0.58	< 11	< 2.3	< 2.3	< 1.2	< 1.1	< 9
Aroclor 1232	< 1.2	< 0.1	< 0.1	< 0.58	< 11	< 2.3	< 2.3	< 1.2	< 1.1	< 9
Aroclor 1242	**14**	< 0.1	< 0.1	< 0.58	**130**	**18**	**5.7**	**1.7**	< 1.1	< 9
Aroclor 1248	< 1.2	< 0.1	< 0.1	**2.5**	< 11	< 2.3	< 2.3	< 1.2	< 1.1	< 9
Aroclor 1254	< 1.2	< 0.1	< 0.1	< 0.58	< 11	< 2.3	< 2.3	< 1.2	< 1.1	< 9
Aroclor 1260	< 1.2	< 0.1	< 0.1	< 0.58	< 11	**1.9 J**	**4.3**	**2.8**	**1.4**	**31**
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**14**	< 0.1 U	< 0.1 U	**2.5**	**130**	**19.9**	**10**	**4.5**	**1.4**	**31**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nH-6-15	nH-6-15	nH-6-15	nH-6-15	nH-6-15	nH-6-15	nH-6-15	nH-6-15	nI-27-15	nI-7-15
Sample Depth (ft):	14-16	16-18	18-20	20-22	22-24	24-26	26-28	28-30	0-2	0-2
Date Sampled:	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	7/7/2015	5/5/2015
Sample ID:	nH-6-15 (14-16)	nH-6-15 (16-18)	nH-6-15 (18-20)	nH-6-15 (20-22)	nH-6-15 (22-24)	nH-6-15 (24-26)	nH-6-15 (26-28)	nH-6-15 (28-30)	nI-27-15 (0-2)	nI-7-15(0-2)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.11	< 0.11	< 0.1	< 0.11	< 0.11	< 0.51	< 0.1	< 0.55 J	< 0.018	< 1.1
Aroclor 1221	< 0.11	< 0.11	< 0.1	< 0.11	< 0.11	< 0.51	< 0.1	< 0.55 J	< 0.018	< 1.1
Aroclor 1232	< 0.11	< 0.11	< 0.1	< 0.11	< 0.11	< 0.51	< 0.1	< 0.55 J	< 0.018	< 1.1
Aroclor 1242	**0.054 J**	< 0.11	**0.039 J**	< 0.11	< 0.11	**4.6**	**0.088 J**	**5.5**	< 0.018	**10**
Aroclor 1248	< 0.11	< 0.11	< 0.1	< 0.11	< 0.11	< 0.51	< 0.1	< 0.55	< 0.018	< 1.1
Aroclor 1254	< 0.11	< 0.11	< 0.1	< 0.11	< 0.11	< 0.51	< 0.1	< 0.55	< 0.018	**1.3**
Aroclor 1260	**0.048 J**	< 0.11	< 0.1	< 0.11	< 0.11	< 0.51	< 0.1	< 0.55	< 0.018	< 1.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.102**	< 0.11 U	**0.039**	< 0.11 U	< 0.11 U	**4.6**	**0.088**	**5.5**	< 0.018 U	**11.3**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nl-7-15	nl-7-15	nl-7-15	nl-7-15	nl-7-15	nl-7-15	nl-7-15	nl-7-15	nl-7-15	nl-7-15
Sample Depth (ft):	2-4	2-4	4-6	4-6	6-8	8-10	10-12	12-14	14-16	16-18
Date Sampled:	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015
Sample ID:	DUP050515DJM2	nl-7-15(2-4)	nl-7-15(4-6)	)UP050515DJM	nl-7-15(6-8)	nl-7-15(8-10)	nl-7-15(10-12)	nl-7-15(12-14)	nl-7-15(14-16)	nl-7-15(16-18)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.56	< 2.2	< 1	< 1.1	< 0.53	< 5.5	< 11	< 0.1	< 0.52	< 2.1
Aroclor 1221	< 0.56	< 2.2	< 1	< 1.1	< 0.53	< 5.5	< 11	< 0.1	< 0.52	< 2.1
Aroclor 1232	< 0.56	< 2.2	< 1	< 1.1	< 0.53	< 5.5	< 11	< 0.1	< 0.52	< 2.1
Aroclor 1242	**4.9**	**20**	**12**	**16**	**3.2**	**56**	**85**	< 0.1	< 0.52	< 2.1
Aroclor 1248	< 0.56	< 2.2	< 1	< 1.1	< 0.53	< 5.5	< 11	**0.22**	**3.3**	**3.4**
Aroclor 1254	< 0.56	< 2.2	< 1	< 1.1	**0.68**	< 5.5	< 11	**0.2**	**3.9**	**4.4**
Aroclor 1260	< 0.56	< 2.2	< 1	< 1.1	0.46 J	< 5.5	< 11	< 0.1	< 0.52	< 2.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**4.9**	**20**	**12**	**16**	**4.34**	**56**	**85**	**0.42**	**7.2**	**7.8**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nI-7-15	nI-7-15	nI-7-15	nI-7-15	nI-7-15	nI-7-15	nK-26-15	nK-7-15	nK-7-15	nK-7-15
Sample Depth (ft):	18-20	20-22	22-24	24-26	26-28	28-30	0-2	0-2	2-4	2-4
Date Sampled:	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	7/7/2015	5/5/2015	5/5/2015	5/5/2015
Sample ID:	nI-7-15(18-20)	nI-7-15(20-22)	nI-7-15(22-24)	nI-7-15(24-26)	nI-7-15(26-28)	nI-7-15(28-30)	nK-26-15 (0-2)	nK-7-15(0-2)	)UP050515DJM	nK-7-15(2-4)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.092	< 2.2	< 1.1	< 2.2
Aroclor 1221	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.092	< 2.2	< 1.1	< 2.2
Aroclor 1232	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.092	< 2.2	< 1.1	< 2.2
Aroclor 1242	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.092	< 2.2	**17**	< 2.2
Aroclor 1248	**10**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.092	**18**	< 1.1	**26**
Aroclor 1254	**12**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.54**	< 2.2	< 1.1	< 2.2
Aroclor 1260	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.092	< 2.2	< 1.1	< 2.2
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**22**	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	**0.54**	**18**	**17**	**26**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nK-7-15	nK-7-15	nK-7-15	nK-7-15	nK-7-15	nK-7-15	nK-7-15	nK-7-15	nK-7-15	nK-7-15
Sample Depth (ft):	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20	20-22	22-24
Date Sampled:	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015
Sample ID:	nK-7-15(4-6)	nK-7-15(6-8)	nK-7-15(8-10)	nK-7-15(10-12)	nK-7-15(12-14)	nK-7-15(14-16)	nK-7-15(16-18)	nK-7-15(18-20)	nK-7-15(20-22)	nK-7-15(22-24)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 2.2	< 0.12	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.099	< 0.1
Aroclor 1221	< 2.2	< 0.12	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.099	< 0.1
Aroclor 1232	< 2.2	< 0.12	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.099	< 0.1
Aroclor 1242	**18**	< 0.12	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.099	< 0.1
Aroclor 1248	< 2.2	< 0.12	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.099	< 0.1
Aroclor 1254	< 2.2	< 0.12	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.099	< 0.1
Aroclor 1260	< 2.2	< 0.12	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.099	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**18**	< 0.12 U	< 0.11 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.099 U	< 0.1 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nK-7-15	nK-7-15	nK-7-15	nL-22-15	nL-22-15	nL-22-15	nL-22-15	nL-22-15	nL-22-15	nL-22-15
Sample Depth (ft):	24-26	26-28	28-30	0-2	2-4	4-6	6-8	8-10	10-12	12-14
Date Sampled:	5/5/2015	5/5/2015	5/5/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015
Sample ID:	nK-7-15(24-26)	nK-7-15(26-28)	nK-7-15(28-30)	nL-22-15(0-2)	nL-22-15(2-4)	nL-22-15(4-6)	nL-22-15(6-8)	nL-22-15(8-10)	nL-22-15(10-12)	nL-22-15(12-14)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.12	< 0.1	< 0.1
Aroclor 1221	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.12	< 0.1	< 0.1
Aroclor 1232	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.12	< 0.1	< 0.1
Aroclor 1242	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.12	< 0.1	< 0.1
Aroclor 1248	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.11	**0.14**	< 0.1	< 0.1
Aroclor 1254	< 0.1	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.11	**0.063 J**	< 0.1	< 0.1
Aroclor 1260	< 0.1	< 0.1	< 0.1	**0.15**	**0.18**	**0.065 J**	< 0.11	**0.15**	< 0.1	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.1 U	< 0.1 U	< 0.1 U	**0.15**	**0.18**	**0.065**	< 0.11 U	**0.353**	< 0.1 U	< 0.1 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nL-22-15	nL-22-15	nL-22-15	nL-22-15	nL-22-15	nL-22-15	nL-22-15	nL-22-15	nL-26-15	nM-14-15
Sample Depth (ft):	14-16	16-18	18-20	20-22	22-24	24-26	26-28	28-30	0-2	0-2
Date Sampled:	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	7/7/2015	5/11/2015
Sample ID:	nL-22-15(14-16)	nL-22-15(16-18)	nL-22-15(18-20)	nL-22-15(20-22)	nL-22-15(22-24)	nL-22-15(24-26)	nL-22-15(26-28)	nL-22-15(28-30)	nL-26-15 (0-2)	DUP051115DM1
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.11	< 0.12	< 0.1	< 0.019	< 0.11
Aroclor 1221	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.11	< 0.12	< 0.1	< 0.019	< 0.11
Aroclor 1232	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.11	< 0.12	< 0.1	< 0.019	< 0.11
Aroclor 1242	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.11	< 0.12	< 0.1	< 0.019	< 0.11
Aroclor 1248	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.11	< 0.12	< 0.1	< 0.019	**1.2**
Aroclor 1254	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.11	< 0.12	< 0.1	< 0.019	**0.57**
Aroclor 1260	< 0.1	< 0.1	< 0.1	< 0.11	< 0.1	< 0.11	< 0.12	< 0.1	< 0.019	< 0.11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.1 U	< 0.1 U	< 0.1 U	< 0.11 U	< 0.1 U	< 0.11 U	< 0.12 U	< 0.1 U	< 0.019 U	1.77

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nM-14-15	nM-14-15	nM-14-15	nM-14-15	nM-14-15	nM-14-15	nM-14-15	nM-14-15	nM-14-15	nM-14-15
Sample Depth (ft):	0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20
Date Sampled:	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015
Sample ID:	nM-14-15(0-2)	nM-14-15(2-4)	nM-14-15(4-6)	nM-14-15(6-8)	nM-14-15(8-10)	nM-14-15(10-12)	nM-14-15(12-14)	nM-14-15(14-16)	nM-14-15(16-18)	nM-14-15(18-20)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.58	< 0.53	< 0.12	< 0.11	< 0.097	< 0.1	< 0.097	< 0.1	< 0.1	< 0.097
Aroclor 1221	< 0.58	< 0.53	< 0.12	< 0.11	< 0.097	< 0.1	< 0.097	< 0.1	< 0.1	< 0.097
Aroclor 1232	< 0.58	< 0.53	< 0.12	< 0.11	< 0.097	< 0.1	< 0.097	< 0.1	< 0.1	< 0.097
Aroclor 1242	< 0.58	**10**	**1.3**	**0.41**	**0.25**	< 0.1	< 0.097	**1.5**	< 0.1	< 0.097
Aroclor 1248	**7.5**	< 0.53	< 0.12	< 0.11	< 0.097	< 0.1	< 0.097	< 0.1	< 0.1	< 0.097
Aroclor 1254	**0.59 P**	**2.2**	**0.29**	**0.087 J**	**0.074 J**	< 0.1	< 0.097	**0.24**	< 0.1	< 0.097
Aroclor 1260	< 0.58	< 0.53	**0.1 JP**	< 0.11	< 0.097	< 0.1	< 0.097	< 0.1	< 0.1	< 0.097
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**8.09**	**12.2**	**1.69**	**0.497**	**0.324**	< 0.1 U	< 0.097 U	**1.74**	< 0.1 U	< 0.097 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nM-14-15	nM-14-15	nM-14-15	nM-14-15	nM-14-15	nM-6-15	nM-6-15	nM-6-15	nM-6-15	nM-6-15
Sample Depth (ft):	20-22	22-24	24-26	26-28	28-30	0-2	2-4	2-4	4-6	6-8
Date Sampled:	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Sample ID:	nM-14-15(20-22)	nM-14-15(22-24)	nM-14-15(24-26)	nM-14-15(26-28)	nM-14-15(28-30)	nM-6-15(0-2)	nM-6-15(2-4)	DUP050715DD2	nM-6-15(4-6)	nM-6-15(6-8)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1	< 1.1	< 0.11	< 0.52	< 0.54	< 0.11
Aroclor 1221	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1	< 1.1	< 0.11	< 0.52	< 0.54	< 0.11
Aroclor 1232	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1	< 1.1	< 0.11	< 0.52	< 0.54	< 0.11
Aroclor 1242	**0.099 J**	< 0.11	**0.14**	< 0.1	**0.092 J**	< 1.1	< 0.11	< 0.52	< 0.54	< 0.11
Aroclor 1248	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1	**9**	**1.7**	**6**	**4.6**	< 0.11
Aroclor 1254	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1	< 1.1	< 0.11	< 0.52	**1.8**	< 0.11
Aroclor 1260	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1	< 1.1	**0.41**	< 0.52	< 0.54	< 0.11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.099**	< 0.11 U	**0.14**	< 0.1 U	**0.092**	**9**	**2.11**	**6**	**6.4**	< 0.11 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nM-6-15	nM-6-15	nM-6-15	nM-6-15	nM-6-15	nM-6-15	nM-6-15	nM-6-15	nM-6-15	nM-6-15
Sample Depth (ft):	8-10	10-12	12-14	14-16	16-18	18-20	20-22	22-24	24-26	26-28
Date Sampled:	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Sample ID:	nM-6-15(8-10)	nM-6-15(10-12)	nM-6-15(12-14)	nM-6-15(14-16)	nM-6-15(16-18)	nM-6-15(18-20)	nM-6-15(20-22)	nM-6-15(22-24)	nM-6-15(24-26)	nP-6-15(26-28)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.099	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1221	< 0.099	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1232	< 0.099	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1242	< 0.099	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1248	< 0.099	< 0.1	< 0.1	**0.064 J**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1254	< 0.099	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1260	< 0.099	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.099 U	< 0.1 U	< 0.1 U	**0.064**	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nM-6-15	nN-16-15	nN-16-15	nN-16-15	nN-16-15	nN-16-15	nN-16-15	nN-16-15	nN-16-15	nN-16-15
Sample Depth (ft):	28-30	0-2	2-4	4-6	6-8	8-10	10-12	10-12	12-14	14-16
Date Sampled:	5/7/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015
Sample ID:	nM-6-15(28-30)	nN-16-15(0-2)	nN-16-15(2-4)	nN-16-15(4-6)	nN-16-15(6-8)	nN-16-15(8-10)	nN-16-15(10-12)	DUP051115TM2(10-12)	nN-16-15(12-14)	nN-16-15(14-16)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.099	< 0.1	< 0.11	< 0.11	< 0.12	< 0.13	< 0.1	< 2.2	< 0.1	< 0.1
Aroclor 1221	< 0.099	< 0.1	< 0.11	< 0.11	< 0.12	< 0.13	< 0.1	< 2.2	< 0.1	< 0.1
Aroclor 1232	< 0.099	< 0.1	< 0.11	< 0.11	< 0.12	< 0.13	< 0.1	< 2.2	< 0.1	< 0.1
Aroclor 1242	< 0.099	< 0.1	**0.058 J**	< 0.11	< 0.12	< 0.13	< 0.1	**42**	< 0.1	< 0.1
Aroclor 1248	< 0.099	**0.1 P**	< 0.11	< 0.11	< 0.12	< 0.13	< 0.1	< 2.2	< 0.1	< 0.1
Aroclor 1254	< 0.099	**0.095 J**	< 0.11	< 0.11	< 0.12	< 0.13	< 0.1	< 2.2	< 0.1	< 0.1
Aroclor 1260	< 0.099	< 0.1	< 0.11	< 0.11	< 0.12	< 0.13	< 0.1	< 2.2	< 0.1	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.099 U	**0.195**	**0.058**	< 0.11 U	< 0.12 U	< 0.13 U	< 0.1 U	**42**	< 0.1 U	< 0.1 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nN-16-15	nN-16-15	nN-16-15	nN-16-15	nN-16-15	nN-16-15	nN-16-15	nN-16-15	nO-14-15	nO-14-15
Sample Depth (ft):	16-18	18-20	20-22	22-24	24-26	26-28	28-30	28-30	0-2	2-4
Date Sampled:	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015
Sample ID:	nN-16-15(16-18)	nN-16-15(18-20)	nN-16-15(20-22)	nN-16-15(22-24)	nN-16-15(24-26)	nN-16-15(26-28)	nN-16-15(28-30)	DUP051115DM2	nO-14-15(0-2)	nO-14-15(2-4)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 2.1
Aroclor 1221	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 2.1
Aroclor 1232	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 2.1
Aroclor 1242	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	**18**
Aroclor 1248	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1	**0.3**	< 2.1
Aroclor 1254	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1	**0.2**	< 2.1
Aroclor 1260	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1	< 0.11	< 2.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.1 U	< 0.1 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.1 U	< 0.1 U	< 0.1 U	**0.5**	**18**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nO-14-15	nO-14-15	nO-14-15	nO-14-15	nO-14-15	nO-14-15	nO-14-15	nO-14-15	nO-14-15	nO-14-15
Sample Depth (ft):	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20	20-22	22-24
Date Sampled:	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015
Sample ID:	nO-14-15(4-6)	nO-14-15(6-8)	nO-14-15(8-10)	nO-14-15(10-12)	nO-14-15(12-14)	nO-14-15(14-16)	nO-14-15(16-18)	nO-14-15(18-20)	nO-14-15(20-22)	nO-14-15(22-24)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 2.4	< 0.11	< 1.1	< 0.1	< 1	< 0.1	< 0.1	< 2.1	< 2	< 0.1
Aroclor 1221	< 2.4	< 0.11	< 1.1	< 0.1	< 1	< 0.1	< 0.1	< 2.1	< 2	< 0.1
Aroclor 1232	< 2.4	< 0.11	< 1.1	< 0.1	< 1	< 0.1	< 0.1	< 2.1	< 2	< 0.1
Aroclor 1242	**22**	< 0.11	**11**	< 0.1	**9.2**	< 0.1	**0.024 J**	**12**	**19**	< 0.1
Aroclor 1248	< 2.4	< 0.11	< 1.1	< 0.1	< 1	< 0.1	< 0.1	< 2.1	< 2	< 0.1
Aroclor 1254	< 2.4	< 0.11	< 1.1	< 0.1	< 1	< 0.1	< 0.1	< 2.1	< 2	< 0.1
Aroclor 1260	< 2.4	< 0.11	< 1.1	< 0.1	< 1	< 0.1	< 0.1	< 2.1	< 2	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**22**	< 0.11 U	**11**	< 0.1 U	**9.2**	< 0.1 U	**0.024**	**12**	**19**	< 0.1 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nO-14-15	nO-14-15	nO-14-15	nO-15-15	nO-15-15	nO-15-15	nO-15-15	nO-15-15	nO-15-15	nO-15-15
Sample Depth (ft):	24-26	26-28	28-30	0-2	2-4	4-6	6-8	8-10	10-12	12-14
Date Sampled:	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015
Sample ID:	nO-14-15(24-26)	nO-14-15(26-28)	nO-14-15(28-30)	nO-15-15(0-2)	nO-15-15(2-4)	nO-15-15(4-6)	nO-15-15(6-8)	nO-15-15(8-10)	nO-15-15(10-12)	nO-15-15(12-14)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.51	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.11	< 0.1
Aroclor 1221	< 0.51	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.11	< 0.1
Aroclor 1232	< 0.51	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.11	< 0.1
Aroclor 1242	**6.2**	**0.23**	< 0.1	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.11	< 0.1
Aroclor 1248	< 0.51	< 0.1	< 0.1	< 0.11	**0.59**	**0.63**	< 0.1	< 0.1	< 0.11	< 0.1
Aroclor 1254	< 0.51	< 0.1	< 0.1	**0.42**	**0.13**	**0.27**	< 0.1	< 0.1	< 0.11	< 0.1
Aroclor 1260	< 0.51	< 0.1	< 0.1	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1	< 0.11	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**6.2**	**0.23**	< 0.1 U	**0.42**	**0.72**	**0.9**	< 0.1 U	< 0.1 U	< 0.11 U	< 0.1 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nO-15-15	nO-15-15	nO-15-15	nO-15-15	nO-15-15	nO-15-15	nO-15-15	nO-15-15	nP-16-15	nP-16-15
Sample Depth (ft):	14-16	16-18	18-20	20-22	22-24	24-26	26-28	28-30	0-2	2-4
Date Sampled:	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015
Sample ID:	nO-15-15(14-16)	nO-15-15(16-18)	nO-15-15(18-20)	nO-15-15(20-22)	nO-15-15(22-24)	nO-15-15(24-26)	nO-15-15(26-28)	nO-15-15(28-30)	nP-16-15(0-2)	nP-16-15(2-4)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1221	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1232	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1242	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1248	< 0.1	< 0.1	**0.54**	**0.13**	< 0.1	**0.044 J**	**0.041 J**	< 0.1	**0.34**	< 0.11
Aroclor 1254	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	**0.18**	**0.14**
Aroclor 1260	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.1 U	< 0.1 U	**0.54**	**0.13**	< 0.1 U	**0.044**	**0.041**	< 0.1 U	**0.52**	**0.14**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nP-16-15	nP-16-15	nP-16-15	nP-16-15	nP-16-15	nP-16-15	nP-16-15	nP-16-15	nP-16-15	nP-16-15
Sample Depth (ft):	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20	20-22	22-24
Date Sampled:	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015
Sample ID:	nP-16-15(4-6)	nP-16-15(6-8)	nP-16-15(8-10)	nP-16-15(10-12)	nP-16-15(12-14)	nP-16-15(14-16)	nP-16-15(16-18)	nP-16-15(18-20)	nP-16-15(20-22)	nP-16-15(22-24)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.55	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1221	< 0.55	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1232	< 0.55	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1242	< 0.55	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	**0.48**
Aroclor 1248	**2.2**	< 0.1	< 0.11	**0.055 J**	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1254	< 0.55	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1260	< 0.55	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**2.2**	< 0.1 U	< 0.11 U	**0.055**	< 0.11 U	< 0.1 U	< 0.11 U	< 0.1 U	< 0.1 U	**0.48**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nP-16-15	nP-16-15	nP-16-15	nP-16-15	nP-19-15	nP-19-15	nP-19-15	nP-19-15	nP-19-15	nP-19-15
Sample Depth (ft):	24-26	26-28	26-28	28-30	0-2	2-4	4-6	6-8	8-10	10-12
Date Sampled:	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015
Sample ID:	nP-16-15(24-26)	nP-16-15(26-28)	DUP051115DM3	nP-16-15(28-30)	nP-19-15(0-2)	nP-19-15(2-4)	nP-19-15(4-6)	nP-19-15(6-8)	nP-19-15(8-10)	nP-19-15(10-12)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11	< 11	< 0.54	< 0.12	< 0.1	< 2.1
Aroclor 1221	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11	< 11	< 0.54	< 0.12	< 0.1	< 2.1
Aroclor 1232	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11	< 11	< 0.54	< 0.12	< 0.1	< 2.1
Aroclor 1242	< 0.11	< 0.11	**0.14**	< 0.11	< 0.11	**98 P**	**1.5**	< 0.12	< 0.1	**23**
Aroclor 1248	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11	< 11	< 0.54	< 0.12	< 0.1	< 2.1
Aroclor 1254	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11	< 11	< 0.54	< 0.12	< 0.1	< 2.1
Aroclor 1260	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11	< 11	< 0.54	< 0.12	< 0.1	< 2.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.11 U	< 0.11 U	**0.14**	< 0.11 U	< 0.11 U	**98**	**1.5**	< 0.12 U	< 0.1 U	**23**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nP-19-15	nP-19-15	nP-19-15	nP-19-15	nP-19-15	nP-19-15	nP-19-15	nP-19-15	nP-19-15	nP-6-15
Sample Depth (ft):	12-14	14-16	16-18	18-20	20-22	22-24	24-26	26-28	28-30	0-2
Date Sampled:	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/7/2015
Sample ID:	nP-19-15(12-14)	nP-19-15(14-16)	nP-19-15(16-18)	nP-19-15(18-20)	nP-19-15(20-22)	nP-19-15(22-24)	nP-19-15(24-26)	nP-19-15(26-28)	nP-19-15(28-30)	nP-6-15(0-2)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.54
Aroclor 1221	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.54
Aroclor 1232	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.54
Aroclor 1242	< 0.1	< 0.11	< 0.1	**0.72**	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.54
Aroclor 1248	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.11	**1**	< 0.1	**0.32**	**4.5**
Aroclor 1254	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.54
Aroclor 1260	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.54
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.1 U	< 0.11 U	< 0.1 U	**0.72**	< 0.1 U	< 0.11 U	**1**	< 0.1 U	**0.32**	**4.5**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nP-6-15	nP-6-15	nP-6-15	nP-6-15	nP-6-15	nP-6-15	nP-6-15	nP-6-15	nP-6-15	nP-6-15
Sample Depth (ft):	2-4	4-6	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20
Date Sampled:	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Sample ID:	nP-6-15(2-4)	nP-6-15(4-6)	DUP050715DD3	nP-6-15(6-8)	nP-6-15(8-10)	nP-6-15(10-12)	nP-6-15(12-14)	nP-6-15(14-16)	nP-6-15(16-18)	nP-6-15(18-20)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 6.7	< 0.11	< 0.11	< 1.1	< 0.12	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1221	< 6.7	< 0.11	< 0.11	< 1.1	< 0.12	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1232	< 6.7	< 0.11	< 0.11	< 1.1	< 0.12	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1242	< 6.7	< 0.11	< 0.11	< 1.1	< 0.12	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1248	**83**	**0.71**	**0.93**	**9.1**	**0.087 J**	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1254	< 6.7	< 0.11	**1.4**	< 1.1	**0.11 JP**	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1260	< 6.7	**0.41 P**	**0.46 P**	< 1.1	< 0.12	< 0.11	< 0.11	< 0.1	< 0.1	< 0.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**83**	**1.12**	**2.79**	**9.1**	**0.197**	< 0.11 U	< 0.11 U	< 0.1 U	< 0.1 U	< 0.1 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nP-6-15	nP-6-15	nP-6-15	nP-6-15	nP-6-15	nR-19-15	nR-19-15	nR-19-15	nR-19-15	nR-19-15
Sample Depth (ft):	20-22	22-24	24-26	26-28	28-30	0-2	2-4	4-6	6-8	8-10
Date Sampled:	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015	5/11/2015
Sample ID:	nP-6-15(20-22)	nP-6-15(22-24)	nP-6-15(24-26)	nP-6-15(26-28)	nP-6-15(28-30)	nR-19-15(0-2)	nR-19-15(2-4)	nR-19-15(4-6)	nR-19-15(6-8)	nR-19-15(8-10)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.12	< 0.11	< 2.2	< 0.11	< 0.12
Aroclor 1221	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.12	< 0.11	< 2.2	< 0.11	< 0.12
Aroclor 1232	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.12	< 0.11	< 2.2	< 0.11	< 0.12
Aroclor 1242	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.12	**1.1**	**32**	< 0.11	< 0.12
Aroclor 1248	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.88**	< 0.11	< 2.2	< 0.11	< 0.12
Aroclor 1254	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.3**	< 0.11	< 2.2	< 0.11	< 0.12
Aroclor 1260	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.12	< 0.11	< 2.2	< 0.11	< 0.12
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	**1.18**	**1.1**	**32**	< 0.11 U	< 0.12 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nS-18-15	nS-18-15	nS-18-15	nT-18-15	nT-18-15	nT-18-15	nT-19-15	nT-19-15	nT-19-15	nV-17-15
Sample Depth (ft):	0-2	2-4	4-6	0-2	2-4	4-6	0-2	2-4	4-6	0-0.15
Date Sampled:	5/12/2015	5/12/2015	5/12/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	4/24/2015
Sample ID:	nS-18-15(0-2)	nS-18-15(2-4)	nS-18-15(4-6)	nT-18-15 (0-2)	nT-18-15 (2-4)	nT-18-15 (4-6)	nT-19-15 (0-2)	nT-19-15 (2-4)	nT-19-15 (4-6)	nV-17-15
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.091	< 0.089	< 0.018	< 0.11	< 0.1	< 0.11	< 0.1	< 1.1	< 1.1	< 0.13
Aroclor 1221	< 0.091	< 0.089	< 0.018	< 0.11	< 0.1	< 0.11	< 0.1	< 1.1	< 1.1	< 0.13
Aroclor 1232	< 0.091	< 0.089	< 0.018	< 0.11	< 0.1	< 0.11	< 0.1	< 1.1	< 1.1	< 0.13
Aroclor 1242	< 0.091	< 0.089	< 0.018	< 0.11	< 0.1	< 0.11	< 0.1	< 1.1	< 1.1	< 0.13
Aroclor 1248	**1.1**	**0.42**	**0.033**	**0.34**	< 0.1	**0.14**	< 0.1	**12**	**11**	< 0.13
Aroclor 1254	< 0.091	< 0.089	**0.021**	< 0.11	< 0.1	**0.083 J**	< 0.1	< 1.1	< 1.1	**0.039 J**
Aroclor 1260	< 0.091	< 0.089	< 0.018	< 0.11	< 0.1	< 0.11	< 0.1	< 1.1	< 1.1	< 0.13
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**1.1**	**0.42**	**0.054**	**0.34**	< 0.1 U	**0.223**	< 0.1 U	**12**	**11**	**0.039**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nW-17-15	nY-17-15	nZZD-25-15	nZZD-27-15	nZZE-26-15	nZZE-26-15	nZZG-26-15	nZZI-26-15	nZZJ-27-15	nZZK-26-15
Sample Depth (ft):	0-0.15	0-0.15	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
Date Sampled:	4/24/2015	4/24/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015
Sample ID:	nW-17-15	nY-17-15	nZZD-25-15 (0-2)	nZZD-27-15 (0-2)	nZZE-26-15 (0-2)	DUP070715DM2	nZZG-26-15 (0-2)	nZZI-26-15 (0-2)	nZZJ-27-15 (0-2)	nZZK-26-15 (0-2)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.12	< 0.11	< 0.02	< 0.018	< 0.018	< 0.017	< 0.017	< 0.018	< 0.017	< 0.017
Aroclor 1221	< 0.12	< 0.11	< 0.02	< 0.018	< 0.018	< 0.017	< 0.017	< 0.018	< 0.017	< 0.017
Aroclor 1232	< 0.12	< 0.11	< 0.02	< 0.018	< 0.018	< 0.017	< 0.017	< 0.018	< 0.017	< 0.017
Aroclor 1242	< 0.12	< 0.11	< 0.02	< 0.018	< 0.018	< 0.017	< 0.017	< 0.018	< 0.017	< 0.017
Aroclor 1248	< 0.12	**0.087 J**	< 0.02	< 0.018	< 0.018	< 0.017	< 0.017	< 0.018	< 0.017	< 0.017
Aroclor 1254	**0.13 J**	**0.085 J**	< 0.02	< 0.018	< 0.018	< 0.017	< 0.017	< 0.018	< 0.017	< 0.017
Aroclor 1260	< 0.12	< 0.11	< 0.02	< 0.018	< 0.018	< 0.017	< 0.017	< 0.018	< 0.017	< 0.017
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.13**	**0.172**	< 0.02 U	< 0.018 U	< 0.018 U	< 0.017 U	< 0.017 U	< 0.018 U	< 0.017 U	< 0.017 U

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nZZK-27-15	nZZM-26-15	nZZM-26-15	nZZO-26-15	nZZP-27-15	nZZQ-26-15	nZZQ-27-15	Q-17-15	Q-17-15	Q-17-15
Sample Depth (ft):	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	2-4	4-6
Date Sampled:	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	5/11/2015	5/11/2015	5/11/2015
Sample ID:	nZZK-27-15 (0-2)	nZZM-26-15 (0-2)	DUP070715DM1	nZZO-26-15 (0-2)	nZZP-27-15 (0-2)	nZZQ-26-15 (0-2)	nZZQ-27-15 (0-2)	Q-17-15(0-2)	Q-17-15(2-4)	Q-17-15(4-6)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.088	< 0.018	< 0.019	< 0.018	< 0.018	< 0.017	< 0.018	< 0.11	< 0.11	< 1.1
Aroclor 1221	< 0.088	< 0.018	< 0.019	< 0.018	< 0.018	< 0.017	< 0.018	< 0.11	< 0.11	< 1.1
Aroclor 1232	< 0.088	< 0.018	< 0.019	< 0.018	< 0.018	< 0.017	< 0.018	< 0.11	< 0.11	< 1.1
Aroclor 1242	< 0.088	< 0.018	< 0.019	< 0.018	< 0.018	< 0.017	< 0.018	< 0.11	< 0.11	**11**
Aroclor 1248	**0.026 JP**	< 0.018	< 0.019	< 0.018	**0.0098 JP**	< 0.017	**0.015 JP**	**0.39**	**0.28**	< 1.1
Aroclor 1254	< 0.088	< 0.018	< 0.019	< 0.018	< 0.018	< 0.017	< 0.018	**0.13**	**0.1 J**	< 1.1
Aroclor 1260	< 0.088	< 0.018	< 0.019	< 0.018	< 0.018	< 0.017	< 0.018	< 0.11	< 0.11	< 1.1
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.026**	< 0.018 U	< 0.019 U	< 0.018 U	**0.0098**	< 0.017 U	**0.015**	**0.52**	**0.38**	**11**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	Q-17-15	Q-17-15	AI-21-15	nAA-17-15	nAA-22-15	nAD-17-15	nAI-18-15	nAJ-22-15	nV-22-15	X-22-15
Sample Depth (ft):	6-8	8-10	0-0.16	0-0.16	0-0.16	0-0.16	0-0.16	0-0.16	0-0.16	0-0.16
Date Sampled:	5/11/2015	5/11/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015
Sample ID:	Q-17-15(6-8)	Q-17-15(8-10)	AI-21-15(0-2 in)	nAA-17-15(0-2 in)	nAA-22-15(0-2 in)	nAD-17-15(0-2 in)	nAI-18-15(0-2 in)	nAJ-22-15(0-2 in)	nV-22-15(0-2 in)	X-22-15(0-2 in)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.12	< 0.11	<0.60	<0.53	<0.12	<0.55	<0.11	<0.59	<0.58	< 0.15
Aroclor 1221	< 0.12	< 0.11	<0.60	<0.53	<0.12	<0.55	<0.11	<0.59	<0.58	< 0.15
Aroclor 1232	< 0.12	< 0.11	<0.60	<0.53	<0.12	<0.55	<0.11	<0.59	<0.58	< 0.15
Aroclor 1242	< 0.12	< 0.11	<0.60	<0.53	<0.12	<0.55	<0.11	<0.59	<0.58	< 0.15
Aroclor 1248	< 0.12	< 0.11	**1.9**	<0.53	**0.17**	<0.55	**0.33**	**1.2**	<0.58	**0.13 J**
Aroclor 1254	< 0.12	< 0.11	**0.97**	<0.53	**0.42**	<0.55	**1**	**1**	<0.58	**0.28**
Aroclor 1260	< 0.12	< 0.11	<0.60	<0.53	<0.12	<0.55	<0.11	<0.59	<0.58	< 0.15
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	< 0.12 U	< 0.11 U	**2.8**	<0.53	**0.59**	<0.55	**1.3**	**2.2**	<0.58	**0.41**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	ZZB-27-15	ZZC-26-15	nAL-27-15	nAN-26-15	nAO-27-15	nAU-26-15	nAX-27-15	nBA-27-15	nBD-27-15	nBF-26-15
Sample Depth (ft):	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
Date Sampled:	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015
Sample ID:	ZZB-27-15 (0-2)	ZZC-26-15 (0-2)	nAL-27-15 (0-2)	nAN-26-15 (0-2)	nAO-27-15 (0-2)	nAU-26-15 (0-2)	nAX-27-15 (0-2)	nBA-27-15 (0-2)	nBD-27-15 (0-2)	nBF-26-15 (0-2)
CONSTITUENT (unit in mg/kg)										
Aroclor 1016	< 0.018	< 0.018	< 0.11	< 0.11	< 0.099	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1221	< 0.018	< 0.018	< 0.11	< 0.11	< 0.099	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1232	< 0.018	< 0.018	< 0.11	< 0.11	< 0.099	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1242	< 0.018	< 0.018	< 0.11	< 0.11	< 0.099	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1248	< 0.018	**0.011 J**	< 0.11	< 0.11	< 0.099	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1254	**0.0087 J**	< 0.018	**0.04 J**	< 0.11	**0.4**	< 0.11	< 0.11	< 0.11	**0.13**	**0.093 J**
Aroclor 1260	< 0.018	< 0.018	< 0.11	< 0.11	< 0.099	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1262	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--	--	--	--	--
Total PCBs	**0.0087**	**0.011**	**0.04**	<0.77	**0.4**	<0.77	<0.77	<0.77	**0.13**	**0.093**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:	nM-26-15	nO-27-15	nQ-27-15	nS-26-15	nV-26-15	nZ-27-15
Sample Depth (ft):	0-2	0-2	0-2	0-2	0-2	0-2
Date Sampled:	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015
Sample ID:	nM-26-15 (0-2)	nO-27-15 (0-2)	nQ-27-15 (0-2)	nS-26-15 (0-2)	nV-26-15 (0-2)	nZ-27-15 (0-2)
CONSTITUENT (unit in mg/kg)						
Aroclor 1016	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1221	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1232	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1242	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1248	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	**0.11**
Aroclor 1254	< 0.12	< 0.11	**0.14**	< 0.11	< 0.11	< 0.11
Aroclor 1260	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Aroclor 1262	--	--	--	--	--	--
Aroclor 1268	--	--	--	--	--	--
Total PCBs	<0.84	<0.77	**0.14**	<0.77	<0.77	**0.11**

Notes and Abbreviations on last page.

Table 4. Concentrations of PCB Aroclors and Total PCBs in Soil Samples by EPA Method 8082, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Notes and Abbreviations:

1. Results validated following protocols specified in March 2006 RI/FS Work Plan (ARCADIS G&M, Inc. 2006).
2. Samples analyzed for PCBs by fixed base laboratory using USEPA Method 8082.
3. Samples analyzed on a dry weight basis.

4. Sample depth as a single value represents the midpoint of sample interval. Sample depth listed as a range represents the interval where the sample was collected.

Total PCBs are rounded to two significant numbers.

Bold value indicates a detection

indicates sample collected from 0-2 ft has Total PCBs greater than 1 ppm

indicates sample collected from 2-10 ft has Total PCBs greater than 10 ppm

indicates sample collected from below 10 ft has Total PCBs greater than 50 ppm

Italicized are samples collected by Cardno ATC.

RI/FS	Remedial Investigation/Feasibility Study
USEPA	United States Environmental Protection Agency
PCB	Polychlorinated biphenyl
ft	Feet below original land surface
mg/kg	Milligrams per kilogram
J	Value is estimated

ARCADIS

Table 5. Comparison of Screening Method and Confirmatory Method Total PCB results, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Sample ID	Screening Method Total PCB Concentration** (mg/kg)	Confirmatory Method Total PCB Concentration** (mg/kg)	Are Screening Method and Confirmatory Concentrations Method Consistent with regard to the 1 mg/kg, 10 mg/kg or 50 mg/kg criteria?
M-19-14_3	220	78	Yes (>50 ppm)
N-20-14_3	ND	0.30	Yes (<1 ppm)
O-12-14_3	ND	0.10	Yes (<1 ppm)
C-5-14_5	14	5.80	NO
M-19-14_5	230	100	Yes (>50 ppm)
M-20-14_5	190	110	Yes (>50 ppm)
O-12-14_5	14	14	Yes (<10 ppm)
C-16-14_7	ND	0.50	Yes (<1 ppm)
C-18-14_7	ND	0.40	Yes (<1 ppm)
M-13-14_7	ND	27	NO
C-6-14_9	ND	0.25	Yes (<1 ppm)
M-16-14_9	ND	0	Yes (<1 ppm)
M-19-14_9	56	28	NO
O-20-14_9	ND	0.03	Yes (<1 ppm)
A-13-14_11	47	11	Yes (<10 ppm)
E-5-14_11	35	15	Yes (<10 ppm)
O-10-14_11	6300	15000	Yes (>50 ppm)
O-10-14_13	3300	2200	Yes (>50 ppm)
O-11-14_13	5400	1900	Yes (>50 ppm)
O-9-14_13	2600	290	Yes (>50 ppm)
P-10-14_13	6700	4800	Yes (>50 ppm)
P-10-14_15	1200	650	Yes (>50 ppm)
C-13-14_17	41	46	Yes (<50 ppm)
E-13-14_17	97	69	Yes (>50 ppm)
P-10-14_17	23	13	Yes (<10 ppm)
E-4-14_19	ND	0.59	Yes (<1 ppm)
E-11-14_23	16	25	Yes (<10 ppm)

Notes and Abbrevation:

Screening Method is Modified USEPA 8082 Method

Confirmatory Method is USEPA 8082 Method

mg/kg milligrams per kilogram

ND Not detected

PCB polychlorinated biphenyl

Table 6. Concentrations of PCBs in QA/QC Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Sample Name:	FB110414	FB110614	FB110714	FB111014	FB111214	FB111314	FB111414	FB111714	FB120314	Field Blank	FB011215NC	FB120514	FB120814	FB121514
Sample Date:	11/4/2014	11/6/2014	11/7/2014	11/10/2014	11/12/2014	11/13/2014	11/14/2014	11/17/2014	12/3/2014	12/4/2014	1/12/2015	12/5/2014	12/8/2014	12/15/2014
CONSTITUENT (unit in ug/L)														
Aroclor 1016	< 0.46	< 0.43	< 0.44	< 0.41	< 0.42	< 0.44	< 0.41	< 0.43	< 0.43	< 0.45	< 0.44	< 0.40	< 0.41	< 0.43
Aroclor 1221	< 0.46	< 0.43	< 0.44	< 0.41	< 0.42	< 0.44	< 0.41	< 0.43	< 0.43	< 0.45	< 0.44	< 0.40	< 0.41	< 0.43
Aroclor 1232	< 0.46	< 0.43	< 0.44	< 0.41	< 0.42	< 0.44	< 0.41	< 0.43	< 0.43	< 0.45	< 0.44	< 0.40	< 0.41	< 0.43
Aroclor 1242	< 0.46	< 0.43	< 0.44	< 0.41	< 0.42	< 0.44	< 0.41	< 0.43	< 0.43	< 0.45	< 0.44	< 0.40	< 0.41	< 0.43
Aroclor 1248	< 0.46	< 0.43	< 0.44	< 0.41	< 0.42	< 0.44	< 0.41	< 0.43	< 0.43	< 0.45	< 0.44	< 0.40	< 0.41	< 0.43
Aroclor 1254	< 0.46	< 0.43	< 0.44	< 0.41	< 0.42	< 0.44	< 0.41	< 0.43	< 0.43	< 0.45	< 0.44	< 0.40	< 0.41	< 0.43
Aroclor 1260	< 0.46	< 0.43	< 0.44	< 0.41	< 0.42	< 0.44	< 0.41	< 0.43	< 0.43	< 0.45	< 0.44	< 0.40	< 0.41	< 0.43
Total PCBs	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes and Abbreviations on last page.

Table 6. Concentrations of PCBs in QA/QC Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Sample Name:	FB042415SL	FB050415SL	FB050515	FB050715	FB050815	FB051115	FB051215	FB070715DM1
Sample Date:	4/24/2015	5/4/2015	5/5/2015	5/7/2015	5/8/2015	5/11/2015	5/12/2015	7/7/2015
CONSTITUENT (unit in ug/L)								
Aroclor 1016	< 0.38	< 0.46	< 0.41	< 0.43	< 0.49	< 0.40	< 0.42	< 0.47
Aroclor 1221	< 0.38	< 0.46	< 0.41	< 0.43	< 0.49	< 0.40	< 0.42	< 0.47
Aroclor 1232	< 0.38	< 0.46	< 0.41	< 0.43	< 0.49	< 0.40	< 0.42	< 0.47
Aroclor 1242	< 0.38	< 0.46	< 0.41	< 0.43	< 0.49	< 0.40	< 0.42	< 0.47
Aroclor 1248	< 0.38	< 0.46	< 0.41	< 0.43	< 0.49	< 0.40	< 0.42	< 0.47
Aroclor 1254	< 0.38	< 0.46	< 0.41	< 0.43	< 0.49	< 0.40	< 0.42	< 0.47
Aroclor 1260	< 0.38	< 0.46	< 0.41	< 0.43	< 0.49	< 0.40	< 0.42	< 0.47
Total PCBs	0	0	0	0	0	0	0	0

Notes and Abbreviations:

1. Results validated following protocols specified in March 2006 RI/FS Work Plan (ARCADIS G&M, Inc. 2006).
2. Samples analyzed for PCBs by fixed base laboratory using USEPA Method 8082.

USEPA United States Environmental Protection Agency
RI/FS Remedial Investigation/Feasibility Study
PCB Polychlorinated biphenyl
ug/L Micrograms per litre
FB Field Blank

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	A-14-14	A-14-14	A-14-14	A-14-14	C-10-14	C-10-14	C-10-14	C-10-14	C-14-14	C-14-14	C-14-14
	Sample Depth (ft):	3	5	7	9	3	5	7	9	3	5	7
	Date Sampled:	12/3/2014	12/3/2014	12/3/2014	12/3/2014	11/7/2014	11/7/2014	11/7/2014	11/7/2014	11/10/2014	11/10/2014	11/10/2014
	Sample ID:	A-14-14_3	A-14-14_5	A-14-14_7	A-14-14_9	C-10-14_3	C-10-14_5	C-10-14_7	C-10-14_9	C-14-14_3	C-14-14_5	C-14-14_7
CONSTITUENT (unit in mg/kg)												
	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**3.11 J**	**5.47**	**3.59 J**	**3.90 J**	< 4.4 BJ	**3.9 J**	**4.9 J**	**2.4 J**	**6.1 J**	**3.4 J**	**3.6 J**
Cadmium	4.3	**2.16**	**2.84**	**2.23**	**5.41**	**0.79 J**	< 1.1 J	**6.9 J**	**1.9 J**	**1 J**	**0.77 J**	**3.8 J**
Chromium	180	**75.7**	**90**	**53.2**	**203**	**37 J**	**22 J**	**190 J**	**58 J**	**32 J**	**61 J**	**260 J**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	C-14-14	C-16-14	C-16-14	C-16-14	C-16-14	C-18-14	C-18-14	C-18-14	C-18-14	C-18-14
	Sample Depth (ft):	9	3	5	7	9	3	3	5	7	9
	Date Sampled:	11/10/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014
	Sample ID:	C-14-14_9	C-16-14_3	C-16-14_5	C-16-14_7	C-16-14_9	C-18-14_3	REP 120314 NC1	C-18-14_5	C-18-14_7	C-18-14_9
CONSTITUENT (unit in mg/kg)											
	NYSDEC Part 375 Restricted-Residential Use SCO										
Arsenic	16	**4.6 J**	**2.34 J**	**3.89 J**	**3.65 J**	**3.56 J**	**5.82**	**2.70 J**	**3.30 J**	**2.25 J**	**3.34 J**
Cadmium	4.3	**5.4 J**	**0.463 J**	**1.06**	**4.08**	**2.87**	**0.755 J**	**0.414 J**	**1.65**	**3.48**	**5.82**
Chromium	180	**310 J**	**38.1**	**29.3**	**321**	**189**	**24.5**	**17.5**	**53.3**	**196**	**455**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	C-4-14	C-4-14	C-4-14	C-4-14	C-5-14	C-5-14	C-5-14	C-5-14	C-6-14	C-6-14
	Sample Depth (ft):	3	5	7	9	3	5	7	9	3	3
	Date Sampled:	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014
	Sample ID:	C-4-14_3	C-4-14_5	C-4-14_7	C-4-14_9	C-5-14_3	C-5-14_5	C-5-14_7	C-5-14_9	C-6-14_3	REP 120314 NC2
CONSTITUENT (unit in mg/kg)											
	NYSDEC Part 375 Restricted-Residential Use SCO										
Arsenic	16	**3.96 J**	**3.96 J**	**6.91**	**5.1**	**5.24**	**3.36 J**	**5.49**	**6.77**	**4.73**	**5.11**
Cadmium	4.3	**2.72**	**11.6**	**175**	**2.51**	**0.451 J**	**0.105 J**	**1.42**	**2.46**	**2.97**	**8.53**
Chromium	180	**147**	**1230**	**5680**	**47.4**	**16**	**15.3**	**64.3**	**617**	**200**	**529**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	C-6-14	C-6-14	C-6-14	C-8-14	C-8-14	C-8-14	C-8-14	E-10-14	E-10-14	E-10-14	E-10-14
	Sample Depth (ft):	5	7	9	3	5	7	9	3	5	7	9
	Date Sampled:	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014
	Sample ID:	C-6-14_5	C-6-14_7	C-6-14_9	C-8-14_3	C-8-14_5	C-8-14_7	C-8-14_9	E-10-14_3	E-10-14_5	E-10-14_7	E-10-14_9
CONSTITUENT (unit in mg/kg)												
	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**9.51**	< 5.41	**2.55 J**	**2.31 J**	**2.64 J**	**3.55 J**	**13.9**	**2 J**	**1.5 J**	**3.8 J**	**6.1 J**
Cadmium	4.3	**0.703 J**	**4.58**	**4.57**	**1.59**	**1.26**	**1.7**	**19.4**	**0.91 J**	**1.8 J**	**1.7 J**	**7.9 J**
Chromium	180	**101**	**10800**	**941**	**85.2**	**56.2**	**199**	**2460**	**30 J**	**42 J**	**58 J**	**180 J**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO	E-11-14	E-11-14	E-11-14	E-11-14	E-18-14	E-18-14	E-18-14	E-18-14	E-6-14	E-6-14	E-6-14
Boring ID:		E-11-14	E-11-14	E-11-14	E-11-14	E-18-14	E-18-14	E-18-14	E-18-14	E-6-14	E-6-14	E-6-14
Sample Depth (ft):		3	5	7	9	3	5	7	9	3	5	7
Date Sampled:		12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/3/2014	12/3/2014	12/3/2014
Sample ID:		E-11-14_3	E-11-14_5	E-11-14_7	E-11-14_9	E-18-14_3	E-18-14_5	E-18-14_7	E-18-14_9	E-6-14_3	E-6-14_5	E-6-14_7
Arsenic	16	**1.92 J**	**0.898 J**	**3.49 J**	**5.79**	**3.74 J**	**3.57 J**	**8.76**	**5.34**	**3.16 J**	**4.38**	**2.50 J**
Cadmium	4.3	**0.150 J**	**0.162 J**	**6.3**	**7.23**	**0.0829 J**	**2.37**	**10.3**	**9.06**	**3.11**	**9.27**	**7.53**
Chromium	180	**21.8**	**9.94**	**215**	**261**	**31.3**	**65.5**	**87.9**	**188**	**104**	**480**	**2290**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	E-6-14	E-8-14	E-8-14	E-8-14	E-8-14	E-9-14	E-9-14	E-9-14	E-9-14	F-10-14	F-10-14
	Sample Depth (ft):	9	3	5	7	9	3	5	7	9	3	5
	Date Sampled:	12/3/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014
	Sample ID:	E-6-14_9	E-8-14_3	E-8-14_5	E-8-14_7	E-8-14_9	E-9-14_3	E-9-14_5	E-9-14_7	E-9-14_9	F-10-14_3	F-10-14_5
CONSTITUENT (unit in mg/kg)												
	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**2.08 J**	**4.2 J**	**3.2 J**	**2.4 J**	**4.9 J**	**2.99 J**	**3.55 J**	**2.67 J**	**2.08 J**	**6.1**	**2.88 J**
Cadmium	4.3	**44.5**	**4.9 J**	**3.9 J**	**2.9 J**	**19 J**	**11.7**	**1.36**	**4.08**	**2.79**	**1.28**	**0.736 J**
Chromium	180	**1230**	**200 J**	**150 J**	**120 J**	**700 J**	**220**	**62**	**124**	**238**	**81.6**	**39.8**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	F-10-14	F-10-14	F-11-14	F-11-14	F-11-14	F-11-14	F-15-14	F-15-14	F-15-14	F-15-14	F-8-14
	Sample Depth (ft):	7	9	3	5	7	9	3	5	7	9	3
	Date Sampled:	12/4/2014	12/4/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	12/4/2014
	Sample ID:	F-10-14_7	F-10-14_9	F-11-14_3	F-11-14_5	F-11-14_7	F-11-14_9	F-15-14_3	F-15-14_5	F-15-14_7	F-15-14_9	F-8-14_3
CONSTITUENT (unit in mg/kg)												
	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**6.56**	**6.16**	**3.6 J**	< 4.4 J	**5.5 J**	**4.7 J**	**1.5 J**	< 4.4 J	**4.4 J**	**3.1 J**	**5.53**
Cadmium	4.3	**2.36**	**3.04**	**2 J**	**0.07 J**	**9.8 J**	**5.6 J**	< 1.1 J	**0.83 J**	**5.6 J**	**13 J**	**4.55**
Chromium	180	**63.3**	**94.2**	**140 J**	**5.4 J**	**110 J**	**100 J**	**20 J**	**43 J**	**120 J**	**330 J**	**487**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	F-8-14	F-8-14	F-8-14	F-9-14	F-9-14	F-9-14	F-9-14	G-10-14	G-10-14	G-10-14	G-10-14
	Sample Depth (ft):	5	7	9	3	5	7	9	3	5	7	9
	Date Sampled:	12/4/2014	12/4/2014	12/4/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014
	Sample ID:	F-8-14_5	F-8-14_7	F-8-14_9	F-9-14_3	F-9-14_5	F-9-14_7	F-9-14_9	G-10-14_3	G-10-14_5	G-10-14_7	G-10-14_9
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**4.38**	**7.24**	**5.55**	**2.9 J**	< 4.2 J	**1.7 J**	**17 J**	**2.9 J**	< 4.2 J	**4.9 J**	**12 J**
Cadmium	4.3	**2.7**	**15**	**10.5**	**2.2 J**	**0.3 J**	**0.76 J**	**13 J**	**1.6 J**	**0.16 J**	**18 J**	**11 J**
Chromium	180	**184**	**846**	**2050**	**190 J**	**9.5 J**	**32 J**	**430 J**	**120 J**	**4.5 J**	**320 J**	**260 J**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	G-11-14	G-11-14	G-11-14	G-11-14	G-18-14	G-18-14	G-18-14	G-6-14	G-6-14	G-6-14	G-6-14
	Sample Depth (ft):	3	5	7	9	3	5	7	3	5	7	9
	Date Sampled:	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014
	Sample ID:	G-11-14_3	G-11-14_5	G-11-14_7	G-11-14_9	G-18-14_3	G-18-14_5	G-18-14_7	G-6-14_3	G-6-14_5	G-6-14_7	G-6-14_9
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**6.94**	**5.09**	**5.58**	**6.43**	**3.79 J**	**5.35**	**4.02 J**	**5.21**	**3.69 J**	**5.75**	**6.97**
Cadmium	4.3	**0.299 J**	**8.32**	**12.2**	**21.2**	**0.221 J**	**9.46**	**1.25 J**	**18.2**	**2.27**	**61.9**	**21.9**
Chromium	180	**28.3**	**639**	**355**	**241**	**13.8**	**90.6**	**40.7**	**1490**	**120**	**4860**	**7660**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	G-8-14	G-8-14	G-8-14	G-8-14	G-9-14	G-9-14	G-9-14	G-9-14	H-10-14	H-10-14	H-10-14
	Sample Depth (ft):	3	5	7	9	3	5	7	9	3	5	7
	Date Sampled:	11/6/2014	11/6/2014	11/6/2014	11/6/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/8/2014	12/8/2014	12/8/2014
	Sample ID:	G-8-14_3	G-8-14_5	G-8-14_7	G-8-14_9	G-9-14_3	G-9-14_5	G-9-14_7	G-9-14_9	H-10-14_3	H-10-14_5	H-10-14_7
CONSTITUENT (unit in mg/kg)												
	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**4.8 J**	**4.5 J**	**6.8 J**	**4.3 J**	**5.17**	**5.2**	**12.3**	**5.55**	**2.34 J**	**4.34**	**3.67 J**
Cadmium	4.3	**6.1 J**	**6.6 J**	**16 J**	**11 J**	**1.39**	**4.42**	**2.67**	**12.1**	**1.17**	**47.6**	**21**
Chromium	180	**200 J**	**200 J**	**3800 J**	**2500 J**	**76.9**	**88.1**	**116**	**676**	**33.1 J**	**155 J**	**416 J**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO	H-10-14	H-11-14	H-11-14	H-11-14	H-11-14	H-11-14	H-11-14	H-11-14	H-11-14
Boring ID:		H-10-14	H-11-14	H-11-14	H-11-14	H-11-14	H-11-14	H-11-14	H-11-14	H-11-14
Sample Depth (ft):		9	3	3	5	5	7	7	9	9
Date Sampled:		12/8/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014
Sample ID:		H-10-14_9	H-11-14_3	REP111314DM1	H-11-14_5	REP111314DM2	H-11-14_7	REP111314DM3	H-11-14_9	REP111314DM4
Arsenic	16	**5.22**	**1.2 J**	**2.18 J**	**2.4 J**	**2.75 J**	**4.8 J**	**5.7**	**6 J**	**5.57**
Cadmium	4.3	**8.64**	**0.77 J**	**1.27**	**1.8 J**	**1.86**	**28 J**	**22.9**	< 1.1 J	< 1.00
Chromium	180	**135 J**	**34 J**	**60.9 J**	**52 J**	**49.9**	**380 J**	**312**	**9.5 J**	**5.12**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	H-14-14	H-8-14	H-8-14	H-8-14	H-8-14	H-9-14	H-9-14	H-9-14	H-9-14
	Sample Depth (ft):	19	3	5	7	9	3	3	5	5
	Date Sampled:	12/8/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014
	Sample ID:	REP 120814 DM1	H-8-14_3	H-8-14_5	H-8-14_7	H-8-14_9	H-9-14_3	REP111214DM10	H-9-14_5	REP111214DM11
CONSTITUENT (unit in mg/kg)										
	NYSDEC Part 375 Restricted-Residential Use SCO									
Arsenic	16	**2.50 J**	**6.42**	**6.46**	**6.42**	**6.1**	**2.1 J**	**2.84 J**	**7 J**	**6.85**
Cadmium	4.3	**0.974 J**	**2.58**	**11.5**	**12.5**	**15.9**	**2.5 J**	**3.74**	**8.5 J**	**5.63**
Chromium	180	**45.4**	**287**	**324**	**374**	**2670**	**150 J**	**191**	**440 J**	**406**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	H-9-14	H-9-14	H-9-14	H-9-14	I-10-14	I-10-14	I-10-14	I-10-14	I-11-14	I-11-14
	Sample Depth (ft):	7	7	9	9	3	5	7	9	3	5
	Date Sampled:	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	12/8/2014	12/8/2014
	Sample ID:	H-9-14_7	REP111214DM12	H-9-14_9	REP111214DM13	I-10-14_3	I-10-14_5	I-10-14_7	I-10-14_9	I-11-14_3	I-11-14_5
CONSTITUENT (unit in mg/kg)											
	NYSDEC Part 375 Restricted-Residential Use SCO										
Arsenic	16	**3.8 J**	**2.90 J**	**4.3 J**	**2.12 J**	**2 J**	**3.4 J**	**3 J**	**4.1 J**	**4.03 J**	**4.46**
Cadmium	4.3	**3.4 J**	**2.44**	**5.3 J**	**2.79**	**0.44 J**	**20 J**	**4.4 J**	**6.5 J**	**1.86**	**7.99**
Chromium	180	**180 J**	**62.8**	**420 J**	**149**	**31 J**	**230 J**	**100 J**	**190 J**	**136**	**95.3**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO	I-11-14	I-11-14	I-11-14	I-12-14	I-12-14	I-12-14	I-12-14	I-16-14	I-16-14	I-16-14
Sample Depth (ft):		7	9	19	3	5	7	9	3	5	7
Date Sampled:		12/8/2014	12/8/2014	12/8/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014
Sample ID:		I-11-14_7	I-11-14_9	REP 120814 DM2	I-12-14_3	I-12-14_5	I-12-14_7	I-12-14_9	I-16-14_3	I-16-14_5	I-16-14_7
Arsenic	16	**1.56 J**	**5.46**	**16.3**	**3 J**	**4.2 J**	**4.3 J**	**5 J**	**1.9 J**	**3.9 J**	**3.9 J**
Cadmium	4.3	**0.653 J**	**7.5**	**0.585 J**	**0.19 J**	**8.6 J**	**5.5 J**	**15 J**	**0.35 J**	**5.8 J**	**6.4 J**
Chromium	180	**27.4**	**172**	**32.7**	**27 J**	**210 J**	**90 J**	**270 J**	**19 J**	**120 J**	**100 J**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	I-16-14	I-18-14	I-18-14	I-18-14	I-18-14	I-20-14	I-20-14	I-20-14	I-20-14	I-6-14	I-6-14
	Sample Depth (ft):	9	3	5	7	9	3	5	7	9	3	5
	Date Sampled:	11/13/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/8/2014	12/8/2014
	Sample ID:	I-16-14_9	I-18-14_3	I-18-14_5	I-18-14_7	I-18-14_9	I-20-14_3	I-20-14_5	I-20-14_7	I-20-14_9	I-6-14_3	I-6-14_5
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**6 J**	**4.49**	**6.38**	**6.75**	**5.49**	**2.32 J**	**4.08 J**	**4.88**	**6.02**	**5.22**	**4.66**
Cadmium	4.3	**11 J**	**0.0833 J**	**9.08**	**8.44**	**7.05**	**0.475 J**	**7.35**	**6.42**	**11.2**	**15.7**	**12.2**
Chromium	180	**150 J**	**36.9**	**370**	**171**	**131**	**23.2**	**163**	**309**	**80.6**	**1820 J**	**515 J**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	I-6-14	I-6-14	I-8-14	I-8-14	I-8-14	I-8-14	I-8-14	I-8-14	I-8-14
	Sample Depth (ft):	7	9	3	3	5	5	7	7	8
	Date Sampled:	12/8/2014	12/8/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014
	Sample ID:	I-6-14_7	I-6-14_9	I-8-14_3	REP111314DM5	I-8-14_5	REP111314DM6	I-8-14_7	REP111314DM7	REP111314DM8
CONSTITUENT (unit in mg/kg)										
	NYSDEC Part 375 Restricted-Residential Use SCO									
Arsenic	16	**6.49**	**1.53 J**	**3.4 J**	**4.2**	**4.2 J**	**6.32**	**4.3 J**	**6.39**	**5.83**
Cadmium	4.3	**785**	**51**	**6.8 J**	**9.56**	**6.8 J**	**8.38**	**13 J**	**10.7**	**34**
Chromium	180	**806 J**	**1230 J**	**220 J**	**282**	**450 J**	**446**	**750 J**	**548**	**733**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	I-8-14	I-9-14	I-9-14	I-9-14	I-9-14	J-10-14	J-10-14	J-10-14	J-10-14	J-11-14	J-11-14
	Sample Depth (ft):	9	3	5	7	9	3	5	7	9	3	5
	Date Sampled:	11/13/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	11/13/2014	11/13/2014
	Sample ID:	I-8-14_9	I-9-14_3	I-9-14_5	I-9-14_7	I-9-14_9	J-10-14_3	J-10-14_5	J-10-14_7	J-10-14_9	J-11-14_3	J-11-14_5
CONSTITUENT (unit in mg/kg)												
	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**3.1 J**	**2.91 J**	**4.77**	**5.77**	**6.67**	**4.71**	**6.97**	**5.53**	**6.18**	**0.88 J**	**5.8 J**
Cadmium	4.3	**16 J**	**2.49**	**40.8**	**7.75**	**3.37**	**0.0584 J**	**11.1**	**8.36 J**	**13.8 J**	**0.18 J**	**11 J**
Chromium	180	**530 J**	**63.4 J**	**322 J**	**240 J**	**145 J**	**19.9**	**237**	**170**	**426**	**17 J**	**260 J**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	J-11-14	J-11-14	J-12-14	J-12-14	J-12-14	J-12-14	J-18-14	J-18-14	J-18-14	J-18-14	J-19-14
	Sample Depth (ft):	7	9	3	5	7	9	5	7	9	17	3
	Date Sampled:	11/13/2014	11/13/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	11/13/2014	11/13/2014	11/13/2014	11/13/2014	12/5/2014
	Sample ID:	J-11-14_7	J-11-14_9	J-12-14_3	J-12-14_5	J-12-14_7	J-12-14_9	J-18-14_5	J-18-14_7	J-18-14_9	J-18-14_3	J-19-14_3
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**9.7 J**	**8.1 J**	**6.66**	**3.64 J**	**4.3**	**4.90 J**	**3.7 J**	**3.2 J**	**5.8 J**	**1.9 J**	**3.49 J**
Cadmium	4.3	**11 J**	**18 J**	**1.12**	**3.88**	**10.6**	**6.51**	**5.6 J**	**3.4 J**	**6.7 J**	**0.49 J**	**0.207 J**
Chromium	180	**260 J**	**450 J**	**55.4**	**130**	**148**	**74.2**	**110 J**	**57 J**	**93 J**	**24 J**	**35.8**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	J-19-14	J-19-14	J-19-14	J-20-14	J-20-14	J-20-14	J-20-14	J-4-14	J-4-14	J-4-14	J-4-14
	Sample Depth (ft):	5	7	9	3	5	7	9	3	5	7	9
	Date Sampled:	12/5/2014	12/5/2014	12/5/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/7/2014	11/7/2014	11/7/2014	11/7/2014
	Sample ID:	J-19-14_5	J-19-14_7	J-19-14_9	J-20-14_3	J-20-14_5	J-20-14_7	J-20-14_9	J-4-14_3	J-4-14_5	J-4-14_7	J-4-14_9
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**4.49**	**5.63**	**10.7**	**3 J**	**3.4 J**	**3.6 J**	**5 J**	**1.6 J**	**1.6 J**	**1.4 J**	**1.2 J**
Cadmium	4.3	**7.05**	**6.09**	**3.23**	**0.71 J**	**9 J**	**6.7 J**	**7.3 J**	**3.5 J**	**3.9 J**	**3 J**	**1.4 J**
Chromium	180	**127**	**109**	**101**	**23 J**	**380 J**	**120 J**	**110 J**	**93 J**	**50 J**	**40 J**	**16 J**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	J-5-14	J-5-14	J-5-14	J-5-14	J-8-14	J-8-14	J-8-14	J-8-14	J-9-14	J-9-14	J-9-14
	Sample Depth (ft):	3	5	7	9	3	5	7	9	3	5	7
	Date Sampled:	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	11/13/2014	11/13/2014	11/13/2014
	Sample ID:	J-5-14_3	J-5-14_5	J-5-14_7	J-5-14_9	J-8-14_3	J-8-14_5	J-8-14_7	J-8-14_9	J-9-14_3	J-9-14_5	J-9-14_7
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**8.04**	**9.79**	**2.44 J**	< 17.6	**3.02 J**	**5.53**	**7.81**	**9.12**	**8.6 J**	**4.8 J**	**6.1 J**
Cadmium	4.3	**8.07**	**5.16**	**968**	**1390**	**1.64**	**6.44**	**7.84**	**8.92**	**3.2 J**	**11 J**	**11 J**
Chromium	180	**357**	**298**	**41800**	**53600**	**55.9**	**317**	**377**	**293**	**81 J**	**490 J**	**640 J**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	J-9-14	K-10-14	K-10-14	K-10-14	K-10-14	K-11-14	K-11-14	K-11-14	K-11-14	K-12-14	K-12-14
	Sample Depth (ft):	9	3	5	7	9	3	5	7	9	3	5
	Date Sampled:	11/13/2014	11/7/2014	11/7/2014	11/7/2014	11/7/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014
	Sample ID:	J-9-14_9	K-10-14_3	K-10-14_5	K-10-14_7	K-10-14_9	K-11-14_3	K-11-14_5	K-11-14_7	K-11-14_9	K-12-14_3	K-12-14_5
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**6.8 J**	**2.3 J**	**4.8 J**	**5 J**	**6 J**	**4.01 J**	**8.65**	**6.36**	**7.56**	**3.60 J**	**5.04**
Cadmium	4.3	**5.8 J**	**2.8 J**	**8.1 J**	**5 J**	**3.2 J**	**2.34**	**9.9**	**12.2**	**9.37**	**0.130 J**	**6.21**
Chromium	180	**190 J**	**80 J**	**220 J**	**150 J**	**85 J**	**78.5**	**218**	**243**	**271**	**35.5**	**159**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	K-12-14	K-12-14	K-14-14	K-14-14	K-14-14	K-14-14	K-16-14	K-16-14	K-16-14	K-16-14	K-18-14
	Sample Depth (ft):	7	9	3	5	7	9	3	5	7	9	3
	Date Sampled:	12/4/2014	12/4/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014
	Sample ID:	K-12-14_7	K-12-14_9	K-14-14_3	K-14-14_5	K-14-14_7	K-14-14_9	K-16-14_3	K-16-14_5	K-16-14_7	K-16-14_9	K-18-14_3
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**6.91**	**6.1**	**2 J**	**4.6 J**	**4.3 J**	**5.5 J**	**3.74 J**	**6.65**	**5.25**	**5.14**	**5.54**
Cadmium	4.3	**8.03**	**22.2**	**0.4 J**	**11 J**	**6.3 J**	**5.5 J**	**0.406 J**	**4.51**	**7.27**	**3.2**	**12.6**
Chromium	180	**220**	**430**	**23 J**	**240 J**	**140 J**	**120 J**	**233**	**105**	**123**	**69.7**	**113**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	K-18-14	K-18-14	K-18-14	K-19-14	K-19-14	K-19-14	K-19-14	K-20-14	K-20-14	K-20-14	K-20-14
	Sample Depth (ft):	5	7	9	3	5	7	9	3	5	7	9
	Date Sampled:	12/4/2014	12/4/2014	12/4/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014
	Sample ID:	K-18-14_5	K-18-14_7	K-18-14_9	K-19-14_3	K-19-14_5	K-19-14_7	K-19-14_9	K-20-14_3	K-20-14_5	K-20-14_7	K-20-14_9
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**2.56 J**	**22**	**5.01**	**2.8 J**	**6.4 J**	**7.9 J**	**4.2 J**	**2.67 J**	**3.94 J**	**3.68 J**	**5.32**
Cadmium	4.3	**0.531 J**	**4.25**	**5.83**	**0.29 J**	**7.9 J**	**6.5 J**	**12 J**	**0.152 J**	**5.05**	**1.87**	**7.2**
Chromium	180	**71.4**	**111**	**68.9**	**60 J**	**160 J**	**480 J**	**100 J**	**18.6**	**276**	**86.8**	**137**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	K-21-14	K-21-14	K-21-14	K-21-14	K-3-14	K-3-14	K-3-14	K-3-14	K-4-14	K-4-14	K-4-14
	Sample Depth (ft):	3	5	7	9	3	5	7	9	3	5	7
	Date Sampled:	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/7/2014	11/7/2014	11/7/2014	11/7/2014	11/7/2014	11/7/2014	11/7/2014
	Sample ID:	K-21-14_3	K-21-14_5	K-21-14_7	K-21-14_9	K-3-14_3	K-3-14_5	K-3-14_7	K-3-14_9	K-4-14_3	K-4-14_5	K-4-14_7
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**3.1 J**	**3.4 J**	**20 J**	**1.3 J**	**4.6 J**	**10 J**	**4.2 J**	**7.9 J**	**7 J**	**8.4 J**	**6.2 J**
Cadmium	4.3	**1.6 J**	**13 J**	**8.4 J**	**1 J**	**3.4 J**	**9.7 J**	**17 J**	**17 J**	**3.6 J**	**10 J**	**7 J**
Chromium	180	**130 J**	**560 J**	**490 J**	**52 J**	**150 J**	**160 J**	**320 J**	**310 J**	**240 J**	**290 J**	**61 J**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	K-4-14	K-5-14	K-5-14	K-5-14	K-5-14	K-8-14	K-8-14	K-8-14	K-8-14	K-9-14	K-9-14
	Sample Depth (ft):	9	3	5	7	9	3	5	7	9	3	5
	Date Sampled:	11/7/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	12/5/2014	12/5/2014
	Sample ID:	K-4-14_9	K-5-14_3	K-5-14_5	K-5-14_7	K-5-14_9	K-8-14_3	K-8-14_5	K-8-14_7	K-8-14_9	K-9-14_3	K-9-14_5
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**5.3 J**	**4.18 J**	**3.87 J**	**1.05 J**	**1.10 J**	**4 J**	**5.5 J**	**7.9 J**	**4.7 J**	**1.86 J**	**5.01**
Cadmium	4.3	**3.4 J**	**24.5 J**	**93.2 J**	**15.3 J**	**8.13 J**	**35 J**	**22 J**	**170 J**	**11 J**	**0.366 J**	**17.8 J**
Chromium	180	**95 J**	**910**	**4250**	**146**	**91.9**	**650 J**	**460 J**	**3000 J**	**190 J**	**22.4**	**376**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	K-9-14	K-9-14	K-9-14	L-11-14	L-11-14	L-11-14	L-11-14	L-12-14	L-12-14	L-12-14
	Sample Depth (ft):	7	7	9	3	5	7	9	3	5	7
	Date Sampled:	12/5/2014	12/5/2014	12/5/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	11/6/2014	11/6/2014	11/6/2014
	Sample ID:	K-9-14_7	REP 120514 DM1	K-9-14_9	L-11-14_3	L-11-14_5	L-11-14_7	L-11-14_9	L-12-14_3	L-12-14_5	L-12-14_7
CONSTITUENT (unit in mg/kg)											
	NYSDEC Part 375 Restricted-Residential Use SCO										
Arsenic	16	**4.35**	**5.78**	**4.61**	**5.47 J**	**6.00 J**	**7.74 J**	**6.64 J**	**1.8 J**	**6.1 J**	**7.3 J**
Cadmium	4.3	**27.4 J**	**40.3**	**13.1 J**	**9.09 J**	**16.7 J**	**14.6 J**	**3.64 J**	**0.19 J**	**6.5 J**	**6.5 J**
Chromium	180	**588**	**760**	**526**	**151**	**439**	**999**	**229**	**28 J**	**180 J**	**130 J**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	L-12-14	L-13-14	L-13-14	L-13-14	L-13-14	L-18-14	L-18-14	L-18-14	L-18-14	L-19-14	L-19-14
	Sample Depth (ft):	9	3	5	7	9	3	5	7	9	3	5
	Date Sampled:	11/6/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	12/4/2014	12/4/2014
	Sample ID:	L-12-14_9	L-13-14_3	L-13-14_5	L-13-14_7	L-13-14_9	L-18-14_3	L-18-14_5	L-18-14_7	L-18-14_9	L-19-14_3	L-19-14_5
CONSTITUENT (unit in mg/kg)												
	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**5.1 J**	**5.16 J**	**4.50 J**	**5.71 J**	**7.14 J**	**1.4 J**	**6.5 J**	**9.6 J**	**4.2 J**	**2.98 J**	**4.76 J**
Cadmium	4.3	**6.7 J**	**1.74 J**	**1.26 J**	**4.32 J**	**3.12 J**	**0.36 J**	**8.1 J**	**4.5 J**	**6.6 J**	**0.259 J**	**6.55 J**
Chromium	180	**110 J**	**62.8**	**162**	**111**	**84.3**	**24 J**	**140 J**	**93 J**	**99 J**	**45.3**	**98.5**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	L-19-14	L-19-14	L-20-14	L-20-14	L-20-14	L-20-14	L-21-14	L-21-14	L-21-14	L-21-14
	Sample Depth (ft):	7	9	3	5	7	9	3	5	7	7
	Date Sampled:	12/4/2014	12/4/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014
	Sample ID:	L-19-14_7	L-19-14_9	L-20-14_3	L-20-14_5	L-20-14_7	L-20-14_9	L-21-14_3	L-21-14_5	L-21-14_7	REP 120414 DM3
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO										
Arsenic	16	**4.49 J**	**5.05 J**	**3.4 J**	**4.7 J**	**3.4 J**	**5.2 J**	**3.36 J**	**3.01 J**	**5.06 J**	**5.98**
Cadmium	4.3	**7.68 J**	**8.10 J**	**0.72 J**	**7.3 J**	**8.8 J**	**3.6 J**	**2.89 J**	**3.75 J**	**3.48 J**	**5.86**
Chromium	180	**96.3**	**140**	**25 J**	**120 J**	**98 J**	**73 J**	**212**	**189**	**136**	**128**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	L-21-14	M-10-14	M-10-14	M-10-14	M-10-14	M-11-14	M-11-14	M-11-14	M-11-14	M-12-14	M-12-14
	Sample Depth (ft):	9	3	5	7	9	3	5	7	9	3	5
	Date Sampled:	12/4/2014	12/5/2014	12/5/2014	12/5/2014	12/5/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014
	Sample ID:	L-21-14_9	M-10-14_3	M-10-14_5	M-10-14_7	M-10-14_9	M-11-14_3	M-11-14_5	M-11-14_7	M-11-14_9	M-12-14_3	M-12-14_5
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**4.24 J**	**4.56**	**8.64**	**5.49**	**0.722 J**	**1.37 J**	**5.62**	**2.67 J**	**2.99 J**	**4.56**	**4.00 J**
Cadmium	4.3	**6.43 J**	**15.7 J**	**6.98 J**	**0.136 J**	< 1.01	< 1.05	**7.09**	< 1.06	< 1.03	**1.74**	**1.31**
Chromium	180	**101**	**538**	**204**	**214**	**23**	**6.82**	**163**	**41.7**	**10.3**	**63.4**	**23.4**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	M-12-14	M-12-14	M-12-14	M-13-14	M-13-14	M-13-14	M-13-14	M-14-14	M-14-14	M-14-14
	Sample Depth (ft):	7	7	9	3	5	7	9	3	5	7
	Date Sampled:	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014
	Sample ID:	M-12-14_7	REP 120414 DM2	M-12-14_9	M-13-14_3	M-13-14_5	M-13-14_7	M-13-14_9	M-14-14_3	M-14-14_5	M-14-14_7
CONSTITUENT (unit in mg/kg)											
	NYSDEC Part 375 Restricted-Residential Use SCO										
Arsenic	16	**4.44**	**2.06 J**	**2.14 J**	**2.46 J**	**6.01**	**4.49**	**1.5 J**	**2.63 J**	**4.47**	**6.66**
Cadmium	4.3	**22.7**	< 1.06	**0.276 J**	< 1.07	**6.32**	**6.63**	< 1.1	**0.202 J**	**5.16**	**6.34**
Chromium	180	**2280**	**112**	**249**	**12.2**	**144**	**249**	**2.7 J**	**16.1**	**133**	**63.4**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	M-14-14	M-16-14	M-16-14	M-16-14	M-16-14	M-18-14	M-18-14	M-18-14	M-18-14	M-19-14	M-19-14
	Sample Depth (ft):	9	3	5	7	9	3	5	7	9	3	5
	Date Sampled:	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	12/4/2014	12/4/2014
	Sample ID:	M-14-14_9	M-16-14_3	M-16-14_5	M-16-14_7	M-16-14_9	M-18-14_3	M-18-14_5	M-18-14_7	M-18-14_9	M-19-14_3	M-19-14_5
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**4.9**	**2.30 J**	**5.44**	**7.14**	**1.79 J**	**2 J**	**5.5 J**	**4.8 J**	**1.2 J**	**4.86**	**5.91**
Cadmium	4.3	**0.800 J**	**0.183 J**	**8.23**	**5.04**	< 0.994	**0.51 J**	**7.5 J**	**7.3 J**	**0.14 J**	**5.43**	**7.25**
Chromium	180	**653**	**31**	**108**	**96.9**	**55.9**	**100 J**	**130 J**	**150 J**	**7.4 J**	**107**	**145**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	M-19-14	M-19-14	M-20-14	M-20-14	M-20-14	M-20-14	M-20-14	M-21-14	M-21-14	M-21-14
	Sample Depth (ft):	7	9	3	5	7	7	9	3	5	7
	Date Sampled:	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	11/14/2014	11/14/2014	11/14/2014
	Sample ID:	M-19-14_7	M-19-14_9	M-20-14_3	M-20-14_5	M-20-14_7	REP 120414 DM1	M-20-14_9	M-21-14_3	M-21-14_5	M-21-14_7
CONSTITUENT (unit in mg/kg)											
	NYSDEC Part 375 Restricted-Residential Use SCO										
Arsenic	16	**11.7**	**6.05**	**2.59 J**	**5.4**	**5.16**	**5.4**	**7.88**	**4.5 J**	**4 J**	**5.3 J**
Cadmium	4.3	**6.65**	**5.51**	**0.759 J**	**5.91**	**6.09**	**6.49**	**6.59**	**7.8 J**	**7.2 J**	**5.8 J**
Chromium	180	**108**	**133**	**27**	**105**	**159**	**156**	**180**	**270 J**	**130 J**	**130 J**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	M-21-14	M-8-14	M-8-14	M-8-14	M-8-14	N-10-14	N-10-14	N-10-14	N-10-14	N-10-14	N-11-14
	Sample Depth (ft):	9	3	5	7	9	3	5	7	9	11	3
	Date Sampled:	11/14/2014	12/4/2014	12/4/2014	12/4/2014	12/4/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014
	Sample ID:	M-21-14_9	M-8-14_3	M-8-14_5	M-8-14_7	M-8-14_9	N-10-14_3	N-10-14_5	N-10-14_7	N-10-14_9	N-10-14_11	N-11-14_3
CONSTITUENT (unit in mg/kg)												
	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**2.1 J**	**3.54 J**	**4.75 J**	**2.62 J**	**12.6**	**2.85 J**	**6.02**	**5.57**	**2.00 J**	**3.56 J**	**1.57 J**
Cadmium	4.3	**0.44 J**	**30.1 J**	**133 J**	**9.76**	< 1.04	**1.2**	**10.6**	**5.75**	**15.6**	**5.08**	**0.106 J**
Chromium	180	**12 J**	**212**	**354**	**3480**	**68.4**	**29.4**	**93.1**	**95.9**	**1030**	**1420**	**18.9**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	N-11-14	N-11-14	N-11-14	N-11-14	N-12-14	N-12-14	N-12-14	N-12-14	N-19-14	N-19-14
	Sample Depth (ft):	5	7	9	19	3	5	7	9	3	5
	Date Sampled:	12/3/2014	12/3/2014	12/3/2014	12/3/2014	11/6/2014	11/6/2014	11/6/2014	11/6/2014	11/14/2014	11/14/2014
	Sample ID:	N-11-14_5	N-11-14_7	N-11-14_9	REP 120314 DM2	N-12-14_3	N-12-14_5	N-12-14_7	N-12-14_9	N-19-14_3	N-19-14_5
CONSTITUENT (unit in mg/kg)											
	NYSDEC Part 375 Restricted-Residential Use SCO										
Arsenic	16	**5.78**	**4.72**	**4.25**	**3.74 J**	**1.3 J**	**3.7 J**	**4.7 J**	< 4.3 J	**3.3 J**	**4.4 J**
Cadmium	4.3	**3.92**	**14.9**	**3.09**	< 1.03	**0.36 J**	**5.3 J**	**0.75 J**	**0.05 J**	**3.5 J**	**7.2 J**
Chromium	180	**68.1**	**53.9**	**245**	**56.2**	**16 J**	**85 J**	**200 J**	**4.7 J**	**99 J**	**140 J**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	N-20-14	nA-24-14	nA-25-14	nAA-24-14	nAA-25-14	nAB-25-14	nAB-26-14	nAE-25-14	nAE-26-14
	Sample Depth (ft):	3	1	1	1	1	1	1	1	1
	Date Sampled:	12/3/2014	11/4/2014	11/4/2014	11/4/2014	12/15/2014	11/4/2014	11/4/2014	11/4/2014	11/4/2014
	Sample ID:	N-20-14_3	nA-24-14_1	nA-25-14_1	nAA-24-14_1	nAA-25-14_1	nAB-25-14_1	nAB-26-14_1	nAE-25-14_1	nAE-26-14_1
CONSTITUENT (unit in mg/kg)										
	NYSDEC Part 375 Restricted-Residential Use SCO									
Arsenic	16	**2.34 J**	**15**	**2.4 J**	**3.06 J**	**4.76**	**3.6 J**	**2.74 J**	**8.8**	**1.79 J**
Cadmium	4.3	**0.758 J**	**1.66**	**0.18 J**	**2.81**	**0.213 J**	**0.82 J**	**0.119 J**	**0.0891 J**	**0.136 J**
Chromium	180	**102**	**30.6**	**11 J**	**12.3**	**11**	**8.7 J**	**8.76**	**65.8**	**7.84**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO	nAF-24-14	nAF-25-14	nAG-24-14	nAG-25-14	nAI-24-14	nAJ-24-14	nAK-25-14	nAL-24-14	nAM-23-14
Boring ID:		nAF-24-14	nAF-25-14	nAG-24-14	nAG-25-14	nAI-24-14	nAJ-24-14	nAK-25-14	nAL-24-14	nAM-23-14
Sample Depth (ft):		1	1	1	1	1	1	1	1	1
Date Sampled:		12/15/2014	12/15/2014	11/4/2014	11/4/2014	11/4/2014	12/15/2014	11/4/2014	12/15/2014	11/4/2014
Sample ID:		nAF-24-14_1	nAF-25-14_1	nAG-24-14_1	nAG-25-14_1	nAI-24-14_1	nAJ-24-14_1	nAK-25-14_1	nAL-24-14_1	nAM-23-14_1
Arsenic	16	**3.71 J**	**7.1**	**1.42 J**	**6.54**	**3.02 J**	**5**	**3.56 J**	**1.23 J**	**1.10 J**
Cadmium	4.3	**0.0668 J**	< 1.3	**0.180 J**	**0.0422 J**	**0.817 J**	< 1.10	**2.19**	**0.274 J**	**0.556 J**
Chromium	180	**10.3**	**18**	**7.64**	**13.6**	**14.3**	**13.2**	**24.9**	**20.5**	**23.8**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	nAO-23-14	nAO-24-14	nAP-24-14	nAQ-25-14	nAQ-26-14	nAR-24-14	nAR-24-14	nAR-24-14	nAR-24-14
	Sample Depth (ft):	1	1	1	1	1	1	5	7	9
	Date Sampled:	12/15/2014	11/4/2014	12/15/2014	11/4/2014	11/4/2014	11/4/2014	11/4/2014	11/4/2014	11/4/2014
	Sample ID:	nAO-23-14_1	nAO-24-14_1	nAP-24-14_1	nAQ-25-14_1	nAQ-26-14_1	nAR-24-14_1	nAR-24-14_5	nAR-24-14_7	nAR-24-14_9
CONSTITUENT (unit in mg/kg)										
	NYSDEC Part 375 Restricted-Residential Use SCO									
Arsenic	16	**1.74 J**	**11.4**	**2.31 J**	**4.55**	**1.52 J**	**4.4**	**2.33 J**	**1.36 J**	< 3.92
Cadmium	4.3	**0.261 J**	**5.1**	**0.324 J**	< 0.980	**0.0587 J**	**17.1**	**1.09**	< 0.980	< 0.980
Chromium	180	**7.09**	**29.8**	**27.8**	**12.7**	**6.74**	**1060**	**47.9**	**2.58 J**	**2.75 J**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	nAW-25-14	nAW-25-14	nAW-25-14	nAW-25-14	nAX-7-14	nAY-9-14	nAZ-7-14	nB-26-14
	Sample Depth (ft):	1	5	7	9	1	1	1	1
	Date Sampled:	11/4/2014	11/4/2014	11/4/2014	11/4/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014
	Sample ID:	nAW-25-14_1	nAW-25-14_5	nAW-25-14_7	nAW-25-14_9	REP 121514 DM4	REP 121514 DM6	REP 121514 DM5	nB-26-14_1
CONSTITUENT (unit in mg/kg)									
	NYSDEC Part 375 Restricted-Residential Use SCO								
Arsenic	16	**2.83 J**	**2.44 J**	**0.805 J**	< 3.88	**1.31 J**	**1.20 J**	**3.00 J**	**3.44 J**
Cadmium	4.3	**6.29**	**6.15**	**0.0578 J**	< 0.971	**0.0599 J**	**0.139 J**	**0.196 J**	< 1.21
Chromium	180	**193**	**650**	**200**	**227**	**7.24**	**43.6**	**36.6**	**8.63**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	nBB-24-14	nBB-24-14	nBB-24-14	nBB-24-14	nBB-25-14	nBB-25-14	nBB-25-14	nBB-25-14	nBD-18-14
	Sample Depth (ft):	1	5	7	9	1	5	7	9	1
	Date Sampled:	11/4/2014	11/4/2014	11/4/2014	11/4/2014	11/4/2014	11/4/2014	11/4/2014	11/4/2014	12/15/2014
	Sample ID:	nBB-24-14_1	nBB-24-14_5	nBB-24-14_7	nBB-24-14_9	nBB-25-14_1	nBB-25-14_5	nBB-25-14_7	nBB-25-14_9	nBD-18-14_1
CONSTITUENT (unit in mg/kg)										
	NYSDEC Part 375 Restricted-Residential Use SCO									
Arsenic	16	**3.14 J**	**3.71 J**	**1.74 J**	< 3.88	**2.59 J**	**2.40 J**	**0.811 J**	**1.00 J**	**2.78 J**
Cadmium	4.3	**0.485 J**	**1.53**	< 1.00	< 0.971	**3.35**	**3.23**	**0.0529 J**	**0.0970 J**	**0.518 J**
Chromium	180	**18.5**	**37.3**	**2.77 J**	**1.92 J**	**166**	**135**	**12.7**	**8.49**	**27.1**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO	nBD-18-14	nBD-18-14	nBD-18-14	nBD-18-14	nBE-16-14	nBE-16-14	nBE-16-14	nBE-16-14
Boring ID:		nBD-18-14	nBD-18-14	nBD-18-14	nBD-18-14	nBE-16-14	nBE-16-14	nBE-16-14	nBE-16-14
Sample Depth (ft):		3	5	7	9	1	1	3	3
Date Sampled:		12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014
Sample ID:		nBD-18-14_3	nBD-18-14_5	nBD-18-14_7	nBD-18-14_9	nBE-16-14_1	REP 121514 DM7	nBE-16-14_3	REP 121514 DM8
Arsenic	16	**4.04**	**2.26 J**	**1.31 J**	**1.02 J**	**1.51 J**	**2.21 J**	**1.82 J**	**1.54 J**
Cadmium	4.3	**0.601 J**	**1.1**	< 1.02	< 1.01	**0.0485 J**	**0.0953 J**	**0.199 J**	**0.0725 J**
Chromium	180	**50**	**92.5**	**2.30 J**	**2.12 J**	**3.67**	**2.40 J**	**29.4**	**3.89**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	nBE-16-14	nBE-16-14	nBE-16-14	nBE-16-14	nBE-16-14	nBE-16-14	nBE-18-14	nBE-18-14
	Sample Depth (ft):	5	5	7	7	9	9	1	1
	Date Sampled:	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014
	Sample ID:	nBE-16-14_5	REP 121514 DM9	nBE-16-14_7	REP 121514 DM10	nBE-16-14_9	REP 121514 DM11	nBE-18-14_1	REP 121514 DM12
CONSTITUENT (unit in mg/kg)									
	NYSDEC Part 375 Restricted-Residential Use SCO								
Arsenic	16	**1.35 J**	**1.81 J**	**2.46 J**	**1.73 J**	**1.30 J**	**3.59 J**	**2.72 J**	**1.60 J**
Cadmium	4.3	**0.172 J**	**0.145 J**	**0.258 J**	**0.626 J**	**0.0831 J**	**0.229 J**	< 1.04	< 1.03
Chromium	180	**61.1**	**36.7**	**11.7**	**80.1**	**2.31 J**	**36.7**	**31.8**	**2.28 J**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO	nBE-18-14	nBE-18-14	nBE-18-14	nBE-18-14	nC-24-14	nD-24-14	nD-25-14	nD-26-14	nN-24-14
Boring ID:		nBE-18-14	nBE-18-14	nBE-18-14	nBE-18-14	nC-24-14	nD-24-14	nD-25-14	nD-26-14	nN-24-14
Sample Depth (ft):		3	5	7	9	1	1	1	1	1
Date Sampled:		12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	12/15/2014	11/4/2014	11/4/2014	11/4/2014
Sample ID:		nBE-18-14_3	nBE-18-14_5	nBE-18-14_7	nBE-18-14_9	nC-24-14_1	nD-24-14_1	nD-25-14_1	nD-26-14_1	nN-24-14_1
Arsenic	16	**1.90 J**	**2.24 J**	**3.11 J**	**1.63 J**	**6.78**	**29.6**	**8.11**	**3.31 J**	**5.95**
Cadmium	4.3	**0.939 J**	**0.498 J**	< 1.13	< 1.03	**6.74**	**6.14**	**3.4**	**0.139 J**	**8.67**
Chromium	180	**111**	**76.3**	**3.98**	**3.68**	**103**	**390**	**222**	**50.1**	**99.5**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	nN-25-14	nO-24-14	nP-23-14	nP-24-14	nR-23-14	nU-23-14	nV-23-14	nW-24-14	nZZB-11-14
	Sample Depth (ft):	1	1	1	1	1	1	1	1	1
	Date Sampled:	11/4/2014	11/4/2014	12/15/2014	11/4/2014	11/4/2014	11/4/2014	11/4/2014	11/4/2014	11/4/2014
	Sample ID:	nN-25-14_1	nO-24-14_1	nP-23-14_1	nP-24-14_1	nR-23-14_1	nU-23-14_1	nV-23-14_1	nW-24-14_1	nZZB-11-14_1
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO									
Arsenic	16	**2.44 J**	**4.39**	**3.48 J**	**5.7 J**	**4.87**	**1.68 J**	**3.18 J**	**0.76 J**	**5.51**
Cadmium	4.3	**6.56**	**3.54**	**2.39**	**2.5 J**	**2.78**	**1.37**	**2.69**	**0.2 J**	**1.5**
Chromium	180	**206**	**76.4**	**149**	**130 J**	**2110**	**8.31**	**86.7**	**4.3 J**	**18.2**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO	nZZB-12-14	nZZB-14-14	nZZB-17-14	nZZB-19-14	nZZB-21-14	nZZB-25-14	nZZC-11-14	nZZC-12-14	nZZC-14-14
Boring ID:		nZZB-12-14	nZZB-14-14	nZZB-17-14	nZZB-19-14	nZZB-21-14	nZZB-25-14	nZZC-11-14	nZZC-12-14	nZZC-14-14
Sample Depth (ft):		1	1	1	1	1	1	1	1	1
Date Sampled:		12/15/2014	11/4/2014	11/4/2014	12/15/2014	11/4/2014	11/4/2014	11/4/2014	12/15/2014	11/4/2014
Sample ID:		nZZB-12-14_1	nZZB-14-14_1	nZZB-17-14_1	nZZB-19-14_1	nZZB-21-14_1	nZZB-25-14_1	nZZC-11-14_1	nZZC-12-14_1	nZZC-14-14_1
Arsenic	16	**2.30 J**	**3.61 J**	**2.79 J**	**3.18 J**	**3.88 J**	**2.59 J**	**1.16 J**	**3.05 J**	**3.11 J**
Cadmium	4.3	**0.117 J**	**0.299 J**	**0.0554 J**	**0.559 J**	**0.115 J**	**3.67**	< 0.980	**8.72**	**1.75**
Chromium	180	**6.35**	**21.6**	**98.3**	**19.8**	**143**	**1300**	**7.12**	**151**	**51.1**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO	nZZC-17-14	nZZC-19-14	nZZC-21-14	O-10-14	O-10-14	O-10-14	O-10-14	O-11-14	O-11-14	O-11-14
Boring ID:		nZZC-17-14	nZZC-19-14	nZZC-21-14	O-10-14	O-10-14	O-10-14	O-10-14	O-11-14	O-11-14	O-11-14
Sample Depth (ft):		1	1	1	3	5	7	9	3	5	7
Date Sampled:		11/4/2014	12/15/2014	11/4/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014
Sample ID:		nZZC-17-14_1	nZZC-19-14_1	nZZC-21-14_1	O-10-14_3	O-10-14_5	O-10-14_7	O-10-14_9	O-11-14_3	O-11-14_5	O-11-14_7
Arsenic	16	**2.19 J**	**3.32 J**	**2.71 J**	**5.52**	**2.83 J**	**7.4**	**4.5**	**1.32 J**	**3.33 J**	**4.7**
Cadmium	4.3	< 0.971	**0.205 J**	**0.536 J**	**0.367 J**	**3.33**	**6.02**	**10.5**	**0.209 J**	**4.61**	**11.6**
Chromium	180	**11.6**	**6.34**	**29.1**	**16.7**	**58.5**	**46.3**	**146**	**14.8**	**68.3**	**140**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling, Phase 1 Sampling
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	O-11-14	O-12-14	O-12-14	O-12-14	O-12-14	O-20-14	O-20-14	O-20-14	O-20-14	O-20-14
	Sample Depth (ft):	9	3	5	7	9	3	5	7	7	9
	Date Sampled:	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014	12/3/2014
	Sample ID:	O-11-14_9	O-12-14_3	O-12-14_5	O-12-14_7	O-12-14_9	O-20-14_3	O-20-14_5	O-20-14_7	REP 120314 DM1	O-20-14_9
CONSTITUENT (unit in mg/kg)											
	NYSDEC Part 375 Restricted-Residential Use SCO										
Arsenic	16	**3.86 J**	**1.11 J**	**3.22 J**	**10**	**1.24 J**	**3.64 J**	**16.8**	**0.730 J**	**1.12 J**	< 3.97
Cadmium	4.3	**7.89**	**0.174 J**	**7.53**	**0.931 J**	**0.314 J**	**6.91**	**5.72**	**0.224 J**	**0.197 J**	**0.135 J**
Chromium	180	**111**	**5.78**	**120**	**219**	**51.7**	**120**	**201**	**7.92**	**10.9**	**2.73 J**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	S-18-14	S-20-14	S-22-14	S-8-14	U-18-14	U-18-14	U-18-14	U-18-14	U-20-14	U-22-14	W-18-14
	Sample Depth (ft):	1	1	1	1	3	5	7	9	1	1	3
	Date Sampled:	11/14/2014	11/14/2014	11/14/2014	12/3/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014
	Sample ID:	S-18-14_1	S-20-14_1	S-22-14_1	S-8-14_1	U-18-14_3	U-18-14_5	U-18-14_7	U-18-14_9	U-20-14_1	U-22-14_1	W-18-14_3
CONSTITUENT (unit in mg/kg)												
	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**3.5 J**	**3.3 J**	**2.3 J**	**10**	**2.4 J**	**1.7 J**	**0.84 J**	**2.6 J**	**3 J**	**2.6 J**	**8.3 J**
Cadmium	4.3	**0.26 J**	**2.9 J**	**0.65 J**	**1.2**	**2.1 J**	**0.09 J**	**0.06 J**	**0.04 J**	**0.41 J**	**2.3 J**	**0.34 J**
Chromium	180	**39 J**	**160 J**	**65 J**	**39**	**44 J**	**7.2 J**	**5.1 J**	**9 J**	**22 J**	**63 J**	**17 J**

Notes and Abbreviations on last page.

Phase 1 Sampling

Table 7. Concentrations of Metals in Soil Samples , Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	W-18-14	W-18-14	W-18-14	Y-18-14	Y-18-14	Y-18-14	Y-18-14
	Sample Depth (ft):	5	7	9	3	5	7	9
	Date Sampled:	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014	11/14/2014
	Sample ID:	W-18-14_5	W-18-14_7	W-18-14_9	Y-18-14_3	Y-18-14_5	Y-18-14_7	Y-18-14_9
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO							
Arsenic	16	**4.2 J**	< 4.5 J	**1.1 J**	**0.98 J**	**13 J**	< 4.4 J	**1 J**
Cadmium	4.3	**40 J**	**0.06 J**	**0.11 J**	**0.21 J**	**1.2 J**	**0.08 J**	**0.07 J**
Chromium	180	**8600 J**	**31 J**	**43 J**	**13 J**	**17 J**	**2.3 J**	**2.7 J**

Notes and Abbreviations on last page.

ARCADIS

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Boring ID:		*53-AC*	*53-AC*	*53-AC*	*53-AC*	*53-AC*	*57-AC*	*57-AC*	*58-AC*	*58-AC*	*62-AC*	*62-AC*
Sample Depth (ft):		0-2	2-12	2-12	12-24	24-36	0-2	2-12	0-2	2-12	0-2	2-12
Date Sampled:		4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015
Sample ID:		53-AC-01	53-AC-02	53-AC-02 DUP	53-AC-03	53-AC-04	57-AC-01	57-AC-02	58-AC-01	58-AC-02	62-AC-01	62-AC-02
Arsenic	16	--	--	--	--	--	--	--	--	--	--	--
Cadmium	4.3	--	--	--	--	--	--	--	--	--	--	--
Chromium	180	**21.2**	**24.3**	**19.4**	**6.9**	**15**	**23.1**	**23**	**25.5**	**19.6**	**27.9**	**21.3**

Notes and Abbreviations on last page.

ARCADIS

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)												
	Boring ID:	*63-AC*	*63-AC*	*66-AC*	*66-AC*	*66-AC*	*67-AC*	*67-AC*	*68-AC*	*68-AC*	*69-AC*	*69-AC*
	Sample Depth (ft):	0-2	2-12	0-2	2-12	2-12	0-2	2-12	0-2	2-12	0-2	2-12
	Date Sampled:	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015
	Sample ID:	63-AC-01	63-AC-02	66-AC-01	66-AC-02	66-AC-02 DUP	67-AC-01	67-AC-02	68-AC-01	68-AC-02	69-AC-01	69-AC-02
	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	--	--	--	--	--	--	--	--	--	--	--
Cadmium	4.3	--	--	--	--	--	--	--	--	--	--	--
Chromium	180	**31.2**	**25.8**	**21.5**	**27.8**	**18.1**	**22.7**	**25.6**	**29.3**	**34.7**	**32.4**	**29.4**

Notes and Abbreviations on last page.

ARCADIS

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Boring ID:		*70-AC*	*70-AC*	*71-AC*	*71-AC*	*71-AC*	*72-AC*	*72-AC*	*73-AC*	*73-AC*	*74-AC*	*74-AC*
Sample Depth (ft):		0-2	2-12	0-2	2-12	2-12	0-2	2-12	0-2	2-12	0-2	2-12
Date Sampled:		4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/17/2015	4/16/2015	4/16/2015	4/16/2015	4/16/2015	4/16/2015	4/16/2015
Sample ID:		70-AC-01	70-AC-02	71-AC-01	71-AC-02	71-AC-02	72-AC-01	72-AC-02	73-AC-01	73-AC-02	74-AC-01	74-AC-02
Arsenic	16	--	--	--	--	--	--	--	--	--	--	--
Cadmium	4.3	--	--	--	--	--	--	--	--	--	--	--
Chromium	180	**21.6**	**26.2**	**21.8**	**28**	**23.6**	**26.8**	**19.4**	**30.4**	**21**	**20.7**	**19.8**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Boring ID:		*75-AC*	*75-AC*	*76-AC*	*76-AC*	*76-AC*	*76-AC*	*76-AC*	AT-25-15	AT-25-15	AT-25-15	AT-25-15
Sample Depth (ft):		0-2	2-12	0-2	2-12	2-12	12-24	24-36	0-2	2-4	4-6	6-8
Date Sampled:		4/16/2015	4/16/2015	4/16/2015	4/16/2015	4/16/2015	4/16/2015	4/16/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015
Sample ID:		75-AC-01	75-AC-02	75-AC-04	76-AC-02	76-AC-02-DUP	76-AC-03	76-AC-04	AT-25-15(0-2)	AT-25-15(2-4)	AT-25-15(4-6)	AT-25-15(6-8)
Arsenic	16	--	--	--	--	--	--	--	**4.83**	**5.47**	**1.75 J**	**1.34 J**
Cadmium	4.3	--	--	--	--	--	--	--	**20.6**	**39.1**	**4.28**	**2.05**
Chromium	180	**13.4**	**10**	**18.6**	**16.4**	**12.5**	**10.6**	**11**	**1010**	**951**	**765**	**525**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Boring ID:		AT-25-15	AT-25-15	B-33	B-33	B-33	B-34	B-34	B-34	B-34	B-34	B-34
Sample Depth (ft):		8-10	8-10	1	3	5	1	3	11	12	13	15
Date Sampled:		5/13/2015	5/13/2015	5/7/2015	5/7/2015	5/7/2015	5/12/2015	5/12/2015	5/12/2015	5/12/2015	5/12/2015	5/12/2015
Sample ID:		AT-25-15(8-10)	DUP051315DM2	B-33(1)	B-33(3)	B-33(5)	B-34(1)	B-34(3)	B-34(11)	B-34(12)	B-34(13)	B-34(15)
Arsenic	16	**1.72 J**	**1.38 J**	**6.93**	**4.24**	**1.55 J**	**4.94**	**2.91 J**	**5.52**	**7.01**	< 4.81	< 4.00
Cadmium	4.3	**0.444 J**	**1.55**	**1.76**	**1.16**	**2.26**	**5.78**	**1.94**	**6.75**	**21.5**	**924**	**86.1**
Chromium	180	**422**	**421**	**49.0**	**33.3**	**236**	**160**	**55.2**	**118**	**189**	**817**	**50.7**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO	Boring ID: B-34	B-60	B-70	B-70	B-70	F-13-15	F-13-15	F-13-15	F-13-15	F-13-15	F-13-15
		Sample Depth (ft): 17	13	1	3	7	0-2	0-2	2-4	4-6	6-8	8-10
		Date Sampled: 5/12/2015	5/8/2015	5/12/2015	5/12/2015	5/12/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015
		Sample ID: B-34(17)	B-60(13)	B-70(1)	B-70(3)	B-70(7)	F-13-15(0-2)	DUP051315TM3	F-13-15(2-4)	F-13-15(4-6)	F-13-15(6-8)	F-13-15(8-10)
Arsenic	16	**3.31 J**	**4.92**	**3.26 J**	**3.39 J**	**2.27 J**	**8.42**	**9.66**	**4.21**	**3.61 J**	**3.70 J**	**7.02**
Cadmium	4.3	**551**	**4.27**	**1.02 J**	**0.981 J**	**0.174 J**	**0.586 J**	**0.548 J**	**0.477 J**	**1.47**	**1.09**	**13.8**
Chromium	180	**501**	**91.1**	**38.1**	**31.3**	**7.81**	**34.5**	**25.6**	**35.3**	**73.1**	**104**	**235**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15
Boring ID:		F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15	F-3-15
Sample Depth (ft):		0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20	20-22
Date Sampled:		5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015
Sample ID:		F-3-15 (0-2)	F-3-15 (2-4)	F-3-15 (4-6)	F-3-15 (6-8)	F-3-15 (8-10)	F-3-15 (10-12)	F-3-15 (12-14)	F-3-15 (14-16)	F-3-15 (16-18)	F-3-15 (18-20)	F-3-15 (20-22)
Arsenic	16	**4.76**	**6.07**	**2.88 J**	**2.63 J**	**7.34**	**2.44 J**	**1.20 J**	**4.23**	**1.79 J**	**13.5**	**2.42 J**
Cadmium	4.3	**1.30**	**5.02**	**0.673 J**	**0.150 J**	**0.145 J**	**0.343 J**	**0.0537 J**	**0.191 J**	**0.892 J**	**1.12**	< 1.01
Chromium	180	**47.5**	**79.8**	**17.5**	**4.80**	**2.79 J**	**24.7**	**2.06 J**	**12.3**	**3.06**	**17.3**	**26.2**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Boring ID:		F-3-15	F-3-15	F-3-15	F-3-15	G-16-15	G-16-15	G-16-15	G-16-15	G-16-15	G-16-15	G-7-15
Sample Depth (ft):		22-24	24-26	26-28	28-30	0-2	2-4	4-6	6-8	8-10	8-10	0-2
Date Sampled:		5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/5/2015
Sample ID:		F-3-15 (22-24)	F-3-15 (24-26)	F-3-15 (26-28)	F-3-15 (28-30)	G-16-15(0-2)	G-16-15(2-4)	G-16-15(4-6)	G-16-15(6-8)	G-16-15(8-10)	DUP051315TM4	G-7-15(0-2)
Arsenic	16	**2.42 J**	**9.51**	**3.19 J**	**2.60 J**	**3.49 J**	**3.66 J**	**3.78 J**	**6.23**	**7.27**	**6.12**	--
Cadmium	4.3	**0.222 J**	**0.273 J**	**0.421 J**	**0.0702 J**	**0.281 J**	**0.774 J**	**1.34**	**5.40**	**9.36**	**6.77**	--
Chromium	180	**4.19**	**35.2**	**17.2**	**13.8**	**20.8**	**42.4**	**51.4**	**110**	**228**	**106**	**681**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Boring ID:		G-7-15	G-7-15	G-7-15	G-7-15	G-7-15	G-7-15	G-7-15	G-7-15	G-7-15	G-7-15	G-7-15
Sample Depth (ft):		2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20	20-22	22-24
Date Sampled:		5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015
Sample ID:		G-7-15(2-4)	G-7-15(4-6)	G-7-15(6-8)	G-7-15(8-10)	G-7-15 (10-12)	G-7-15 (12-14)	G-7-15 (14-16)	G-7-15 (16-18)	G-7-15 (18-20)	G-7-15 (20-22)	G-7-15 (22-24)
Arsenic	16	--	--	--	--	--	--	--	--	--	--	--
Cadmium	4.3	--	--	--	--	--	--	--	--	--	--	--
Chromium	180	**583**	**459**	**17.4**	**10.7**	**11.1**	**3.74**	**4.15**	**7.00**	**5.04**	**9.55**	**7.96**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Boring ID:		G-7-15	G-7-15	G-7-15	H-7-15	H-7-15	H-7-15	H-7-15	H-7-15	H-7-15	H-7-15	H-7-15
Sample Depth (ft):		24-26	26-28	28-30	0-2	2-4	4-6	6-8	8-10	8-10	10-12	12-14
Date Sampled:		5/5/2015	5/5/2015	5/5/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015
Sample ID:		G-7-15 (24-26)	G-7-15 (26-28)	G-7-15 (28-30)	H-7-15(0-2)	H-7-15(2-4)	H-7-15(4-6)	H-7-15(6-8)	H-7-15(8-10)	DUP051315TM6	H-7-15 (10-12)	H-7-15 (12-14)
Arsenic	16	--	--	--	--	--	--	--	--	--	--	--
Cadmium	4.3	--	--	--	--	--	--	--	--	--	--	--
Chromium	180	**8.69**	**2.72 J**	**4.61**	**312**	**1390**	**723**	**552**	**1720**	**1490**	**5350**	**11400**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Boring ID:		H-7-15	H-7-15	H-7-15	H-7-15	H-7-15	H-7-15	H-7-15	H-7-15	J-2-15	J-2-15	J-2-15
Sample Depth (ft):		14-16	16-18	18-20	20-22	22-24	24-26	26-28	28-30	0-2	2-4	4-6
Date Sampled:		5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/4/2015	5/4/2015	5/4/2015
Sample ID:		H-7-15 (14-16)	H-7-15 (16-18)	H-7-15 (18-20)	H-7-15 (20-22)	H-7-15 (22-24)	H-7-15 (24-26)	H-7-15 (26-28)	H-7-15 (28-30)	J-2-15 (0-2)	J-2-15 (2-4)	J-2-15 (4-6)
Arsenic	16	--	--	--	--	--	--	--	--	**4.98**	**3.76 J**	**2.66 J**
Cadmium	4.3	--	--	--	--	--	--	--	--	**3.20**	**4.87**	**1.04 J**
Chromium	180	**4750**	**6.90**	**7.35**	**6.77**	**11.9**	**8.01**	**17.7**	**9.32**	**202**	**62.6**	**29.6**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15
Boring ID:		J-2-15	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15	J-2-15
Sample Depth (ft):		6-8	8-10	10-12	12-14	14-16	16-18	18-20	20-22	22-24	24-26	26-28
Date Sampled:		5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015	5/4/2015
Sample ID:		J-2-15 (6-8)	J-2-15 (8-10)	J-2-15 (10-12)	J-2-15 (12-14)	J-2-15 (14-16)	J-2-15 (16-18)	J-2-15 (18-20)	J-2-15 (20-22)	J-2-15 (22-24)	J-2-15 (24-26)	J-2-15 (26-28)
Arsenic	16	**1.89 J**	**1.49 J**	**1.22**	**2.32**	**0.819**	**0.953**	**1.54**	**1.53**	**11.4**	**1.54**	**1.30**
Cadmium	4.3	**0.0884 J**	**0.0601 J**	**0.0809**	**0.0546**	< 0.995	**0.0494**	**0.0429**	**0.288**	**0.0972**	**0.0620**	**0.172**
Chromium	180	**5.27**	**3.16**	**4.75**	**2.07**	**2.89**	**4.19**	**3.03**	**19.5**	**9.24**	**3.21**	**15.7**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO	J-2-15	J-5-14	M-12-14	M-12-14	nAY-26-15	nAY-26-15	nAY-26-15	nAY-26-15	nAY-26-15	nB-4-15
Boring ID:		J-2-15	J-5-14	M-12-14	M-12-14	nAY-26-15	nAY-26-15	nAY-26-15	nAY-26-15	nAY-26-15	nB-4-15
Sample Depth (ft):		28-30	9	5	7	0-2	2-4	4-6	6-8	8-10	0-2
Date Sampled:		5/4/2015	5/8/2015	5/12/2015	5/12/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/5/2015
Sample ID:		J-2-15 (28-30)	J-5-14(9)	M-12-14(5)	M-12-14(7)	nAY-26-15(0-2)	nAY-26-15(2-4)	nAY-26-15(4-6)	nAY-26-15(6-8)	nAY-26-15(8-10)	nB-4-15 (0-2)
Arsenic	16	**1.46**	**0.907 J**	**2.45 J**	**0.898 J**	**4.23**	**3.27**	**2.70**	**3.68**	**2.37**	**11.2**
Cadmium	4.3	**0.0939**	**2.54**	**6.86**	**21.2**	**0.0511**	**0.0415**	**0.132**	< 1.01	< 0.994	**0.762 J**
Chromium	180	**3.30**	**30.5**	**443**	**8610**	**9.20**	**7.23**	**14.3**	**16.1**	**1.88**	**25.9**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Boring ID:		nB-4-15	nB-4-15	nB-4-15	nB-4-15	nB-4-15	nB-4-15	nB-4-15	nB-4-15	nB-4-15	nB-4-15	nB-4-15
Sample Depth (ft):		2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20	20-22	22-24
Date Sampled:		5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015
Sample ID:		nB-4-15 (2-4)	nB-4-15 (4-6)	nB-4-15 (6-8)	nB-4-15 (8-10)	nB-4-15 (10-12)	nB-4-15 (12-14)	nB-4-15 (14-16)	nB-4-15 (16-18)	nB-4-15 (18-20)	nB-4-15 (20-22)	nB-4-15 (22-24)
Arsenic	16	**5.39**	**2.86 J**	**6.64**	**2.35 J**	**2.50 J**	**0.724 J**	**0.753 J**	**1.09 J**	**1.52 J**	**3.33 J**	**2.43 J**
Cadmium	4.3	**0.621 J**	**0.699 J**	**0.770 J**	**0.342 J**	**0.452 J**	**1.65**	**1.98**	**3.59**	**2.07**	**3.09**	**5.12**
Chromium	180	**23.1**	**29.6**	**25.1**	**18.6**	**27.9**	**5.76**	**6.66**	**10.9**	**4.70**	**7.87**	**12.5**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Boring ID:		nB-4-15	nB-4-15	nB-4-15	nBF-27-15	nD-16-15	nD-16-15	nD-16-15	nD-16-15	nD-16-15	nD-16-15	nD-24-14
Sample Depth (ft):		24-26	26-28	28-30	0-2	0-2	2-4	4-6	4-6	6-8	8-10	1
Date Sampled:		5/5/2015	5/5/2015	5/5/2015	7/7/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/13/2015	5/12/2015
Sample ID:		nB-4-15 (24-26)	nB-4-15 (26-28)	nB-4-15 (28-30)	nBF-27-15 (0-2)	nD-16-15(0-2)	nD-16-15(2-4)	nD-16-15(4-6)	DUP051315TM5	nD-16-15(6-8)	nD-16-15(8-10)	nD-24-14 (1)
Arsenic	16	**2.98 J**	**1.17 J**	**1.56 J**	--	**5.75**	**3.76 J**	**4.51**	**4.48**	**7.43**	**5.49**	**9.27**
Cadmium	4.3	**4.20**	**1.60**	**1.93**	--	**0.396 J**	**1.10**	**3.61**	**3.43**	**3.26**	**5.45**	**8.48**
Chromium	180	**8.76**	**4.32**	**4.61**	**4.57**	**19.3**	**39.7**	**90.2**	**86.2**	**88.7**	**166**	**144**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Boring ID:		nE-5-15	nE-5-15	nE-5-15	nE-5-15	nE-5-15	nE-5-15	nE-5-15	nE-5-15	nE-5-15	nE-5-15	nE-5-15
Sample Depth (ft):		0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20	20-22
Date Sampled:		5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015
Sample ID:		nE-5-15 (0-2)	nE-5-15 (2-4)	nE-5-15 (4-6)	nE-5-15 (6-8)	nE-5-15 (8-10)	nE-5-15 (10-12)	nE-5-15 (12-14)	nE-5-15 (14-16)	nE-5-15 (16-18)	nE-5-15 (18-20)	nE-5-15 (20-22)
Arsenic	16	**7.65**	**7.18**	**7.00**	**3.67 J**	**4.26 J**	**4.75**	**14.5**	**7.54**	**5.90**	**2.03**	**16.1**
Cadmium	4.3	**1.92**	**23.8**	**5.42**	**58.2**	**52.8**	**82.3**	**94.3**	**20.2**	**1720**	**912**	**58.5**
Chromium	180	**134**	**1350**	**255**	**1640**	**3440**	**2280**	**1090**	**427**	**17100**	**19200**	**1620**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Boring ID:		nE-5-15	nE-5-15	nE-5-15	nE-5-15	nH-6-15	nH-6-15	nH-6-15	nH-6-15	nH-6-15	nH-6-15	nH-6-15
Sample Depth (ft):		22-24	24-26	26-28	28-30	0-2	2-4	4-6	6-8	8-10	10-12	12-14
Date Sampled:		5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015
Sample ID:		nE-5-15 (22-24)	nE-5-15 (24-26)	nE-5-15 (26-28)	nE-5-15 (28-30)	nH-6-15 (0-2)	nH-6-15 (2-4)	nH-6-15 (4-6)	nH-6-15 (6-8)	nH-6-15 (8-10)	nH-6-15 (10-12)	nH-6-15 (12-14)
Arsenic	16	**2.17**	**1.39**	**1.58**	**2.54**	--	--	--	--	--	--	--
Cadmium	4.3	**1.21**	**2.44**	**3.18**	**12.3**	--	--	--	--	--	--	--
Chromium	180	**11.9**	**5.38**	**4.56**	**6.37**	**288**	**1730**	**9680**	**5530**	**10400**	**1970**	**28300**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Boring ID:		nH-6-15	nH-6-15	nH-6-15	nH-6-15	nH-6-15	nH-6-15	nH-6-15	nH-6-15	nI-27-15	nI-7-15	nI-7-15
Sample Depth (ft):		14-16	16-18	18-20	20-22	22-24	24-26	26-28	28-30	0-2	0-2	2-4
Date Sampled:		5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	7/7/2015	5/5/2015	5/5/2015
Sample ID:		nH-6-15 (14-16)	nH-6-15 (16-18)	nH-6-15 (18-20)	nH-6-15 (20-22)	nH-6-15 (22-24)	nH-6-15 (24-26)	nH-6-15 (26-28)	nH-6-15 (28-30)	nI-27-15 (0-2)	nI-7-15(0-2)	nI-7-15(2-4)
Arsenic	16	--	--	--	--	--	--	--	--	--	--	--
Cadmium	4.3	--	--	--	--	--	--	--	--	--	--	--
Chromium	180	**31.9**	**160**	**25.8**	**5.12**	**14.3**	**12.7**	**31.4**	**335**	**13.3**	**639**	**372**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Boring ID:		nl-7-15	nl-7-15	nl-7-15	nl-7-15	nl-7-15	nl-7-15	nl-7-15	nl-7-15	nl-7-15	nl-7-15	nl-7-15
Sample Depth (ft):		2-4	4-6	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20	20-22
Date Sampled:		5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015
Sample ID:		DUP050515DJM2	nl-7-15(4-6)	DUP050515DJM1	nl-7-15(6-8)	nl-7-15(8-10)	nl-7-15 (10-12)	nl-7-15 (12-14)	nl-7-15 (14-16)	nl-7-15 (16-18)	nl-7-15 (18-20)	nl-7-15 (20-22)
Arsenic	16	--	--	--	--	--	--	--	--	--	--	--
Cadmium	4.3	--	--	--	--	--	--	--	--	--	--	--
Chromium	180	**275**	**2960**	**1040**	**3180**	**1160**	**650**	**163**	**118**	**246**	**68.1**	**26.7**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Boring ID:		nI-7-15	nI-7-15	nI-7-15	nI-7-15	nK-26-15	nK-7-15	nK-7-15	nK-7-15	nK-7-15	nK-7-15	nK-7-15
Sample Depth (ft):		22-24	24-26	26-28	28-30	0-2	0-2	2-4	2-4	4-6	6-8	8-10
Date Sampled:		5/5/2015	5/5/2015	5/5/2015	5/5/2015	7/7/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015
Sample ID:		nI-7-15 (22-24)	nI-7-15 (24-26)	nI-7-15 (26-28)	nI-7-15 (28-30)	nK-26-15 (0-2)	nK-7-15(0-2)	nK-7-15(2-4)	DUP050515DJM3	nK-7-15(4-6)	nK-7-15(6-8)	nK-7-15(8-10)
Arsenic	16	--	--	--	--	--	**6.27**	**5.21**	**4.97**	**7.34**	**5.30**	**4.16 J**
Cadmium	4.3	--	--	--	--	--	**4.76**	**30.4**	**41.7**	**8.50**	**0.227 J**	**0.159 J**
Chromium	180	**3.81**	**6.03**	**8.20**	**15.1**	**39.9**	**384**	**645**	**1210**	**391**	**21.4**	**17.9**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	nK-7-15	nK-7-15	nK-7-15	nK-7-15	nK-7-15	nK-7-15	nK-7-15	nK-7-15	nK-7-15	nK-7-15	nL-26-15
	Sample Depth (ft):	10-12	12-14	14-16	16-18	18-20	20-22	22-24	24-26	26-28	28-30	0-2
	Date Sampled:	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	7/7/2015
	Sample ID:	nK-7-15 (10-12)	nK-7-15 (12-14)	nK-7-15 (14-16)	nK-7-15 (16-18)	nK-7-15 (18-20)	nK-7-15 (20-22)	nK-7-15 (22-24)	nK-7-15 (24-26)	nK-7-15 (26-28)	nK-7-15 (28-30)	nL-26-15 (0-2)
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	< 4.11	**1.02 J**	< 3.95	**1.73 J**	**1.69 J**	**1.93 J**	**1.75 J**	**1.37 J**	**3.10 J**	**1.21 J**	--
Cadmium	4.3	**0.495 J**	**0.216 J**	**0.149 J**	**0.214 J**	**0.197 J**	**0.201 J**	**0.115 J**	**0.0423 J**	**0.0881 J**	< 1.00	--
Chromium	180	**7.57**	**4.51**	**3.24**	**5.52**	**6.31**	**18.5**	**6.76**	**5.16**	**6.19**	**7.23**	**7.99**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	nM-6-15	nM-6-15	nM-6-15	nM-6-15	nM-6-15	nM-6-15	nM-6-15	nM-6-15	nM-6-15	nM-6-15	nM-6-15
	Sample Depth (ft):	0-2	2-4	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20
	Date Sampled:	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
	Sample ID:	nM-6-15(0-2)	nM-6-15(2-4)	DUP050715DD2	nM-6-15(4-6)	nM-6-15(6-8)	nM-6-15(8-10)	nM-6-15 (10-12)	nM-6-15 (12-14)	nM-6-15 (14-16)	nM-6-15 (16-18)	nM-6-15 (18-20)
CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	**9.42**	**7.38**	**4.69**	**7.74**	**4.51**	**2.17 J**	**1.00 J**	**1.30 J**	< 3.97	**2.73 J**	**1.96 J**
Cadmium	4.3	**8.18**	**7.09**	**12.7**	**14.2**	**31.0**	**1.51**	**0.983 J**	**0.543 J**	**0.408 J**	**0.254 J**	**0.178 J**
Chromium	180	**259**	**98.3**	**443**	**245**	**327**	**9.15**	**7.87**	**7.74**	**6.85**	**12.1**	**8.23**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO											
Boring ID:		nM-6-15	nM-6-15	nM-6-15	nM-6-15	nM-6-15	nP-6-15	nP-6-15	nP-6-15	nP-6-15	nP-6-15	nP-6-15
Sample Depth (ft):		20-22	22-24	24-26	26-28	28-30	0-2	2-4	4-6	4-6	6-8	8-10
Date Sampled:		5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Sample ID:		nM-6-15 (20-22)	nM-6-15 (22-24)	nM-6-15 (24-26)	nM-6-15 (26-28)	nM-6-15 (28-30)	nP-6-15(0-2)	nP-6-15(2-4)	nP-6-15(4-6)	DUP050715DD3	nP-6-15(6-8)	nP-6-15(8-10)
Arsenic	16	**18.8**	**1.79 J**	< 3.92	**3.18 J**	**1.76 J**	**6.61**	**8.68**	**9.37**	**10.0**	**10.5**	**7.11**
Cadmium	4.3	**1.80**	**0.326 J**	**0.303 J**	**0.345 J**	**0.0814 J**	**3.11**	**58.4**	**5.87**	**6.99**	**35.1**	**28.1**
Chromium	180	**6.51**	**4.65**	**6.38**	**8.03**	**3.20**	**161**	**1630**	**1690**	**1580**	**2060**	**807**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO										
	Boring ID:	nP-6-15	nP-6-15	nP-6-15	nP-6-15	nP-6-15	nP-6-15	nP-6-15	nP-6-15	nP-6-15	nP-6-15
	Sample Depth (ft):	10-12	12-14	14-16	16-18	18-20	20-22	22-24	24-26	26-28	28-30
	Date Sampled:	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
	Sample ID:	nP-6-15 (10-12)	nP-6-15 (12-14)	nP-6-15 (14-16)	nP-6-15 (16-18)	nP-6-15 (18-20)	nP-6-15 (20-22)	nP-6-15 (22-24)	nP-6-15 (24-26)	nP-6-15 (26-28)	nP-6-15 (28-30)
Arsenic	16	**1.63 J**	**0.704 J**	< 4.02	< 4.11	**1.33 J**	**3.23 J**	**0.939 J**	**13.9**	**3.62 J**	**1.37 J**
Cadmium	4.3	**1.19**	**0.228 J**	**0.335 J**	**0.449 J**	**0.257 J**	**0.546 J**	**0.343 J**	**1.37**	**0.698 J**	**0.260 J**
Chromium	180	**28.5**	**7.27**	**7.45**	**3.73**	**3.90**	**11.4**	**3.09**	**28.8**	**10.6**	**5.27**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

	Boring ID:	nV-22-15	nZZD-25-15	nZZD-27-15	nZZE-26-15	nZZG-26-15	nZZI-26-15	nZZJ-27-15	nZZK-26-15	nZZK-27-15	nZZM-26-15	nZZO-26-15
	Sample Depth (ft):	0-0.16	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
	Date Sampled:	5/4/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015
	Sample ID:	nV-22-15(0-2 in)	nZZD-25-15 (0-2)	nZZD-27-15 (0-2)	nZZE-26-15 (0-2)	nZZG-26-15 (0-2)	nZZI-26-15 (0-2)	nZZJ-27-15 (0-2)	nZZK-26-15 (0-2)	nZZK-27-15 (0-2)	nZZM-26-15 (0-2)	nZZO-26-15 (0-2)
CONSTITUENT (unit in mg/kg)												
	NYSDEC Part 375 Restricted-Residential Use SCO											
Arsenic	16	--	--	--	--	--	--	--	--	--	--	--
Cadmium	4.3	**0.559 J**	--	--	--	--	--	--	--	--	--	--
Chromium	180	**39.4**	**9.57**	**6.53**	**4.30**	**2.81 J**	**4.61**	**2.53 J**	**6.15**	**15.4**	**11.1**	**3.94**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	NYSDEC Part 375 Restricted-Residential Use SCO										
Boring ID:		nZZP-27-15	nZZQ-26-15	nZZQ-27-15	O-10-14	P-5	TP-08N-14	TP-10	ZZB-27-15	ZZC-26-15	nAL-27-15
Sample Depth (ft):		0-2	0-2	0-2	7	5	6	6.5	0-2	0-2	0-2
Date Sampled:		7/7/2015	7/7/2015	7/7/2015	5/12/2015	5/12/2015	5/12/2015	5/7/2015	7/7/2015	7/7/2015	7/7/2015
Sample ID:		nZZP-27-15 (0-2)	nZZQ-26-15 (0-2)	nZZQ-27-15 (0-2)	O-10-14(7)	P-5 (5)	TP-08N(6)	TP-10(6.5)	ZZB-27-15 (0-2)	ZZC-26-15 (0-2)	nAL-27-15 (0-2)
Arsenic	16	--	--	--	**8.95**	**1.56 J**	**2.23 J**	**7.39**	--	--	**9.81**
Cadmium	4.3	--	--	--	**11.0**	**0.450 J**	--	--	--	--	**0.494**
Chromium	180	**7.92**	**3.24**	**6.08**	**148**	**94.6**	--	--	**4.36**	**6.56**	**33.2**

Notes and Abbreviations on last page.

ARCADIS

Phase 2 Sampling

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)	Boring ID:	nAN-26-15	nAO-27-15	nAU-26-15	nAX-27-15	nBA-27-15	nBD-27-15	nBF-26-15	nM-26-15	nO-27-15	nQ-27-15
	Sample Depth (ft):	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
	Date Sampled:	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015	7/7/2015
	Sample ID:	nAN-26-15 (0-2)	nAO-27-15 (0-2)	nAU-26-15 (0-2)	nAX-27-15 (0-2)	nBA-27-15 (0-2)	nBD-27-15 (0-2)	nBF-26-15 (0-2)	nM-26-15 (0-2)	nO-27-15 (0-2)	nQ-27-15 (0-2)
	NYSDEC Part 375 Restricted-Residential Use SCO										
Arsenic	16	**5.96**	**4.26**	**4.02**	**3.77**	**6.59**	**5.71**	**4.41**	**4.56**	**4.08**	**3.46**
Cadmium	4.3	**0.162**	**0.308**	**0.0969**	**0.244**	**0.120**	**0.735**	**0.268**	**0.120**	**0.193**	**0.167**
Chromium	180	**11.1**	**7.71**	**5.94**	**9.67**	**6.05**	**14.5**	**8.09**	**8.43**	**10.5**	**7.90**

Notes and Abbreviations on last page.

ARCADIS

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (unit in mg/kg)				
	Boring ID:	nS-26-15	nV-26-15	nZ-27-15
	Sample Depth (ft):	0-2	0-2	0-2
	Date Sampled:	7/7/2015	7/7/2015	7/7/2015
	Sample ID:	nS-26-15 (0-2)	nV-26-15 (0-2)	nZ-27-15 (0-2)
	NYSDEC Part 375 Restricted-Residential Use SCO			
Arsenic	16	**2.80**	**2.54**	**5.03**
Cadmium	4.3	**0.0813**	**0.0665**	**0.217**
Chromium	180	**5.00**	**5.36**	**9.17**

Notes and Abbreviations on last page.

Table 7. Concentrations of Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Notes and Abbreviations:

1. Results validated following protocols specified in March 2006 RI/FS Work Plan (ARCADIS G&M, Inc. 2006).
2. Samples analyzed using United States Environmental Protection Agency Method 6010C.
3. Samples analyzed on a dry weight basis.
4. Sample depth as a single value represents the midpoint of sample interval. Sample depth presented as a range represents the interval where the composite sample was collected.

Bold value indicates a detection

indicates exceedance of the respective SCO

Italicized Boring IDs are samples collected by Cardno ATC.

RI/FS	Remedial Investigation/Feasibility Study
NYSDEC	New York State Department of Enviromental Conservation
SCO	Soil Cleanup Objective
ft	Feet below original land surface
mg/kg	Milligrams per kilogram
J	Value is estimated
B	Analyte was detected in the blank

Table 8. Concentrations of Metals in QA/QC Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Sample Name:	FB110414	FB110614	FB110714	FB111014	FB111214	FB111314	FB111414	FB120314	Field Blank	FB120514	FB120814
Sample Date:	11/4/2014	11/6/2014	11/7/2014	11/10/2014	11/12/2014	11/13/2014	11/14/2014	12/3/2014	12/4/2014	12/5/2014	12/8/2014
CONSTITUENT (unit in ug/L)											
Arsenic	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0
Cadmium	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Chromium	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0

Notes and Abbreviations on last page.

Table 8. Concentrations of Metals in QA/QC Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Sample Name:	FB121514	FB050415SL	FB050515	FB050715	FB050815	FB051215	B070715DM1
Sample Date:	12/15/2014	5/4/2015	5/5/2015	5/7/2015	5/8/2015	5/12/2015	7/7/2015
CONSTITUENT (unit in ug/L)							
Arsenic	< 40.0	--	< 40.0	< 40.0	--	< 40.0	--
Cadmium	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	--
Chromium	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0

Notes and Abbreviations:

1. Results validated following protocols specified in March 2006 RI/FS Work Plan (ARCADIS G&M, Inc. 2006).
2. Samples analyzed for Metals using United States Environmental Protection Agency Method 6010C.

RI/FS Remedial Investigation/Feasibility Study
ug/L Micrograms per litre
FB Field Blank

ARCADIS

Table 9. Concentrations of TCLP Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:		B-33	B-33	B-33	B-34	B-34	B-34	B-34	B-34	B-34	B-34	B-60
Sample Midpoint Depth (ft):		1	3	5	1	3	11	12	13	15	17	13
Date Sampled:		5/7/2015	5/7/2015	5/7/2015	5/12/2015	5/12/2015	5/12/2015	5/12/2015	5/12/2015	5/12/2015	5/12/2015	5/8/2015
Sample ID:		B-33 (1)	B-33 (3)	B-33 (5)	B-34 (1)	B-34 (3)	B-34 (11)	B-34 (12)	B-34 (13)	B-34 (15)	B-34 (17)	B-60 (13)
CONSTITUENT (units in ug/l)												
	RCRA TCLP Standards											
Arsenic	5,000	--	--	--	--	--	--	--	--	--	--	--
Cadmium	1,000	--	**19.4**	**39.7**	**103**	--	**55.1**	**12,400**	--	**2,970**	**20,600**	**34.4**
Chromium	5,000	**4.8 J**	**10.5 J**	--	--	**9.5**	**9.3**	--	**260**	**102**	--	**72.6**

Notes and Abbreviations on last page.

ARCADIS

Table 9. Concentrations of TCLP Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:		B-70	B-70	B-70	I-3-SB	I-3-SB	J-5-14	M-12-14	M-12-14	nD-24-14	O-10-14	P-5
Sample Midpoint Depth (ft):		1	3	7	2	2	9	5	7	1	7	5
Date Sampled:		5/12/2015	5/12/2015	5/12/2015	5/12/2015	5/12/2015	5/8/2015	5/12/2015	5/12/2015	5/12/2015	5/12/2015	5/12/2015
Sample ID:		B-70 (1)	B-70 (3)	B-70 (7)	I-3-SB (2)	DUP051215DM2	J-5-14 (9)	M-12-14 (5)	M-12-14 (7)	nD-24-14 (1)	O-10-14 (7)	P-5 (5)
CONSTITUENT (units in ug/l)												
	RCRA TCLP Standards											
Arsenic	5,000	--	--	--	--	--	--	--	--	< 40.0	--	--
Cadmium	1,000	**4.6 J**	**14.7**	**0.70 J**	--	--	--	**31.3**	**68.6**	--	**75.5**	--
Chromium	5,000	--	**6.3 J**	**1.9 J**	**6.8 J**	**6.3 J**	**7.4 J**	--	**417**	--	--	**86.8**

Notes and Abbreviations on last page.

ARCADIS

Table 9. Concentrations of TCLP Metals in Soil Samples, Park Soil Pre-Design Sampling,
Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Boring ID:		TP-08N-14	TP-10
Sample Midpoint Depth (ft):		6	6.5
Date Sampled:		5/12/2015	5/7/2015
Sample ID:		TP-08N-14 (6)	TP-10 (6.5)
CONSTITUENT (units in ug/l)			
	RCRA TCLP Standards		
Arsenic	5,000	< 40.0	**7.8 J**
Cadmium	1,000	--	--
Chromium	5,000	--	--

Notes and Abbreviations:

• Samples were collected every 2 feet.

Bold value indicates a detection

indicates an exceedance of RCRA TCLP Standard

VOCs Volatile organic compounds

ft Feet below original land surface

ug/l Micrograms per liter

J Value is estimated

-- Not analyzed

TCLP: Toxicity Characteristic Leaching Procedure

RCRA: Resource Conservation and Recovery Act

Table 10. Nature and Extent of Soil to be Remediated, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Area	Parameter	Remedial Depth Interval (ft bls)	Remedial Action Objectives (mg/kg) [2]		Nature and Extent of Soils to be Remediated [2]	Impacted [3] Volumes (cy)
Ball Field - PCB Removal Area [1]	PCBs	0-2	1		• There are three, depth-specific RAOs for PCBs in the ball field • The areal extents of PCB impacts that exceed the 0-2, 2-10, and >10 foot remedial depth interval RAOs are shown on Figures 5A and 5B.	3,500
		2-10	10			10,100
		10-25	50			4,200
	Chromium Sludge	0-25	Remove chromium sludge co-located with PCB-impacted soil to extent necessary to achieve PCB RAOs		• Discrete pockets co-mingled with PCB-impacted Park Soils.	-- [4]
	Metals [5]	0-10	Chromium	180	• The areal extents of metal impacts that exceed the 0-2 and 2-10 foot remedial depth interval RAOs are shown on Figures 7A and 7B.	-- [4]
			Cadmium	4.3		
			Arsenic	16		
Ball Field - Outside of PCB Removal Area	Metals [5]	0-2	Chromium	180	• The areal extents of metal impacts that exceed RAOs are shown on Figures 7A and 7B.	300
			Cadmium	4.3		
			Arsenic	16		
Access Road	PCBs	0-2	1		• There are two, depth-specific RAOs for PCBs in the Access Road. • The areal extents of PCB impacts that exceed the 0-2 and 2-10 ft remedial depth interval RAOs are shown on Figure 5A and 5B.	3,300
		2-10	10			500
	Chromium	0-2	180		• The areal extents of chromium impacts that exceed RAOs are shown on Figures 7A and 7B.	300
Eastern Portion of Park	PCBs, Metals [5]	0-2	PCB	1	• The areal extent of PCBs and metals impacts that exceed RAOs are shown on Figures 5B and 7B, respectively..	2,000
			Chromium	180		
			Cadmium	4.3		
			Arsenic	16		
					Combined Total	24,200

Notes:

(1) PCB Removal Area – area within the ball field (defined laterally & vertically) where soil will be remediated to achieve the following PCB RAOs: greater than 1 mg/kg from 0 to 2 feet, greater than 10 mg/kg from 2 to 10 feet, and greater than 50 mg/kg from 10 to 25 feet.

(2) Clean Up Criteria and RAOs provided in the NYSDEC-issued OU3 ROD dated March, 2013.

(3) Volumes of impacted soils were estimated for the sub-areas from EVS modelling conducted by ARCADIS. Volumes are rounded up to the next hundred cubic yards.

(4) These volumes are included in the PCB impacted volumes.

(5) Metals include cadmium, chromium and arsenic.

Acronyms:

cy	cubic yards
ft bls	feet below land surface
metals	Includes one or more of the following: arsenic, cadmium, and chromium
mg/kg	milligrams per kilogram
NYSDEC	New York State Department of Environmental Conservation
OU3	Operable Unit 3
PCBs	polychlorinated biphenyls
RAOs	Remedial Action Objectives
ROD	Record of Decision

ARCADIS

Table 11. Summary of Remedial Technologies, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York. [1]

Remedial Area	Remedial Technologies
Ball Field	• Excavate soil to achieve RAOs (see Figures 5A and 5B, 6, and 7A and 7B). • Wash excavated soil for reuse on-site according to the depth specific reuse criteria.[2] • Backfill from land surface to depth with reused soil (i.e., washing not required), washed soil or off-site clean fill according to the depth specific reuse criteria.[2] • Install demarcation barrier above reused and washed soil. • Soil already capped beneath paved asphalt portions of the Access Road.[3] • Transport and dispose off-site unwashable soil and residual fines filter cake from soil washing. [4,5,6] • Implement land-use restrictions.[7]
Access Road	
Eastern Portion of Park	• Install a two foot soil cap. • Install demarcation barrier between the soil cap and the underlying soil. • Soil already capped beneath paved asphalt and beneath concrete and buildings.[3] • Implement land-use restrictions.[7]

Notes:

(1) Remedial technologies based on the OU3 ROD prescribed RAOs.

(2) Backfill can consist of either washed soil directly, reused soil (i.e. washing not required), or imported soil and must meet the following depth specific criteria:
PCBs less than 50 mg/kg and non-hazardous concentrations of metals and VOCs below 10 ft bls;
PCBs less than 10 mg/kg and metals and VOCs less than RRSCOs from 2 to 10 ft bls; and
PCBs, metals, and VOCs less than RRSCOs from 0 to 2 ft bls.

(3) Soil which exceeds RRSCOs in the upper 2 feet that is currently located under capped areas (e.g., under paved roads, concrete, or buildings) will be left in place, as the ROD-prescribed remedy has been achieved.

(4) Soil which exceeds characteristically hazardous levels for metals and contain PCBs greater than 1,000 mg/kg, if not feasible to wash, would be disposed off-site at a permitted PCB incineration facility.

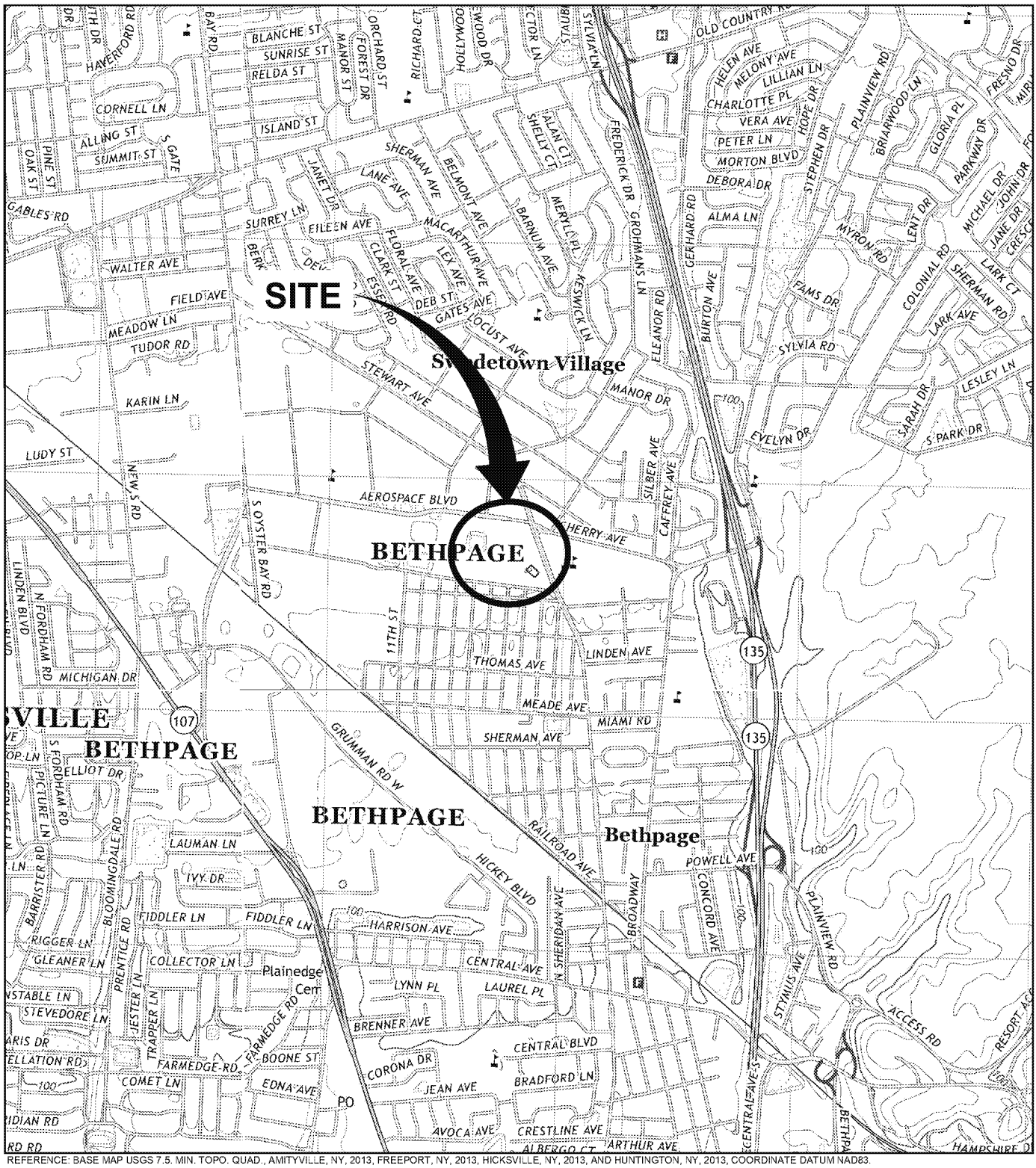
(5) Chromium sludge cannot be washed and must be disposed off-site at a permitted hazardous waste facility.

(6) Based on a pre-design soil washing treatability study, the treatment process would generate a filter cake residue representing approximately 10 percent by weight of the total amount of soil processed. The filter cake from the full-scale process is projected to contain PCBs greater than 50 mg/kg and non-hazardous concentrations of metals, based on the results of the bench scale tests. These results would be further evaluated as part of an optimization study.

(7) Land-use restrictions include an environmental easement to limit site use where residual soil impacts exist above RRSCOs in the top 10 feet.

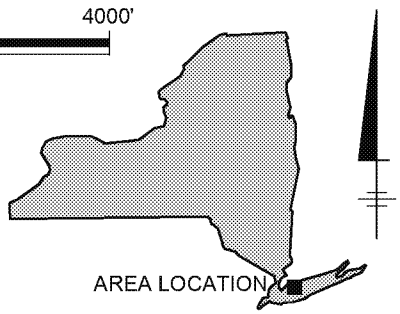
Acronyms:

ft bls	feet below land surface
metals	arsenic, cadmium, and chromium
mg/kg	milligrams per kilogram
OU3	Operable Unit 3
PCBs	polychlorinated biphenyls
RAOs	Remedial Action Objectives
ROD	Record of Decision
RRSCOs	Restricted-Residential Soil Cleanup Objectives
VOCs	volatile organic compounds



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., AMITYVILLE, NY, 2013, FREEPORT, NY, 2013, HICKSVILLE, NY, 2013, AND HUNTINGTON, NY, 2013, COORDINATE DATUM NAD83.

0 2000' 4000'



NORTHROP GRUMMAN SYSTEMS CORPORATION
BETHPAGE, NEW YORK

SITE LOCATION

ARCADIS

FIGURE
1

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\NY001051\0000\PAKBB\NY1051A01.dwg LAYOUT: 1 SAVED: 8/10/2015 11:22 AM ACADVER: 19.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/29/2015 1:28 PM BY: SANCHEZ, ADRIAN

SOURCE:
SITE AERIAL PHOTOGRAPH ADOPTED FROM GOOGLE EARTH PRO WITH AN IMAGERY DATE OF 06/19/2014.

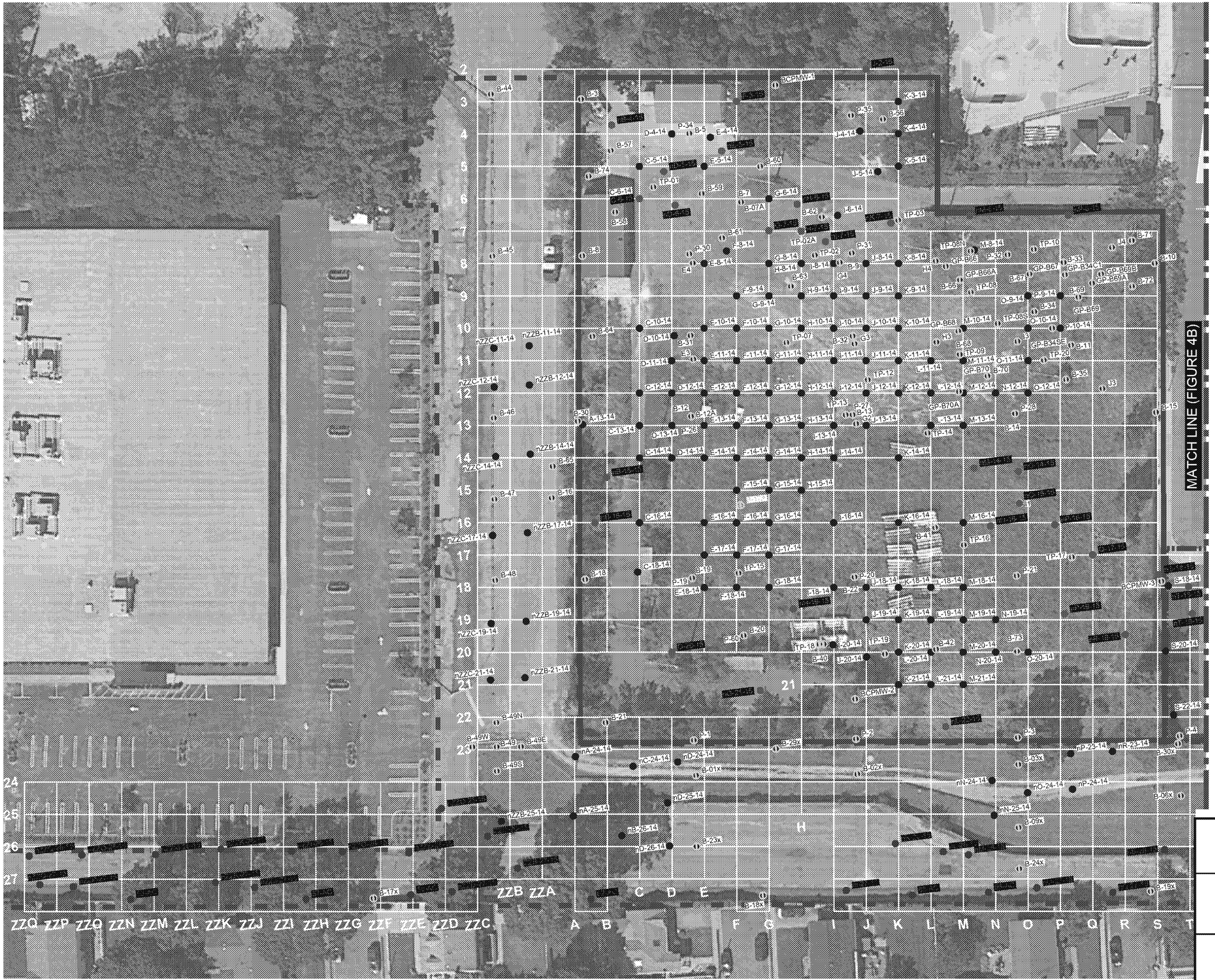
NORTHROP GRUMMAN SYSTEMS CORPORATION
BETHPAGE, NEW YORK

SITE FEATURES

ARCADIS

FIGURE
2

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\NY0010510000\PAX38\NY1051A01.dwg LAYOUT: 2 SAVED: 8/10/2015 11:22 AM ACADVER: 19.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/29/2015 1:28 PM BY: SANCHEZ, ADRIAN



LEGEND:

- HISTORICAL PCB SAMPLE LOCATION
- PHASE 1 PCB SAMPLE LOCATION
- PHASE 2 PCB STEP OUT SAMPLE LOCATION
- ACCESS ROAD PCB STEP OUT SAMPLE LOCATION

AREA LIMITS

- PARK - BALL FIELD
- EASTERN PORTION OF PARK
- ACCESS ROAD

SOURCE:
SITE AERIAL PHOTOGRAPH ADOPTED FROM GOOGLE EARTH PRO WITH AN IMAGERY DATE OF 06/19/2014.

0 60' 120'
APPROXIMATE SCALE IN FEET

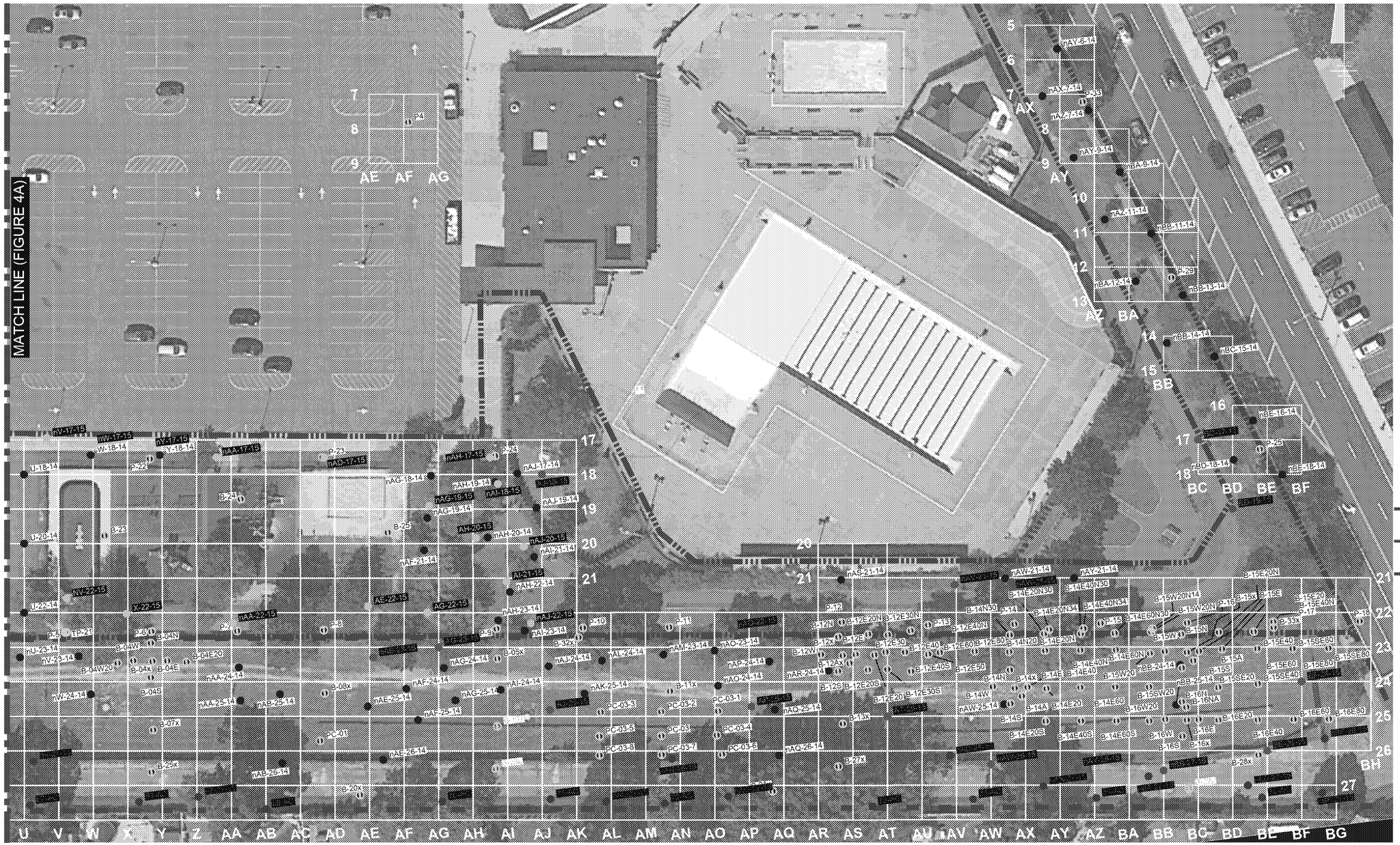
NORTHROP GRUMMAN SYSTEMS CORPORATION
BETHPAGE, NEW YORK

BETHPAGE COMMUNITY PARK PCB SAMPLE LOCATIONS (WESTERN SIDE OF BETHPAGE)

ARCADIS

FIGURE
3A

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\NY001051\0000\PAKB6\NY1051B01pcb.dwg LAYOUT: 3A SAVED: 8/24/2015 3:24 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: PDF LTRP PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/29/2015 1:28 PM BY: SANCHEZ, ADRIAN



LEGEND:

- HISTORICAL PCB SAMPLE LOCATION
- PHASE 1 PCB SAMPLE LOCATION
- PHASE 2 PCB STEP OUT SAMPLE LOCATION
- ACCESS ROAD PCB STEP OUT SAMPLE LOCATION
- PLAYGROUND AREA PCB SAMPLE LOCATION

AREA LIMITS

- PARK - BALL FIELD
- EASTERN PORTION OF PARK
- ACCESS ROAD

0 60' 120'

APPROXIMATE SCALE IN FEET

SOURCE:
SITE AERIAL PHOTOGRAPH ADOPTED FROM GOOGLE EARTH PRO WITH AN IMAGERY DATE OF 06/19/2014.

NORTHROP GRUMMAN SYSTEMS CORPORATION
BETHPAGE, NEW YORK

BETHPAGE COMMUNITY PARK PCB SAMPLE LOCATIONS (EASTERN SIDE OF BETHPAGE)

ARCADIS

FIGURE **3B**

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\NY001051\0000\PAX86\NY10513P1pcb.dwg LAYOUT: 3S SAVED: 8/24/2015 3:24 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: PDF.TRP PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/29/2015 1:28 PM BY: SANCHEZ, ADRIAN

LEGEND:

- HISTORICAL METALS SAMPLE LOCATION
- PHASE 1 METALS SAMPLE LOCATION
- PHASE 2 METALS STEP OUT SAMPLE LOCATION
- ACCESS ROAD METALS STEP OUT SAMPLE LOCATION

AREA LIMITS

- PARK - BALL FIELD
- EASTERN PORTION OF PARK
- ACCESS ROAD

SOURCE:
SITE AERIAL PHOTOGRAPH ADOPTED FROM GOOGLE EARTH PRO WITH AN IMAGERY DATE OF 06/19/2014.

0 60' 120'
APPROXIMATE SCALE IN FEET

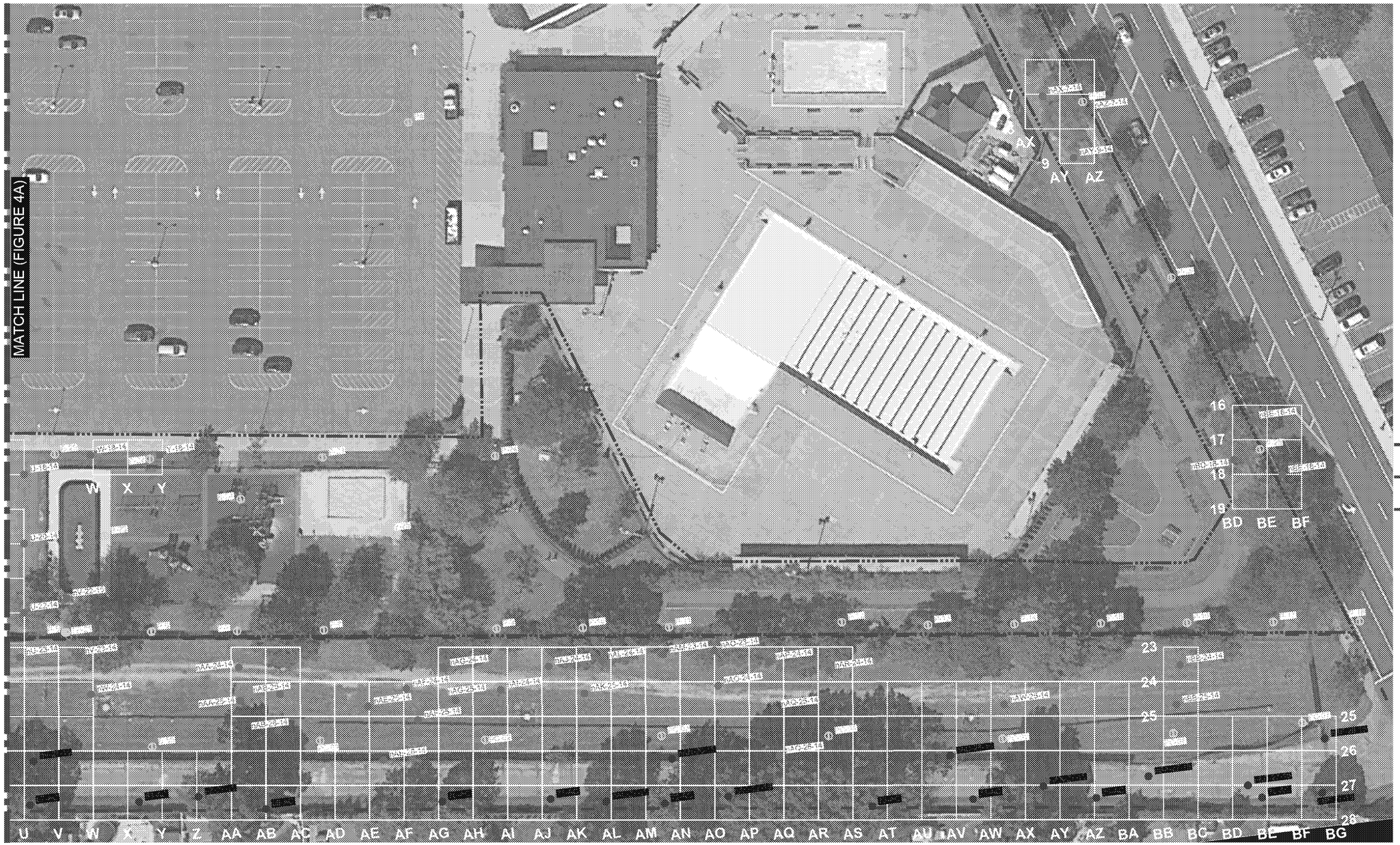
NORTHROP GRUMMAN SYSTEMS CORPORATION
BETHPAGE, NEW YORK

BETHPAGE COMMUNITY PARK METALS SAMPLE LOCATIONS (WESTERN SIDE OF BETHPAGE)

ARCADIS

FIGURE
4A

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\NY001051\0000\PAKB6\NY1051B01metals.dwg LAYOUT: 4A SAVED: 8/24/2015 3:24 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: PDF LTRP PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/29/2015 1:29 PM BY: SANCHEZ, ADRIAN



LEGEND:

- HISTORICAL METALS SAMPLE LOCATION
- PHASE 1 METALS SAMPLE LOCATION
- ACCESS ROAD METALS STEP OUT SAMPLE LOCATION

AREA LIMITS

- PARK - BALL FIELD
- EASTERN PORTION OF PARK
- ACCESS ROAD

0 60' 120'

APPROXIMATE SCALE IN FEET

SOURCE:
SITE AERIAL PHOTOGRAPH ADOPTED FROM GOOGLE EARTH PRO WITH AN IMAGERY DATE OF 06/19/2014.

NORTHROP GRUMMAN SYSTEMS CORPORATION
BETHPAGE, NEW YORK

BETHPAGE COMMUNITY PARK METALS SAMPLE LOCATIONS (EASTERN SIDE OF BETHPAGE)

ARCADIS

FIGURE **4B**

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PMI:(Reqd) TM:(Opt) LYR:(Opt:ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\NY0010510\0000\PAX36\NY105150\metals.dwg LAYOUT: 4B SAVED: 8/24/2015 3:24 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: PDF.TRP PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/29/2015 1:28 PM BY: SANCHEZ, ADRIAN

LEGEND:

TOTAL PCBs EXCEEDING OU3 ROD SOIL CLEANUP GOALS:

PCB CONCENTRATIONS EXCEEDING 1 mg/kg IN SOIL 0-2 FEET BELOW LAND SURFACE; DASHED WHERE UNCERTAIN

PCB CONCENTRATIONS EXCEEDING 10 mg/kg IN SOIL 2-10 FEET BELOW LAND SURFACE

PCB CONCENTRATIONS EXCEEDING 50 mg/kg IN SOIL 2-10 FEET BELOW LAND SURFACE

PCB CONCENTRATIONS EXCEEDING 50 mg/kg IN SOIL DEEPER THAN 10 FEET BELOW LAND SURFACE

A A' SOIL QUALITY CROSS SECTION LINE

mg/kg MILLIGRAMS PER KILOGRAM

PCBs POLYCHLORINATED BIPHENYLS

ROD RECORD OF DECISION

AREA LIMITS

PARK - BALL FIELD

EASTERN PORTION OF PARK

ACCESS ROAD

0 60' 120'

GRAPHIC SCALE

SOURCE:
SITE AERIAL PHOTOGRAPH ADOPTED FROM GOOGLE EARTH PRO WITH AN IMAGERY DATE OF 06/19/2014.

NORTHROP GRUMMAN SYSTEMS CORPORATION
BETHPAGE, NEW YORK

BETHPAGE COMMUNITY PARK EXTENT OF PCBs IN SOIL EXCEEDING OU3 ROD SOIL CLEANUP GOALS (WESTERN SIDE OF BETHPAGE)

ARCADIS

FIGURE
5A

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\NY001051\0000\PAKB6\NY1051B10.dwg LAYOUT: 5A SAVED: 9/29/2015 12:22 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: PDF LTRP PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/29/2015 1:29 PM BY: SANCHEZ, ADRIAN

LEGEND:

TOTAL PCBs EXCEEDING OU3 ROD SOIL CLEANUP GOALS:

PCB CONCENTRATIONS EXCEEDING 1 mg/kg IN SOIL 0-2 FEET BELOW LAND SURFACE; DASHED WHERE UNCERTAIN

PCB CONCENTRATIONS EXCEEDING 10 mg/kg IN SOIL 2-10 FEET BELOW LAND SURFACE

PCB CONCENTRATIONS EXCEEDING 50 mg/kg IN SOIL 2-10 FEET BELOW LAND SURFACE

PCB CONCENTRATIONS EXCEEDING 50 mg/kg IN SOIL DEEPER THAN 10 FEET BELOW LAND SURFACE

A A' SOIL QUALITY CROSS SECTION LINE

mg/kg MILLIGRAMS PER KILOGRAM

PCBs POLYCHLORINATED BIPHENYLS

ROD RECORD OF DECISION

AREA LIMITS

PARK - BALL FIELD

EASTERN PORTION OF PARK

ACCESS ROAD

0 60' 120'

GRAPHIC SCALE

SOURCE:
SITE AERIAL PHOTOGRAPH ADOPTED FROM GOOGLE EARTH PRO WITH AN IMAGERY DATE OF 06/19/2014.

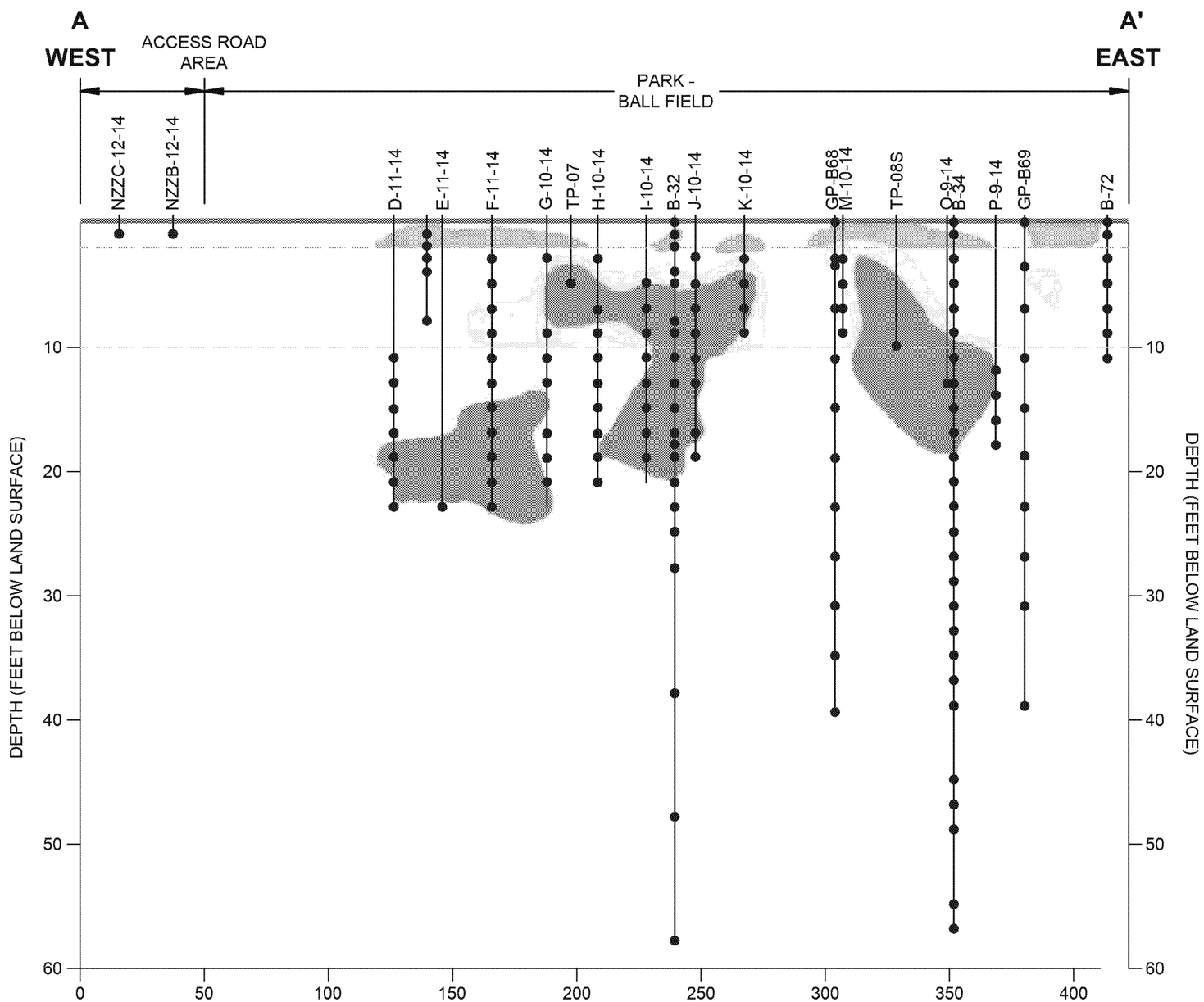
NORTHROP GRUMMAN SYSTEMS CORPORATION
BETHPAGE, NEW YORK

BETHPAGE COMMUNITY PARK EXTENT OF PCBs IN SOIL EXCEEDING OU3 ROD SOIL CLEANUP GOALS (EASTERN SIDE OF BETHPAGE)

ARCADIS

FIGURE
5B

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\NY001051\0000\PAK86\NY1051B10.dwg LAYOUT: 5B SAVED: 9/29/2015 12:22 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/29/2015 3:37 PM BY: SANCHEZ, ADRIAN



SECTION A-A'

VERTICAL EXAGGERATION: 5x

LEGEND:

PCBs EXCEEDING OU3 ROD SOIL CLEANUP GOALS:

PCB CONCENTRATIONS EXCEEDING 1 mg/kg IN SOIL 0-2 FEET BELOW LAND SURFACE

PCB CONCENTRATIONS EXCEEDING 10 mg/kg IN SOIL 2-10 FEET BELOW LAND SURFACE

PCB CONCENTRATIONS EXCEEDING 50 mg/kg IN SOIL 2-10 FEET BELOW LAND SURFACE AND DEEPER THAN 10 FEET BELOW LAND SURFACE

mg/kg MILLIGRAMS PER KILOGRAM

PCBs POLYCHLORINATED BIPHENYLS

ROD RECORD OF DECISION

B-34 SOIL BORING ID

SOIL BORING

SOIL SAMPLE

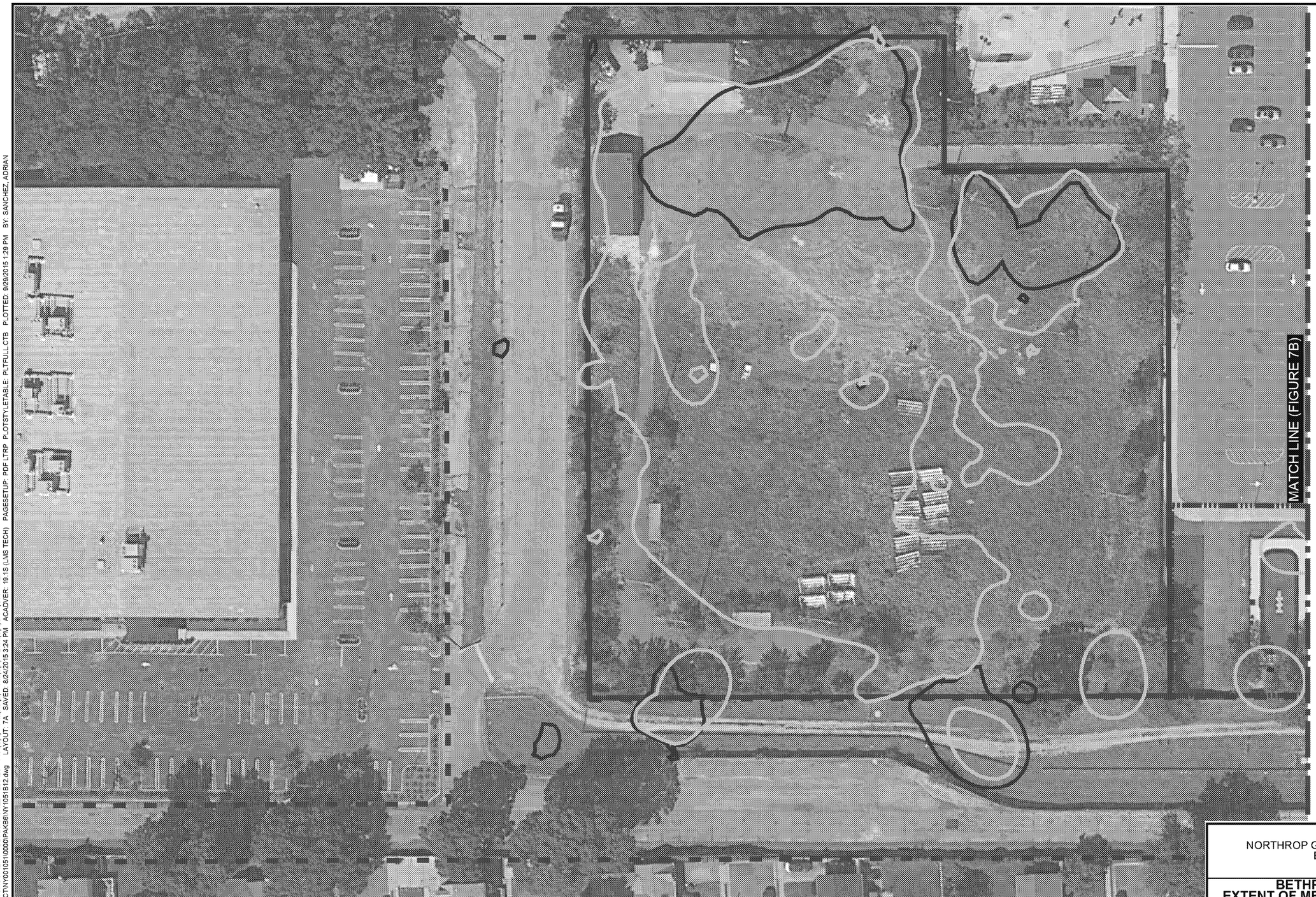
NORTHROP GRUMMAN SYSTEMS CORPORATION
BETHPAGE, NEW YORK

BETHPAGE COMMUNITY PARK CROSS SECTION A - A' OF PCBs IN SOIL EXCEEDING OU3 ROD CLEANUP GOALS

ARCADIS

FIGURE 6

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\NY001051\0000\PAX36\NY105153-2.dwg LAYOUT: 6 SAVED: 8/21/2015 10:06 AM ACADVER: 19.1S (LMS TECH) PAGESETUP: PDF_LTRP PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/29/2015 1:29 PM BY: SANCHEZ, ADRIAN



LEGEND:

METALS EXCEEDING OU3 ROD SOIL CLEAN UP OBJECTIVES IN SOIL 0-2 FEET BELOW LAND SURFACE

METALS EXCEEDING OU3 ROD SOIL CLEAN UP OBJECTIVES IN SOIL 2-10 FEET BELOW LAND SURFACE

METALS EXCEEDING OU3 ROD SOIL CLEAN UP OBJECTIVES CONSIST OF CADMIUM, CHROMIUM, AND ARSENIC

AREA LIMITS

PARK - BALL FIELD

EASTERN PORTION OF PARK

ACCESS ROAD

SOURCE:
SITE AERIAL PHOTOGRAPH ADOPTED FROM GOOGLE EARTH PRO WITH AN IMAGERY DATE OF 06/19/2014.

0 60' 120'
GRAPHIC SCALE

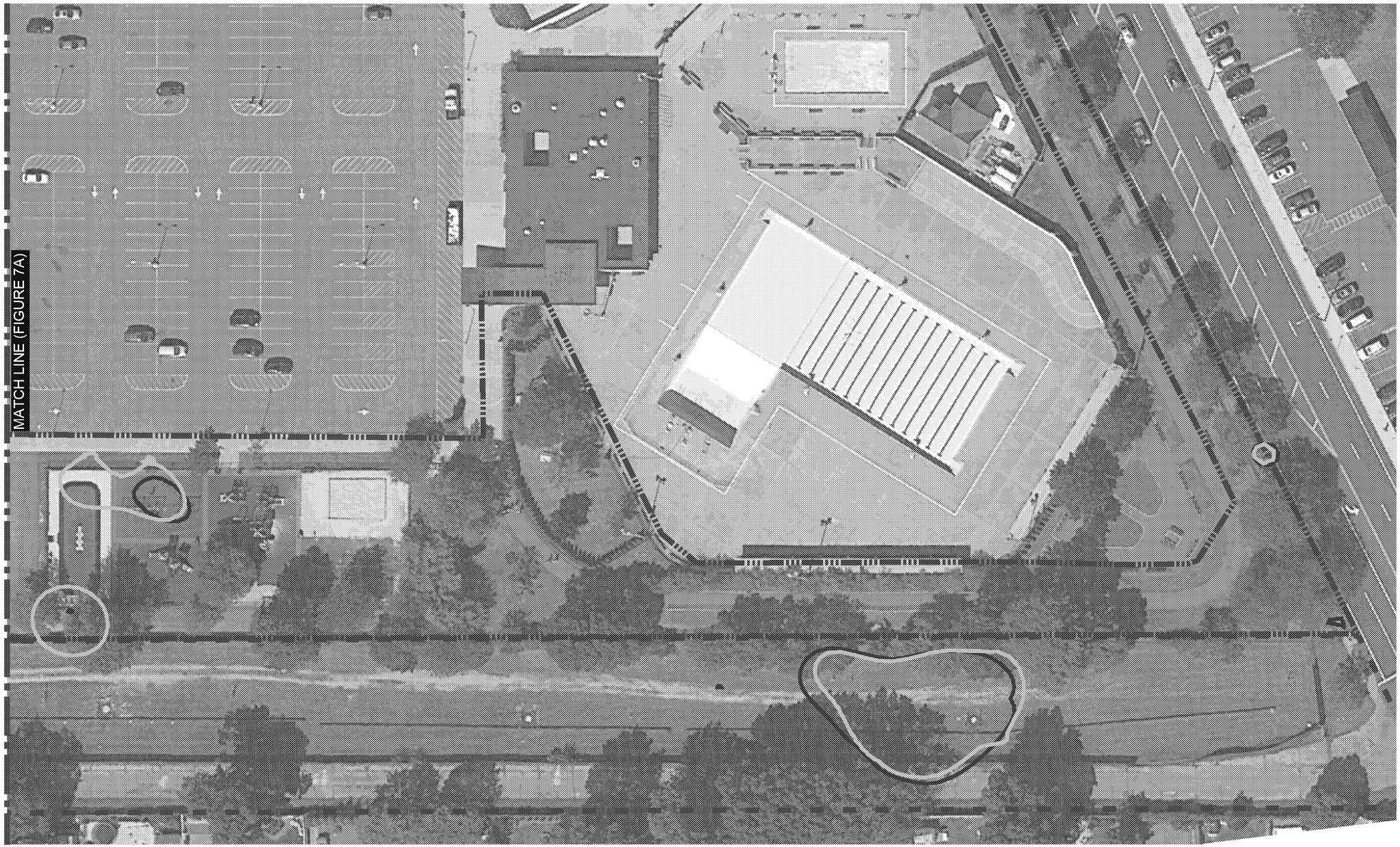
NORTHROP GRUMMAN SYSTEMS CORPORATION
BETHPAGE, NEW YORK

BETHPAGE COMMUNITY PARK
EXTENT OF METALS IN SOIL 0-2 AND 2-10 FEET BELOW LAND SURFACE EXCEEDING OU3 ROD SOIL CLEANUP OBJECTIVES (WESTERN SIDE OF BETHPAGE)

ARCADIS

FIGURE
7A

CITY:SYRACUSE-NY DIV/GROUP:ENV DBA:SANCHEZ, LD:ALS PIC:(Opt) PM:(Read) TM:(Opt) LYR:(Opt)On=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\NY0010510\0000\PAKS\NY1051B12.dwg LAYOUT: 7A SAVED: 8/24/2015 3:24 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: PDF LTRP PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/28/2015 1:28 PM BY: SANCHEZ, ADRIAN



LEGEND:

METALS EXCEEDING OU3 ROD SOIL CLEAN UP OBJECTIVES IN SOIL 0-2 FEET BELOW LAND SURFACE

METALS EXCEEDING OU3 ROD SOIL CLEAN UP OBJECTIVES IN SOIL 2-10 FEET BELOW LAND SURFACE

METALS EXCEEDING OU3 ROD SOIL CLEAN UP OBJECTIVES CONSIST OF CADMIUM, CHROMIUM, AND ARSENIC

AREA LIMITS

PARK - BALL FIELD

EASTERN PORTION OF PARK

ACCESS ROAD

SOURCE:
SITE AERIAL PHOTOGRAPH ADOPTED FROM GOOGLE EARTH PRO WITH AN IMAGERY DATE OF 06/19/2014.

0 60' 120'

GRAPHIC SCALE

NORTHROP GRUMMAN SYSTEMS CORPORATION
BETHPAGE, NEW YORK

BETHPAGE COMMUNITY PARK
EXTENT OF METALS IN SOIL 0-2 AND 2-10 FEET BELOW LAND SURFACE EXCEEDING OU3 ROD SOIL CLEANUP OBJECTIVES (EASTERN SIDE OF BETHPAGE)

ARCADIS

FIGURE
7B

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt:ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\NY0010510000\PAX36\NY0510312.dwg LAYOUT: 7B SAVED: 8/24/2015 3:24 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: PDF LTRP PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/28/2015 1:28 PM BY: SANCHEZ, ADRIAN

LEGEND:

- EXCAVATION TO 2 FEET BLS
- EXCAVATION TO 10 FEET BLS OR LESS
- EXCAVATION TO 25 FEET BLS OR LESS
- SOIL CAPPED IN PLACE (CAPPED UNDER EXISTING ASPHALT OR CONCRETE)
- INSTALL 2 FOOT THICK SOIL COVER
- SOIL STOCK PILE/ SOIL WASHING AREA

BLS BELOW LAND SURFACE

AREA LIMITS

- BALL FIELD
- EASTERN PORTION OF PARK
- ACCESS ROAD

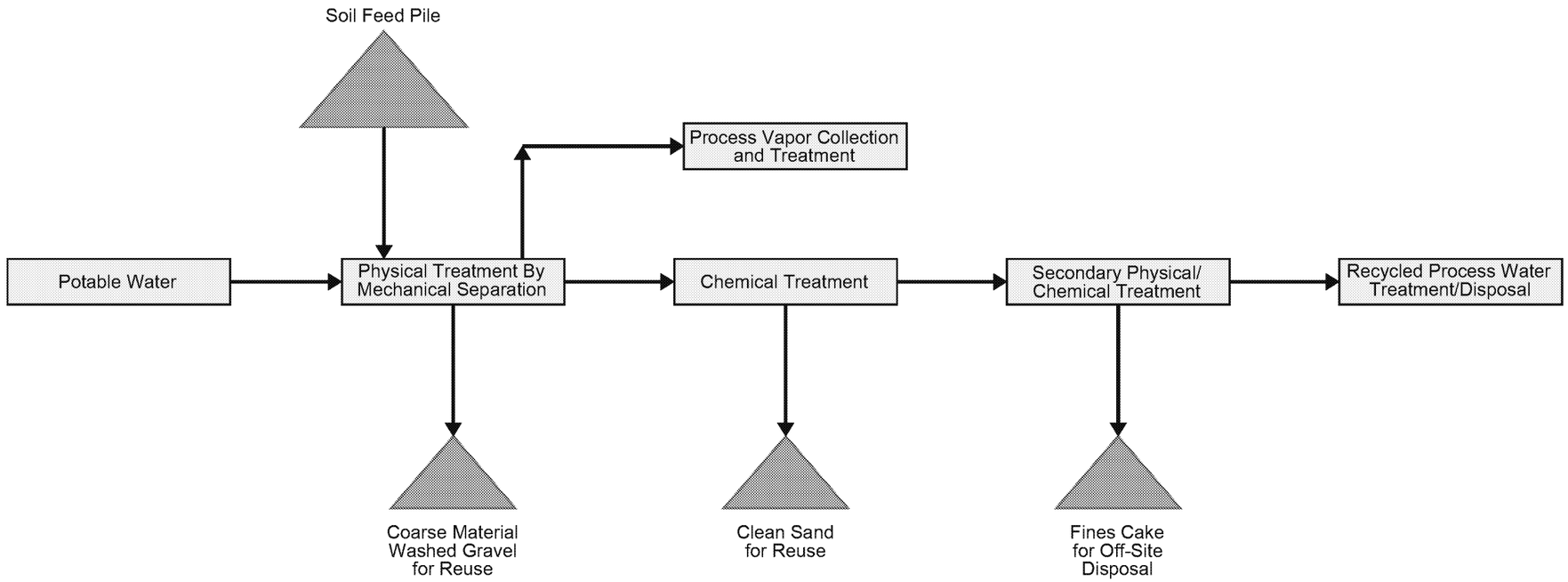
NORTHROP GRUMMAN SYSTEMS CORPORATION
BETHPAGE, NEW YORK

CONCEPTUAL EXCAVATION PROGRAM

ARCADIS

FIGURE
8

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\NY0010510000\PA\36\NY1051836c.dwg LAYOUT: 8 SAVED: 9/29/2015 12:16 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: PDF_TRP PLOTSTYLETABLE: P_TFULL.CTB PLOTTED: 9/29/2015 1:30 PM BY: SANCHEZ, ADRIAN



NOTE:

1. CONFIRMATORY SAMPLING CONDUCTED PRIOR TO REUSE/DISPOSAL.

NORTHROP GRUMMAN SYSTEMS CORPORATION
BETHPAGE, NEW YORK

CONCEPTUAL SOIL WASHING PROCESS

ARCADIS

FIGURE
9

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\NY0010510000\PAX36\NY1051T01.dwg LAYOUT: 9B SAVED: 9/29/2015 1:20 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 10/5/2015 3:25 PM BY: SANCHEZ, ADRIAN