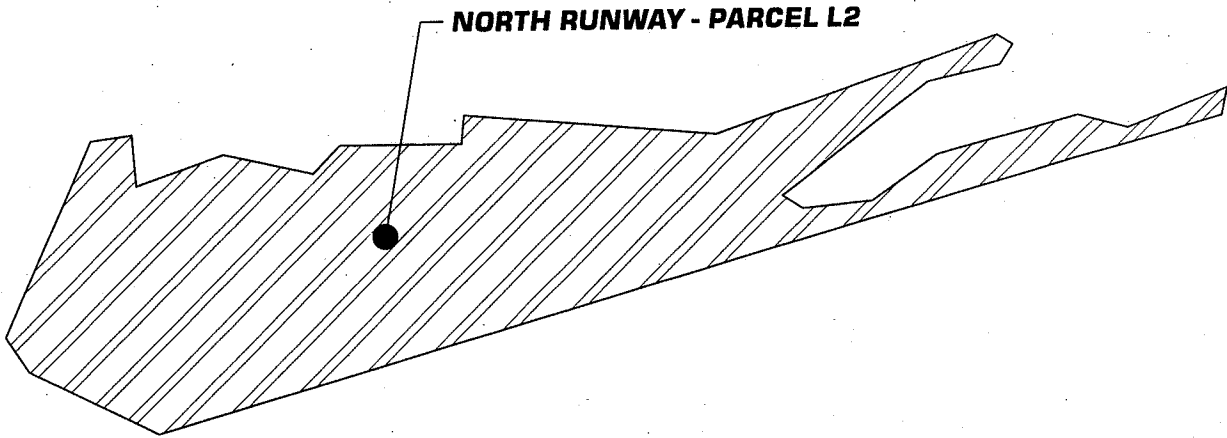


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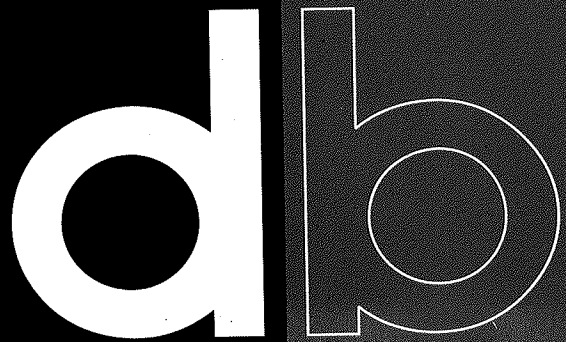
NORTHROP GRUMMAN

BETHPAGE FACILITY



PHASE II SITE ASSESSMENT NORTH RUNWAY - PARCEL L2

NORTHROP GRUMMAN CORPORATION
BETHPAGE, NEW YORK



Dvirka and Bartilucci
Consulting Engineers

MARCH 1997



**Dvirka
and
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March 10, 1997

John Cofman, P.E.
Lead Engineer
Environmental Technology and Compliance
Northrop Grumman Corporation
Mail Stop: D08-001
Bethpage, NY 11714-3582

Re: Phase II Site Assessment
North Runway - Parcel L2
Bethpage, New York
D&B No. 801/96-54

Dear Mr. Cofman:

Enclosed please find eight copies of the document entitled:

*"Phase II Site Assessment
North Runway - Parcel L2
Bethpage, New York"*

If you have any questions and/or comments, please do not hesitate to contact Mr. Errol Kitt or me at (516) 364-9890.

Very truly yours,

Richard M. Walka
Vice President

RMW/cmc

cc: J. Ohlmann (NGC)
A. Postyn (NGC)
E. Kitt (D&B)

♦0801\RMW97-51.LTR



A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

PHASE II SITE ASSESSMENT

**NORTHROP GRUMMAN CORPORATION
NORTH RUNWAY - PARCEL L2
BETHPAGE, NEW YORK**

PREPARED FOR

**NORTHROP GRUMMAN CORPORATION
BETHPAGE, NEW YORK**

PREPARED BY

**DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
WOODBURY, NEW YORK**

MARCH 1997

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**PHASE II SITE ASSESSMENT
NORTHROP GRUMMAN CORPORATION
NORTH RUNWAY - PARCEL L2
BETHPAGE, NEW YORK**

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Section 1

1.0 INTRODUCTION

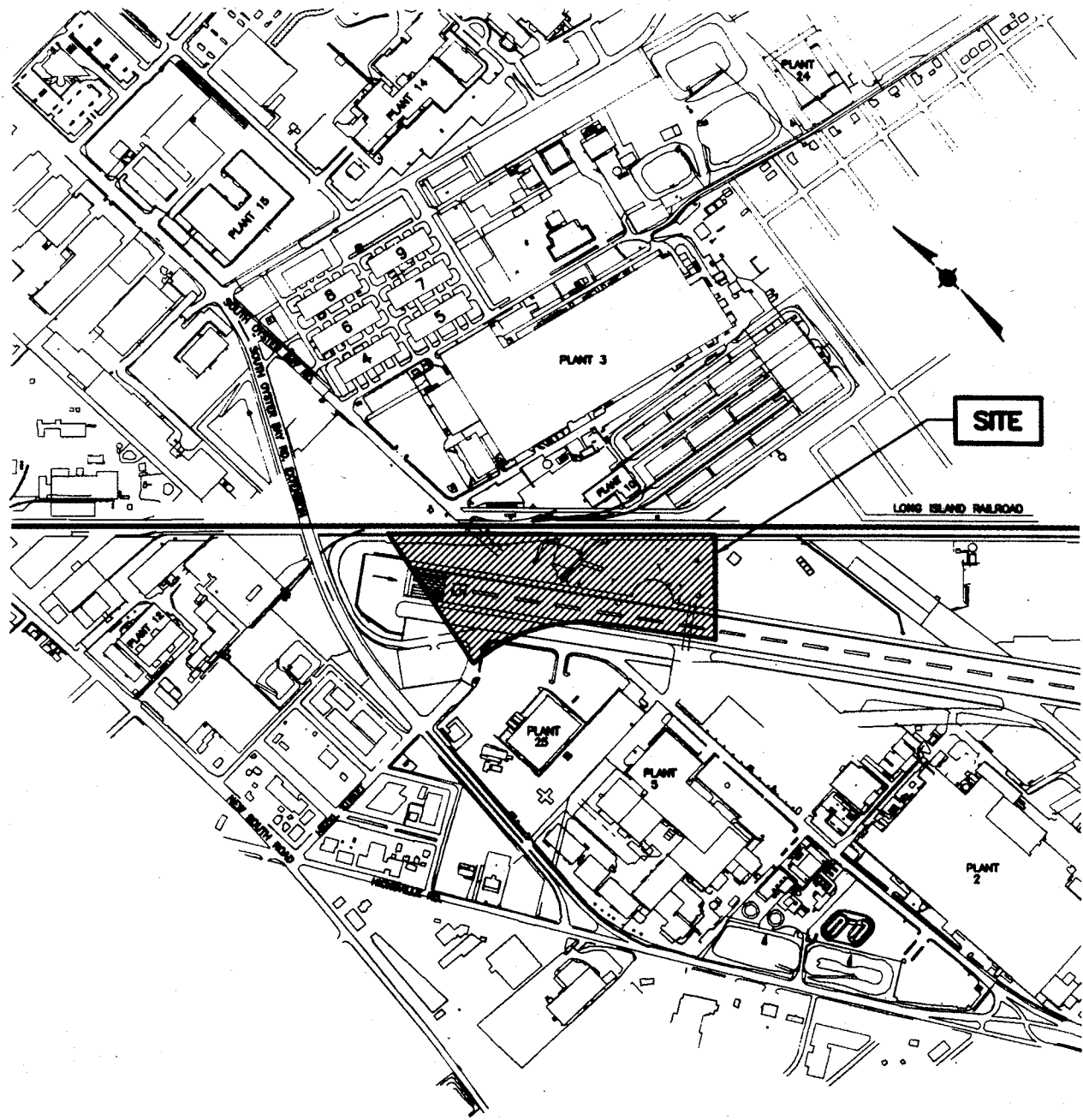
This report presents the findings of a Phase II Site Assessment undertaken at the Northrop Grumman Corporation (NGC) property known as "North Runway - Parcel L2". The site is located approximately 400 feet east of the South Oyster Bay Road Extension, immediately south of the Long Island Railroad (LIRR) tracks in Bethpage, New York. A site location map is presented on Figure 1-1.

Dvirka and Bartilucci Consulting Engineers (D&B) was retained by NGC to undertake a Phase II Site Assessment at the North Runway - Parcel L2 site in order to investigate the presence of any soil contamination. D&B provided engineering services in connection with the field investigation, oversight of subcontractors, and preparation of this report.

The objective of this report is to document and present the results of the Phase II Site Assessment, which included the sampling of subsurface soil and the sampling of soil/sediment from the bottom of dry wells at the North Runway - Parcel L2 site. The report provides a presentation of the analytical results of soil and sediment samples, along with a comparison of these results to appropriate soil cleanup objectives, as well as conclusions.

A description of the site and other background information is presented in Section 2 of this report. The technical scope of work for the Phase II field investigation and the dry well soil/sediment sampling program is described in Section 3. The procedures followed throughout the course of the Phase II field investigation and dry well soil/sediment sampling program are described in Section 4. Section 5 presents the analytical results of the soil and sediment samples and the findings of the Phase II field investigation and dry well soil/sediment sampling program. Based on the findings, conclusions and a discussion of the reasons why we believe additional investigation activities and/or remedial actions are not warranted are provided in Section 6.

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NORTH RUNWAY - PARCEL L2

SITE LOCATION MAP



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FIGURE 1-1

Section 2

2.0 SITE DESCRIPTION/BACKGROUND

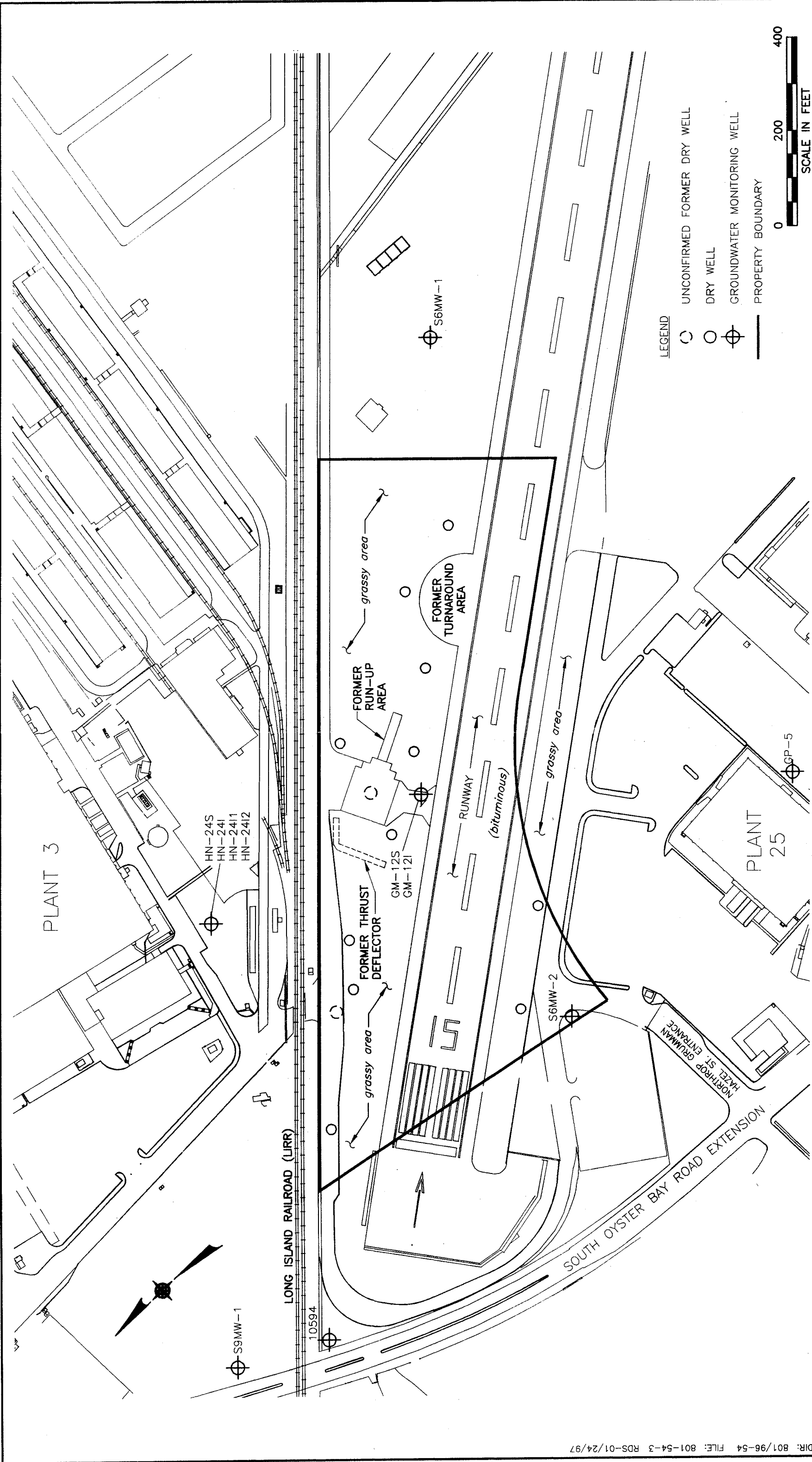
Site Description

A site plan of the North Runway - Parcel L2 property is presented on Figure 2-1. As shown on Figure 2-1, the site is located approximately 400 feet east of the South Oyster Bay Road Extension and immediately south of the LIRR tracks. The site is located within an area zoned Industrial H. Industrial and commercial properties are located to the north, east, south, and west.

The North Runway - Parcel L2 site encompasses approximately 15 acres and, other than the former runway and associated support roadways and tarmac areas, is currently undeveloped. Historically, the site was used as a runway for aircraft designed, developed, manufactured and tested by NGC. Prior to approximately 1955, the site was bisected by South Oyster Bay Road and the original runway ended in the southern part of the site. A semicircular concrete turnaround area is currently located at the end of the original runway in the southern part of the site. Sometime between 1950 and 1955, South Oyster Bay Road was re-routed to the west and the original runway was extended to the north. The runway was in use until 1990, at which time it was "closed."

In the 1960's, an aircraft run-up area was constructed in the grassy area northeast of the runway extension, which is centrally located within the site. The run-up area was used to "run-up" the aircraft engines as a systems check prior to take-off. A thrust deflector was located to the north of the run-up area, which was used to provide controlled deflection of aircraft exhaust. All aircraft maintenance and deicing procedures took place off-site further southeast in the vicinity of NGC Plant 4.

In addition to the site being used as a runway until 1990, the central part of the site is currently being used as a roadway connecting the northern and southern portions of the NGC facility, which are bisected by the LIRR tracks. Roadways crossing the western corner of the site



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NORTHROP GRUMMAN CORPORATION
NORTH RUNWAY - PARCEL L2

SITE PLAN

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are currently being used as an extension from the NGC Hazel Street entrance to other parts of the facility. The North Runway - Parcel L2 site is currently inactive, with the exception of the roadways. The majority of the runway fixtures (i.e., lighting systems and thrust deflectors) have been removed.

The North Runway - Parcel L2 property is generally level with topography gradually sloping away from the runway to facilitate storm water drainage. Ground elevation (grade) is approximately 120 feet above mean sea level. The depth to groundwater beneath the site is approximately 53 feet below grade. Approximately half of the site is covered by asphalt, concrete or other impervious building materials due to the runway and associated roadways and tarmac areas. The remaining portions of the site are covered by grassy areas. NGC Quadrangle maps of the North Runway - Parcel L2 property indicate underground water supply, sanitary sewer, electrical, telephone and gas lines are located beneath the site, as well as several dry wells with interconnecting piping for storm water conveyance and management.

Background

The North Runway - Parcel L2 site is located downgradient of known sources of groundwater contamination. Previous investigations have documented groundwater contamination in the vicinity of and beneath the site. However, previous and ongoing investigations have documented the sources of groundwater contamination to be from off-site, upgradient locations.

D&B conducted an assessment, which included the North Runway - Parcel L2 site, in support of a Delisting Petition, dated February 1993, entitled "New York State Site Registry Delisting Petition - Site 6 (Runway)." In response to the Delisting Petition, on September 30, 1994, the New York State Department of Environmental Conservation (NYSDEC) removed the North Runway - Parcel L2 property from the Registry of Inactive Hazardous Waste Disposal Sites in New York.

D&B conducted a Phase I Site Assessment of the adjacent North Runway - Parcel L1 site in April 1996. North Runway - Parcel L1 is located to the north of Parcel L2, between the South Oyster Bay Road Extension and Parcel L2, immediately south of the LIRR tracks. According to the Phase I Site Assessment report, thrust deflectors were used at NGC to provide controlled deflection of aircraft exhaust.

Subsequent to the preparation of the Phase I Site Assessment report for the North Runway - Parcel L1 site, NGC indicated that herbicides and rodenticides may have been used for weed and vector control, respectively, along the end and edges of the runway. In addition, the thrust deflectors may have been constructed of treated wood which was painted with a wood preservative and other pigmented coatings.

Although herbicides that were utilized more recently on a limited basis included United States Environmental Protection Agency (USEPA)-registered, commercially available products, herbicides used in past applications were believed to have included formulations pre-dating USEPA's registration requirements. Arsenic-based compounds including arsenates and arsenites are commonly used as herbicides, insecticides, larvicides and pesticides, and arsenic is present in rodenticides. In addition, the thrust deflectors were reportedly constructed of "CCA" treated wood which contains arsenic.

It is important to note that while we identified these locations as potential areas of concern as part of the Phase I Site Assessment, we did so with the understanding that any constituents of concern detected were clearly not associated with releases from any chemical process operations, manufacturing, chemical storage, waste storage or chemical or oil releases or spills. In fact, the constituents are residuals associated with either exhaust from commercial or military aircraft or possibly from commercially available herbicides, rodenticides or wood treatment formulations sold "over the counter" and utilized in common runway maintenance programs. Regardless of whether these commercially available products were used either prior to or subsequent to EPA registration requirements would likely not significantly modify the chemical constituents utilized.

In any event, given the fact that the constituents detected are likely associated with the normal and intended use of commercially available products found in virtually all households and commercial establishments does not warrant classifying these areas as potential areas of concern requiring additional investigation and possibly future remediation.

Section 3

3.0 SCOPE OF WORK

This section provides an overview of the recommended technical scope of work for the Phase II field investigation and dry well soil/sediment sampling program.

3.1 Phase II Field Investigation

The objective of the Phase II Site Assessment was to investigate potential contamination at the North Runway - Parcel L2 Site. While in the previous section we present a discussion of why we believe that the areas we recommended for targeted sampling do not "fit" the definition of "potential areas of environmental concern," nonetheless, these areas were selected for investigation based on previous studies conducted by D&B and a review of NGC documents. The following is an outline of the scope of work for the Phase II field investigation:

Area Adjacent to Former Thrust Deflector on North Runway - Parcel L1

- Advance three borings (L2-1, L2-2 and L2-3) adjacent to the boundary between Parcels L1 and L2, in the vicinity of the former thrust deflectors and previous borings designated NR1, NR24 and NR42 associated with Parcel L1, using a drill rig and collect split spoon soil samples at depths of 0 to 1 foot, 1 to 2 feet, 2 to 4 feet, 4 to 6 feet and 6 to 8 feet below grade at each boring location.
- Laboratory analysis of each soil sample (total of 15 samples) for: volatile organic compounds (VOCs) by USEPA Method 8240 (Method 8240), semivolatile organic compounds (SVOCs) by USEPA Method 8270 (Method 8270), total petroleum hydrocarbons (TPHCs) by USEPA Method 418.1 (Method 418.1), fuel-related constituents by New York State Department of Health (NYSDOH) Method 310-13 (Method 310-13) only if TPHCs are detected, and priority pollutant metals by USEPA Methods 6010 and 7471 (Methods 6010 and 7471).

Perimeter and Center of Runway

- Advance borings at eight locations (L2-4, L2-5, L2-6, L2-7, L2-8, L2-9, L2-10 and L2-11) along the perimeter of the site and beneath the runway at the center of the site, at approximately 400-foot intervals, using a drill rig and collect split spoon soil samples at depths of 0 to 1 foot, 1 to 2 feet, 2 to 4 feet and 4 to 6 feet below grade at each boring location.

- Laboratory analysis of each soil sample (total of 32 samples) for VOCs (Method 8240), SVOCs (Method 8270), TPHCs (Method 418.1), fuel-related constituents (Method 310-13) only if TPHCs are detected, and priority pollutant metals (Methods 6010 and 7471).

Former Runway Turnaround

- Advance three borings (L2-12, L2-13 and L2-14) along the edge of the former runway turnaround using a drill rig and collect split spoon soil samples at depths of 0 to 1 foot, 1 to 2 feet, 2 to 4 feet and 4 to 6 feet below grade at each boring location.
- Laboratory analysis of each soil sample (total of 12 samples) for VOCs (Method 8240), SVOCs (Method 8270), TPHCs (Method 418.1), fuel-related constituents (Method 310-13) only if TPHCs are detected, and priority pollutant metals (Methods 6010 and 7471).

Former Run-Up Area Thrust Deflector

- Advance four borings (L2-15, L2-16, L2-17 and L2-18) in the vicinity of the former thrust deflector at the former run-up area adjacent to the runway using a drill rig and collect split spoon soil samples at depths of 0 to 1 foot, 1 to 2 feet, 2 to 4 feet, 4 to 6 feet and 6 to 8 feet below grade at each boring location.
- Laboratory analysis of each soil sample (total of 20 samples) for VOCs (Method 8240), SVOCs (Method 8270), TPHCs (Method 418.1), fuel-related constituents (Method 310-13) only if TPHCs are detected, and priority pollutant metals (Methods 6010 and 7471).

3.2 Dry Well Soil/Sediment Sampling Program

D&B recommended that soil/sediment samples be collected from the bottom of each of four on-site dry wells. The dry well sampling program was undertaken after completion of the Phase II field investigation. The following is an outline of the scope of work for the dry well soil/sediment sampling program:

Pump Out and Disposal of Dry Well Liquid

- Pump out liquid, if present, in each dry well.

- Transport and disposal of all dry well liquid at NGC's Industrial Wastewater Treatment Plant (IWTP).

Dry Well Soil/Sediment Sampling

- Collect soil/sediment samples from the bottom of four dry wells (DWL2-1, DWL2-2, DWL2-3 and DWL2-4) located on the site. Advance a boring through the center of each dry well to a depth of 4 feet below the bottom of the dry well and collect split spoon soil/sediment samples at depths of 0 to 2 feet and 2 to 4 feet below the bottom of each dry well.
- Laboratory analysis of each soil/sediment sample (total of 8 samples) for VOCs (Method 8240), SVOCs (Method 8270), TPHCs (Method 418.1), fuel-related constituents (Method 310-13) only if TPHCs are detected, and priority pollutant metals (Methods 6010 and 7471).

Section 4

4.0 FIELD ACTIVITIES

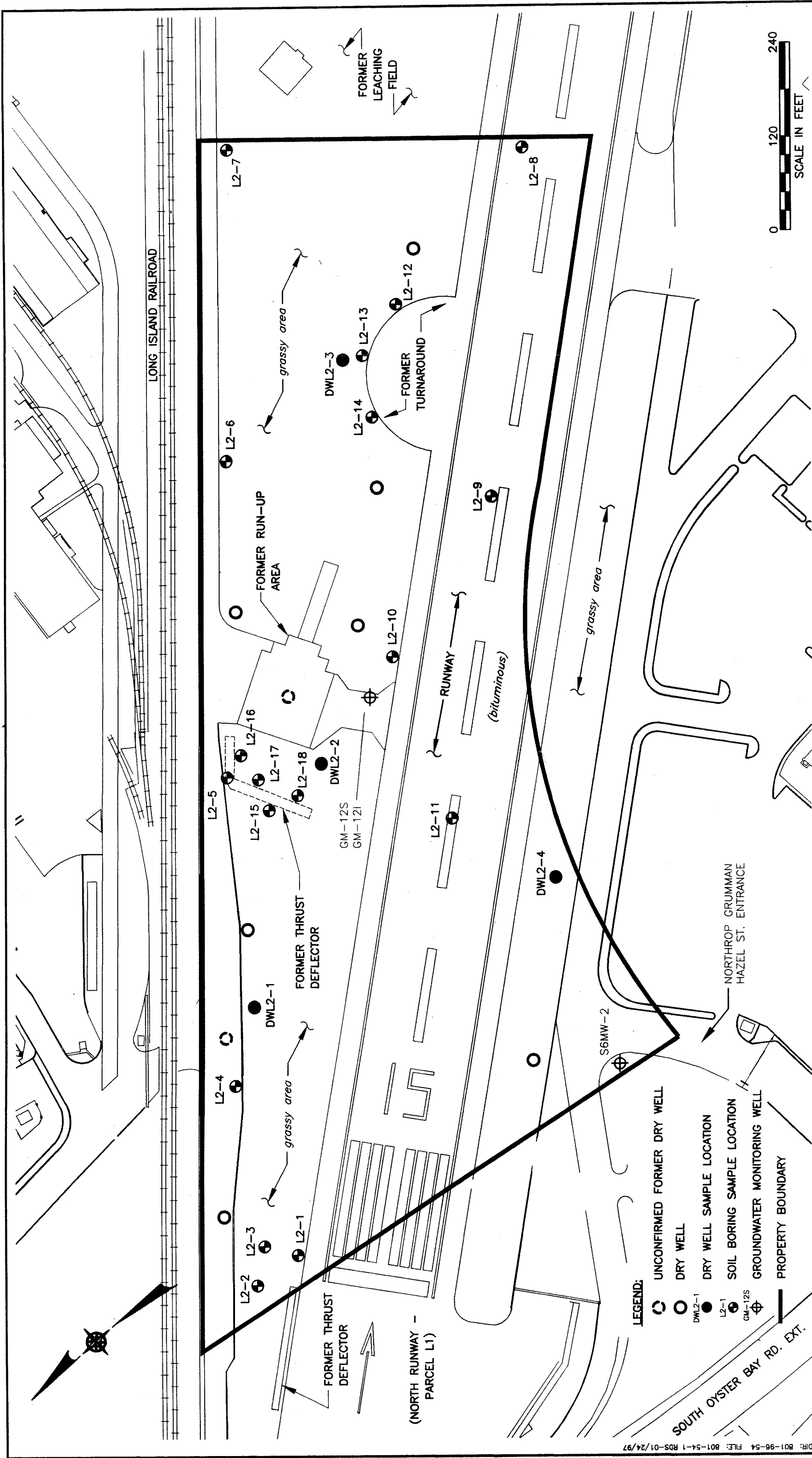
This section provides a brief description of the field activities conducted in support of the Phase II Site Assessment at the North Runway - Parcel L2 Site. Daily field activity reports, which are available in the project file, provide documentation of the Phase II field investigation and the dry well soil/sediment sampling program.

4.1 Phase II Field Investigation

Eighteen soil borings, designated L2-1 through L2-18, were advanced at the North Runway - Parcel L2 Site at locations described in Section 3.1 and illustrated on Figure 4-1. As indicated in Section 3.1, the Phase II field investigation at the North Runway - Parcel L2 addressed the following areas:

- Area Adjacent to Former Thrust Deflector on North Runway - Parcel L1
- Perimeter and Center of Runway
- Former Runway Turnaround
- Former Run-Up Area Thrust Deflector

All soil borings were advanced using a 4-1/4 inch hollow stem auger with samples collected using a 2-inch diameter split spoon sampler. Split spoon sampling was conducted at the Area Adjacent to Former Thrust Deflector on North Runway - Parcel L1 and the Former Run-up Area Thrust Deflector from 0 to 1 foot, 1 to 2 feet, 2 to 4 feet, 4 to 6 feet and 6 to 8 feet below grade. Split spoon sampling was conducted at the Perimeter and Center of Runway and the Former Runway Turnaround from 0 to 1 foot, 1 to 2 feet, 2 to 4 feet, and 4 to 6 feet below grade. A total of 79 soil samples were collected and analyzed for VOCs (Method 8240), SVOCs (Method 8270), TPHCs (Method 418.1), fuel-related constituents (Method 310-13) only if TPHCs were detected, and priority pollutant metals (Methods 6010 and 7471).



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SOIL BORING AND DRY WELL LOCATION MAP

All boring and sampling equipment, including the 4-1/4 inch hollow stem augers and 2-inch diameter split spoon samplers, was decontaminated between sample collection and sample locations using a high pressure steam cleaner. All decontamination water was contained in 55-gallon drums for proper disposal by NGC.

4.2 Dry Well Soil/Sediment Sampling Program

Soil/sediment samples were collected from four dry wells, identified on Figure 4-1 as DWL2-1, DWL2-2, DWL2-3, and DWL2-4, at the North Runway - Parcel L2 Site. Soil/sediment samples were collected by advancing a boring at the center of each dry well and collecting samples at 0 to 2 feet and 2 to 4 feet below the bottom of each dry well. Prior to collecting samples, liquids were removed/pumped out of the dry wells, if present, using a high pressure vacuum truck. Initially, the liquids removed from each dry well were transported and disposed of at the NGC Industrial Wastewater Treatment Plant (IWTP). However, due to the fact that one of the tanker trucks inadvertently contained a small amount of residual oil within its off load piping, liquids from the dry wells were also transported off-site by AB Oil Service Ltd. of Bohemia, New York and disposed at International Petroleum Corporation (IPC) of Delaware in Wilmington, Delaware.

All borings were advanced using a 4-1/4 inch hollow stem auger with samples collected using a 2-inch diameter split spoon sampler. Split spoon sampling was conducted from 0 to 2 feet and 2 to 4 feet below the bottom of each dry well. A total of 8 soil samples were collected and analyzed for VOCs (Method 8240), SVOCs (Method 8270), TPHCs (Method 418.1), fuel-related constituents (Method 310-13) only if TPHCs were detected, and priority pollutant metals (Methods 6010 and 7471).

All boring and sampling equipment, including the 4-1/4 inch diameter hollow stem augers and 2-inch diameter split spoon samplers, was decontaminated between sample collection and sample locations using a high pressure steam cleaner. All decontamination water was contained in 55-gallon drums for proper disposal by NGC.

Section 5

5.0 FINDINGS

This section presents the findings of the Phase II Site Assessment including a summary of the analytical results of the soil and sediment samples obtained during the Phase II field investigation and dry well soil/sediment sampling program. Soil sample results are compared to the criterion included in Appendix A of the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) No. 4046 (referred to in this document as "NYSDEC TAGM criterion"), as well as the typical Eastern USA background soil contaminant concentration ranges included in the TAGM (referred to in this document as "Eastern USA background levels").

5.1 Phase II Subsurface Soil Sampling

As stated in Section 4.1, the Phase II field investigation at the North Runway - Parcel L2 Site was divided into four areas of concern:

- Area Adjacent to Former Thrust Deflector on North Runway - Parcel L1
- Perimeter and Center of Runway
- Former Runway Turnaround
- Former Run-Up Area Thrust Deflector

A total of 18 soil borings were advanced and subsurface soil samples collected in each area during the Phase II field investigation. The analytical results of these samples are presented on Tables B-1 through B-4 in Appendix B. A discussion of the analytical results, by area, is provided in the sections that follow.

5.1.1 Area Adjacent to Former Thrust Deflector on North Runway - Parcel L1

As indicated in Section 4.1, a total of three borings were advanced and 15 soil samples were collected from the area adjacent to the former thrust deflector on North Runway - Parcel L1 at boring locations L2-1, L2-2 and L2-3 (i.e., five samples collected at each location) and

analyzed for VOCs, SVOCs, TPHCs/fuel-related constituents and priority pollutant metals. The results are summarized as follows:

Samples L2-1 through L2-3 (0-1', 1'-2', 2'-4', 4'-6' and 6'-8')

- Volatile Organic Compounds
 - Not detected above NYSDEC TAGM criterion.
- Semivolatile Organic Compounds
 - Benzo(a)anthracene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-1 (0-1', 1'-2' and 6'-8') and L2-3 (0-1').
 - Chrysene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-1 (0-1' and 1'-2').
 - Benzo(b)fluoranthene and benzo(k)fluoranthene were detected at concentrations exceeding the NYSDEC TAGM criteria in L2-1 (0-1').
 - Benzo(a)pyrene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-1 (0-1', 1'-2', 4'-6' and 6'-8'), L2-2 (0-1') and L2-3 (0-1' and 6'-8').
 - Total polycyclic aromatic hydrocarbons (PAHs) and total carcinogenic PAHs (CaPAHs) did not exceed the NYSDEC TAGM criteria in the soil samples collected at boring locations L2-1 through L2-3.
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs were detected at concentrations ranging from 16.6 mg/l/kg (mg/kg) in L2-2 (2'-4') to 53.2 mg/kg in L2-3 (0-1').
 - TPHCs were not detected in L2-1 (2'-4', 4'-6' and 6'-8'), L2-2 (1'-2' and 4'-6') and L2-3 (2'-4').
 - Fuel-related constituents, where analyzed, were not detected.
- Priority Pollutant Metals
 - Arsenic was detected at concentrations exceeding the Eastern USA background level of 12 mg/kg in L2-1 (0-1') and L2-3 (1'-2').
 - Mercury was detected at concentrations exceeding the Eastern USA background level of 0.2 mg/kg in L2-1 (0-1') and L2-3 (6'-8').
 - Zinc was detected at a concentration exceeding the Eastern USA background level of 50 mg/kg in L2-1 (0-1').
 - Priority pollutant metals were not detected above Eastern USA background levels in L2-1 (1'-2', 2'-4', 4'-6' and 6'-8'), L2-2 (0-1', 1'-2', 2'-4', 4'-6' and 6'-8') and L2-3 (0-1', 2'-4' and 4'-6').

5.1.2 Perimeter and Center of Runway

As indicated in Section 4.1, a total of eight borings were advanced and 32 soil samples were collected from the perimeter and center of the North Runway - Parcel L2 site at boring locations L2-4, L2-5, L2-6, L2-7, L2-8, L2-9, L2-10 and L2-11 (i.e., four samples collected at each location) and analyzed for VOCs, SVOCs, TPHCs/fuel-related constituents and priority pollutant metals. The results are summarized as follows:

Samples L2-4 through L2-11 (0-1', 1'-2', 2'-4' and 4'-6')

- Volatile Organic Compounds
 - Not detected above NYSDEC TAGM criterion.
- Semivolatile Organic Compounds
 - Benzo(a)anthracene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-5 (0-1' and 1'-2'), L2-6 (0-1'), L2-7 (0-1'), L2-8 (0-1') and L2-10 (0-1').
 - Chrysene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-5 (0-1' and 1'-2'), L2-6 (0-1'), L2-7 (0-1'), L2-8 (0-1') and L2-10 (0-1').
 - Benzo(b)fluoranthene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-5 (0-1') and L2-8 (0-1').
 - Benzo(k)fluoranthene was detected at a concentration exceeding the NYSDEC TAGM criterion in L2-5 (0-1').
 - Benzo(a)pyrene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-4 (0-1'), L2-5 (0-1' and 1'-2'), L2-6 (0-1'), L2-7 (0-1'), L2-8 (0-1') and L2-10 (0-1').
 - Dibenzo(a,h)anthracene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-5 (0-1' and 1'-2') and L2-10 (0-1').
 - Total PAHs and total CaPAHs exceeded the NYSDEC TAGM criteria in L2-5 (0-1').
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs were detected at concentrations ranging from 16.6 mg/kg in L2-9 (4'-6') to 8,700 mg/kg in L2-4 (0-1').
 - TPHCs were not detected in L2-5 (2'-4'), L2-6 (2'-4' and 4'-6'), L2-7 (1'-2', 2'-4' and 4'-6'), L2-10 (2'-4' and 4'-6') and L2-11 (2'-4').
 - Fuel-related constituents, where analyzed, were not detected.

- Priority Pollutant Metals

- Arsenic was detected at concentrations exceeding the Eastern USA background level of 12 mg/kg in L2-5 (1'-2'), L2-6 (0-1' and 1'-2'), L2-9 (1'-2') and L2-10 (0-1').
- Mercury was detected at concentrations exceeding the Eastern USA background level of 0.2 mg/kg in L2-5 (0-1' and 1'-2'), L2-6 (1'-2'), L2-9 (1'-2') and L2-10 (0-1').
- Zinc was detected at concentrations exceeding the Eastern USA background level of 50 mg/kg in L2-6 (0-1'), L2-7 (0-1'), L2-9 (0-1') and L2-10 (0-1').
- Beryllium was detected at a concentration exceeding the Eastern USA background level of 1.75 mg/kg in L2-4 (2'-4').
- Priority pollutant metals were not detected above Eastern USA background levels in L2-4 (0-1', 1'-2', 2'-4' and 4'-6'), L2-5 (2'-4' and 4'-6'), L2-6 (2'-4' and 4'-6'), L2-7 (1'-2', 2'-4' and 4'-6'), L2-8 (0-1', 1'-2', 2'-4' and 4'-6'), L2-9 (2'-4' and 4'-6'), L2-10 (1'-2', 2'-4' and 4'-6') and L2-11 (0-1', 1'-2', 2'-4' and 4'-6').

5.1.3 Former Runway Turnaround

As indicated in Section 4.1, a total of three soil borings were advanced and 12 soil samples were collected from the former runway turnaround at boring locations L2-12, L2-13, and L2-14 (i.e., four samples collected at each location) and analyzed for VOCs, SVOCs, TPHCs/ fuel-related constituents and priority pollutant metals. The results are summarized as follows:

Samples L2-12 through L2-14 (0-1', 1'-2', 2'-4' and 4'-6')

- Volatile Organic Compounds
 - Not detected above NYSDEC TAGM criterion.
- Semivolatile Organic Compounds
 - Benzo(a)anthracene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-12 (0-1'), L2-13 (0-1' and 1'-2') and L2-14 (0-1').
 - Chrysene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-12 (0-1'), L2-13 (0-1' and 1'-2') and L2-14 (0-1').

- Benzo(b)fluoranthene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-12 (0-1'), L2-13 (0-1' and 1'-2') and L2-14 (0-1').
- Benzo(k)fluoranthene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-12 (0-1'), L2-13 (0-1') and L2-14 (0-1').
- Benzo(a)pyrene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-12 (0-1' and 1'-2'), L2-13 (0-1' and 1'-2') and L2-14 (0-1', 1'-2' and 2'-4').
- Dibenzo(a,h)anthracene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-12 (0-1' and 1'-2'), L2-13 (0-1' and 1'-2') and L2-14 (0-1').
- Total CaPAHs exceeded the NYSDEC TAGM criterion in L2-12 (0-1') and L2-14 (0-1').
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs were detected at concentrations ranging from 16.1 mg/kg in L2-14 (4'-6') to 943 mg/kg in L2-14 (1'-2').
 - TPHCs were not detected in L2-12 (2'-4' and 4'-6') and L2-13 (2'-4').
 - Fuel-related constituents, where analyzed, were not detected.
- Priority Pollutant Metals
 - Arsenic was detected at concentrations exceeding the Eastern USA background level of 12 mg/kg in L2-12 (0-1' and 1'-2'), L2-13 (1'-2') and L2-14 (0-1' and 1'-2').
 - Mercury was detected at concentrations exceeding the Eastern USA background level of 0.2 mg/kg in L2-12 (1'-2'), L2-13 (0-1' and 1'-2') and L2-14 (1'-2').
 - Zinc was detected at concentrations exceeding the Eastern USA background level of 50 mg/kg in L2-13 (1'-2') and L2-14 (0-1').
 - Priority pollutant metals were not detected above Eastern USA background levels in L2-12 (2'-4' and 4'-6'), L2-13 (2'-4' and 4'-6') and L2-14 (2'-4' and 4'-6').

5.1.4 Former Run-Up Area Thrust Deflector

As indicated in Section 4.1, a total of four soil borings were advanced and 20 soil samples were collected from the former run-up area thrust deflector at boring locations L2-15, L2-16, L2-17 and L2-18 (i.e., five samples collected at each location) and analyzed for VOCs, SVOCs, TPHCs/fuel-related constituents, and priority pollutant metals. The results are summarized as follows:

Samples L2-15 through L2-18 (0-1', 1'-2', 2'-4', 4'-6' and 6'-8')

- Volatile Organic Compounds
 - Not detected above NYSDEC TAGM criteria.
- Semivolatile Organic Compounds
 - Benzo(a)anthracene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-15 (0-1'), L2-16 (1'-2') and L2-18 (0-1').
 - Chrysene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-15 (0-1'), L2-16 (1'-2') and L2-18 (0-1').
 - Benzo(a)pyrene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-15 (0-1'), L2-16 (0-1' and 1'-2'), L2-17 (0-1' and 1'-2') and L2-18 (0-1').
 - Dibenzo(a,h)anthracene was detected at concentrations exceeding the NYSDEC TAGM criterion in L2-15 (0-1') and L2-16 (1'-2').
 - Total PAHs and total CaPAHs did not exceed the NYSDEC TAGM criteria in the soil samples collected at boring locations L2-15 through L2-18.
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs were detected at concentrations ranging from 13.1 mg/kg in L2-18 (4'-6') to 454 mg/kg in L2-15 (1'-2').
 - TPHCs were not detected in L2-15 (2'-4', 4'-6' and 6'-8'), L2-16 (2'-4', 4'-6' and 6'-8'), L2-17 (2'-4' and 4'-6') and L2-18 (2'-4').
 - Fuel-related constituents, where analyzed, were not detected.
- Priority Pollutant Metals
 - Arsenic was detected at concentrations exceeding the Eastern USA background level of 12 mg/kg in L2-16 (1'-2') and L2-18 (1'-2').
 - Mercury was detected at concentrations exceeding the Eastern USA background level of 0.2 mg/kg in L2-16 (1'-2'), L2-17 (1'-2') and L2-18 (1'-2').
 - Zinc was detected at a concentration exceeding the Eastern USA background level of 50 mg/kg in L2-15 (0-1').
 - Priority pollutant metals were not detected above Eastern USA background levels in L2-15 (1'-2', 2'-4', 4'-6' and 6'-8'), L2-16 (0-1', 2'-4', 4'-6' and 6'-8'), L2-17 (0-1', 2'-4', 4'-6' and 6'-8') and L2-18 (0-1', 2'-4', 4'-6' and 6'-8').

5.2 Dry Well Soil/Sediment Sampling

As previously discussed in Section 4.2, soil/sediment samples were collected from four dry wells DWL2-1, DWL2-2, DWL2-3 and DWL2-4 by advancing a boring through the center of each dry well and collecting samples from 0 to 2 feet and 2 to 4 feet below the bottom of each dry well. Prior to collecting these samples, the liquids were removed/pumped out from each dry well, if present, and transported and disposed of at the NGC IWTP, as well as off-site at the IPC facility in Wilmington, Delaware.

A total of eight soil/sediment samples were collected (i.e., two samples from each dry well) and analyzed for VOCs, SVOCs, TPHCs/fuel-related constituents and priority pollutant metals. The analytical results of these samples are presented on Tables B-1 through B-4 in Appendix B. The results are summarized as follows:

Samples DWL2-1 through DWL2-4 (0-2' and 2'-4')

- Volatile Organic Compounds
 - Not detected above NYSDEC TAGM criterion.
- Semivolatile Organic Compounds
 - Benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, and benzo(a)pyrene were detected at concentrations exceeding the NYSDEC TAGM criteria in DWL2-1 (0-2').
 - Benzo(a)pyrene was detected at a concentration exceeding the NYSDEC TAGM criterion in DWL2-3 (0-2').
 - Total CaPAHs exceeded the NYSDEC TAGM criterion in DWL2-1 (0-2').
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs were detected at concentrations ranging from 23 mg/kg in DWL2-1 (2'-4') to 730 mg/kg in DWL2-3 (0-2').
 - TPHCs were not detected in DWL2-2 (2'-4'), DWL2-3 (2'-4') and DWL2-4 (2'-4').
 - Fuel-related constituents, where analyzed, were not detected.
- Priority Pollutant Metals
 - Arsenic was detected at a concentration exceeding the Eastern USA background level of 12 mg/kg in DWL2-3 (0-2').

- Chromium, copper, lead, nickel and zinc were detected at concentrations exceeding the Eastern USA background levels in DWL2-1 (0'-2').
- Priority pollutant metals were not detected above Eastern USA background levels in DWL2-1 (2'-4'), DWL2-2 (0-2' and 2'-4'), DWL2-3 (2'-4') and DWL2-4 (0-2' and 2'-4').

5.3 Data Validation

Eighty-seven soil and sediment samples and four field blanks were collected during the Phase II Site Assessment at the North Runway - Parcel L2 site. The samples were analyzed for VOCs, SVOCs, TPHCs/fuel-related constituents, and priority pollutant metals. The analyses were performed by IEA, Inc., a subcontractor to D&B.

Data validation was completed in accordance with NYSDEC Quality Assurance/Quality Control (QA/QC) requirements. Twenty percent of the sample data and one hundred percent of the QC data (i.e., surrogate recoveries, matrix spike duplicates, blanks and calibrations) were reviewed yielding a "20% validation."

Sample analyses were performed in accordance with USEPA SW846 methodologies, as well as following NYSDEC Analytical Services Protocol (ASP) QA/QC requirements. All analyses were completed within the specified holding times with the exception of the reanalysis of the volatile fraction of L2-6 (0-1'). Since the results of the initial run are being used for this sample, no qualification of the data was necessary.

Instrument calibrations (initial and continuing) were analyzed at the appropriate frequency and met QC requirements. Several samples required analysis of the semivolatile fraction at a dilution due to the concentrations of targeted compounds present.

All results were deemed valid and usable for environmental assessment as qualified above.

Section 6

6.0 CONCLUSIONS

Conclusions are presented in this section based upon the findings of the Phase II field investigation and dry well soil/sediment sampling program presented in Section 5.

For site assessment purposes, industry commonly relies on the NYSDEC TAGM No. 4046 - Determination of Soil Cleanup Objectives and Cleanup Levels, dated January 24, 1994. However, we emphasize that as is discussed in the introduction of the TAGM, the document is designed to provide a basis and procedure for NYSDEC Project Managers at "...individual Federal Superfund, State Superfund, 1986 EQBA Title 3 and Responsible Party (RP) sites..." to determine soil cleanup levels. The TAGM provides a number of methods to determine the degree to which these sites are cleaned up including recommended soil cleanup objectives (NYSDEC TAGM criteria) and Eastern USA background levels (for metals only).

However, the North Runway - Parcel L2 parcel is not a Federal Superfund or State Superfund site nor is it a 1986 EQBA Title 3 or RP site. In addition, as we have discussed in the introduction and at various other sections throughout this report, not only is the L-2 parcel not a Superfund site or hazardous waste site, but it also not associated with any industrial process operations, chemical storage areas or storage tanks or chemical spills. As a result, it would have been reasonable to not have identified any areas of environmental concern as part of the Phase I Site Assessment. However, in keeping with Northrop Grumman's conservative corporate policy of sampling and conducting laboratory analysis at all of its parcels prior to initiating real estate transactions, we present those findings in Section 5.0. As presented in Section 5.0, the constituents of concern detected are likely associated with the normal and intended use of commercially available products found in virtually all households and commercial establishments. In addition, we believe that the constituents detected are likely comparable to constituents which one would find with typical urban and suburban storm water associated with parking lots, roadways and highways, recharge basins serving this infrastructure and typical residential and commercial applications involving treated wood, herbicide and rodenticide utilization.

With that in mind, we do not believe that the data warrants classifying these areas as potential areas of concern requiring additional investigation and possible future remediation.

Appendix A



APPENDIX A

BORING LOGS

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DRILLING CONTRACTOR				DRILLING LOG		BORING NUMBER <u>L2-2</u>			
Driller <u>D. Davis</u>				PROJECT NAME <u>Grumman</u>		Sheet <u>1</u> of <u>1</u>			
Inspector <u>Kr. Robins</u>				PROJECT # <u>L2 site</u>		Boring Location _____			
Rig Type <u>CME 75</u>				Location/Address _____					
Drilling Method <u>Spentsevern</u>									
Drive Hammer Weight <u>140</u>									
GROUNDWATER OBSERVATIONS				Weather <u>Cold 40°F</u>		Plot Plan			
Water Level				Date/Time Start <u>11/13/96</u>					
Time				Date/Time Finish <u>11/13/96</u>					
Date									
Casing Depth									
Sample Depth	Sample Number	SPT Blows	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL		WELL SCHEMATIC		COMMENTS	
0-1	SS-1	6, 12	—	Topsoil, Dark Black Brown sand, silt, roots, dry (1-1 1/2) Brown gty Tan medium sand gravel, cobbles. (1 1/2-2) Orange sand, wet medium-coarse trace silt, gravel. (2-3 1/2) Brown-Orange wet sand (3 1/2-4) Black clay, some silt. trace fine gravel. moist-wet (4-5') Brown-Orange saturated coarse sand. (5-6') Black clay, trace gravel, moist-Fill (6-8') Black soft clay and silt, wet-damp <u>fill</u> some brown-redish silt. END OF Boring at 8FT					
1-2	SS-2	13, 15	—						
2-4	SS-3	12, 13 12, 9	—						
4-6	SS-4	9, 7 6, 9	—						
6-8	SS-5	9, 10 11, 6	—						
Soil Stratigraphy Summary									

SPT = STANDARD PENETRATION TEST

DRILLING CONTRACTOR Driller <u>Dennis</u> Inspector <u>K. Robbins</u> Rig Type <u>CME 25</u> Drilling Method <u>split spool</u> Drive Hammer Weight <u>140</u>		DRILLING LOG PROJECT NAME <u>Grumman</u> PROJECT # <u>L-2 site</u> <u>801/96-54</u> Location/Address _____		BORING NUMBER <u>L2-4</u> Sheet <u>1</u> of <u>1</u> Boring Location _____	
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GROUNDWATER OBSERVATIONS Water Level _____ Time _____ Date _____ Casing Depth <u>-</u>				Weather <u>Sunny/cold</u> Date/Time Start <u>11/15/96</u> Date/Time Finish <u>11/15/96</u>		Plot Plan _____	
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Sample Depth	Sample Number	SPT Blows	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
0-1	SS-1	35, 17	-	(0-1') Black Fill, sand, cinders, gravel, cobble		
1-2	SS-2	19, 16	-	(1'-2') Black Fill compacted sand, silt, gravel.		
2-4	SS-3	13, 12 15, 18	-	(2-4') Black Fill, compact, silt, sand, fine gravel		
4-6	SS-4	6, 4 4, 2	-	(4-6) Brown-orange sand and Brown clay (soft)		
				END OF Boring at 6 FT		

SPT = STANDARD PENETRATION TEST Soil Stratigraphy Summary _____



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DRILLING CONTRACTOR Driller <u>Deanis</u> Inspector <u>K. Robins</u> Rig Type <u>CME75</u> Drilling Method <u>SPI/Spoon</u> Drive Hammer Weight <u>140 lbs</u>		DRILLING LOG PROJECT NAME <u>Grumman</u> <u>L2-site</u> PROJECT # <u>901/96-54</u> Location/Address _____		BORING NUMBER <u>L2-6</u> Sheet _____ of _____ Boring Location _____	
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GROUNDWATER OBSERVATIONS Water Level _____ Time _____ Date _____ Casing Depth _____			Weather <u>Sunny / Cold</u> Date/Time Start <u>11/15/96</u> Date/Time Finish <u>11/15/96</u>			Plot Plan _____		
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Sample Depth	Sample Number	SPT Blows	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
0-1	SS-1	25, 25	-	0-6" Top soil		
1-2	SS-2	15, 20	-	6"-10" slag and ash stone, sand, silt fill		
2-4	SS-3	30/2'	-	(1'-2') Dark Brown - Red/Black fine sand, silt, fine gravel		
4-6	SS-4	45/2'	-	(2-2 1/2) Brown clay and silt		
				(2 1/2 - 4.0) Orange course - med. Sand, trace gray clay and silt		
				(4' - 6') Gray clay and silt, soft.		
				(5 1/2 - 6.10) Brown-Orange Sand coarse, fine gravel, (dump)		
				END OF Boring at 6FT		

SPT = STANDARD PENETRATION TEST

Soil Stratigraphy Summary _____

DRILLING CONTRACTOR Driller <u>Dennis</u> Inspector <u>K. Robins</u> Rig Type <u>CME15</u> Drilling Method <u>split spoon</u> Drive Hammer Weight <u>140 lbs</u>	DRILLING LOG PROJECT NAME <u>Grumman</u> <u>L2-site</u> PROJECT # <u>801/96-54</u> Location/Address _____	BORING NUMBER <u>L2-1</u> Sheet <u>1</u> of <u>1</u> Boring Location _____
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GROUNDWATER OBSERVATIONS Water Level _____ Time _____ Date _____ Casing Depth _____	Weather <u>Sunny / cool</u> Date/Time Start <u>11/15/96</u> Date/Time Finish <u>11/15/96</u>	Plot Plan _____
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Sample Depth	Sample Number	SPT Blows	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
0-1	SS-1	20, 10	-	Top soil (0-6")		
1-2	SS-2	10, 10	-	(6"-12") fill, black sand, silt		
2-4	SS-3	8, 8 10, 7	-	slag, cinders, gravel. (1-2') Brown-Black clayey sand		
4-6	SS-4	10, 8 5, 7	-	silt, slag, fill, gravel (2-4') Brown-Orange coarse sand, some gravel. at (2.0-2.15) Brown clay (4'-5 1/2') Brown clay and silt (4-5 1/2') Brown sand coarse to medium size (5 1/2'-6) sand, little gravel		
				END OF Boring AT 6 FT		

DRILLING CONTRACTOR Driller <u>Rennis</u> Inspector <u>K. Robins</u> Rig Type <u>CME 75</u> Drilling Method <u>split spoon</u> Drive Hammer Weight <u>140 lbs</u>	DRILLING LOG PROJECT NAME <u>Grumman</u> <u>L2-site</u> PROJECT # <u>301/96-54</u> Location/Address _____	BORING NUMBER <u>L2-8</u> Sheet <u>1</u> of <u>1</u> Boring Location _____
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GROUNDWATER OBSERVATIONS Water Level _____ Time _____ Date _____ Casing Depth _____	Weather <u>Cold, windy</u> Date/Time Start <u>11/13/96</u> Date/Time Finish <u>11/13/96</u>	Plot Plan _____
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Sample Depth	Sample Number	SPT Blows	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
0-1	SS-1	15, 25	—	asphalt.		
1-2	SS-2	30, 28	—	Black sand and gravel		
2-4	SS-3	24, 30	—	1-1.5 Brown coarse sand and gravel, moist		
		22, 30		1.5-2.0 Black fill, crushed sinder, slag.		
4-6	SS-4	38, 42	—	2-3.0' Black-Gray compact silt and clay fill		
		42, 49		3.0-3.5 Brown Red silt and clay		
				3.5-4.0 Tan coarse well graded gtz sand		
				4-6 Coarse sand, some med-fine angular gravel.		
				END OF Boring AT 6'		

SPT - STANDARD PENETRATION TEST

Soil Stratigraphy Summary _____

DRILLING CONTRACTOR				DRILLING LOG		BORING NUMBER <u>LD-11</u>	
Driller <u>Dennis</u>				PROJECT NAME <u>Grymman</u>		Sheet <u>1</u> of <u>1</u>	
Inspector <u>K. Robins</u>				<u>LD-site</u>		Boring Location _____	
Rig Type <u>CME75</u>				PROJECT # _____		_____	
Drilling Method <u>Split Spinning</u>				Location/Address _____		_____	
Drive Hammer Weight <u>140 lbs</u>				_____		_____	
GROUNDWATER OBSERVATIONS				Weather <u>Cold 70°F</u>		Plot Plan _____	
Water Level				Date/Time Start <u>11/14/96</u>		Date/Time Finish <u>11/14/96</u>	
Time				_____		_____	
Date				_____		_____	
Casing Depth _____				_____		_____	
Sample Depth	Sample Number	SPT Blows	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC		COMMENTS
0-1	SS-1	85/2'	→	0-4" asphalt			
1-2	SS-2	↓	-	4"-12" Dark Brown sand and gravel cobbles, trace silt.			
2-4	SS-3	25,30 30,35	-	(1-2') Dark Brown sand, gravel, cobbles, silt.			
4-6	SS-4	35,33 27,28	-	(2-4) Dark Brown coarse-medium sand, gravel, trace silt, cobbles.			
				(4'-6') Tan - Light Orange coarse to medium sand, fine crushed gravel - dry			
				<u>END OF Boring AT 6 FT</u>			

SPT = STANDARD PENETRATION TEST Soil Stratigraphy Summary _____

DRILLING CONTRACTOR Driller <u>Dennis</u> Inspector <u>K. Robbins</u> Rig Type <u>CME 75</u> Drilling Method <u>split spoon</u> Drive Hammer Weight <u>140</u>	DRILLING LOG PROJECT NAME <u>Grumman</u> <u>L2 - site</u> PROJECT # <u>901/96-54</u> Location/Address _____	BORING NUMBER <u>L2-13</u> Sheet <u>1</u> of <u>1</u> Boring Location _____
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GROUNDWATER OBSERVATIONS Water Level _____ Time _____ Date _____ Casing Depth _____	Weather <u>Cold</u> Date/Time Start <u>11/13/96</u> Date/Time Finish <u>11/13/96</u>	Plot Plan _____
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Sample Depth	Sample Number	SPT Blows	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
0-1	SS-1	3,3	—	Top Soil		
1-2	SS-2	6,7	—	Top soil, clayey sand, cobbles		
2-4	SS-3	6,6 7,7	—	Clay soil, Brown, soft, trace organics. Brownsand at tip		
4-6	SS-4	9,11 11,12	—	Tan - Light Brown coarse Sand and fine subangular gravel. (dry)		
				END OF Boring at 6'		

SPT - STANDARD PENETRATION TEST

Soil Stratigraphy Summary _____

DRILLING CONTRACTOR Driller <u>Dennis</u> Inspector <u>K. Robins</u> Rig Type <u>CMETS</u> Drilling Method <u>Split Spool</u> Drive Hammer Weight <u>140 lbs.</u>		DRILLING LOG PROJECT NAME <u>Grumman</u> <u>L2-site</u> PROJECT # <u>801/96-54</u> Location/Address _____		BORING NUMBER <u>L2-14</u> Sheet <u>1</u> of <u>1</u> Boring Location _____	
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GROUNDWATER OBSERVATIONS				Weather <u>Cold 40C^F</u> <u>Windy</u>		Plot Plan	
Water Level				Date/Time Start <u>11/13/96</u>			
Time				Date/Time Finish <u>11/13/96</u>			
Date							
Casing Depth							

Sample Depth	Sample Number	SPT Blows	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
0-1	SS-1	8,10	✓	Top Soil Black-Brown silt, compact, clay, trace slug, gravel <u>Fill</u> Sand wet coarse-medium, brown silt lense, dry sand and gravel below silt Dry Brown-Tan gty Sand (course) some fine angular gravel. END OF Boring At 6'		
1-2	SS-2	17,20	✓			
2-4	SS-3	17,20 23,25	✓			
4-6	SS-4	19,17 30,38	✓			

SPT - STANDARD PENETRATION TEST Soil Stratigraphy Summary _____

DRILLING CONTRACTOR Driller: <u>DEANUS</u> Inspector: <u>K. Robbins</u> Rig Type: <u>CME 75</u> Drilling Method: <u>Split Spoon</u> Drive Hammer Weight: <u>140 Lbs.</u>	DRILLING LOG PROJECT NAME: <u>Grimm</u> <u>L2-site</u> PROJECT #: <u>801/96-54</u> Location/Address: _____	BORING NUMBER: <u>L2-15</u> Sheet: <u>1</u> of <u>1</u> Boring Location: _____
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GROUNDWATER OBSERVATIONS Weather: <u>Sunny / cold</u> Date/Time Start: <u>11/15/96</u> Date/Time Finish: <u>11/15/96</u>	Plot Plan: _____
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Sample Depth	Sample Number	SPT Blows	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
0-1	SS-1	6, 4	—	(0-1) Top soil, sand, silt, gravel.		
1-2	SS-2	15, 15	—	(1-2) Topsoil, brown sand and cobbles, silt		
2-4	SS-3	—	—	(2-4) Brown-Tan Clay and silt, moist wet (at 3 FT), trace sand		
4-6	SS-4	27, 35 45, 38	—	(4'-6') Tan Sand: coarse-medium, cobbles, crushed gravel, poorly sorted, dry-damp.		
6-8	SS-5	40, 38 25, 22	—	(6'-8') Tan-Orange medium-coarse silt sand, some fine gravel (dry).		
				END OF Boring AT 8 FT		

SPT - STANDARD PENETRATION TEST

Soil Stratigraphy Summary: _____



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DRILLING CONTRACTOR Driller <u>Dennis</u> Inspector <u>K. Robins</u> Rig Type <u>AME 75</u> Drilling Method <u>Splitspoon</u> Drive Hammer Weight <u>140 Lbs.</u>		DRILLING LOG PROJECT NAME <u>Gammun</u> <u>La-site</u> PROJECT # <u>801/76-54</u> Location/Address _____		BORING NUMBER <u>L2-16</u> Sheet <u>1</u> of <u>1</u> Boring Location _____	
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GROUNDWATER OBSERVATIONS Water Level _____ Time _____ Date _____ Casing Depth <u>-</u>			Weather <u>Sunny / Cool</u> Date/Time Start <u>11/15/96</u> Date/Time Finish <u>11/15/96</u>			Plot Plan _____		
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Sample Depth	Sample Number	SPT Blows	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
0-1	SS-1	12, 25	-	(0-1') Top soil, dark Brown silt, some grass, roots, dry		
1-2	SS-2	27, 27	-	(1-2') Top soil, dark brown silt, sand, dry		
2-4	SS-3	26, 17 27, 28	-	(2-4) 0-4" Brown clay and silt 4"-15" Tan-Brown medium-coarse sand, little gravel		
4-6	SS-4	33, 35 47, 70	-	(4-6) Tan-Light Brown coarse to fine sand, little some gravel, moist		
6-8	SS-5	80, 90 72, 78	-	(6-8) Tan coarse sand, little some fine gravel.		
				END OF Boring AT 8 FT		

SPT = STANDARD PENETRATION TEST

Soil Stratigraphy Summary _____



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DRILLING CONTRACTOR Driller <u>Dennis</u> Inspector <u>K. Robins</u> Rig Type <u>cmg 75</u> Drilling Method <u>Split Spoon</u> Drive Hammer Weight <u>140 lbs</u>				DRILLING LOG PROJECT NAME <u>Grumman</u> <u>L2-site</u> PROJECT # <u>801/96-54</u> Location/Address _____				BORING NUMBER <u>L2-17</u> Sheet <u>1</u> of <u>1</u> Boring Location _____			
GROUNDWATER OBSERVATIONS Water Level _____ Time _____ Date _____ Casing Depth <u>-</u>				Weather <u>Sunny/cold</u> Date/Time Start <u>11/15/96</u> Date/Time Finish <u>11/15/96</u>				Plot Plan _____			
Sample Depth	Sample Number	SPT Blows	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL				WELL SCHEMATIC		COMMENTS	
0-1	SS-1	16, 17	-	(0-1) Top soil (dark brown silt, sand, roots, damp.							
1-2	SS-2	18, 20	-	(1-2') Top soil / Dark Brown sand, silt, gravel, trace cobbles. (damp)							
2-4	SS-3	25, 28 30, 36	-	(2-3) Brown silt, little clay, compact							
4-6	SS-4	38, 40 42, 47	-	(3-4') Brown tan coarse - medium sand, fine gravel							
6-8	SS-5	27, 38 25, 45	-	(4-6) Light Tan Brown coarse to medium sand, some crushed gravel, poorly sorted, damp							
				(6-8) Light Brown - Tan medium to coarse sand, fine gravel.							
				(7.5-8.0) Orange coarse sand.							
				END OF Boring AT 8 FT							
SPT = STANDARD PENETRATION TEST				Soil Stratigraphy Summary _____							



DVIRKA
AND
BARTILUCCI

DRILLING CONTRACTOR Driller <u>Dennis</u> Inspector <u>K. Robins</u> Rig Type <u>LM 75</u> Drilling Method <u>split spoon</u> Drive Hammer Weight <u>140 lbs</u>		DRILLING LOG PROJECT NAME <u>Grumman</u> <u>L2-site</u> PROJECT # <u>801/96-54</u> Location/Address _____		BORING NUMBER <u>L2-18</u> Sheet <u>1</u> of <u>1</u> Boring Location _____	
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GROUNDWATER OBSERVATIONS Water Level _____ Time _____ Date _____ Casing Depth <u>-</u>			Weather <u>Sunny/Cool</u> Date/Time Start <u>4/15/96</u> Date/Time Finish <u>4/15/96</u>			Plot Plan _____		
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Sample Depth	Sample Number	SPT Blows	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
0-1	SS-1	6,15	-	(0-1') Dark Brown Top Soil, roots, silt		
1-2	SS-2	13,22	-	(1-2') Dark Brown Top soil, roots, silt, gravel		
2-4	SS-3	9,11 14,6	-	(2-3) Brown clay and silt		
4-6	SS-4	19,17 24,30	-	(3-4') Tan quartz fine-medium sand, trace gravel.		
6-8	SS-5	35,40 42,48	-	(4-6') Light tan coarse subrounded sand, fine-medium gravel, dry.		
				(6-8') Tan-Orange coarse-fine sand and gravel, trace silt.		
				END OF Boring AT 8 FT		

SPT = STANDARD PENETRATION TEST

Soil Stratigraphy Summary _____



DVIRKA
AND
BARTILUCCI

DRILLING CONTRACTOR				DRILLING LOG		BORING NUMBER	
Driller <u>Wally</u>				PROJECT NAME <u>Grumman</u>		Sheet <u>1</u> of <u>1</u>	
Inspector <u>K. Robin's</u>				PROJECT # <u>L2-site</u>		Boring Location _____	
Rig Type <u>CME 75</u>				Location/Address _____			
Drilling Method <u>Pilot & open</u>							
Drive Hammer Weight <u>140 lbs</u>							
GROUNDWATER OBSERVATIONS				Weather <u>Sunny/Warm 60°F</u>		Plot Plan	
Water Level				Date/Time Start <u>11/18/96</u>			
Time				Date/Time Finish <u>11/18/96</u>			
Date							
Casing Depth _____							
Sample Depth	Sample Number	SPT	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS	
<u>0-2</u>	<u>SS-1</u>	<u>-</u>	<u>-</u>	<u>0-6" Black organic clayey silt. (wet)</u>		<u>Inside dry-well @ 16.5'</u>	
<u>2-4</u>	<u>SS-2</u>	<u>-</u>	<u>-</u>	<u>6"-24" Dark Brown wet sand</u>			
				<u>(2-4) Brown-Orange medium to coarse sand and gravel saturated</u>			
				<u>END OF Boring at 4 FT</u>			
				Soil Stratigraphy Summary _____			

SPT = STANDARD PENETRATION TEST



DIVIRKA
AND
BARTILUCCI

DRILLING CONTRACTOR		DRILLING LOG		BORING NUMBER <u>DW-2</u>	
Driller <u>D. Dealy</u>	Inspector <u>K. Roberts</u>	PROJECT NAME <u>Commun</u>	PROJECT # <u>801/96-54</u>	Sheet <u>1</u> of <u>1</u>	Boring Location _____
Rig Type <u>CME 75</u>	Drilling Method <u>Split Spoon</u>	Location/Address _____	_____		
Drive Hammer Weight <u>140 Lbs</u>	_____				_____

GROUNDWATER OBSERVATIONS			Weather <u>Sunny / Warm</u>	Plot Plan
Water Level			Date/Time Start <u>11/18/96</u>	
Time			Date/Time Finish <u>11/18/96</u>	
Date				
Casing Depth	<u>-</u>			

Sample Depth	Sample Number	SPT	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
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0-2	SS-1	-	-	(0-2') Brown coarse sand, few gravel, cobbles, poorly sorted.		In side dry-well @ 15.5'
2-4	SS-2	-	-			

				(2-4) Brown, coarse sand, some gravel, cobbles, poorly sorted.		
--	--	--	--	--	--	--

END OF Boring at 4 FT

SPT = STANDARD PENETRATION TEST Soil Stratigraphy Summary _____



DVRKA
AND
BARTILUCCI

DRILLING CONTRACTOR		DRILLING LOG		BORING NUMBER <u>DW-3</u>	
Driller <u>Wally</u>	Inspector <u>K. Robins</u>	PROJECT NAME <u>Grimman</u>	PROJECT # <u>801/96-54</u>	Sheet <u>1</u> of <u>1</u>	Boring Location _____
Rig Type <u>CM25</u>	Drilling Method _____	Location/Address _____	_____		
Drive Hammer Weight _____	_____				_____

GROUNDWATER OBSERVATIONS				Weather <u>Sun/Warm</u>		Plot Plan _____	
Water Level				Date/Time Start <u>11/18/96</u>	_____		
Time				Date/Time Finish <u>11/18/96</u>	_____		
Date				_____			
Casing Depth	_____						

Sample Depth	Sample Number	SPT #	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
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Sample Depth	Sample Number	SPT #	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
0-2	SS-1			0-4" Black Organic silt, sand, trace twigs, leaves.		Inside dry-well @ 9.5'
2-4	SS-2			4"-12" Brown coarse sand, silt, medium gravel, wet		
				(2-4) Brown - Light Orange coarse to medium sand and gravel, trace cobbles, silt (wet).		
				END OF Boring AT 4 FT		

SPT = STANDARD PENETRATION TEST

Soil Stratigraphy Summary _____

Appendix B



APPENDIX B

SOIL SAMPLING RESULTS

◆0801/S0115704.DOC

TABLE B-1
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 VOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	AREA ADJACENT TO FORMER THRUST DEFLECTOR ON NORTH RUNWAY - PARCEL L1										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)	
	L2-1	L2-1	L2-1	L2-1	L2-1	L2-1	L2-2	L2-2	L2-2	L2-2			
	0-1' 11/13/96	1'-2' 11/13/96	2'-4' 11/13/96	4'-6' 11/13/96	6'-8' 11/13/96	8'-10' 11/13/96	0-1' 11/13/96	1'-2' 11/13/96	2'-4' 11/13/96	4'-6' 11/13/96			
DILUTION FACTOR	84	86	96	95	92	87	88	84					
PERCENT SOLIDS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)					
UNITS													
Chloromethane	U	U	U	U	U	U	U	U	U	U	U	10	---
Bromomethane	U	U	U	U	U	U	U	U	U	U	U	10	---
Vinyl Chloride	U	U	U	U	U	U	U	U	U	U	U	10	200
Chloroethane	U	U	U	U	U	U	U	U	U	U	U	10	1,900
Methylene Chloride	U	U	U	U	U	U	U	U	U	U	U	10	100
Acetone	U	U	U	U	U	U	U	U	U	U	U	10	200
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	U	10	2,700
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	10	400
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	10	200
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	10	300
1,2-Dichloroethane (total)	U	U	U	U	U	U	U	U	U	U	U	10	300
Chloroform	U	U	U	U	U	U	U	U	U	U	U	10	100
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	10	300
2-Butanone	U	U	U	U	U	U	U	U	U	U	U	10	800
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	10	600
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	U	10	---
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	U	10	---
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	U	10	700
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	10	---
Trichloroethene	U	U	U	U	U	U	U	U	U	U	U	10	---
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	U	10	60
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	10	---
Benzene	U	U	U	U	U	U	U	U	U	U	U	10	---
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	10	1,000
Bromoform	U	U	U	U	U	U	U	U	U	U	U	10	---
4-Methyl-2-pentanone	U	U	U	U	U	U	U	U	U	U	U	10	1,400
2-Hexanone	U	U	U	U	U	U	U	U	U	U	U	10	600
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	U	10	1,500
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	U	10	1,700
Toluene	U	U	U	U	U	U	U	U	U	U	U	10	5,500
Chlorobenzene	U	U	U	U	U	U	U	U	U	U	U	10	---
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	U	10	---
Styrene	U	U	U	U	U	U	U	U	U	U	U	10	---
Xylene (total)	U	U	U	U	U	U	U	U	U	U	U	10	1,200
TOTAL VOCs	14	65	9	11	1	9	4	106	9	9	106		

NOTES:
 --- : Not established.

QUALIFIERS:
 U: Compound analyzed for but not detected.
 J: Value less than CRDL, but greater than IDL.
 B: Compound detected in method blank as well as sample, value estimated.

TABLE B-1 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 VOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION SAMPLE IDENTIFICATION SAMPLE DEPTH DATE OF COLLECTION DILUTION FACTOR PERCENT SOLIDS UNITS	AREA ADJACENT TO FORMER THRUST DEFLECTOR ON NORTH RUNWAY - PARCEL L1										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)	
	L2-2 4'-6' 11/13/96 1	L2-2 6'-8' 11/13/96 1	L2-2 84 11/13/96 84 (ug/kg)	L2-3 0-1' 11/13/96 1	L2-3 1'-2' 11/13/96 1	L2-3 2'-4' 11/13/96 1	L2-3 4'-6' 11/13/96 1	L2-3 6'-8' 11/13/96 1	L2-4 0-1' 11/15/96 1	L2-4 85 (ug/kg)			
Chloromethane	U	U	U	U	U	U	U	U	U	U	U	10	---
Bromomethane	U	U	U	U	U	U	U	U	U	U	U	10	---
Vinyl Chloride	U	U	U	U	U	U	U	U	U	U	U	10	200
Chloroethane	U	U	U	U	U	U	U	U	U	U	U	10	1,900
Methylene Chloride	J	J	J	J	J	J	J	J	J	J	J	10	100
Acetone	B	B	B	B	B	B	B	B	B	B	B	10	200
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	U	10	2,700
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	10	400
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	10	200
1,2-Dichloroethane (total)	U	U	U	U	U	U	U	U	U	U	U	10	300
Chloroform	U	U	U	U	U	U	U	U	U	U	U	10	300
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	10	100
2-Butanone	U	U	U	U	U	U	U	U	U	U	U	10	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	10	300
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	U	10	800
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	U	10	600
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	U	10	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	10	---
Trichloroethene	U	U	U	U	U	U	U	U	U	U	U	10	---
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	U	10	700
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	10	---
Benzene	U	U	U	U	U	U	U	U	U	U	U	10	---
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	10	---
Bromoform	U	U	U	U	U	U	U	U	U	U	U	10	---
4-Methyl-2-pentanone	U	U	U	U	U	U	U	U	U	U	U	10	1,000
2-Hexanone	U	U	U	U	U	U	U	U	U	U	U	10	---
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	U	10	1,400
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	U	10	600
Toluene	U	U	U	U	U	U	U	U	U	U	U	10	1,500
Chlorobenzene	U	U	U	U	U	U	U	U	U	U	U	10	1,700
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	U	10	5,500
Styrene	U	U	U	U	U	U	U	U	U	U	U	10	---
Xylene (total)	U	U	U	U	U	U	U	U	U	U	U	10	1,200
TOTAL VOCs	14	41	50	26	11	34	12	17	10,000				

NOTES:
 --- : Not established.

QUALIFIERS:
 U: Compound analyzed for but not detected.
 J: Value less than CRDL, but greater than IDL.
 B: Compound detected in method blank as well as sample, value estimated.

TABLE B-1 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 VOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2							CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-4 1'-2' 11/15/96	L2-4 2'-4' 11/15/96	L2-4 4'-6' 11/15/96	L2-5 0-1' 11/15/96	L2-5 1'-2' 11/15/96	L2-5 2'-4' 11/15/96	L2-5 4'-6' 11/15/96		
DILUTION FACTOR	1	1	1	1	1	1	1	1	1
PERCENT SOLIDS	92	98	89	100	77	84	97	74	74
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Chloroethane	U	U	U	U	U	U	U	U	U
Bromomethane	U	U	U	U	U	U	U	U	U
Vinyl Chloride	U	U	U	U	U	U	U	U	U
Chloroethane	U	U	U	U	U	U	U	U	U
Methylene Chloride	U	U	U	U	U	U	U	U	U
Acetone	5	4	5	J	6	8	5	8	1,900
Carbon Disulfide	48	14	46	B	14	14	20	14	100
1,1-Dichloroethene	U	U	U	U	U	U	U	U	200
1,1-Dichloroethane	U	U	U	U	U	U	U	U	2,700
1,2-Dichloroethene (total)	U	U	U	U	U	U	U	U	400
Chloroform	U	U	U	U	U	U	U	U	200
1,2-Dichloroethane	U	U	U	U	U	U	U	U	300
2-Butanone	U	U	U	U	U	U	U	U	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	100
Carbon Tetrachloride	U	U	U	U	U	U	U	U	300
Bromodichloromethane	U	U	U	U	U	U	U	U	100
1,2-Dichloropropane	U	U	U	U	U	U	U	U	300
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	700
Trichloroethene	U	U	U	U	U	U	U	U	---
Dibromochloromethane	U	U	U	U	U	U	U	U	---
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	---
Benzene	U	U	U	U	U	U	U	U	60
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	---
Bromoform	U	U	U	U	U	U	U	U	1,000
4-Methyl-2-pentanone	U	U	U	U	U	U	U	U	---
2-Hexanone	U	U	U	U	U	U	U	U	1,400
Tetrachloroethene	U	U	U	U	U	U	U	U	600
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	1,500
Toluene	U	U	U	U	U	U	U	U	1,700
Chlorobenzene	U	U	U	U	U	U	U	U	5,500
Ethylbenzene	U	U	U	U	U	U	U	U	---
Styrene	U	U	U	U	U	U	U	U	---
Xylene (total)	U	U	U	U	U	U	U	U	1,200
TOTAL VOCs	63	18	58	8	20	22	25	22	10,000

NOTES:
 --- : Not established.

QUALIFIERS:
 U: Compound analyzed for but not detected.
 J: Value less than CRDL, but greater than IDL.
 B: Compound detected in method blank as well as sample, value estimated.

TABLE B-1 (continued)
 NORTHRUP GRUWMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 VOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2								CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-6 1'-2' 11/15/96	L2-6 2'-4' 11/15/96	L2-6 4'-6' 11/15/96	L2-7 0-1' 11/15/96	L2-7 1'-2' 11/15/96	L2-7 2'-4' 11/15/96	L2-7 4'-6' 11/15/96	L2-8 0-1' 11/13/96		
DILUTION FACTOR	1	1	1	1	1	1	1	1		
PERCENT SOLIDS	86	94	81	75	88	97	96	91		
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)		
Chloromethane	U	U	U	U	U	U	U	U	10	---
Bromomethane	U	U	U	U	U	U	U	U	10	---
Vinyl Chloride	U	U	U	U	U	U	U	U	10	200
Chloroethane	U	U	U	U	U	U	U	U	10	1,900
Methylene Chloride	J	6 B	27 B	3 JB	35 B	28 B	10 B	4	10	100
Acetone	22 B	U	U	23 B	U	U	38 B	11	10	200
Carbon Disulfide	U	U	U	U	U	U	U	U	10	2,700
1,1-Dichloroethene	U	U	U	U	U	U	U	U	10	400
1,1-Dichloroethane	U	U	U	U	U	U	U	U	10	200
1,2-Dichloroethene (total)	U	U	U	U	U	U	U	U	10	300
Chloroform	U	U	U	U	U	U	U	U	10	300
1,2-Dichloroethane	U	U	U	U	U	U	U	U	10	100
2-Butanone	U	U	U	U	U	U	U	U	10	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	10	800
Carbon Tetrachloride	U	U	U	U	U	U	U	U	10	600
Bromodichloromethane	U	U	U	U	U	U	U	U	10	---
1,2-Dichloropropane	U	U	U	U	U	U	U	U	10	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	10	---
Trichloroethene	U	U	U	U	U	U	U	U	10	700
Dibromochloromethane	U	U	U	U	U	U	U	U	10	---
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	10	---
Benzene	U	U	U	U	U	U	U	U	10	60
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	10	---
Bromoform	U	U	U	U	U	U	U	U	10	1,000
4-Methyl-2-pentanone	U	U	U	U	U	U	U	U	10	---
2-Hexanone	U	U	U	U	U	U	U	U	10	1,400
Tetrachloroethene	U	U	U	U	U	U	U	U	10	600
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	10	1,500
Toluene	U	U	U	U	U	U	U	U	10	1,700
Chlorobenzene	U	U	U	U	U	U	U	U	10	5,500
Ethylbenzene	U	U	U	U	U	U	U	U	10	---
Styrene	U	U	U	U	U	U	U	U	10	---
Xylene (total)	U	U	U	U	U	U	U	U	10	1,200
TOTAL VOCs	24	33	25	30	35	28	48	42		10,000

QUALIFIERS:
 U: Compound analyzed for but not detected.
 J: Value less than CRDL, but greater than IDL.
 B: Compound detected in method blank as well as sample, value estimated.

NOTES:
 ---- : Not established.

TABLE B-1 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 VOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-8 1'-2' 11/13/96	L2-8 2'-4' 11/13/96	L2-8 4'-6' 11/13/96	L2-9 0-1' 11/13/96	L2-9 1'-2' 11/13/96	L2-9 2'-4' 11/13/96	L2-9 4'-6' 11/13/96	L2-10 0-1' 11/14/96				
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1		
PERCENT SOLIDS	94	87	85	92	89	98	98	98	98	98		
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)		
Chloromethane	U	U	U	U	U	U	U	U	U	U	10	—
Bromomethane	U	U	U	U	U	U	U	U	U	U	10	—
Vinyl Chloride	U	U	U	U	U	U	U	U	U	U	10	200
Chloroethane	U	U	U	U	U	U	U	U	U	U	10	1,900
Methylene Chloride	5	5	5	4	4	J	J	J	J	J	10	100
Acetone	11	52	33		9	JB	19	35	18		10	200
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	10	2,700
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	U	10	400
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U	10	200
1,2-Dichloroethene (total)	U	U	U	U	U	U	U	U	U	U	10	300
Chloroform	U	U	U	U	U	U	U	U	U	U	10	300
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	10	100
2-Butanone	U	U	U	U	U	U	U	U	U	U	10	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	U	10	800
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	10	600
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	10	—
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	10	—
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	—
Trichloroethene	U	U	U	U	U	U	U	U	U	U	10	—
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	10	700
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	10	—
Benzene	0.7										10	60
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	—
Bromoform	U	U	U	U	U	U	U	U	U	U	10	—
4-Methyl-2-pentanone	U	U	U	U	U	U	U	U	U	U	10	1,000
2-Hexanone	U	U	U	U	U	U	U	U	U	U	10	—
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	10	1,400
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	10	600
Toluene	U	U	U	0.9	U	U	U	U	U	U	10	1,500
Chlorobenzene	U	U	U	U	U	U	U	U	U	U	10	1,700
Ethylbenzene	U	U	0.9	U	U	U	U	U	U	U	10	5,500
Styrene	U	U	U	U	U	U	U	U	U	U	10	—
Xylene (total)	0.9	U	8	3	U	U	U	1	U	U	10	1,200
TOTAL VOCs	18	57	47	8	13	22	40	22	22	10,000		

NOTES:
 --- : Not established.

QUALIFIERS:
 U: Compound analyzed for but not detected.
 J: Value less than CRDL, but greater than IDL.
 B: Compound detected in method blank as well as sample, value estimated.

TABLE B-1 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 VOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-10 1'-2' 11/14/96	L2-10 2'-4' 11/14/96	L2-10 4'-6' 11/14/96	L2-10 0-1' 11/14/96	L2-11 1'-2' 11/14/96	L2-11 2'-4' 11/14/96	L2-11 4'-6' 11/14/96	L2-12 0-1' 11/13/96				
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1		
PERCENT SOLIDS	72	72	98	89	82	75	97	83				
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)				
Chloromethane	U	U	U	U	U	U	U	U	U	U	10	---
Bromomethane	U	U	U	U	U	U	U	U	U	U	10	---
Vinyl Chloride	U	U	U	U	U	U	U	U	U	U	10	200
Chloroethane	U	U	U	U	U	U	U	U	U	U	10	1,900
Methylene Chloride	5 JB	4 JB	5 B	8 B	9 B	14 B	3 JB	2 J	2 J	2 J	10	100
Acetone	20 B	20 B	18 B	20 B	21 B	42 B	7 JB	46 B	46 B	46 B	10	200
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	10	2,700
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	U	10	400
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U	10	200
1,2-Dichloroethene (total)	U	U	U	U	U	U	U	U	U	U	10	300
Chloroform	U	U	U	U	U	U	U	U	U	U	10	300
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	10	100
2-Butanone	U	U	U	U	U	U	U	U	U	U	10	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	U	10	800
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	10	600
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	10	---
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	10	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	---
Trichloroethene	U	U	U	U	U	U	U	U	U	U	10	700
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	10	---
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	10	---
Benzene	U	U	U	U	U	U	U	U	U	U	10	60
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	---
Bromoform	U	U	U	U	U	U	U	U	U	U	10	1,000
4-Methyl-2-pentanone	U	U	U	U	U	U	U	U	U	U	10	---
2-Hexanone	U	U	U	U	U	U	U	U	U	U	10	---
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	10	1,400
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	10	600
Toluene	U	U	U	U	U	U	U	U	U	U	10	1,500
Chlorobenzene	U	U	U	U	U	U	U	U	U	U	10	1,700
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	10	5,500
Styrene	U	U	U	U	U	U	U	U	U	U	10	---
Xylene (total)	U	U	U	U	U	U	U	U	U	U	10	1,200
TOTAL VOCs	25	24	23	28	30	56	10	50			10,000	

NOTES:
 --- : Not established.

QUALIFIERS:
 U: Compound analyzed for but not detected.
 J: Value less than CRDL, but greater than IDL.
 B: Compound detected in method blank as well as sample, value estimated.

TABLE B-1 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 VOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	FORMER RUNWAY TURNAROUND										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-12 1'-2' 11/13/96	L2-12 2'-4' 11/13/96	L2-12 4'-6' 11/13/96	L2-12 1 85	L2-13 0-1' 11/13/96	L2-13 1'-2' 11/13/96	L2-13 2'-4' 11/13/96	L2-13 4'-6' 11/13/96	L2-14 0-1' 11/13/96	L2-14 1 81		
PERCENT SOLIDS	87	96	85	87	89	92	94	81				
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Chloromethane	U	U	U	U	U	U	U	U	U	U	U	---
Bromomethane	U	U	U	U	U	U	U	U	U	U	U	---
Vinyl Chloride	U	U	U	U	U	U	U	U	U	U	U	200
Chloroethane	U	U	U	U	U	U	U	U	U	U	U	1,900
Methylene Chloride	U	J	2	J	U	U	U	U	U	U	U	100
Acetone	7	JB	80	B	20	7	9	U	U	U	U	200
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	U	2,700
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	U	U	400
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	200
1,2-Dichloroethene (total)	U	U	U	U	U	U	U	U	U	U	U	300
Chloroform	U	U	U	U	U	U	U	U	U	U	U	300
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	100
2-Butanone	U	U	U	U	U	U	U	U	U	U	U	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	800
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	U	600
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	U	---
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	U	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	---
Trichloroethene	U	U	U	U	U	U	U	U	U	U	U	---
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	U	---
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	700
Benzene	U	U	U	U	U	U	U	U	U	U	U	---
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	60
Bromoform	U	U	U	U	U	U	U	U	U	U	U	---
4-Methyl-2-pentanone	U	U	U	U	U	U	U	U	U	U	U	---
2-Hexanone	U	U	U	U	U	U	U	U	U	U	U	1,000
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	U	---
1,1,2,2-Tetrachloroethane	1	J	2	J	2	U	U	U	U	U	U	1,400
Toluene	U	U	U	U	U	U	U	U	U	U	U	600
Chlorobenzene	U	U	U	U	U	U	U	U	U	U	U	1,500
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	U	1,700
Styrene	U	U	U	U	U	U	U	U	U	U	U	5,500
Xylene (total)	U	U	U	U	U	U	U	U	U	U	U	---
TOTAL VOCs	8	71	87	88	22	7	9	1	1	10,000		

NOTES:
 --- : Not established.

QUALIFIERS:
 U: Compound analyzed for but not detected.
 J: Value less than CRDL, but greater than IDL.
 B: Compound detected in method blank as well as sample, value estimated.

TABLE B-1 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 VOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	FORMER RUNWAY TURNAROUND		FORMER RUN-UP AREA THRUSTR DEFELECTOR				CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-14 1'-2' 11/13/96	L2-14 2'-4' 11/13/96	L2-15 0'-1' 11/15/96	L2-15 2'-4' 11/15/96	L2-15 4'-6' 11/15/96	L2-15 6'-8' 11/15/96		
DILUTION FACTOR	1	1	1	1	1	1		
PERCENT SOLIDS	88	88	86	79	97	86		
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)		
Chloromethane	U	U	U	U	U	U	10	---
Bromomethane	U	U	U	U	U	U	10	---
Vinyl Chloride	U	U	U	U	U	U	10	200
Chloroethane	U	U	U	U	U	U	10	1,900
Methylene Chloride	10	1	2	3	2	4	10	100
Acetone	33	22	37	76	46	38	10	200
Carbon Disulfide	U	U	U	U	U	U	10	2,700
1,1-Dichloroethene	U	U	U	U	U	U	10	400
1,1-Dichloroethane	U	U	U	U	U	U	10	200
1,2-Dichloroethene (total)	U	U	U	U	U	U	10	300
Chloroform	U	U	U	U	U	U	10	300
1,2-Dichloroethane	U	U	U	U	U	U	10	100
2-Butanone	U	U	U	U	U	U	10	300
1,1,1-Trichloroethane	U	U	U	U	U	U	10	800
Carbon Tetrachloride	U	U	U	U	U	U	10	600
Bromodichloromethane	U	U	U	U	U	U	10	---
1,2-Dichloropropane	U	U	U	U	U	U	10	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	10	---
Trichloroethene	U	U	U	U	U	U	10	700
Dibromochloromethane	U	U	U	U	U	U	10	---
1,1,2-Trichloroethane	U	U	U	U	U	U	10	---
Benzene	U	U	U	U	U	U	10	60
trans-1,3-Dichloropropene	U	U	U	U	U	U	10	---
Bromoform	U	U	U	U	U	U	10	---
4-Methyl-2-pentanone	U	U	U	U	U	U	10	1,000
2-Hexanone	U	U	U	U	U	U	10	---
Tetrachloroethene	0.9	U	U	U	U	U	10	1,400
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	10	600
Toluene	U	U	U	U	U	U	10	1,500
Chlorobenzene	U	U	U	U	U	U	10	1,700
Ethylbenzene	U	U	U	U	U	U	10	5,500
Styrene	U	U	U	U	U	U	10	---
Xylene (total)	1	U	U	U	U	U	10	1,200
TOTAL VOCs	45	23	39	79	48	42		10,000

NOTES:
 --- : Not established.

QUALIFIERS:
 U: Compound analyzed for but not detected.
 J: Value less than CRDL, but greater than IDL.
 B: Compound detected in method blank as well as sample, value estimated.

TABLE B-1 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 VOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	FORMER RUN-UP AREA THRUST DEFLECTOR										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-16 0-1'	L2-16 1'-2'	L2-16 2'-4'	L2-16 4'-6'	L2-16 6'-8'	L2-17 0-1'	L2-17 1'-2'	L2-17 2'-4'	L2-17 4'-6'	L2-17 6'-8'		
SAMPLE IDENTIFICATION	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96		
SAMPLE DEPTH	1	1	1	1	1	1	1	1	1	1		
DATE OF COLLECTION	82	86	84	84	84	86	84	84	84	84	84	84
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1	1	1
PERCENT SOLIDS	82	86	84	84	84	86	84	84	84	84	84	84
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Chloromethane	U	U	U	U	U	U	U	U	U	U	U	U
Bromomethane	U	U	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	U	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	U	U	U	U	U	U	U	U	U	U	U	U
Methylene Chloride	2 J	2 J	10	10	10	4 J	5 J	5 J	5 J	4 J	4 J	100
Acetone	22 B	19 B	38 B	38 B	56 B	53 B	72 B	72 B	72 B	59 B	59 B	2,700
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	U	400
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	200
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	200
1,2-Dichloroethane (total)	U	U	U	U	U	U	U	U	U	U	U	300
Chloroform	U	U	U	U	U	U	U	U	U	U	U	300
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	100
2-Butanone	U	U	U	U	U	U	U	U	U	U	U	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	800
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	U	600
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	U	---
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	U	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	---
Trichloroethene	U	U	U	U	U	U	U	U	U	U	U	---
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	U	700
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	---
Benzene	U	U	U	U	U	U	U	U	U	U	U	60
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	---
Bromoform	U	U	U	U	U	U	U	U	U	U	U	---
4-Methyl-2-pentanone	U	U	U	U	U	U	U	U	U	U	U	1,000
2-Hexanone	U	U	U	U	U	U	U	U	U	U	U	---
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	U	1,400
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	U	600
Toluene	3 J	U	U	U	U	U	U	U	U	U	U	1,500
Chlorobenzene	U	U	U	U	U	U	U	U	U	U	U	1,700
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	U	5,500
Styrene	U	U	U	U	U	U	U	U	U	U	U	---
Xylene (total)	3 J	U	U	U	U	U	U	U	U	U	U	1,200
TOTAL VOCs	30	21	48	66	57	77	63					10,000

NOTES:
 --- : Not established.

QUALIFIERS:
 U: Compound analyzed for but not detected.
 J: Value less than CRDL, but greater than IDL.
 B: Compound detected in method blank as well as sample, value estimated.

TABLE B-1 (continued)
 NORTHRUP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 VOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION SAMPLE IDENTIFICATION SAMPLE DEPTH DATE OF COLLECTION DILUTION FACTOR PERCENT SOLIDS UNITS	FORMER RUN-UP AREA THRUST DEFLECTOR					DWL2-1 0 - 2' 11/18/96 (ug/kg)	CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-17 4' - 6' 11/15/96 1 96 (ug/kg)	L2-18 0 - 1' 11/15/96 1 83 (ug/kg)	L2-18 1' - 2' 11/15/96 1 80 (ug/kg)	L2-18 2' - 4' 11/15/96 1 85 (ug/kg)	L2-18 4' - 6' 11/15/96 1 97 (ug/kg)			
Chloromethane	U	U	U	U	U	U	10	---
Bromomethane	U	U	U	U	U	U	10	---
Vinyl Chloride	U	U	U	U	U	U	10	200
Chloroethane	U	U	U	U	U	U	10	1,900
Methylene Chloride	J	4	JB	U	J	9	10	100
Acetone	10	15	B	26	33	71	10	200
Carbon Disulfide	U	U	U	U	U	U	10	2,700
1,1-Dichloroethane	U	U	U	U	U	U	10	400
1,2-Dichloroethane (total)	U	U	U	U	U	U	10	200
Chloroform	U	U	U	U	U	U	10	300
1,2-Dichloroethane	U	U	U	U	U	U	10	300
2-Butanone	U	U	U	U	U	U	10	100
1,1,1-Trichloroethane	U	U	U	U	U	U	10	300
Carbon Tetrachloride	U	U	U	U	U	U	10	100
Bromodichloromethane	U	U	U	U	U	U	10	300
1,2-Dichloropropane	U	U	U	U	U	U	10	100
cis-1,3-Dichloropropene	U	U	U	U	U	U	10	300
Trichloroethene	U	U	U	U	U	U	10	300
Dibromochloromethane	U	U	U	U	U	U	10	800
1,1,2-Trichloroethane	U	U	U	U	U	U	10	600
Benzene	U	U	U	U	U	U	10	---
trans-1,3-Dichloropropene	U	U	U	U	U	U	10	---
Bromoform	U	U	U	U	U	U	10	700
4-Methyl-2-pentanone	U	U	U	U	U	U	10	---
2-Hexanone	U	U	U	U	U	U	10	60
Tetrahydroethene	U	U	U	U	U	U	10	---
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	10	1,000
Toluene	U	U	U	U	U	U	10	1,400
Chlorobenzene	U	U	U	U	U	U	10	600
Ethylbenzene	U	U	U	U	U	U	10	1,500
Styrene	U	U	U	U	U	U	10	1,700
Xylene (total)	U	U	U	U	U	U	10	5,500
TOTAL VOCs	11	13	17	26	35	82	10,000	

NOTES:
 ---- : Not established.

QUALIFIERS:
 U: Compound analyzed for but not detected.
 J: Value less than CRDL, but greater than IDL.
 B: Compound detected in method blank as well as sample, value estimated.

TABLE B-1 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 VOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	DRY WELL SOIL/SEDIMENT SAMPLING										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)	
	DWL2-1 2' - 4' 11/18/96	DWL2-2 2' - 4' 11/18/96	DWL2-3 0 - 2' 11/18/96	DWL2-3 2' - 4' 11/18/96	DWL2-4 0 - 2' 11/18/96	DWL2-4 2' - 4' 11/18/96	DWL2-4 0 - 2' 11/18/96	DWL2-4 2' - 4' 11/18/96	FB-1 11/13/96	FB-1 11/13/96			
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1	(ug/L)	(ug/kg)	
PERCENT SOLIDS	97	95	71	86	93	96	96	96	NA	NA	(ug/L)	(ug/kg)	
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/kg)	
Chloromethane	U	U	U	U	U	U	U	U	U	U	U	10	---
Bromomethane	U	U	U	U	U	U	U	U	U	U	U	10	---
Vinyl Chloride	U	U	U	U	U	U	U	U	U	U	U	10	200
Chloroethane	U	U	U	U	U	U	U	U	U	U	U	10	1,900
Methylene Chloride	4 JB	5 B	11 J	2 JB	4 JB	U	U	U	U	U	U	10	100
Acetone	51 B	15 B	170 B	11 JB	50 B	10 B	U	U	U	U	U	10	200
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	U	10	2,700
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	U	U	10	400
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	10	200
1,2-Dichloroethene (total)	U	U	U	U	U	U	U	U	U	U	U	10	300
Chloroform	U	U	U	U	U	U	U	U	U	U	U	10	300
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	10	100
2-Butanone	U	U	U	U	U	U	U	U	U	U	U	10	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	10	800
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	U	10	600
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	U	10	---
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	U	10	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	10	---
Trichloroethene	U	U	U	U	U	U	U	U	U	U	U	10	700
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	U	10	---
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	10	---
Benzene	U	U	U	U	U	U	U	U	U	U	U	10	60
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	10	---
Bromoform	U	U	U	U	U	U	U	U	U	U	U	10	---
4-Methyl-2-pentanone	U	U	U	U	U	U	U	U	U	U	U	10	1,000
2-Hexanone	U	U	U	U	U	U	U	U	U	U	U	10	---
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	U	10	1,400
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	U	10	600
Toluene	U	U	1,200	U	2	U	U	U	U	U	U	10	1,500
Chlorobenzene	U	U	4	U	U	U	U	U	U	U	U	10	1,700
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	U	10	5,500
Styrene	U	U	U	U	U	U	U	U	U	U	U	10	---
Xylene (total)	U	U	U	U	U	U	U	U	U	U	U	10	1,200
TOTAL VOCs	55	20	1,385	13	56	12	2	2	2	2	2	10,000	

NOTES:
 - : Not applicable.
 - : Not established.
 NA : Information not available.

QUALIFIERS:
 U: Compound analyzed for but not detected.
 J: Value less than CRDL, but greater than IDL.
 B: Compound detected in method blank as well as sample, value estimated.

TABLE B-1 (continued)
 NORTROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 VOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	FIELD BLANKS			CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	FB-2 (ug/L)	FB-3 (ug/L)	FB-4 (ug/L)		
SAMPLE IDENTIFICATION					
SAMPLE DEPTH					
DATE OF COLLECTION	11/13/96	11/15/96	11/15/96		
DILUTION FACTOR	1	1	1		
PERCENT SOLIDS	NA	NA	NA		
UNITS	(ug/L)	(ug/L)	(ug/L)		
Chloromethane	U	U	U	10	---
Bromomethane	U	U	U	10	---
Vinyl Chloride	U	U	U	10	200
Chloroethane	U	U	U	10	1,900
Methylene Chloride	U	U	U	10	100
Acetone	U	U	U	10	200
Carbon Disulfide	U	U	U	10	2,700
1,1-Dichloroethene	U	U	U	10	400
1,1-Dichloroethane	U	U	U	10	200
1,2-Dichloroethene (total)	U	U	U	10	300
Chloroform	2	2	U	10	300
1,2-Dichloroethane	U	U	U	10	100
2-Butanone	U	U	U	10	300
1,1,1-Trichloroethane	U	U	U	10	800
Carbon Tetrachloride	U	U	U	10	600
Bromodichloromethane	U	U	U	10	---
1,2-Dichloropropane	U	U	U	10	---
cis-1,3-Dichloropropene	U	U	U	10	---
Trichloroethene	U	U	U	10	700
Dibromochloromethane	U	U	U	10	---
1,1,2-Trichloroethane	U	U	U	10	---
Benzene	U	U	U	10	60
trans-1,3-Dichloropropene	U	U	U	10	---
Bromoform	U	U	U	10	---
4-Methyl-2-pentanone	U	U	U	10	1,000
2-Hexanone	U	U	U	10	---
Tetrachloroethene	U	U	U	10	1,400
1,1,2,2-Tetrachloroethane	U	U	U	10	600
Toluene	U	U	U	10	1,500
Chlorobenzene	U	U	U	10	1,700
Ethylbenzene	U	U	U	10	5,500
Styrene	U	U	U	10	---
Xylene (total)	U	U	U	10	1,200
TOTAL VOCs	2	2	0		10,000

NOTES:
 -- : Not applicable.
 --- : Not established.
 NA : Information not available.

QUALIFIERS:
 U: Compound analyzed for but not detected.
 J: Value less than CRDL, but greater than IDL.

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

NR103(1-2)

Lab Name: IEA

Contract: _____

Lab Code: IEA Case No.: 0340

SAS No.: _____

SDG No.: A0340

Matrix (soil/water): SOIL

Lab Sample ID: 970340A-18

Level (low/med): LOW

Date Received: 02/13/97

% Solids: 95.3

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	37.2		N	P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: MEDIUM

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

TABLE B-2
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION SAMPLE IDENTIFICATION SAMPLE DEPTH DATE OF COLLECTION DILUTION FACTOR PERCENT SOLIDS UNITS	AREA ADJACENT TO FORMER THRUST DEFLECTOR ON NORTH RUNWAY - PARCEL L1						CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)	
	L2-1 0 - 1' 11/13/96 2 91 (ug/kg)	L2-1 1' - 2' 11/13/96 1 86 (ug/kg)	L2-1 2' - 4' 11/13/96 1 87 (ug/kg)	L2-1 4' - 6' 11/13/96 1 94 (ug/kg)	L2-1 6' - 8' 11/13/96 1 95 (ug/kg)	L2-2 0 - 1' 11/13/96 1 88 (ug/kg)			L2-2 1' - 2' 11/13/96 1 92 (ug/kg)
Phenol	U	U	U	U	U	U	U	330	30 or MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	330	---
2-Chlorophenol	U	U	U	U	U	U	U	330	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	330	1600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	330	8500
1,2-Dichlorobenzene	U	U	U	U	U	U	U	330	7900
2-Methylphenol	U	U	U	U	U	U	U	330	100 or MDL
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	330	---
4-Methylphenol	U	U	U	U	U	U	U	330	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	330	---
Hexachloroethane	U	U	U	U	U	U	U	330	---
Nitrobenzene	U	U	U	U	U	U	U	330	200 or MDL
Isophorone	U	U	U	U	U	U	U	330	4400
2-Nitrophenol	U	U	U	U	U	U	U	330	330 or MDL
2,4-Dimethylphenol	U	U	U	U	U	U	U	330	---
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	330	400
2,4-Dichlorophenol	U	U	U	U	U	U	U	330	3400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	330	13000
Naphthalene	U	U	U	U	U	U	U	330	220 or MDL
4-Chloroaniline	U	U	U	U	U	U	U	330	---
Hexachlorobutadiene	U	U	U	U	U	U	U	330	---
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	330	240 or MDL
2-Methylnaphthalene	U	U	U	U	U	U	U	330	36400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	330	---
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	330	100
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	330	---
2-Chloronaphthalene	U	U	U	U	U	U	U	330	430 or MDL
2-Nitroaniline	U	U	U	U	U	U	U	330	2000
Dimethylphthalate	U	U	U	U	U	U	U	330	41000
Acenaphthylene	U	U	U	U	U	U	U	330	1000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	330	500 or MDL
3-Nitroaniline	U	U	U	U	U	U	U	330	50000
Acenaphthene	U	U	U	U	U	U	U	330	200 or MDL
2,4-Dinitrophenol	U	U	U	U	U	U	U	330	100 or MDL
4-Nitrophenol	U	U	U	U	U	U	U	330	---

TABLE B-2 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	AREA ADJACENT TO FORMER THRUST DEFLECTOR ON NORTH RUNWAY - PARCEL L1										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-1 0-1' 11/13/96	L2-1 1'-2' 11/13/96	L2-1 2'-4' 11/13/96	L2-1 4'-6' 11/13/96	L2-1 6'-8' 11/13/96	L2-2 0-1' 11/13/96	L2-2 1'-2' 11/13/96	L2-2 2'-4' 11/13/96	L2-2 82 (ug/kg)	L2-2 47 (ug/kg)		
DIBENZOFURAN	41	86	94	95	88	92	U	U	U	U	330	6200
2,4-DINITROTOLUENE	U	U	U	U	U	U	U	U	U	U	330	7100
DIETHYLPHthalate	U	6	U	8	U	U	U	U	U	U	330	50000
4-CHLOROPHENYL-PHENYLETHER	75	68	U	11	U	U	U	U	U	U	330	50000
Fluorene	U	U	U	U	U	U	U	U	U	U	800	---
4-NITROANILINE	U	U	U	U	U	U	U	U	U	U	800	---
4,6-DINITRO-2-METHYLPHENOL	U	U	U	U	U	U	U	U	U	U	330	---
N-NITROSODIPHENYLAMINE	U	U	U	U	U	U	U	U	U	U	330	410
4-BROMOPHENYL-PHENYLETHER	U	U	U	U	U	U	U	U	U	U	330	100 or MDL
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	U	800	50000
Pentachlorophenol	1900	700	U	290	63	8	U	U	U	U	330	50000
Phenanthrene	300	97	U	50	10	U	U	U	U	U	330	50000
Anthracene	U	U	U	U	U	U	U	U	U	U	330	---
Carbazole	U	U	U	U	U	U	U	U	U	U	330	8100
Di-n-butylphthalate	11	6	8 JB	6	6 JB	6	U	U	U	U	330	50000
Fluoranthene	3700	960	11	780	140	14	U	U	U	U	330	50000
Pyrene	3200	830	10	620	140	12	U	U	U	U	330	50000
Butylbenzylphthalate	U	U	U	U	U	U	U	U	U	U	330	224 or MDL
3,3'-Dichlorobenzidine	1600	400	U	270	61	7	U	U	U	U	330	400
Benzo(a)anthracene	2100	440	U	340	79	11	U	U	U	U	330	50000
Chrysene	U	52	22	110	120	49	U	U	U	U	330	50000
bis(2-Ethylhexyl)phthalate	U	U	U	U	U	U	U	U	U	U	330	1100
Di-n-octylphthalate	U	U	U	U	U	U	U	U	U	U	330	1100
Benzo(b)fluoranthene	1600	330	U	250	57	U	U	U	U	U	330	1100
Benzo(k)fluoranthene	1300	320	U	280	62	U	U	U	U	U	330	3200
Benzo(a)pyrene	1700	350	U	280	62	U	U	U	U	U	330	61 or MDL
Indeno(1,2,3-cd)pyrene	1000	240	U	180	53	U	U	U	U	U	330	14 or MDL
Dibenzo(a,h)anthracene	990	260	U	210	58	U	U	U	U	U	330	50000
Benzo(g,h,i)perylene	U	U	U	U	19	U	U	U	U	U	330	---
Benzoic Acid	U	U	U	U	U	U	U	U	U	U	330	---
TOTAL PAHs	19425	5068	21	1409	785	52	75	100000				
TOTAL CaPAHs	9200	2080	0	631	374	18	26	10000				
TOTAL SVOCs	19477	5165	58	1515	940	114	198	500000				

NOTES
 --- : Not established.
 MDL: Method Detection Limit.
 ████: Value exceeds the NYSDEC TAGM 4046 Appendix A criteria.

QUALIFIERS
 U: Compound analyzed for but not detected.
 B: Compound detected in method blank as well as sample, value estimated.
 J: Compound concentration is less than the CRDL but greater than the IDL.

TABLE B-2 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	AREA ADJACENT TO FORMER THRUST DEFLECTOR ON NORTH RUNWAY - PARCEL L1										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-2 4'-6' 11/13/96 1	L2-2 6'-8' 11/13/96 1	L2-2 0-1' 11/13/96 1	L2-3 1'-2' 11/13/96 1	L2-3 2'-4' 11/13/96 1	L2-3 4'-6' 11/13/96 1	L2-3 6'-8' 11/13/96 1	L2-3 8'-10' 11/13/96 1	L2-4 0-1' 11/15/96 1	L2-4 1-2' 11/15/96 1		
Phenol	U	U	U	U	U	U	U	U	U	U	330	30 or MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	U	U	U	330	---
2-Chlorophenol	U	U	U	U	U	U	U	U	U	U	330	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	330	1600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	330	8500
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	330	7900
2-Methylphenol	U	U	U	U	U	U	U	U	U	U	330	100 or MDL
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	U	U	U	330	---
4-Methylphenol	U	U	U	U	U	U	U	U	U	U	330	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	U	U	330	---
Hexachloroethane	U	U	U	U	U	U	U	U	U	U	330	200 or MDL
Nitrobenzene	U	U	U	U	U	U	U	U	U	U	330	4400
Isophorone	U	U	U	U	U	U	U	U	U	U	330	330 or MDL
2-Nitrophenol	U	U	U	U	U	U	U	U	U	U	330	---
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	U	U	330	---
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	U	U	U	330	400
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	U	U	330	3400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	330	13000
Naphthalene	U	U	U	U	U	U	U	U	U	U	330	220 or MDL
4-Chloroaniline	U	U	U	U	U	U	U	U	U	U	330	---
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	U	330	240 or MDL
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	U	U	330	36400
2-Methylnaphthalene	U	U	U	U	U	U	U	U	U	U	330	---
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	U	U	330	100
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	330	---
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	330	430 or MDL
2-Chloronaphthalene	U	U	U	U	U	U	U	U	U	U	330	2000
2-Nitroaniline	U	U	U	U	U	U	U	U	U	U	330	41000
Dimethylphthalate	U	U	U	U	U	U	U	U	U	U	330	1000
Acenaphthylene	U	U	U	U	U	U	U	U	U	U	330	500 or MDL
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	330	50000
3-Nitroaniline	U	U	U	U	U	U	U	U	U	U	330	200 or MDL
Acenaphthene	U	U	U	U	U	U	U	U	U	U	330	100 or MDL
2,4-Dinitrophenol	U	U	U	U	U	U	U	U	U	U	330	---
4-Nitrophenol	U	U	U	U	U	U	U	U	U	U	330	---

TABLE B-2 (continued)
 NORTROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION SAMPLE IDENTIFICATION SAMPLE DEPTH DATE OF COLLECTION DILUTION FACTOR PERCENT SOLIDS UNITS	AREA ADJACENT TO FORMER THRUST DEFLECTOR ON NORTH RUNWAY - PARCEL L1										L2-4 0 - 1' 11/15/96 (ug/kg)	CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-2 4'-6' 11/13/96 (ug/kg)	L2-2 6'-8' 11/13/96 (ug/kg)	L2-2 83 (ug/kg)	L2-3 0-1' 11/13/96 (ug/kg)	L2-3 1'-2' 11/13/96 (ug/kg)	L2-3 2'-4' 11/13/96 (ug/kg)	L2-3 4'-6' 11/13/96 (ug/kg)	L2-3 6'-8' 11/13/96 (ug/kg)	L2-3 83 (ug/kg)	L2-4 0-1' 11/15/96 (ug/kg)			
Dibenzofuran	U	U	U	U	U	U	U	U	U	U	U	330	62000
2,4-Dinitrotoluene	9	8	U	U	U	U	U	U	U	U	U	330	7100
Diethylphthalate	U	U	U	U	U	U	U	U	U	U	U	330	50000
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	U	330	50000
Fluorene	U	U	U	U	U	U	U	U	U	U	U	800	---
4-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	330	---
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	U	U	330	---
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	U	U	330	---
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	U	330	410
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	100 or MDL
Pentachlorophenol	21	7	U	U	U	U	U	U	U	U	U	330	50000
Phenanthrene	4	U	U	U	U	U	U	U	U	U	U	330	50000
Anthracene	U	U	U	U	U	U	U	U	U	U	U	330	---
Carbazole	U	U	U	U	U	U	U	U	U	U	U	330	8100
Di-n-butylphthalate	5 JB	9 JB	U	U	U	U	U	U	U	U	U	330	50000
Fluoranthene	44	14	U	U	U	U	U	U	U	U	U	330	50000
Pyrene	40	U	U	U	U	U	U	U	U	U	U	330	50000
Butylbenzylphthalate	U	U	U	U	U	U	U	U	U	U	U	330	224 or MDL
3,3'-Dichlorobenzidine	20	U	U	U	U	U	U	U	U	U	U	330	400
Benzo(a)anthracene	24	U	U	U	U	U	U	U	U	U	U	330	50000
Chrysene	91	94	U	U	U	U	U	U	U	U	U	330	50000
bis(2-Ethylhexyl)phthalate	U	U	U	U	U	U	U	U	U	U	U	330	50000
Benzo(b)fluoranthene	17	U	U	U	U	U	U	U	U	U	U	330	1100
Benzo(k)fluoranthene	22	U	U	U	U	U	U	U	U	U	U	330	1100
Benzo(a)pyrene	21	U	U	U	U	U	U	U	U	U	U	330	61 or MDL
Indeno(1,2,3-cd)pyrene	15	U	U	U	U	U	U	U	U	U	U	330	3200
Dibenzo(a,h)anthracene	U	U	U	U	U	U	U	U	U	U	U	330	14 or MDL
Benzo(g,h,i)perylene	17	U	U	U	U	U	U	U	U	U	U	330	50000
Benzoic Acid	U	U	U	U	U	U	U	U	U	U	U	330	---
TOTAL PAHs	245	35	3060	67	0	0	0	0	2733	1640	100000	100000	
TOTAL CaPAHs	119	0	1420	0	0	0	0	0	1270	732	10000	10000	
TOTAL SVOCs	350	175	3128	103	93	171	2904	1762	2904	1762	500000	500000	

NOTES
 --- : Not established.
 MDL: Method Detection Limit
 J: Value exceeds the NYSDEC TAGM 4046 Appendix A criteria.

TABLE B-2 (continued)
 NORTROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2						L2-6 0 - 1' 11/15/96	CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-4 1' - 2' 11/15/96	L2-4 2' - 4' 11/15/96	L2-4 4' - 6' 11/15/96	L2-5 0 - 1' 11/15/96	L2-5 1' - 2' 11/15/96	L2-5 2' - 4' 11/15/96			
SAMPLE DEPTH	1' - 2'	2' - 4'	4' - 6'	0 - 1'	1' - 2'	2' - 4'	4' - 6'		
DATE OF COLLECTION	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96		
DILUTION FACTOR	1	1	1	10	1	1	1		
PERCENT SOLIDS	89	90	90	85	80	85	97		
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)		
Phenol	U	U	U	U	U	U	U	330	30 or MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	330	800
2-Chlorophenol	U	U	U	U	U	U	U	330	1600
1,3-Dichlorobenzene	U	U	U	U	U	U	U	330	8500
1,4-Dichlorobenzene	U	U	U	U	U	U	U	330	7900
1,2-Dichlorobenzene	U	U	U	U	U	U	U	330	100 or MDL
2-Methylphenol	U	U	U	U	U	U	U	330	900
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	330	---
4-Methylphenol	U	U	U	U	U	U	U	330	---
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	330	---
Hexachloroethane	U	U	U	U	U	U	U	330	200 or MDL
Nitrobenzene	U	U	U	U	U	U	U	330	4400
Isophorone	U	U	U	U	U	U	U	330	330 or MDL
2-Nitrophenol	U	U	U	U	U	U	U	330	---
2,4-Dimethylphenol	U	U	U	U	U	U	U	330	---
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	330	400
2,4-Dichlorophenol	U	U	U	U	U	U	U	330	3400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	330	13000
Naphthalene	U	U	U	U	U	U	U	330	220 or MDL
4-Chloroaniline	U	U	U	U	U	U	U	330	---
Hexachlorobutadiene	U	U	U	U	U	U	U	330	---
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	330	240 or MDL
2-Methylnaphthalene	U	U	U	U	U	U	U	330	36400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	330	---
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	330	100
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	330	---
2-Chloronaphthalene	U	U	U	U	U	U	U	330	430 or MDL
2-Nitroaniline	U	U	U	U	U	U	U	330	2000
Dimethylphthalate	U	U	U	U	U	U	U	330	41000
Acenaphthylene	U	U	U	U	U	U	U	330	1000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	330	500 or MDL
3-Nitroaniline	U	U	U	U	U	U	U	330	50000
Acenaphthene	U	U	U	U	U	U	U	330	200 or MDL
2,4-Dinitrophenol	U	U	U	U	U	U	U	330	100 or MDL
4-Nitrophenol	U	U	U	U	U	U	U	330	---
				750	25			21	
					8			44	
								12	
								42	

TABLE B-2 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-4 1'-2' 11/15/96	L2-4 2'-4' 11/15/96	L2-4 4'-6' 11/15/96	L2-5 0-1' 11/15/96	L2-5 1'-2' 11/15/96	L2-5 2'-4' 11/15/96	L2-5 4'-6' 11/15/96	L2-6 0-1' 11/15/96	L2-6 1-1' 11/15/96	L2-6 1-1' 11/15/96		
Dibenzofuran	5 J	90	90	310 J	10 J	85	97	17	90	U	6200	
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	---	
Diethylphthalate	6 J	12	6	U	7 J	U	7	U	7	U	7100	
4-Chlorophenyl-phenylether	U	U	U	830	23 J	U	U	U	31	U	---	
Fluorene	U	U	U	U	U	U	U	U	U	U	50000	
4-Nitroaniline	U	U	U	U	U	U	U	U	U	U	---	
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	U	---	
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	U	---	
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	---	
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	U	410	
Pentachlorophenol	U	U	U	U	U	U	U	U	U	U	100 or MDL	
Phenanthrene	120 J	7 J	28 J	12000	400 J	U	U	500	500	U	50000	
Anthracene	20 J	1	6 J	2000	68 J	U	U	100	100	U	50000	
Carbazole	U	U	U	U	U	U	U	U	U	U	---	
Di-n-butylphthalate	7 JB	8 JB	7 JB	U	7 JB	5 JB	9 JB	15	15	JB	8100	
Fluoranthene	160 J	13 J	60 J	24000	870	U	U	1000	1000	U	50000	
Pyrene	150 J	11	42 J	14000	760	U	U	800	800	U	50000	
Butylbenzylphthalate	U	U	U	U	U	U	U	32	32	J	50000	
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	U	U	U	---	
Benzo(a)anthracene	71 J	U	31 J	11000	470	U	U	590	590	U	224 or MDL	
Chrysene	71 J	U	33 J	11000	460	U	U	700	700	U	400	
bis(2-Ethylhexyl)phthalate	53 JB	49 JB	62 JB	U	140 JB	69 JB	56 JB	69	69	JB	50000	
Di-n-octylphthalate	U	6	U	U	U	U	U	7	7	J	50000	
Benzo(b)fluoranthene	47 J	U	26 J	9300	310 J	U	U	550	550	U	1100	
Benzo(k)fluoranthene	46 J	U	26 J	7400	290 J	U	U	530	530	U	1100	
Benzo(a)pyrene	49 J	U	28 J	8100	340 J	U	U	570	570	U	61 or MDL	
Indeno(1,2,3-cd)pyrene	26 J	U	U	1700	180 J	U	U	190	190	J	3200	
Dibenzo(a,h)anthracene	U	U	U	710 J	73 J	U	U	160	160	J	14 or MDL	
Benzo(g,h,i)perylene	26 J	U	U	1300	160 J	U	U	U	U	J	50000	
Benzoic Acid	17 J	U	U	U	U	U	U	U	U	U	---	
TOTAL PAHs	796	32	280	104900	4379	0	0	5796	5796	0	100000	
TOTAL CarPAHs	310	0	144	50110	2073	0	0	3130	3130	0	10000	
TOTAL SVOCs	884	107	355	105300	4551	74	72	5987	5987	72	500000	

NOTES
 U: Compound analyzed for but not detected.
 B: Compound detected in method blank as well as sample, value estimated.
 J: Compound concentration is less than the CRDL but greater than the IDL.
 ---: Not established.
 MDL: Method Detection Limit.
 [Shaded Box]: Value exceeds the NYSDEC TAGM 4046 Appendix A criteria.

TABLE B-2 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2										CONTRACT DETECTED LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)	
	L2-6 1'-2' 11/15/96 1	L2-6 2'-4' 11/15/96 1	L2-6 4'-6' 11/15/96 1	L2-7 0-1' 11/15/96 1	L2-7 1'-2' 11/15/96 1	L2-7 2'-4' 11/15/96 1	L2-7 4'-6' 11/15/96 1	L2-8 0-1' 11/13/96 1	L2-8 1-2' 11/15/96 1	L2-8 2-4' 11/15/96 1			L2-8 4'-6' 11/15/96 1
Phenol	85	85	81	90	92	93	90	99				330	30 or MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	U	U	U	U	330	---
2-Chlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	1600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	8500
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	7900
2-Methylphenol	U	U	U	U	U	U	U	U	U	U	U	330	100 or MDL
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	U	U	U	U	330	---
4-Methylphenol	U	U	U	U	U	U	U	U	U	U	U	330	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	U	U	U	330	---
Hexachloroethane	U	U	U	U	U	U	U	U	U	U	U	330	200 or MDL
Nitrobenzene	U	U	U	U	U	U	U	U	U	U	U	330	4400
Isophorone	U	U	U	U	U	U	U	U	U	U	U	330	330 or MDL
2-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U	330	---
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	U	U	U	330	---
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	U	U	U	U	330	400
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	3400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	13000
Naphthalene	U	U	U	18	U	U	U	U	U	U	U	330	220 or MDL
4-Chloroaniline	U	U	U	U	U	U	U	U	U	U	U	330	---
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	U	U	330	240 or MDL
4-Chloro-3-methylphenol	U	U	U	36	U	U	U	U	U	U	U	330	36400
2-Methylnaphthalene	U	U	U	U	U	U	U	U	U	U	U	330	---
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	U	U	U	330	100
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	---
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	430 or MDL
2-Chloronaphthalene	U	U	U	U	U	U	U	U	U	U	U	330	2000
2-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	330	41000
Dimethylphthalate	U	U	U	U	U	U	U	U	U	U	U	330	1000
Acenaphthylene	U	U	U	6	U	U	U	U	U	U	U	330	500 or MDL
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	U	330	50000
3-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	330	200 or MDL
Acenaphthene	U	U	U	120	U	U	U	U	U	U	U	330	---
2,4-Dinitrophenol	U	U	U	U	U	U	U	U	U	U	U	330	800
4-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U	330	100 or MDL

TABLE B-2 (continued)
 NORTROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION SAMPLE IDENTIFICATION SAMPLE DEPTH DATE OF COLLECTION DILUTION FACTOR PERCENT SOLIDS UNITS	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2								CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-6 1'-2' 11/15/96 85 (ug/kg)	L2-6 2'-4' 11/15/96 85 (ug/kg)	L2-6 4'-6' 11/15/96 81 (ug/kg)	L2-7 0'-1' 11/15/96 90 (ug/kg)	L2-7 1'-2' 11/15/96 92 (ug/kg)	L2-7 2'-4' 11/15/96 93 (ug/kg)	L2-7 4'-6' 11/15/96 90 (ug/kg)	L2-8 0'-1' 11/13/96 99 (ug/kg)		
Dibenzofuran	U	U	U	J	U	U	U	U	U	6200
2,4-Dinitrotoluene	7	U	U	U	U	U	U	U	U	7100
Diethylphthalate	U	7	14	U	U	U	U	U	11 JB	330
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	U	33	330
Fluorene	U	U	U	J	U	U	U	U	U	50000
4-Nitroaniline	U	U	U	U	U	U	U	U	U	800
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	800
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	330
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	U	U	330
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	330
Pentachlorophenol	26	U	U	U	U	U	U	U	U	410
Phenanthrene	4	U	U	U	U	U	U	U	160 J	100 or MDL
Anthracene	U	U	U	U	U	U	U	U	350	50000
Carbazole	8	U	U	U	U	U	U	U	U	50000
Di-n-butylphthalate	U	7 JB	13	U	10 JB	6	U	U	12 JB	8100
Fluoranthene	51	U	U	U	U	U	U	U	550	50000
Pyrene	51	U	U	U	U	U	U	U	810	50000
Butylbenzylphthalate	U	U	U	U	U	U	U	U	U	50000
3,3'-Dichlorobenzidine	31	U	U	U	U	U	U	U	U	224 or MDL
Benzo(a)anthracene	38	U	U	U	U	U	U	U	480	400
Chrysene	37	U	U	U	U	U	U	U	700	50000
bis(2-Ethylhexyl)phthalate	U	U	U	U	U	U	U	U	29 JB	50000
Di-n-octylphthalate	U	U	U	U	U	U	U	U	U	50000
Benzo(b)fluoranthene	31	U	U	U	U	U	U	U	U	1100
Benzo(k)fluoranthene	24	U	U	U	U	U	U	U	U	1100
Benzo(a)pyrene	31	U	U	U	U	U	U	U	U	61 or MDL
Indeno(1,2,3-cd)pyrene	22	U	U	U	U	U	U	U	470	3200
Dibenzo(a,h)anthracene	U	U	U	U	U	U	U	U	U	14 or MDL
Benzo(g,h,i)perylene	U	U	U	U	U	U	U	U	470	50000
Benzoic Acid	U	U	U	U	U	U	U	U	U	---
TOTAL PAHs	309	0	0	12300	0	0	0	8172	100000	
TOTAL CaPAHs	177	0	0	6360	0	0	0	5250	10000	
TOTAL SVOCs	361	69	109	12416	93	161	59	8234	500000	

NOTES

- U: Compound analyzed for but not detected.
- B: Compound detected in method blank as well as sample, value estimated.
- J: Compound concentration is less than the CRDL but greater than the IDL.
- : Not established.
- MDL: Method Detection Limit.
- █ : Value exceeds the NYSDEC TAGM 4046 Appendix A criteria.

TABLE B-2 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-8 1'-2' 11/13/96	L2-8 2'-4' 11/13/96	L2-8 4'-6' 11/13/96	L2-9 0-1' 11/13/96	L2-9 1'-2' 11/13/96	L2-9 2'-4' 11/13/96	L2-9 4'-6' 11/13/96	L2-10 0-1' 11/14/96				
Phenol	U	U	U	U	U	U	U	U	U	U	330	30 or MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	U	U	U	330	800
2-Chlorophenol	U	U	U	U	U	U	U	U	U	U	330	1600
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	330	8500
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	330	7900
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	330	100 or MDL
2-Methylphenol	U	U	U	U	U	U	U	U	U	U	330	900
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	U	U	U	330	---
4-Methylphenol	U	U	U	U	U	U	U	U	U	U	330	---
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	U	U	330	---
Hexachloroethane	U	U	U	U	U	U	U	U	U	U	330	200 or MDL
Nitrobenzene	U	U	U	U	U	U	U	U	U	U	330	4400
Isophorone	U	U	U	U	U	U	U	U	U	U	330	330 or MDL
2-Nitrophenol	U	U	U	U	U	U	U	U	U	U	330	---
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	U	U	330	400
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	U	U	U	330	3400
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	U	U	330	13000
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	330	220 or MDL
Naphthalene	U	U	U	U	U	U	U	U	U	U	330	---
4-Chloroaniline	U	U	U	U	U	U	U	U	U	U	330	240 or MDL
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	U	330	36400
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	U	U	330	---
2-Methylnaphthalene	U	U	U	U	U	U	U	U	U	U	330	100
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	U	U	330	---
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	330	430 or MDL
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	330	2000
2-Chloronaphthalene	U	U	U	U	U	U	U	U	U	U	330	41000
2-Nitroaniline	U	U	U	U	U	U	U	U	U	U	330	1000
Dimethylphthalate	U	U	U	U	U	U	U	U	U	U	330	500 or MDL
Acenaphthylene	U	U	U	U	U	U	U	U	U	U	330	50000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	330	200 or MDL
3-Nitroaniline	U	U	U	U	U	U	U	U	U	U	330	100 or MDL
Acenaphthene	U	U	U	U	U	U	U	U	U	U	330	---
2,4-Dinitrophenol	U	U	U	U	U	U	U	U	U	U	330	---
4-Nitrophenol	U	U	U	U	U	U	U	U	U	U	330	---

TABLE B-2 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)		
	L2-8 1'-2' 11/13/96	L2-8 2'-4' 11/13/96	L2-8 4'-6' 11/13/96	L2-9 0-1' 11/13/96	L2-9 1'-2' 11/13/96	L2-9 2'-4' 11/13/96	L2-9 4'-6' 11/13/96	L2-10 0-1' 11/14/96	L2-10 1' 11/14/96	L2-10 75 11/14/96				
Dibenzofuran	U	U	U	U	U	U	U	U	U	U	U	130	J	6200
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	U	130	J	6200
Diethylphthalate	U	10 JB	65 JB	82 JB	33 JB	14 JB	42 JB	U	U	U	U	11 JB	U	7100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	U	210	J	50000
Fluorene	U	U	U	U	U	U	U	U	U	U	U	U	U	50000
4-Nitroaniline	68	U	U	U	U	U	U	U	U	U	U	U	U	50000
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	U	U	U	U	50000
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	U	U	U	U	50000
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	U	U	U	50000
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	U	50000
Pentachlorophenol	U	U	U	U	U	U	U	U	U	U	U	U	U	50000
Phenanthrene	U	U	U	U	U	U	U	U	U	U	U	U	U	50000
Anthracene	U	U	U	U	U	U	U	U	U	U	U	U	U	50000
Carbazole	U	U	U	U	U	U	U	U	U	U	U	U	U	50000
Di-n-butylphthalate	32 JB	16 JB	17 JB	14 JB	13 JB	12 JB	10 JB	U	U	U	U	16 JB	JB	8100
Fluoranthene	U	U	U	32 J	14 J	53 J	U	U	U	U	U	1400	U	50000
Pyrene	22 J	U	U	27 J	12 J	33 J	U	U	U	U	U	1100	U	50000
Butylbenzophthalate	U	U	U	U	U	U	U	U	U	U	U	U	U	50000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	U	U	U	U	U	U	50000
Benzo(a)anthracene	35 J	42 JB	26 JB	24 J	34 JB	23 J	22 JB	U	U	U	U	88 JB	JB	224 or MDL
Chrysene	99 JB	U	U	30 J	U	37 J	U	U	U	U	U	790	U	400
bis(2-Ethylhexyl)phthalate	U	U	U	62 JB	U	140 JB	U	U	U	U	U	U	U	50000
Di-n-octylphthalate	U	U	U	U	U	U	U	U	U	U	U	U	U	50000
Benzo(b)fluoranthene	U	U	U	25 J	U	30 J	U	U	U	U	U	530	U	1100
Benzo(k)fluoranthene	U	U	U	22 J	U	26 J	U	U	U	U	U	440	U	1100
Benzo(a)pyrene	U	U	U	23 J	U	26 J	U	U	U	U	U	500	U	61 or MDL
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	U	U	U	U	U	U	280 J	J	3200
Dibenzo(a,h)anthracene	U	U	U	U	U	U	U	U	U	U	U	100 J	J	14 or MDL
Benzo(g,h,i)perylene	U	U	U	U	U	U	U	U	U	U	U	300 J	J	50000
Benzoic Acid	U	U	U	U	U	U	U	U	U	U	U	U	U	50000
TOTAL PAHs	75	0	0	198	26	311	0	8253						100000
TOTAL CaPAHs	35	0	0	124	0	142	0	3310						10000
TOTAL SVOCs	274	68	149	356	106	477	74	8571						500000

NOTES

U: Compound analyzed for but not detected.
 B: Compound detected in method blank as well as sample, value estimated.
 J: Compound concentration is less than the CRDL but greater than the IDL.
 ---: Not established.
 MDL: Method Detection Limit.
 [Patterned Box]: Value exceeds the NYSDEC TAGM 4046 Appendix A criteria.

TABLE B-2 (continued)
 NORTHRUP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION SAMPLE IDENTIFICATION SAMPLE DEPTH DATE OF COLLECTION DILUTION FACTOR PERCENT SOLIDS UNITS	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)	
	L2-10 1'-2' 11/14/96 1 78 (ug/kg)	L2-10 2'-4' 11/14/96 1 94 (ug/kg)	L2-10 4'-6' 11/14/96 1 96 (ug/kg)	L2-11 0-1' 11/14/96 1 89 (ug/kg)	L2-11 1'-2' 11/14/96 1 95 (ug/kg)	L2-11 2'-4' 11/14/96 1 93 (ug/kg)	L2-11 4'-6' 11/14/96 1 86 (ug/kg)	L2-12 0-1' 11/13/96 5 88 (ug/kg)					
Phenol	U	U	U	U	U	U	U	U	U	U	U	330	30 or MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	U	U	U	U	330	---
2-Chlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	1600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	8500
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	7900
2-Methylphenol	U	U	U	U	U	U	U	U	U	U	U	330	100 or MDL
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	U	U	U	U	330	---
4-Methylphenol	U	U	U	U	U	U	U	U	U	U	U	330	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	U	U	U	330	---
Hexachloroethane	U	U	U	U	U	U	U	U	U	U	U	330	---
Nitrobenzene	U	U	U	U	U	U	U	U	U	U	U	330	200 or MDL
Isophorone	U	U	U	U	U	U	U	U	U	U	U	330	4400
2-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U	330	330 or MDL
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	U	U	U	330	---
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	U	U	U	U	330	---
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	3400
Naphthalene	U	U	U	U	U	U	U	U	U	U	U	330	13000
4-Chloroaniline	U	U	U	U	U	U	U	U	U	U	U	330	220 or MDL
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	U	U	330	---
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	U	U	U	330	240 or MDL
2-Methylnaphthalene	U	U	U	U	U	U	U	U	U	U	U	330	36400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	U	U	U	330	---
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	100
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	---
2-Chloronaphthalene	U	U	U	U	U	U	U	U	U	U	U	330	430 or MDL
2-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	330	2000
Dimethylphthalate	U	U	U	U	U	U	U	U	U	U	U	330	41000
Acenaphthylene	U	U	U	U	U	U	U	U	U	U	U	330	1000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	U	330	500 or MDL
3-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	330	50000
Acenaphthene	U	U	U	U	U	U	U	U	U	U	U	330	200 or MDL
2,4-Dinitrophenol	U	U	U	U	U	U	U	U	U	U	U	800	100 or MDL
4-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U	800	---

TABLE B-2 (continued)
 NORTHPRO GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)		
	L2-10 1'-2' 11/14/96 1	L2-10 2'-4' 11/14/96 1	L2-10 4'-6' 11/14/96 1	L2-11 0-1' 11/14/96 1	L2-11 1'-2' 11/14/96 1	L2-11 2'-4' 11/14/96 1	L2-11 4'-6' 11/14/96 1	L2-12 0-1' 11/13/96 5	L2-12 88	L2-12 620				
Dibenzofuran	U	U	U	U	U	U	U	U	U	U	U	U	330	62000
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	U	U	330	7100
Diethylphthalate	U	U	U	U	U	U	U	U	U	U	U	U	330	---
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	U	U	330	50000
Fluorene	U	U	U	U	U	U	U	U	U	U	U	U	330	---
4-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	U	800	---
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	U	U	U	800	---
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	U	U	U	330	---
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	U	U	330	---
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	330	---
Pentachlorophenol	U	U	U	U	U	U	U	U	U	U	U	U	330	410
Phenanthrene	U	U	U	U	U	U	U	U	U	U	U	U	800	100 or MDL
Anthracene	13	U	U	U	U	U	U	U	U	U	U	U	330	50000
Carbazole	U	U	U	U	U	U	U	U	U	U	U	U	330	50000
Di-n-butylphthalate	13 JB	U	U	U	U	U	U	U	U	U	U	U	330	---
Fluoranthene	32 J	10 J	U	U	U	U	U	U	U	U	U	U	330	8100
Pyrene	22	7	U	U	U	U	U	U	U	U	U	U	330	50000
Butylbenzylphthalate	U	U	U	U	U	U	U	U	U	U	U	U	330	50000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	U	U	U	U	U	330	---
Benzo(a)anthracene	12 J	U	U	U	U	U	U	U	U	U	U	U	330	224 or MDL
Chrysene	14 J	U	U	U	U	U	U	U	U	U	U	U	330	400
bis(2-Ethylhexyl)phthalate	90 JB	84	66 JB	69 JB	55 JB	48 JB	87 JB	U	U	U	U	U	330	50000
Di-n-octylphthalate	U	U	U	U	U	U	U	U	U	U	U	U	330	50000
Benzo(b)fluoranthene	12 J	U	U	U	U	U	U	U	U	U	U	U	330	1100
Benzo(k)fluoranthene	13	U	U	U	U	U	U	U	U	U	U	U	330	1100
Benzo(a)pyrene	U	U	U	U	U	U	U	U	U	U	U	U	330	61 or MDL
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	U	U	U	U	U	U	U	330	3200
Dibenzo(a,h)anthracene	U	U	U	U	U	U	U	U	U	U	U	U	330	14 or MDL
Benzo(g,h,i)perylene	U	U	U	U	U	U	U	U	U	U	U	U	330	50000
Benzoic Acid	U	U	U	U	U	U	U	U	U	U	U	U	330	---
TOTAL PAHs	118	17	0	0	0	22	0	34210	0	100000	0	10000	10000	500000
TOTAL CapAHs	51	0	0	0	0	15	0	17750	0	10000	0	10000	10000	500000
TOTAL SVOCs	221	117	85	95	73	88	113	35190	113	500000	113	500000	500000	500000

NOTES
 U: Compound analyzed for but not detected.
 B: Compound detected in method blank as well as sample, value estimated.
 J: Compound concentration is less than the CRDL but greater than the IDL.
 --- : Not established.
 MDL: Method Detection Limit.
 [shaded box]: Value exceeds the NYSDEC TAGM 4046 Appendix A criteria.

TABLE B-2 (continued)
 NORTROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION SAMPLE IDENTIFICATION SAMPLE DEPTH DATE OF COLLECTION DILUTION FACTOR PERCENT SOLIDS UNITS	FORMER RUNWAY TURNAROUND										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)				
	L2-12 1'-2' 11/13/96 1	L2-12 2'-4' 11/13/96 1	L2-12 4'-6' 11/13/96 1	L2-13 0-1' 11/13/96 2	L2-13 1'-2' 11/13/96 1	L2-13 2'-4' 11/13/96 1	L2-13 4'-6' 11/13/96 1	L2-14 0-1' 11/13/96 5	L2-14 1'-2' 11/13/96 5	L2-14 2'-4' 11/13/96 5			L2-14 4'-6' 11/13/96 5			
Phenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	30 or MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	---
2-Chlorophenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	1600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	8500
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	7900
2-Methylphenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	100 or MDL
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	---
4-Methylphenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	---
Hexachloroethane	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	---
Nitrobenzene	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	200 or MDL
Isophorone	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	---
2-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	---
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	---
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	4400
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	---
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	---
Naphthalene	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	400
4-Chloroaniline	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	3400
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	13000
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	---
2-Methylnaphthalene	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	220 or MDL
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	---
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	240 or MDL
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	---
2-Chloronaphthalene	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	100
2-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	---
Dimethylphthalate	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	430 or MDL
Acenaphthylene	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	2000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	41000
3-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	1000
Acenaphthene	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	500 or MDL
2,4-Dinitrophenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	50000
4-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	200 or MDL
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	100 or MDL

TABLE B-2 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION SAMPLE IDENTIFICATION SAMPLE DEPTH DATE OF COLLECTION DILUTION FACTOR PERCENT SOLIDS UNITS	FORMER RUNWAY TURNAROUND										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)	
	L2-12 1'-2' 11/13/96 1	L2-12 2'-4' 11/13/96 1	L2-12 4'-6' 11/13/96 1	L2-13 0-1' 11/13/96 2	L2-13 1'-2' 11/13/96 1	L2-13 2'-4' 11/13/96 1	L2-13 4'-6' 11/13/96 1	L2-13 87 (ug/kg)	L2-13 97 (ug/kg)	L2-14 0-1' 11/13/96 5			L2-14 74 (ug/kg)
Dibenzofuran	J	J	J	J	J	J	J	J	J	J	J	330	6200
2,4-Dinitrotoluene	34											330	---
Diethylphthalate												330	7100
4-Chlorophenyl-phenylether												330	---
Fluorene	58			610	480						1300	330	50000
4-Nitroaniline												800	---
4,6-Dinitro-2-methylphenol												800	---
N-Nitrosodiphenylamine												330	---
4-Bromophenyl-phenylether												330	---
Hexachlorobenzene												330	410
Pentachlorophenol												330	100 or MDL
Phenanthrene	460		19	3600	2600						8600	330	50000
Anthracene	47		3	1000	580						1700	330	50000
Carbazole												330	---
Di-n-butylphthalate		11		14	21						46	330	8100
Pyrene	440		21	3900	3000						8300	330	50000
Butylbenzylphthalate	350		16	2400	1600						5700	330	50000
3,3'-Dichlorobenzidine				23	41							330	50000
Benzo(a)anthracene	200			2000	1500						3000	330	224 or MDL
Chrysene	270			2300	1800						4300	330	400
bis(2-Ethylhexyl)phthalate	30			94	91						410	330	50000
Di-n-octylphthalate												330	50000
Benzo(b)fluoranthene	180			1800	1500						3000	330	1100
Benzo(k)fluoranthene	120			1800	1100						2800	330	1100
Benzo(a)pyrene	160			1800	1100						2300	330	61 or MDL
Indeno(1,2,3-cd)pyrene	93			400	150						1000	330	3200
Dibenzo(a,h)anthracene	64			180	85						430	330	14 or MDL
Benzo(g,h,i)perylene	100			320	120						890	330	50000
Benzoic Acid				54								330	---
TOTAL PAHs	2589	0	59	22427	16074			0	0		46360		100000
TOTAL CaPAHs	1067	0	0	9790	7236			0	0		18700		10000
TOTAL SVOCs	2675	51	169	23072	16593			40	61		47636		500000

NOTES
 U: Compound analyzed for but not detected.
 B: Compound detected in method blank as well as sample, value estimated.
 J: Compound concentration is less than the CRDL but greater than the IDL.
 --- : Not established.
 MDL: Method Detection Limit.
 : Value exceeds the NYSDEC TAGM 4046 Appendix A criteria.

TABLE B-2 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	FORMER RUNWAY TURNAROUND				FORMER RUN-UP AREA THRUST DEFLECTOR				CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-14 1' - 2' 11/13/96	L2-14 2' - 4' 11/13/96	L2-14 4' - 6' 11/13/96	L2-15 0 - 1' 11/15/96	L2-15 1' - 2' 11/15/96	L2-15 2' - 4' 11/15/96	L2-15 4' - 6' 11/15/96	L2-15 6' - 8' 11/15/96		
Phenol	U	U	U	U	U	U	U	U	330	30 or MDL
bis(2-Chloroethoxy)ether	U	U	U	U	U	U	U	U	330	800
2-Chlorophenol	U	U	U	U	U	U	U	U	330	1600
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	330	8500
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	330	7900
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	330	100 or MDL
2-Methylphenol	U	U	U	U	U	U	U	U	330	900
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	U	330	---
4-Methylphenol	U	U	U	U	U	U	U	U	330	---
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	330	---
Hexachloroethane	U	U	U	U	U	U	U	U	330	200 or MDL
Nitrobenzene	U	U	U	U	U	U	U	U	330	4400
Isophorone	U	U	U	U	U	U	U	U	330	330 or MDL
2-Nitrophenol	U	U	U	U	U	U	U	U	330	---
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	330	---
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	U	330	400
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	330	3400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	330	13000
Naphthalene	8	U	U	120	17	U	U	U	330	220 or MDL
4-Chloroaniline	U	U	U	U	U	U	U	U	330	---
Hexachlorobutadiene	U	U	U	U	U	U	U	U	330	240 or MDL
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	330	36400
2-Methylnaphthalene	U	U	U	50	22	U	U	U	330	---
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	330	100
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	800	---
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	330	---
2-Chloronaphthalene	U	U	U	U	U	U	U	U	330	430 or MDL
2-Nitroaniline	U	U	U	U	U	U	U	U	800	2000
Dimethylphthalate	U	U	U	U	U	U	U	U	330	41000
Acenaphthylene	31	U	U	17	11	U	U	U	330	1000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	800	500 or MDL
3-Nitroaniline	U	U	U	U	U	U	U	U	330	50000
Acenaphthene	30	U	U	120	U	U	U	U	330	200 or MDL
2,4-Dinitrophenol	U	U	11	U	U	U	U	U	800	100 or MDL
4-Nitrophenol	U	U	U	U	U	U	U	U	800	---

TABLE B-2 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	FORMER RUNWAY TURNAROUND				FORMER RUN-UP AREA THRUST DEFLECTOR				CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)	
	L2-14 1'-2'	L2-14 2'-4'	L2-14 4'-6'	L2-14 11/13/96	L2-15 0-1'	L2-15 1'-2'	L2-15 2'-4'	L2-15 4'-6'			L2-15 6'-8'
SAMPLE DEPTH	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	
DATE OF COLLECTION	11/13/96	11/13/96	11/13/96	11/13/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1	
PERCENT SOLIDS	90	93	96	96	45	89	83	97	97	97	
Dibenzofuran	10	11	8	J	62	J	U	U	U	330	6200
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	U	330	---
Diethylphthalate	U	14	9	JB	15	U	U	7	7	330	7100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	U	U	330	---
Fluorene	22	23	20	J	81	J	U	U	U	330	50000
4-Nitroaniline	U	U	U	U	U	U	U	U	U	800	---
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	330	---
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	330	---
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	U	U	330	---
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	330	410
Pentachlorophenol	U	U	U	U	U	U	U	U	U	330	100 or MDL
Phenanthrene	270	230	120	J	640	J	U	U	U	800	50000
Anthracene	68	53	25	J	140	J	U	U	U	330	50000
Carbazole	16	15	12	JB	19	JB	U	U	U	330	---
Di-n-butylphthalate	550	350	100	J	790	J	U	U	U	330	8100
Fluoranthene	250	180	76	J	460	J	U	U	U	330	50000
Pyrene	U	U	U	U	U	U	U	U	U	330	50000
Butylbenzylphthalate	U	U	U	U	U	U	U	U	U	330	---
3,3'-Dichlorobenzidine	220	140	46	J	410	J	U	U	U	330	224 or MDL
Benzo(a)anthracene	250	170	58	J	460	J	U	U	U	330	400
Chrysene	70	52	79	JB	91	JB	U	U	U	330	50000
bis(2-Ethylhexyl)phthalate	U	U	U	U	U	U	U	U	U	330	50000
Di-n-octylphthalate	290	170	30	J	550	J	U	U	U	330	50000
Benzo(b)fluoranthene	200	140	26	J	410	J	U	U	U	330	1100
Benzo(k)fluoranthene	200	140	25	J	420	J	U	U	U	330	61 or MDL
Benzo(a)pyrene	38	32	25	J	77	J	U	U	U	330	3200
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	U	U	U	U	330	14 or MDL
Dibenzo(a,h)anthracene	32	34	U	U	65	J	U	U	U	330	50000
Benzo(g,h,i)perylene	U	U	U	U	U	U	U	U	U	330	---
Benzoic Acid	U	U	U	U	U	U	U	U	U	330	---
TOTAL PAHs	2459	1679	537	537	4789	489	0	0	0	100000	100000
TOTAL C ₁₀ PAHs	1198	772	185	185	2356	250	0	0	0	10000	10000
TOTAL SVOCs	2555	1779	645	645	5026	543	83	855	62	500000	500000

NOTES
 U: Compound analyzed for but not detected.
 B: Compound detected in method blank as well as sample, value estimated.
 J: Compound concentration is less than the CRDL but greater than the IDL.
 ---: Not established.
 MDL: Method Detection Limit.
 [Pattern]: Value exceeds the NYSDEC TAGM 4046 Appendix A criteria.

TABLE B-2 (continued)
 NORTHRUP GRUJMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	FORMER RUN-UP AREA THRUSTR DEFLECTOR										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)	
	L2-16 0 - 1' 11/15/96	L2-16 2 - 4' 11/15/96	L2-16 4 - 6' 11/15/96	L2-16 6 - 8' 11/15/96	L2-17 0 - 1' 11/15/96	L2-17 1 - 2' 11/15/96	L2-17 2' - 4' 11/15/96	L2-17 1 11/15/96	L2-17 1 11/15/96	L2-17 85 11/15/96			L2-17 93 11/15/96
Phenol	U	U	U	U	U	U	U	U	U	U	U	330	30 or MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	U	U	U	U	330	800
2-Chlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	1600
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	8500
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	7900
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	100 or MDL
2-Methylphenol	U	U	U	U	U	U	U	U	U	U	U	330	900
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	U	U	U	U	330	---
4-Methylphenol	U	U	U	U	U	U	U	U	U	U	U	330	---
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	U	U	U	330	---
Hexachloroethane	U	U	U	U	U	U	U	U	U	U	U	330	200 or MDL
Nitrobenzene	U	U	U	U	U	U	U	U	U	U	U	330	4400
Isophorone	U	U	U	U	U	U	U	U	U	U	U	330	330 or MDL
2-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U	330	---
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	U	U	U	330	---
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	U	U	U	U	330	400
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	3400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	13000
Naphthalene	U	U	U	U	U	U	U	U	U	U	U	330	220 or MDL
4-Chloroaniline	U	U	U	U	U	U	U	U	U	U	U	330	---
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	U	U	330	240 or MDL
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	U	U	U	330	36400
2-Methylnaphthalene	U	U	U	U	U	U	U	U	U	U	U	330	---
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	U	U	U	330	---
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	100
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	---
2-Chloronaphthalene	U	U	U	U	U	U	U	U	U	U	U	330	430 or MDL
2-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	330	2000
Dimethylphthalate	U	U	U	U	U	U	U	U	U	U	U	330	41000
Acenaphthylene	U	U	U	U	U	U	U	U	U	U	U	330	1000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	U	330	500 or MDL
3-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	330	50000
Acenaphthene	U	U	U	U	U	U	U	U	U	U	U	330	200 or MDL
2,4-Dinitrophenol	U	U	U	U	U	U	U	U	U	U	U	330	100 or MDL
4-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U	330	---

TABLE B-2 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	FORMER RUN-UP AREA THRUST DEFLECTOR										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-16 0-1' 11/15/96	L2-16 1'-2' 11/15/96	L2-16 2'-4' 11/15/96	L2-16 4'-6' 11/15/96	L2-16 6'-8' 11/15/96	L2-17 0-1' 11/15/96	L2-17 1'-2' 11/15/96	L2-17 2'-4' 11/15/96	L2-17 85 (ug/kg)	L2-17 93 (ug/kg)		
SAMPLE IDENTITY	12	22	8	98	94	81	85	93				
SAMPLE DEPTH	0-1'	1'-2'	2'-4'	4'-6'	6'-8'	0-1'	1'-2'	2'-4'				
DATE OF COLLECTION	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96				
DILUTION FACTOR	1	1	1	1	1	1	1	1				
PERCENT SOLIDS	80	89	96	98	94	81	85	93				
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)				
Dibenzofuran	J	J	J	U	U	U	U	U	U	U	U	6200
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	U	---
Diethylphthalate	U	9 JB	U	10 JB	U	U	U	U	8 JB	U	9 JB	7100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	U	---
Fluorene	13 J	45 J	U	U	U	U	U	U	U	U	U	50000
4-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	---
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	U	U	---
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	U	U	---
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	U	---
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	U	U	410
Pentachlorophenol	U	U	U	U	U	U	U	U	U	U	U	100 or MDL
Phenanthrene	210 J	780 J	U	U	U	U	U	U	U	U	U	50000
Anthracene	42 J	220 J	U	U	U	U	U	U	10 J	17 J	U	50000
Carbazole	U	U	U	U	U	U	U	U	U	U	U	---
Di-n-butylphthalate	17 JB	19 JB	12 JB	7 JB	7 JB	13 JB	11 JB	10 JB	11 JB	U	U	8100
Fluoranthene	400 J	1700 J	U	U	U	140 J	120 J	U	120 J	U	U	50000
Pyrene	240 J	1000 J	U	U	U	110 J	71 J	U	71 J	U	U	50000
Butylbenzylphthalate	U	U	U	U	U	U	U	U	U	U	U	50000
3,3'-Dichlorobenzidine	180 J	710 J	U	U	U	U	U	U	61 J	U	U	224 or MDL
Benzo(a)anthracene	200 J	330 J	U	U	U	94 J	76 J	U	76 J	U	U	400
Chrysene	49 JB	29 JB	36 JB	42 JB	70 JB	51 JB	78 JB	35 JB	78 JB	U	U	50000
bis(2-Ethylhexyl)phthalate	U	U	U	U	U	U	U	U	U	U	U	50000
Di-n-octylphthalate	200 J	790 J	U	U	U	93 J	96 J	U	96 J	U	U	1100
Benzo(b)fluoranthene	190 J	780 J	U	U	U	82 J	66 J	U	66 J	U	U	1100
Benzo(k)fluoranthene	170 J	530 J	U	U	U	83 J	53 J	U	53 J	U	U	61 or MDL
Benzo(a)pyrene	50 J	170 J	U	U	U	27 J	14 J	U	14 J	U	U	3200
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	U	U	U	U	U	U	14 or MDL
Dibenzo(a,h)anthracene	U	U	U	U	U	24 J	U	U	U	U	U	50000
Benzo(g,h,i)perylene	U	160 J	U	U	U	50 J	U	U	U	U	U	---
Benzoic Acid	U	U	U	U	U	U	U	U	U	U	U	---
TOTAL PAHs	1936	7964	0	0	0	803	673	0	673	0	0	100000
TOTAL CaPAHs	990	3926	0	0	0	451	382	0	382	0	0	10000
TOTAL SVOCs	2036	8054	56	59	77	941	770	54	770	54	54	50000

NOTES
 U: Compound analyzed for but not detected.
 B: Compound detected in method blank as well as sample, value estimated.
 J: Compound concentration is less than the CRDL but greater than the IDL.
 ---: Not established.
 MDL: Method Detection Limit.
 [Shaded Box]: Value exceeds the NYSDEC TAGM 4046 Appendix A criteria.

TABLE B-2 (continued)
 NORTHRUP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION SAMPLE IDENTIFICATION SAMPLE DEPTH DATE OF COLLECTION DILUTION FACTOR PERCENT SOLIDS UNITS	FORMER RUN-UP AREA THRUST DEFLECTOR										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)	
	L2-17 4'-6' 11/15/96 1 97	L2-17 6'-8' 11/15/96 1 96	L2-18 0-1' 11/15/96 1 81	L2-18 1'-2' 11/15/96 1 80	L2-18 2'-4' 11/15/96 1 87	L2-18 4'-6' 11/15/96 1 97	L2-18 6'-8' 11/15/96 1 94	DWL2-1 0-2' 11/18/96 10 65					
Phenol	U	U	U	U	U	U	U	U	U	U	U	330	30 or MDL
bis(2-Chloroethoxy)ether	U	U	U	U	U	U	U	U	U	U	U	330	—
2-Chlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	1600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	8500
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	7900
2-Methylphenol	U	U	U	U	U	U	U	U	U	U	U	330	100 or MDL
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	U	U	U	U	330	—
4-Methylphenol	U	U	U	U	U	U	U	U	U	U	U	330	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	U	U	U	330	—
Hexachloroethane	U	U	U	U	U	U	U	U	U	U	U	330	—
Nitrobenzene	U	U	U	U	U	U	U	U	U	U	U	330	—
Isophorone	U	U	U	U	U	U	U	U	U	U	U	330	200 or MDL
2-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U	330	4400
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	U	U	U	330	330 or MDL
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	U	U	U	U	330	—
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	—
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	400
Naphthalene	U	U	U	U	U	U	U	U	U	U	U	330	3400
4-Chloroaniline	U	U	130	U	U	U	U	U	U	U	U	330	13000
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	U	U	330	220 or MDL
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	U	U	U	330	—
2-Methylnaphthalene	U	U	U	U	U	U	U	U	U	U	U	330	240 or MDL
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	U	U	U	330	36400
2,4,6-Trichlorophenol	U	U	71	U	U	U	U	U	U	U	U	330	—
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	—
2-Chloronaphthalene	U	U	U	U	U	U	U	U	U	U	U	330	100
2-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	330	—
Dimethylphthalate	U	U	U	U	U	U	U	U	U	U	U	330	430 or MDL
Acenaphthylene	U	U	U	U	U	U	U	U	U	U	U	330	2000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	U	330	41000
3-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	330	1000
Acenaphthene	U	U	U	U	U	U	U	U	U	U	U	330	500 or MDL
2,4-Dinitrophenol	U	U	480	U	U	U	U	U	U	U	U	330	200 or MDL
4-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U	330	100 or MDL

TABLE B-2 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	FORMER RUN-UP AREA THRUST DEFLECTOR						CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	L2-17 4'-6" 11/15/96 1	L2-17 6'-8" 11/15/96 1	L2-18 0-1' 11/15/96 1	L2-18 1'-2' 11/15/96 1	L2-18 2'-4' 11/15/96 1	L2-18 4'-6" 11/15/96 1		
Dibenzofuran	U	U	180	J	U	U	330	6200
2,4-Dinitrotoluene	U	U	U	U	U	U	330	---
Diethylphthalate	10	8	9	JB	10	9	330	7100
4-Chlorophenyl-phenylether	U	U	330	J	U	U	330	50000
Fluorene	U	U	U	U	U	U	330	---
4-Nitroaniline	U	U	U	U	U	U	800	---
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	330	---
N-Nitrosodiphenylamine	U	U	U	U	U	U	330	---
4-Bromophenyl-phenylether	U	U	U	U	U	U	330	---
Hexachlorobenzene	U	U	U	U	U	U	330	410
Pentachlorophenol	U	U	U	U	U	U	330	100 or MDL
Phenanthrene	U	U	1900	J	51	U	330	50000
Anthracene	U	U	570	J	10	U	330	50000
Carbazole	U	U	U	U	U	U	330	---
Di-n-butylphthalate	12	12	14	JB	14	10	330	8100
Fluoranthene	U	U	1800	J	83	U	330	50000
Pyrene	U	U	1700	J	71	U	330	50000
Butylbenzylphthalate	U	U	U	U	U	U	330	---
3,3'-Dichlorobenzidine	U	U	U	U	U	U	330	---
Benzo(a)anthracene	U	U	1100	J	46	U	330	224 or MDL
Chrysene	U	U	1200	J	60	U	330	400
bis(2-Ethylhexyl)phthalate	U	U	U	U	U	U	330	50000
Di-n-octylphthalate	61	48	77	JB	52	60	330	50000
Benzo(b)fluoranthene	U	U	820	J	43	U	330	1100
Benzo(k)fluoranthene	U	U	780	J	48	U	330	1100
Benzo(a)pyrene	U	U	800	J	47	U	330	61 or MDL
Indeno(1,2,3-cd)pyrene	U	U	340	J	22	U	330	3200
Dibenzo(a,h)anthracene	U	U	260	J	U	U	330	14 or MDL
Benzo(g,h,i)perylene	U	U	U	U	U	U	330	50000
Benzoic Acid	U	U	U	U	26	U	330	---
TOTAL PAHs	0	0	12390	481	0	0	21504	100000
TOTAL CaPAHs	0	0	5220	266	0	0	10000	10000
TOTAL SVOCs	83	68	12741	583	67	79	36534	500000

NOTES
 U: Compound analyzed for but not detected.
 B: Compound detected in method blank as well as sample, value estimated.
 J: Compound concentration is less than the CRDL but greater than the IDL.
 ---: Not established.
 MDL: Method Detection Limit.
 [shaded box]: Value exceeds the NYSDEC TAGM 4046 Appendix A criteria.

TABLE B-2 (continued)
 NORTHRUP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	DRY WELL SOIL/SEDIMENT SAMPLING										CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)	
	DWL2-1 2' - 4' 11/18/96 1	DWL2-2 0 - 2' 11/18/96 1	DWL2-2 2' - 4' 11/18/96 1	DWL2-2 0 - 2' 11/18/96 1	DWL2-3 2' - 4' 11/18/96 1	DWL2-3 0 - 2' 11/18/96 1	DWL2-3 2' - 4' 11/18/96 1	DWL2-4 0 - 2' 11/18/96 1	DWL2-4 2' - 4' 11/18/96 1	DWL2-4 2' - 4' 11/18/96 1			FB-1 -- 11/13/96 1
PERCENT SOLIDS	(ug/kg)										(ug/kg)	(ug/kg)	
UNITS	(ug/kg)										(ug/L)	(ug/kg)	
Phenol	U	U	U	U	U	U	U	U	U	U	U	330	30 or MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	U	U	U	U	330	---
2-Chlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	1600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	8500
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	7900
2-Methylphenol	U	U	U	U	U	U	U	U	U	U	U	330	100 or MDL
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	U	U	U	U	330	---
4-Methylphenol	U	U	U	U	U	U	U	U	U	U	U	330	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	U	U	U	330	---
Hexachloroethane	U	U	U	U	U	U	U	U	U	U	U	330	---
Nitrobenzene	U	U	U	U	U	U	U	U	U	U	U	330	---
Isophorone	U	U	U	U	U	U	U	U	U	U	U	330	200 or MDL
2-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U	330	4400
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	U	U	U	330	330 or MDL
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	U	U	U	U	330	---
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	---
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	330	---
Naphthalene	U	U	U	U	U	U	U	U	U	U	U	330	---
4-Chloroaniline	U	U	U	U	U	U	U	U	U	U	U	330	400
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	U	U	330	3400
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	U	U	U	330	13000
2-Methylnaphthalene	U	U	U	U	U	U	U	U	U	U	U	330	220 or MDL
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	U	U	U	330	---
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	240 or MDL
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	U	330	36400
2-Chloronaphthalene	U	U	U	U	U	U	U	U	U	U	U	330	---
2-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	330	100
Dimethylphthalate	U	U	U	U	U	U	U	U	U	U	U	330	---
Acenaphthylene	U	U	U	U	U	U	U	U	U	U	U	330	430 or MDL
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	U	330	2000
3-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	330	41000
Acenaphthene	U	U	U	U	U	U	U	U	U	U	U	330	1000
2,4-Dinitrophenol	U	U	U	U	U	U	U	U	U	U	U	330	500 or MDL
4-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U	330	50000
	U	U	U	U	U	U	U	U	U	U	U	800	200 or MDL
	U	U	U	U	U	U	U	U	U	U	U	800	100 or MDL

TABLE B-2 (continued)
 NORTHRUP GRUINMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	DRY WELL SOIL/SEDIMENT SAMPLING										FB-1 (ug/L)	CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	DWL2-1 2' - 4' 11/18/96 1	DWL2-2 0 - 2' 11/18/96 1	DWL2-2 2' - 4' 11/18/96 1	DWL2-2 0 - 2' 11/18/96 1	DWL2-3 0 - 2' 11/18/96 1	DWL2-3 2' - 4' 11/18/96 1	DWL2-4 0 - 2' 11/18/96 1	DWL2-4 2' - 4' 11/18/96 1	DWL2-4 0 - 2' 11/18/96 1	DWL2-4 2' - 4' 11/18/96 1			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/L)	(ug/kg)	(ug/kg)
Dibenzofuran	U	U	U	15	J	U	U	U	U	U	NA	U	6200
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	U	U	330
Diethylphthalate	8 JB	U	U	U	U	U	U	U	U	U	U	U	330
4-Chlorophenyl-phenylether	U	9 JB	U	U	U	U	U	U	U	U	U	U	330
Fluorene	U	U	U	32	U	U	U	U	U	U	U	U	330
4-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	U	800
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	U	U	U	800
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	U	U	U	330
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	U	U	330
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	330
Pentachlorophenol	U	U	U	U	U	U	U	U	U	U	U	U	330
Phenanthrene	U	U	U	U	U	U	U	U	U	U	U	U	330
Anthracene	U	U	U	U	U	U	U	U	U	U	U	U	330
Carbazole	U	U	U	U	U	U	U	U	U	U	U	U	330
Di-n-butylphthalate	8 JB	10 JB	11 JB	23 JB	8 JB	U	U	U	U	U	U	U	330
Fluoranthene	U	U	U	420	U	U	U	U	U	U	U	U	330
Pyrene	U	U	U	240	J	U	U	U	U	U	U	U	330
Butylbenzylphthalate	U	U	U	32	J	U	U	U	U	U	U	U	330
3,3'-Dichlorobenzidine	U	U	U	150	J	U	U	U	U	U	U	U	330
Benzo(a)anthracene	U	U	U	30	J	U	U	U	U	U	U	U	330
Chrysene	U	U	U	270	J	U	U	U	U	U	U	U	330
bis(2-Ethylhexyl)phthalate	U	U	U	130 JB	U	U	U	U	U	U	U	U	330
Di-n-octylphthalate	71 JB	73 JB	71 JB	160 JB	U	U	U	U	U	U	2	U	330
Benzo(b)fluoranthene	U	U	U	U	U	U	U	U	U	U	U	U	330
Benzo(k)fluoranthene	U	U	U	U	U	U	U	U	U	U	U	U	330
Benzo(a)pyrene	U	U	U	U	U	U	U	U	U	U	U	U	330
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	U	U	U	U	U	U	U	330
Dibenzo(a,h)anthracene	U	U	U	U	U	U	U	U	U	U	U	U	330
Benzo(g,h,i)perylene	U	U	U	U	U	U	U	U	U	U	U	U	330
Benzoic Acid	U	U	U	26	J	U	U	U	U	U	U	U	330
TOTAL PAHs	0	0	0	2109	0	0	0	27	0	0	0	0	100000
TOTAL CaPAHs	0	0	0	1040	0	0	0	0	0	0	0	0	10000
TOTAL SVOCs	87	92	82	2548	175	140	107	2	2	2	2	2	500000

NOTES
 - : Not applicable.
 --- : Not established.
 NA : Information not available.
 MDL : Method Detection Limit.
 [Pattern] : Value exceeds the NYSDEC TAGM 4046 Appendix A criteria.

QUALIFIERS
 U: Compound analyzed for but not detected.
 B: Compound detected in method blank as well as sample, value estimated.
 J: Compound concentration is less than the CRDL but greater than the IDL.

TABLE B-2 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	FIELD BLANKS			CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	FB-2	FB-3	FB-4		
SAMPLE IDENTIFICATION					
SAMPLE DEPTH					
DATE OF COLLECTION	11/13/96	11/15/96	11/15/96		
DILUTION FACTOR	1	1	1		
PERCENT SOLIDS	NA	NA	NA		
UNITS	(ug/L)	(ug/L)	(ug/L)		
Phenol	U	U	U	330	30 or MDL
bis(2-Chloroethyl)ether	U	U	U	330	---
2-Chlorophenol	U	U	U	330	800
1,3-Dichlorobenzene	U	U	U	330	1600
1,4-Dichlorobenzene	U	U	U	330	8500
1,2-Dichlorobenzene	U	U	U	330	7900
2-Methylphenol	U	U	U	330	100 or MDL
2,2'-oxybis(1-Chloropropane)	U	U	U	330	---
4-Methylphenol	U	U	U	330	900
N-Nitroso-di-n-propylamine	U	U	U	330	---
Hexachloroethane	U	U	U	330	---
Nitrobenzene	U	U	U	330	200 or MDL
Isophorone	U	U	U	330	4400
2-Nitrophenol	U	U	U	330	330 or MDL
2,4-Dimethylphenol	U	U	U	330	---
bis(2-Chloroethoxy)methane	U	U	U	330	---
2,4-Dichlorophenol	U	U	U	330	400
1,2,4-Trichlorobenzene	U	U	U	330	3400
Naphthalene	U	U	U	330	13000
4-Chloroaniline	U	U	U	330	220 or MDL
Hexachlorobutadiene	U	U	U	330	---
4-Chloro-3-methylphenol	U	U	U	330	240 or MDL
2-Methylnaphthalene	U	U	U	330	36400
Hexachlorocyclopentadiene	U	U	U	330	---
2,4,6-Trichlorophenol	U	U	U	330	100
2,4,5-Trichlorophenol	U	U	U	330	---
2-Chloronaphthalene	U	U	U	330	430 or MDL
2-Nitroaniline	U	U	U	330	2000
Dimethylphthalate	U	U	U	330	41000
Acenaphthylene	U	U	U	330	1000
2,6-Dinitrotoluene	U	U	U	330	500 or MDL
3-Nitroaniline	U	U	U	330	50000
Acenaphthene	U	U	U	330	200 or MDL
2,4-Dinitrophenol	U	U	U	800	100 or MDL
4-Nitrophenol	U	U	U	800	---

TABLE B-2 (continued)
 NORTROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	FIELD BLANKS			FB-4	CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg)
	FB-2	FB-3	FB-4			
SAMPLE DEPTH	---			---	---	---
DATE OF COLLECTION	11/13/96	11/15/96	11/15/96	---	---	---
DILUTION FACTOR	1	1	1	1	---	---
PERCENT SOLIDS	NA	NA	NA	NA	---	---
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/kg)	(ug/kg)
Dibenzofuran	U	U	U	U	330	6200
2,4-Dinitrotoluene	U	U	U	U	330	---
Diethylphthalate	U	U	U	U	330	7100
4-Chlorophenyl-phenylether	U	U	U	U	330	---
Fluorene	U	U	U	U	330	50000
4-Nitroaniline	U	U	U	U	800	---
4,6-Dinitro-2-methylphenol	U	U	U	U	800	---
N-Nitrosodiphenylamine	U	U	U	U	330	---
4-Bromophenyl-phenylether	U	U	U	U	330	410
Hexachlorobenzene	U	U	U	U	800	100 or MDL
Pentachlorophenol	U	U	U	U	330	50000
Phenanthrene	U	U	U	U	330	50000
Anthracene	U	U	U	U	330	---
Carbazole	U	U	U	U	330	8100
Di-n-butylphthalate	U	U	U	0.6	330	50000
Fluoranthene	U	U	U	U	330	50000
Pyrene	U	U	U	U	330	50000
Butylbenzylphthalate	U	U	U	U	330	50000
3,3'-Dichlorobenzidine	U	U	U	U	330	50000
Benzo(a)anthracene	U	U	U	U	330	50000
Chrysene	U	U	U	U	330	50000
bis(2-Ethylhexyl)phthalate	U	U	U	U	330	224 or MDL
Di-n-octylphthalate	U	U	U	U	330	400
Benzo(b)fluoranthene	U	U	U	U	330	50000
Benzo(k)fluoranthene	U	U	U	U	330	50000
Benzo(a)pyrene	U	U	U	U	330	1100
Indeno(1,2,3-cd)pyrene	U	U	U	U	330	61 or MDL
Dibenzo(a,h)anthracene	U	U	U	U	330	3200
Benzo(g,h,i)perylene	U	U	U	U	330	14 or MDL
Benzoic Acid	U	U	U	U	330	50000
TOTAL PAHs	0	0	0	0	---	100000
TOTAL CaPAHs	0	0	0	0	---	10000
TOTAL SVOCs	0	2	0.6	0.6	---	500000

NOTES
 -- : Not applicable.
 --- : Not established.
 NA : Information not available.
 MDL : Method Detection Limit.

QUALIFIERS
 U: Compound analyzed for but not detected.
 B: Compound detected in method blank as well as sample, value estimated.
 J: Compound concentration is less than the CRDL but greater than the IDL.

TABLE B-3
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

SAMPLE LOCATION	AREA ADJACENT TO FORMER THRUST DEFLECTOR ON NORTH RUNWAY - PARCEL L1									
	L2-1	L2-1	L2-1	L2-1	L2-1	L2-1	L2-1	L2-1	L2-2	L2-2
SAMPLE IDENTIFICATION	L2-1	L2-1	L2-1	L2-1	L2-1	L2-1	L2-1	L2-1	L2-2	L2-2
SAMPLE DEPTH	0 - 1'	1' - 2'	2' - 4'	4' - 6'	6' - 8'	0 - 1'	1' - 2'	1' - 2'	1' - 2'	2' - 4'
DATE OF COLLECTION	11/13/96	11/13/96	11/13/96	11/13/96	11/13/96	11/13/96	11/13/96	11/13/96	11/13/96	11/13/96
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
PERCENT SOLIDS	85.3	88.0	88.4	94.2	94.7	85.4	91.9	91.9	84.8	84.8
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Total Petroleum Hydrocarbons	45.1	16.8	U	U	U	26.6	U	U	16.6	U
Gasoline	U	U	N/A	N/A	N/A	U	N/A	N/A	N/A	U
Kerosene	U	U	N/A	N/A	N/A	U	N/A	N/A	N/A	U
Diesel	U	U	N/A	N/A	N/A	U	N/A	N/A	N/A	U
Residual Oil	U	U	N/A	N/A	N/A	U	N/A	N/A	N/A	U
#2 Fuel Oil	U	U	N/A	N/A	N/A	U	N/A	N/A	N/A	U
#4 Fuel Oil	U	U	N/A	N/A	N/A	U	N/A	N/A	N/A	U
#6 Fuel Oil	U	U	N/A	N/A	N/A	U	N/A	N/A	N/A	U

QUALIFIERS
 U: Compound analyzed for but not detected.
 N/A: Compound not analyzed for.

TABLE B-3 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

SAMPLE LOCATION	AREA ADJACENT TO FORMER THRUST DEFLECTOR ON NORTH RUNWAY - PARCEL L1									
	L2-2 4' - 6' 11/13/96	L2-2 6' - 8' 11/13/96	L2-3 0 - 1' 11/13/96	L2-3 1' - 2' 11/13/96	L2-3 2' - 4' 11/13/96	L2-3 4' - 6' 11/13/96	L2-3 6' - 8' 11/13/96	L2-4 0 - 1' 11/15/96		
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
PERCENT SOLIDS	70.5	85.5	81.8	88.4	87.3	81.9	87.1	87		
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		
Total Petroleum Hydrocarbons	U	19.0	53.2	17.6	U	27.7	41.8	8,700		
Gasoline	N/A	U	U	U	U	N/A	U	U		
Kerosene	N/A	U	U	U	U	N/A	U	U		
Diesel	N/A	U	U	U	U	N/A	U	U		
Residual Oil	N/A	U	U	U	U	N/A	U	U		
#2 Fuel Oil	N/A	U	U	U	U	N/A	U	U		
#4 Fuel Oil	N/A	U	U	U	U	N/A	U	U		
#6 Fuel Oil	N/A	U	U	U	U	N/A	U	U		

QUALIFIERS
 U: Compound analyzed for but not detected.
 N/A: Compound not analyzed for.

TABLE B-3 (continued)
 NORTROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2										
	L2-4 1' - 2' 11/15/96 1.1	L2-4 2' - 4' 11/15/96 1.1	L2-4 4' - 6' 11/15/96 1.1	L2-5 0 - 1' 11/15/96 1.2	L2-5 1' - 2' 11/15/96 1.3	L2-5 2' - 4' 11/15/96 NA	L2-5 4' - 6' 11/15/96 1.1	L2-6 0 - 1' 11/15/96 1.2	L2-5 (mg/kg)	L2-5 (mg/kg)	L2-6 (mg/kg)
PERCENT SOLIDS	89	90	90	85	80	NA	83	90			
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)			
Total Petroleum Hydrocarbons	210	200	1,700	280	92	U	23	120			
Gasoline	U	U	U	U	U	U	U	U	U	U	U
Kerosene	U	U	U	U	U	U	U	U	U	U	U
Diesel	U	U	U	U	U	U	U	U	U	U	U
Residual Oil	U	U	U	U	U	U	U	U	U	U	U
#2 Fuel Oil	U	U	U	U	U	U	U	U	U	U	U
#4 Fuel Oil	U	U	U	U	U	U	U	U	U	U	U
#6 Fuel Oil	U	U	U	U	U	U	U	U	U	U	U

NOTES
 NA : Information not available.

QUALIFIERS
 U: Compound analyzed for but not detected.
 N/A: Compound not analyzed for.

TABLE B-3 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2							
	L2-6 1' - 2' 11/15/96	L2-6 2' - 4' 11/15/96	L2-6 4' - 6' 11/15/96	L2-7 0 - 1' 11/15/96	L2-7 1' - 2' 11/15/96	L2-7 2' - 4' 11/15/96	L2-7 4' - 6' 11/15/96	L2-8 0 - 1' 11/13/96
DILUTION FACTOR	1.2	1.2	NA	1.1	NA	NA	NA	1
PERCENT SOLIDS	85	85	NA	90	NA	NA	NA	92.7
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Total Petroleum Hydrocarbons	58	U	U	130	U	U	U	460
Gasoline	U	N/A	N/A	U	N/A	N/A	N/A	U
Kerosene	U	N/A	N/A	U	N/A	N/A	N/A	U
Diesel	U	N/A	N/A	U	N/A	N/A	N/A	U
Residual Oil	U	N/A	N/A	U	N/A	N/A	N/A	U
#2 Fuel Oil	U	N/A	N/A	U	N/A	N/A	N/A	U
#4 Fuel Oil	U	N/A	N/A	U	N/A	N/A	N/A	U
#6 Fuel Oil	U	N/A	N/A	U	N/A	N/A	N/A	U

QUALIFIERS

U: Compound analyzed for but not detected.
 N/A: Compound not analyzed for.

NOTES

NA : Information not available.

TABLE B-3 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2									
	L2-8 1' - 2' 11/13/96	L2-8 2' - 4' 11/13/96	L2-8 4' - 6' 11/13/96	L2-9 0 - 1' 11/13/96	L2-9 1' - 2' 11/13/96	L2-9 2' - 4' 11/13/96	L2-9 4' - 6' 11/13/96	L2-9 1 94.1 (mg/kg)	L2-10 0 - 1' 11/14/96	L2-10 1.3 75 (mg/kg)
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
PERCENT SOLIDS	94.3	93.4	90.4	90.8	83.2	96.9	96.9	96.9	96.9	96.9
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Total Petroleum Hydrocarbons	145	78.3	38.6	169	63.7	433	16.6	305		
Gasoline	U	U	U	U	U	U	U	U	U	U
Kerosene	U	U	U	U	U	U	U	U	U	U
Diesel	U	U	U	U	U	U	U	U	U	U
Residual Oil	U	U	U	U	U	U	U	U	U	U
#2 Fuel Oil	U	U	U	U	U	U	U	U	U	U
#4 Fuel Oil	U	U	U	U	U	U	U	U	U	U
#6 Fuel Oil	U	U	U	U	U	U	U	U	U	U

QUALIFIERS

U: Compound analyzed for but not detected.

TABLE B-3 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2									
	L2-10 1' - 2' 11/14/96	L2-10 2' - 4' 11/14/96	L2-10 4' - 6' 11/14/96	L2-10 NA NA	L2-11 0 - 1' 11/14/96	L2-11 1' - 2' 11/14/96	L2-11 2' - 4' 11/14/96	L2-11 4' - 6' 11/14/96	L2-11 11/14/96	L2-12 0 - 1' 11/13/96
DILUTION FACTOR	1.3	NA	NA	1.1	1.1	1.1	NA	1.1	1.1	1
PERCENT SOLIDS	78	NA	NA	94	95	95	NA	87	87	88.4
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Total Petroleum Hydrocarbons	19.2	U	U	U	129	86.0	U	147	352	
Gasoline	U	N/A	N/A	N/A	U	U	U	U	U	U
Kerosene	U	N/A	N/A	N/A	U	U	U	U	U	U
Diesel	U	N/A	N/A	N/A	U	U	U	U	U	U
Residual Oil	U	N/A	N/A	N/A	U	U	U	U	U	U
#2 Fuel Oil	U	N/A	N/A	N/A	U	U	U	U	U	U
#4 Fuel Oil	U	N/A	N/A	N/A	U	U	U	U	U	U
#6 Fuel Oil	U	N/A	N/A	N/A	U	U	U	U	U	U

QUALIFIERS

U: Compound analyzed for but not detected.
 N/A: Compound not analyzed for.

NOTES

NA : Information not available.

TABLE B-3 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

SAMPLE LOCATION	FORMER RUNWAY TURNAROUND									
	L2-12 1'-2' 11/13/96	L2-12 2'-4' 11/13/96	L2-12 4'-6' 11/13/96	L2-13 0-1' 11/13/96	L2-13 1'-2' 11/13/96	L2-13 2'-4' 11/13/96	L2-13 4'-6' 11/13/96	L2-13 1 11/13/96	L2-13 1 11/13/96	L2-14 0-1' 11/13/96
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
PERCENT SOLIDS	77.6	97.4	95.0	87.2	83.6	84.3	95.9	79.3		
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Total Petroleum Hydrocarbons	78.5	U	U	407	477	U	16.3	478	U	U
Gasoline	U	N/A	N/A	U	U	U	U	U	U	U
Kerosene	U	N/A	N/A	U	U	U	U	U	U	U
Diesel	U	N/A	N/A	U	U	U	U	U	U	U
Residual Oil	U	N/A	N/A	U	U	U	U	U	U	U
#2 Fuel Oil	U	N/A	N/A	U	U	U	U	U	U	U
#4 Fuel Oil	U	N/A	N/A	U	U	U	U	U	U	U
#6 Fuel Oil	U	N/A	N/A	U	U	U	U	U	U	U

QUALIFIERS

U: Compound analyzed for but not detected.

N/A: Compound not analyzed for.

TABLE B-3 (continued)
 NORTROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

SAMPLE LOCATION	FORMER RUNWAY TURNAROUND		FORMER RUN-UP AREA THRUST DEFLECTOR					
	L2-14 1'-2' 11/13/96 1	L2-14 2'-4' 11/13/96 1	L2-14 4'-6' 11/13/96 1	L2-15 0-1' 11/15/96 2.2	L2-15 1'-2' 11/15/96 1.1	L2-15 2'-4' 11/15/96 NA	L2-15 4'-6' 11/15/96 1	L2-15 6'-8' 11/15/96 1
PERCENT SOLIDS	92.1 (mg/kg)	91.1 (mg/kg)	97.1 (mg/kg)	45 (mg/kg)	89 (mg/kg)	NA (mg/kg)	96.28 (mg/kg)	97.41 (mg/kg)
UNITS								
Total Petroleum Hydrocarbons	943	776	16.1	153	454	U	U	U
Gasoline	U	U	U	U	U	U	N/A	N/A
Kerosene	U	U	U	U	U	U	N/A	N/A
Diesel	U	U	U	U	U	U	N/A	N/A
Residual Oil	U	U	U	U	U	U	N/A	N/A
#2 Fuel Oil	U	U	U	U	U	U	N/A	N/A
#4 Fuel Oil	U	U	U	U	U	U	N/A	N/A
#6 Fuel Oil	U	U	U	U	U	U	N/A	N/A

QUALIFIERS

U: Compound analyzed for but not detected.
 N/A: Compound not analyzed for.

NOTES

NA : Information not available.

TABLE B-3 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

SAMPLE LOCATION	FORMER RUN-UP AREA THRUST DEFLECTOR										
	L2-16 0 - 1'	L2-16 1' - 2'	L2-16 2' - 4'	L2-16 4' - 6'	L2-16 6' - 8'	L2-16 0 - 1'	L2-16 1' - 2'	L2-16 11/15/96	L2-16 NA	L2-16 NA	L2-17 11/15/96
SAMPLE IDENTIFICATION	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96
SAMPLE DEPTH	1.3	1.1	89	89	89	89	89	89	89	89	89
DATE OF COLLECTION	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96
DILUTION FACTOR	1.3	1.1	89	89	89	89	89	89	89	89	89
PERCENT SOLIDS	80	89	89	89	89	89	89	89	89	89	89
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Total Petroleum Hydrocarbons	75	280	U	U	U	U	U	U	U	40	310
Gasoline	U	U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	U	U
Kerosene	U	U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	U	U
Diesel	U	U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	U	U
Residual Oil	U	U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	U	U
#2 Fuel Oil	U	U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	U	U
#4 Fuel Oil	U	U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	U	U
#6 Fuel Oil	U	U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	U	U

QUALIFIERS
 U: Compound analyzed for but not detected.
 N/A: Compound not analyzed for.

NOTES
 NA : Information not available.

TABLE B-3 (continued)
 NORTROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

SAMPLE LOCATION	FORMER RUN-UP AREA THRUST DEFLECTORS									
	L2-17 4' - 6' 11/15/96	L2-17 6' - 8' 11/15/96	L2-18 0 - 1' 11/15/96	L2-18 1' - 2' 11/15/96	L2-18 2' - 4' 11/15/96	L2-18 4' - 6' 11/15/96	L2-18 6' - 8' 11/15/96	L2-18 1.1 11/15/96	L2-18 94 (mg/kg)	DWL2-1 0 - 2' 11/18/96
DILUTION FACTOR	NA	1.0	1.2	1.3	NA	NA	NA	1.1	NA	15.0
PERCENT SOLIDS	NA	97	81	80	NA	NA	NA	94	NA	65
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Total Petroleum Hydrocarbons	U	23	124	73.1	U	13.1	13.2	380	U	U
Gasoline	N/A	U	U	U	N/A	N/A	N/A	N/A	U	U
Kerosene	N/A	U	U	U	N/A	N/A	N/A	N/A	U	U
Diesel	N/A	U	U	U	N/A	N/A	N/A	N/A	U	U
Residual Oil	N/A	U	U	U	N/A	N/A	N/A	N/A	U	U
#2 Fuel Oil	N/A	U	U	U	N/A	N/A	N/A	N/A	U	U
#4 Fuel Oil	N/A	U	U	U	N/A	N/A	N/A	N/A	U	U
#6 Fuel Oil	N/A	U	U	U	N/A	N/A	N/A	N/A	U	U

QUALIFIERS

U: Compound analyzed for but not detected.
 N/A: Compound not analyzed for.

NOTES

NA : Information not available.

TABLE B-3 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

SAMPLE LOCATION	DRY WELL SOIL/SEDIMENT SAMPLING								
	DWL2-1	DWL2-2	DWL2-3	DWL2-3	DWL2-3	DWL2-4	DWL2-4	DWL2-4	FB-1
SAMPLE IDENTIFICATION									
SAMPLE DEPTH	2' - 4'	0 - 2'	0 - 2'	0 - 2'	2' - 4'	2' - 4'	0 - 2'	2' - 4'	--
DATE OF COLLECTION	11/18/96	11/18/96	11/18/96	11/18/96	11/18/96	11/18/96	11/18/96	11/18/96	11/13/96
DILUTION FACTOR	1.0	1.0	1.3	1.3	NA	NA	1.1	NA	1
PERCENT SOLIDS	96	96	79	79	NA	NA	94	NA	0.0
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Total Petroleum Hydrocarbons	23	26	730	730	U	U	24	U	U
Gasoline	U	U	U	U	N/A	N/A	U	N/A	N/A
Kerosene	U	U	U	U	N/A	N/A	U	N/A	N/A
Diesel	U	U	U	U	N/A	N/A	U	N/A	N/A
Residual Oil	U	U	U	U	N/A	N/A	U	N/A	N/A
#2 Fuel Oil	U	U	U	U	N/A	N/A	U	N/A	N/A
#4 Fuel Oil	U	U	U	U	N/A	N/A	U	N/A	N/A
#6 Fuel Oil	U	U	U	U	N/A	N/A	U	N/A	N/A

QUALIFIERS

U: Compound analyzed for but not detected.
 N/A: Compound not analyzed for.

NOTES

-- : Not applicable.
 NA : Information not available.

TABLE B-3 (continued)
 NORTROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

SAMPLE LOCATION	FIELD BLANKS			
	FB-2	FB-3	FB-4	
SAMPLE IDENTIFICATION	--	--	--	
SAMPLE DEPTH				
DATE OF COLLECTION	11/13/96	11/15/96	11/15/96	
DILUTION FACTOR	1	1	1	
PERCENT SOLIDS	0.0	0.0	0.0	
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	
Total Petroleum Hydrocarbons	U	U	U	U
Gasoline	N/A	N/A	N/A	N/A
Kerosene	N/A	N/A	N/A	N/A
Diesel	N/A	N/A	N/A	N/A
Residual Oil	N/A	N/A	N/A	N/A
#2 Fuel Oil	N/A	N/A	N/A	N/A
#4 Fuel Oil	N/A	N/A	N/A	N/A
#6 Fuel Oil	N/A	N/A	N/A	N/A

NOTES
 -- : Not applicable.

QUALIFIERS
 U: Compound analyzed for but not detected.
 N/A: Compound not analyzed for.

TABLE B-4
NORTHROP GRUMMAN CORPORATION
NORTH RUNWAY - PARCEL L2
SOIL SAMPLING RESULTS
PRIORITY POLLUTANT METALS

SAMPLE LOCATION	AREA ADJACENT TO FORMER THRUST DEFLECTOR ON NORTH RUNWAY - PARCEL L1										INSTRUMENT DETECTION LIMITS (mg/kg)	EASTERN USA BACKGROUND LEVELS (mg/kg)
	L2-1 0 - 1' 11/13/96	L2-1 1' - 2' 11/13/96	L2-1 2' - 4' 11/13/96	L2-1 4' - 6' 11/13/96	L2-1 6' - 8' 11/13/96	L2-2 0 - 1' 11/13/96	L2-2 1' - 2' 11/13/96	L2-2 2' - 4' 11/13/96	L2-2 1 1	L2-2 86.9		
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1		
PERCENT SOLIDS	86.5	82.5	88.2	95.5	95.2	87.8	92.0					
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Antimony	U	U	U	U	U	U	U	U	U	U	U	---
Arsenic	15.3	12.0	1.4	3.8	7.8	10.7	U	U	U	U	U	3-12*
Beryllium	0.82	0.81	0.63	0.64	0.54	U	U	U	U	U	U	0-1.75
Cadmium	0.25	U	U	U	U	0.42	0.21	0.42	0.21	0.42	0.42	0.1-1, (10***)
Chromium	16.3	7.5	2.8	8.2	5.8	7.0	U	U	U	U	U	1.5-40*, (50****)
Copper	25.6	12.8	3.2	4.2	5.8	19.7	U	U	U	U	U	1-50
Lead	54.8	10.6	4.1	2.7	21.4	16.3	U	U	U	U	U	200-500**
Mercury	0.29	U	U	U	U	0.12	U	U	U	U	U	0.001-0.2
Nickel	6.0	3.6	1.8	2.7	2.8	3.9	U	U	U	U	U	0.5-25
Selenium	1.8	U	U	1.2	1.4	U	U	U	U	U	U	0.1-3.9
Silver	U	U	U	U	U	U	U	U	U	U	U	---
Thallium	U	U	U	U	U	U	U	U	U	U	U	---
Zinc	63.7	21.4	8.3	8.7	21.9	13.1	8.8	18.5	8.8	18.5	8.8	9-50

QUALIFIERS

U: Compound analyzed for but not detected.
 B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES

--- : Not established.
 [Hatched Box] : Value exceeds TAGM 4046 criteria for cadmium or chromium or Eastern USA Background Levels for all other metals.
 * : New York State Background.
 ** : Background for metropolitan or suburban areas.
 *** : Proposed revised criteria for cadmium and chromium in TAGM 4046 Appendix A.

TABLE B-4 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 PRIORITY POLLUTANT METALS

SAMPLE LOCATION	AREA ADJACENT TO FORMER THRUST DEFLECTOR ON NORTH RUNWAY - PARCEL L1										EASTERN USA BACKGROUND LEVELS			
	L2-2 4'-6' 11/13/96 1	L2-2 6'-8' 11/13/96 1	L2-3 0-1' 11/13/96 1	L2-3 1'-2' 11/13/96 1	L2-3 2'-4' 11/13/96 1	L2-3 4'-6' 11/13/96 1	L2-3 6'-8' 11/13/96 1	L2-4 0-1' 11/15/96 1	INSTRUMENT DETECTION LIMITS (mg/kg)			(mg/kg)		
Antimony	U	U	U	U	U	U	U	U	U	U	U	U	0.11	---
Arsenic	5.6	9.0	11.8	23.2	3.0	3.7	8.7	7.0	7.0	0.282	0.53	0.11	0.282	3-12*
Beryllium	0.28	0.55	0.49	0.34	0.29	0.29	0.49	0.29	0.49	0.01	0.53	0.01	0.01	0-1.75
Cadmium	5.0	11.7	9.5	4.9	6.9	6.4	8.5	6.4	8.5	0.017	5.5	0.017	0.058	0.1-1, (10****)
Chromium	5.4	16.9	21.1	16.2	4.6	9.7	15.6	9.7	15.6	0.106	8.7	0.106	0.106	1.5-40*, (50****)
Copper	4.9	17.9	25.7	10.8	3.8	9.5	35.9	9.5	35.9	0.066	11.4	0.066	0.066	1-50
Lead	U	0.10	0.12	0.20	0.17	0.17	0.22	0.17	0.22	0.1	4.6	0.1	0.1	200-500**
Mercury	3.2	7.1	5.6	3.0	3.9	3.9	5.0	3.9	5.0	0.137	4.6	0.137	0.137	0.001-0.2
Nickel	1.1	3.2	1.2	1.4	2.4	1.8	1.5	1.8	1.5	0.229	22.9	0.229	0.229	0.5-25
Selenium	U	U	U	U	U	U	U	U	U	0.032	22.9	0.032	0.032	0.1-3.9
Silver	U	U	U	U	U	U	U	U	U	0.737	22.9	0.737	0.737	---
Thallium	11.1	30.6	21.7	12.8	12.4	12.0	26.9	12.0	26.9	0.734	22.9	0.734	0.734	9-50
Zinc	U	U	U	U	U	U	U	U	U	U	U	U	U	---

NOTES

- : Not established.
- U : Compound analyzed for but not detected.
- B : Compound concentration is less than the CRDL but greater than the IDL.
- █ : Value exceeds TAGM 4046 criteria for cadmium or chromium or Eastern USA Background Levels for all other metals.
- * : New York State Background.
- ** : Background for metropolitan or suburban areas.
- *** : Proposed revised criteria for cadmium and chromium in TAGM 4046 Appendix A.

QUALIFIERS

- U: Compound analyzed for but not detected.
- B: Compound concentration is less than the CRDL but greater than the IDL.

TABLE B-4 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 PRIORITY POLLUTANT METALS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2						INSTRUMENT DETECTION LIMITS (mg/kg)	EASTERN USA BACKGROUND LEVELS (mg/kg)
	L2-4 1'-2' 11/15/96 1	L2-4 2'-4' 11/15/96 1	L2-4 4'-6' 11/15/96 1	L2-5 0'-1' 11/15/96 1	L2-5 1'-2' 11/15/96 1	L2-5 2'-4' 11/15/96 1		
DILUTION FACTOR	90.9	88.4	92.7	87.9	79.8	84.9	97.2	89.4
PERCENT SOLIDS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
UNITS								
Antimony	U	2.1 B	1.3 B	U	U	U	U	U
Arsenic	9.8	2.4	5.2	11.9	35.0	1.5 B	U	13.8
Beryllium	0.50 B	2.4	0.61 B	0.64 B	0.70 B	0.77 B	0.40 B	0.65 B
Cadmium	U	U	U	0.27 B	U	U	U	U
Chromium	5.8	1.9 B	4.8	9.0	15.0	6.4	1.3 B	7.5
Copper	14.4	2.3 B	7.9	21.7	36.9	3.4 B	0.94 B	25.0
Lead	13.9	2.5	5.7	152	83.9	4.1	0.44 B	68.4
Mercury	U	U	U	0.23	0.53	U	U	0.14
Nickel	2.6 B	1.4 B	3.2 B	3.2 B	6.4 B	2.8 B	0.60 B	8.7
Selenium	U	U	U	U	2.2	U	U	U
Silver	U	U	U	U	U	U	U	U
Thallium	U	4.0	17.6	38.7	3.0	1.8 B	U	U
Zinc	11.7	4.8	U	U	27.0	8.6	3.2 B	55.4

QUALIFIERS

U: Compound analyzed for but not detected.
 B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES

--- : Not established.
 [shaded box] : Value exceeds TAGM 4046 criteria for cadmium or chromium or Eastern USA Background Levels for all other metals.
 * : New York State Background.
 ** : Background for metropolitan or suburban areas.
 *** : Proposed revised criteria for cadmium and chromium in TAGM 4046 Appendix A.

TABLE B-4 (continued)
 NORTROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 PRIORITY POLLUTANT METALS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2								INSTRUMENT DETECTION LIMITS (mg/kg)	EASTERN USA BACKGROUND LEVELS (mg/kg)
	L2-6 1'-2' 11/15/96	L2-6 2'-4' 11/15/96	L2-6 4'-6' 11/15/96	L2-7 1'-2' 11/15/96	L2-7 2'-4' 11/15/96	L2-7 4'-6' 11/15/96	L2-8 0-1' 11/13/96	L2-8 0-1' 11/13/96		
DILUTION FACTOR	1	1	1	1	1	1	1	1	92.7	
PERCENT SOLIDS	86.9	87.6	81.4	89.4	93.4	91.0	92.7	92.7		
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Antimony	U	U	U	U	U	U	U	U	0.11	---
Arsenic	26.6	3.3	1.4	5.3	0.31	0.46	0.48	0.58	0.282	3-12*
Beryllium	0.52	0.63	0.58	0.48	0.31	0.46	0.55	0.58	0.01	0-1.75
Cadmium	U	U	U	0.55	0.31	0.46	0.55	0.58	0.017	0.1-1, (10***)
Chromium	9.0	9.7	13.0	22.2	2.9	7.3	18.8	8.8	0.058	1.5-40*, (50***)
Copper	36.9	3.7	6.9	18.8	2.2	4.7	6.9	6.4	0.106	1-50
Lead	71.5	4.4	8.4	62.4	1.4	6.6	62.4	3.8	0.066	200-500**
Mercury	0.39	U	U	U	U	U	U	U	0.1	0.001-0.2
Nickel	2.6	4.8	6.8	7.2	2.3	5.6	7.2	4.8	0.137	0.5-25
Selenium	2.3	U	U	1.1	U	U	1.1	U	0.229	0.1-3.9
Silver	U	U	U	U	U	U	U	U	0.032	---
Thallium	U	U	U	U	U	U	U	U	0.737	---
Zinc	14.7	17.0	25.8	68.2	8.9	16.5	68.2	17.5	0.734	9-50

QUALIFIERS

U: Compound analyzed for but not detected.

B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES

--- : Not established.

█ : Value exceeds TAGM 4046 criteria for cadmium or chromium or Eastern USA Background Levels for all other metals.

* : New York State Background.

** : Background for metropolitan or suburban areas.

*** : Proposed revised criteria for cadmium and chromium in TAGM 4046 Appendix A.

TABLE B-4 (continued)
 NORTROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 PRIORITY POLLUTANT METALS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2										INSTRUMENT DETECTION LIMITS (mg/kg)	EASTERN USA BACKGROUND LEVELS (mg/kg)	
	L2-8 1'-2' 11/13/96 1	L2-8 2'-4' 11/13/96 1	L2-8 4'-6' 11/13/96 1	L2-9 0-1' 11/13/96 1	L2-9 1'-2' 11/13/96 1	L2-9 2'-4' 11/13/96 1	L2-9 4'-6' 11/13/96 1	L2-10 0-1' 11/14/96 1	L2-10 0-1' 11/14/96 1	L2-10 0-1' 11/14/96 1			
Antimony	U	U	U	U	U	U	U	U	U	U	U	0.11	---
Arsenic	2.3	U	U	4.3	16.4	U	U	U	U	U	U	0.282	3-12*
Beryllium	U	U	U	U	U	U	U	U	U	U	U	0.01	0-1.75
Cadmium	0.22	B	U	0.40	0.37	B	0.26	B	0.19	B	B	0.017	0.1-1, (10***)
Chromium	3.8	3.0	1.1	5.4	9.5	B	4.1	B	2.0	B	B	0.058	1.5-40*, (50***)
Copper	12.0	5.9	1.3	6.7	26.0	B	2.1	B	1.2	B	B	0.106	1-50
Lead	4.2	4.8	1.0	18.1	42.9	B	2.4	B	1.2	B	B	0.066	200-500**
Mercury	U	U	U	U	0.53	U	U	U	U	U	U	0.1	0.001-0.2
Nickel	3.6	B	1.0	5.9	4.8	B	2.3	B	2.7	B	B	0.137	0.5-25
Selenium	2.0	1.2	1.0	1.0	1.5	B	1.5	B	U	U	U	0.229	0.1-3.9
Silver	U	U	U	U	U	U	U	U	U	U	U	0.032	---
Thallium	U	U	U	1.8	U	U	U	U	U	U	U	0.737	---
Zinc	10.2	7.3	5.8	55.5	19.7	B	8.3	B	3.3	B	B	0.734	9-50

QUALIFIERS

U: Compound analyzed for but not detected.

B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES

--- : Not established.

█ : Value exceeds TAGM 4046 criteria for cadmium or chromium or Eastern USA Background Levels for all other metals.

* : New York State Background.

** : Background for metropolitan or suburban areas.

*** : Proposed revised criteria for cadmium and chromium in TAGM 4046 Appendix A.

TABLE B-4 (continued)
 NORTHPROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 PRIORITY POLLUTANT METALS

SAMPLE LOCATION	PERIMETER AND CENTER OF NORTH RUNWAY - PARCEL L2										INSTRUMENT DETECTION LIMITS (mg/kg)	EASTERN USA BACKGROUND LEVELS (mg/kg)
	L2-10 1'-2' 11/14/96	L2-10 2'-4' 11/14/96	L2-10 4'-6' 11/14/96	L2-11 0-1' 11/14/96	L2-11 1'-2' 11/14/96	L2-11 2'-4' 11/14/96	L2-11 4'-6' 11/14/96	L2-12 0-1' 11/13/96				
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1		
PERCENT SOLIDS	83.6	95.3	94.7	94.1	93.6	92.9	87.3	87.9				
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)			(mg/kg)	(mg/kg)
Antimony	U	U	U	U	U	U	U	U	U	U	0.11	---
Arsenic	4.9	3.4	1.7	2.6	1.8	2.7	2.8	13.2	3.2	3.2	0.282	3-12*
Beryllium	0.59	0.32	0.28	0.44	0.32	0.36	0.49	0.56	0.56	0.56	0.01	0-1.75
Cadmium	U	U	U	U	U	U	U	U	U	U	0.017	0.1-1, (10****)
Chromium	10.8	3.5	1.9	3.7	2.9	2.6	5.2	9.5	9.5	9.5	0.058	1.5-40*, (50****)
Copper	7.7	3.7	1.8	10	2.0	2.7	4.0	11.4	11.4	11.4	0.106	1-50
Lead	7.9	3.7	1.6	2.7	1.8	3.7	2.7	35.7	35.7	35.7	0.066	200-500**
Mercury	U	U	U	U	U	U	U	0.20	0.20	0.20	0.1	0.001-0.2
Nickel	7.7	4.1	1.8	6.9	2.1	2.0	4.0	5.2	5.2	5.2	0.137	0.5-25
Selenium	1.1	1.1	U	U	U	U	U	1.3	1.3	1.3	0.229	0.1-3.9
Silver	U	U	U	U	U	U	U	0.25	0.25	0.25	0.032	---
Thallium	U	U	U	U	U	U	U	U	U	U	0.737	---
Zinc	23.9	15.8	16.9	31.7	10.2	9.5	16.3	38.6	38.6	38.6	0.734	9-50

QUALIFIERS

U: Compound analyzed for but not detected.

B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES

--- : Not established.

█ : Value exceeds TAGM 4046 criteria for cadmium or chromium or Eastern USA Background Levels for all other metals.

* : New York State Background.

** : Background for metropolitan or suburban areas.

*** : Proposed revised criteria for cadmium and chromium in TAGM 4046 Appendix A.

TABLE B-4 (continued)
 NORTROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 PRIORITY POLLUTANT METALS

SAMPLE LOCATION	FORMER RUNWAY TURNAROUND										EASTERN USA BACKGROUND LEVELS (mg/kg)	
	L2-12 1'-2' 11/13/96	L2-12 2'-4' 11/13/96	L2-12 4'-6' 11/13/96	L2-13 0-1' 11/13/96	L2-13 1'-2' 11/13/96	L2-13 2'-4' 11/13/96	L2-13 4'-6' 11/13/96	L2-13 84.3 (mg/kg)	L2-13 95.9 (mg/kg)	L2-14 0-1' 11/13/96		L2-14 79.3 (mg/kg)
PERCENT SOLIDS	73.9	88.3	96.2	85.2	83.6	84.3	84.3	84.3	95.9	79.3	79.3	
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Antimony	U	U	U	U	U	U	U	U	U	U	U	0.11
Arsenic	34.0	U	U	U	18.0	U	3.0	U	U	13.4	U	0.282
Beryllium	U	U	U	U	U	U	U	U	U	U	U	0.01
Cadmium	0.54	U	U	U	0.63	B	0.27	B	0.22	B	B	0.017
Chromium	14.8	2.9	2.7	6.9	12.5	10.4	10.4	1.7	1.7	B	B	0.058
Copper	48.0	2.8	1.6	13.1	22.8	7.2	7.2	1.8	1.8	B	B	0.106
Lead	89.1	2.5	1.2	61.2	105	6.0	6.0	1.8	1.8	B	B	0.066
Mercury	0.65	U	U	U	0.55	U	U	U	U	U	U	0.1
Nickel	7.2	B	1.4	4.9	8.5	B	7.6	B	1.7	B	B	0.137
Selenium	2.4	1.6	U	2.0	2.2	1.9	1.9	U	U	U	U	0.229
Silver	U	U	U	U	U	U	U	U	U	U	U	0.032
Thallium	U	U	U	U	U	U	U	U	U	U	U	0.737
Zinc	30.5	5.5	4.3	36.2	52.8	19.1	19.1	5.3	5.3	50.4	50.4	0.734

QUALIFIERS

U: Compound analyzed for but not detected.

B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES

--- : Not established.

█ : Value exceeds TAGM 4046 criteria for cadmium or chromium or Eastern USA Background Levels for all other metals.

* : New York State Background.

** : Background for metropolitan or suburban areas.

*** : Proposed revised criteria for cadmium and chromium in TAGM 4046 Appendix A.

TABLE B-4 (continued)
 NORTROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 PRIORITY POLLUTANT METALS

SAMPLE LOCATION	FORMER RUNWAY TURNAROUND			FORMER RUN-UP AREA THRUST DEFLECTOR					INSTRUMENT DETECTION LIMITS (mg/kg)	EASTERN USA BACKGROUND LEVELS (mg/kg)
	L2-14 1' - 2' 11/13/96	L2-14 2' - 4' 11/13/96	L2-14 4' - 6' 11/13/96	L2-15 0 - 1' 11/15/96	L2-15 1' - 2' 11/15/96	L2-15 2' - 4' 11/15/96	L2-15 4' - 6' 11/15/96	L2-15 6' - 8' 11/15/96		
DILUTION FACTOR	1	1	1	1	1	1	1	1		
PERCENT SOLIDS	92.1	91.1	97.1	86.8	87.4	87.3	97.5	96.5		
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		
Antimony	U	U	U	U	U	U	U	U	0.11	---
Arsenic	15.4	6.4	U	6.8	7.6	4.5	0.92	U	0.282	3-12*
Beryllium	U	U	U	0.48	0.45	B	0.29	B	0.01	0-1.75
Cadmium	0.50	0.36	B	0.25	U	U	U	U	0.017	0.1-1, (10***)
Chromium	7.7	4.3	3.4	8.6	7.1	13.2	1.9	3.7	0.058	1.5-40*, (50***)
Copper	13.2	23.8	2.0	30.5	10.7	7.4	1.6	2.1	0.106	1-50
Lead	28.2	7.9	1.8	65.2	26.2	5.6	0.78	1.0	0.066	200-500**
Mercury	0.31	U	U	0.089	U	U	U	U	0.1	0.001-0.2
Nickel	4.6	3.4	2.2	6.9	4.4	7.6	1.4	1.8	0.137	0.5-25
Selenium	1.3	1.4	U	1.1	1.0	1.8	U	U	0.229	0.1-3.9
Silver	U	U	U	U	U	U	U	U	0.032	---
Thallium	U	U	U	U	U	U	U	U	0.737	---
Zinc	19.4	13.5	6.3	93.3	26.7	22.5	6.2	12.5	0.734	9-50

QUALIFIERS

U: Compound analyzed for but not detected.

B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES

--- : Not established.

█ : Value exceeds TAGM 4046 criteria for cadmium or chromium or Eastern USA Background Levels for all other metals.

* : New York State Background.

** : Background for metropolitan or suburban areas.

*** : Proposed revised criteria for cadmium and chromium in TAGM 4046 Appendix A.

TABLE B-4 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 PRIORITY POLLUTANT METALS

SAMPLE LOCATION	FORMER RUN-UP AREA THRUST DEFLECTOR										INSTRUMENT DETECTION LIMITS (mg/kg)	EASTERN USA BACKGROUND LEVELS (mg/kg)
	L2-16 0-1'	L2-16 1'-2'	L2-16 2'-4'	L2-16 4'-6'	L2-16 6'-8'	L2-17 0-1'	L2-17 1'-2'	L2-17 2'-4'	L2-17 11/15/96	L2-17 11/15/96		
SAMPLE IDENTIFICATION	1	1	1	1	1	1	1	1	1	1		
SAMPLE DEPTH	0-1'	1'-2'	2'-4'	4'-6'	6'-8'	0-1'	1'-2'	2'-4'	11/15/96	11/15/96		
DATE OF COLLECTION	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96		
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1		
PERCENT SOLIDS	81.7	88.3	95.5	98.2	97.6	82.2	87.4	93.3				
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)				
Antimony	U	U	U	U	U	U	U	U	U	U	0.11	---
Arsenic	7.2	13.5	2.0	U	1.3	8.2	9.1	3.3	U	3.3	0.282	3-12*
Beryllium	0.60	0.60	0.45	0.40	0.43	0.57	0.38	0.64	B	0.64	0.01	0-1.75
Cadmium	U	U	U	U	U	U	U	U	U	U	0.017	0.1-1, (10***)
Chromium	6.8	9.2	2.7	2.4	5.5	10.8	6.1	5.9	U	5.9	0.058	1.5-40*, (50***)
Copper	12.8	17.0	2.3	1.7	2.3	13.2	13.5	4.3	B	4.3	0.106	1-50
Lead	35.0	39.1	1.5	0.60	1.8	38.5	37.2	2.4	U	2.4	0.066	200-500**
Mercury	U	0.21	U	U	U	U	0.22	U	U	U	0.1	0.001-0.2
Nickel	3.0	4.4	1.8	1.5	2.2	6.2	3.3	4.0	B	4.0	0.137	0.5-25
Selenium	1.3	1.2	U	U	U	U	1.3	U	U	U	0.229	0.1-3.9
Silver	U	U	U	U	U	U	U	U	U	U	0.032	---
Thallium	U	1.7	U	U	U	U	U	U	U	U	0.737	---
Zinc	27.1	24.7	8.1	3.8	6.4	47.5	22.0	11.8	U	11.8	0.734	9-50

QUALIFIERS

U: Compound analyzed for but not detected.

B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES

--- : Not established.

█ : Value exceeds TAGM 4046 criteria for cadmium or chromium or Eastern USA Background Levels for all other metals.

* : New York State Background.

** : Background for metropolitan or suburban areas.

*** : Proposed revised criteria for cadmium and chromium in TAGM 4046 Appendix A.

TABLE B-4 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 PRIORITY POLLUTANT METALS

SAMPLE LOCATION	FORMER RUN-UP AREA THRUST DEFLECTOR						INSTRUMENT DETECTION LIMITS (mg/kg)	EASTERN USA BACKGROUND LEVELS (mg/kg)
	L2-17 4'-6' 11/15/96	L2-17 6'-8' 11/15/96	L2-18 0-1' 11/15/96	L2-18 1'-2' 11/15/96	L2-18 2'-4' 11/15/96	L2-18 4'-6' 11/15/96		
DILUTION FACTOR	1	1	1	1	1	1	1	1
PERCENT SOLIDS	97.9	97.5	83.0	80.4	92.9	96.5	95.6	66.3
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Antimony	U	U	U	U	U	U	U	U
Arsenic	1.4	1.0	9.6	25.0	3.0	1.5	1.1	9.9
Beryllium	0.42	0.42	0.48	0.60	0.56	0.36	0.36	0.52
Cadmium	U	U	U	U	U	U	U	6.8
Chromium	4.8	5.4	11.3	12.2	8.1	2.2	7.7	83.3
Copper	1.9	2.5	12.6	28.9	5.7	2.3	2.0	110
Lead	0.83	0.86	32.6	59.8	3.6	0.94	1.1	1230
Mercury	U	U	0.12	0.81	U	U	U	U
Nickel	2.0	1.9	5.9	5.2	6.0	4.4	1.8	30.8
Selenium	U	U	U	1.1	U	U	U	U
Silver	U	U	U	U	U	U	U	U
Thallium	1.8	U	U	1.9	U	U	U	0.58
Zinc	6.4	7.9	39.5	24.9	20.7	15.5	8.2	708

QUALIFIERS

U: Compound analyzed for but not detected.

B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES

--- : Not established.

█ : Value exceeds TAGM 4046 criteria for cadmium or chromium or Eastern USA Background Levels for all other metals.

* : New York State Background.

** : Background for metropolitan or suburban areas.

*** : Proposed revised criteria for cadmium and chromium in TAGM 4046 Appendix A.

TABLE B-4 (continued)
 NORTHROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 PRIORITY POLLUTANT METALS

SAMPLE LOCATION	DRY WELL SOIL/SEDIMENT SAMPLING										EASTERN USA BACKGROUND LEVELS (mg/kg)	
	DWL2-1 2' - 4' 11/18/96 1 94.5 (mg/kg)	DWL2-2 0 - 2' 11/18/96 1 95.5 (mg/kg)	DWL2-2 2' - 4' 11/18/96 1 96.4 (mg/kg)	DWL2-3 0 - 2' 11/18/96 1 67.5 (mg/kg)	DWL2-3 2' - 4' 11/18/96 1 86.9 (mg/kg)	DWL2-4 0 - 2' 11/18/96 1 93.4 (mg/kg)	DWL2-4 2' - 4' 11/18/96 1 92.4 (mg/kg)	FB-1 -- 11/13/96 1 0.0 (ug/L)	INSTRUMENT DETECTION LIMITS (mg/kg)			
Antimony	U	U	U	U	U	U	U	U	U	U	0.11	---
Arsenic	U	U	U	22.3	3.7	1.6	2.4	U	U	U	0.282	3-12*
Beryllium	0.28	0.28	0.23	0.40	0.22	0.28	0.31	B	B	B	0.01	0-1.75
Cadmium	U	U	U	0.31	U	U	U	U	U	U	0.017	0.1-1, (10***)
Chromium	2.6	3.5	1.7	6.2	3.7	2.3	4.0	B	B	B	0.058	1.5-40*, (50***)
Copper	2.5	2.1	1.8	7.6	1.9	3.1	4.0	B	B	B	0.106	1-50
Lead	4.0	2.5	1.9	31.5	2.2	16.9	10.4	U	U	U	0.066	200-500**
Mercury	U	U	U	U	U	U	U	U	U	U	0.1	0.001-0.2
Nickel	2.0	1.6	1.7	13.8	3.5	2.5	2.8	B	B	B	0.137	0.5-25
Selenium	1.2	U	U	U	U	U	U	U	U	U	0.229	0.1-3.9
Silver	U	U	U	U	U	U	U	U	U	U	0.032	---
Thallium	U	U	U	U	U	U	U	U	U	U	0.737	---
Zinc	12.8	7.1	9.9	33.2	9.0	15.1	21.2	B	B	B	0.734	9-50

QUALIFIERS

U: Compound analyzed for but not detected.

B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES

-- : Not applicable.

--- : Not established.

█ : Value exceeds TAGM 4046 criteria for cadmium or chromium or Eastern USA Background Levels for all other metals.

* : New York State Background.

** : Background for metropolitan or suburban areas.

*** : Proposed revised criteria for cadmium and chromium in TAGM 4046 Appendix A.

TABLE B-4 (continued)
 NORTROP GRUMMAN CORPORATION
 NORTH RUNWAY - PARCEL L2
 SOIL SAMPLING RESULTS
 PRIORITY POLLUTANT METALS

SAMPLE LOCATION	FIELD BLANKS				INSTRUMENT DETECTION LIMITS (mg/kg)	EASTERN USA BACKGROUND LEVELS (mg/kg)
	FB-2	FB-3	FB-4			
SAMPLE IDENTIFICATION						
SAMPLE DEPTH						
DATE OF COLLECTION	11/13/96	11/15/96	11/15/96			
DILUTION FACTOR	1	1	1			
PERCENT SOLIDS	0.0	0.0	0.0			
UNITS	(ug/L)	(ug/L)	(ug/L)			
Antimony	U	U	U	U	0.11	---
Arsenic	U	7.7 B	U	U	0.282	3-12*
Beryllium	U	2.0 B	U	U	0.01	0-1.75
Cadmium	U	U	U	U	0.017	0.1-1, (10***)
Chromium	U	U	U	U	0.058	1.5-40*, (50***)
Copper	U	1.9 B	U	U	0.106	1-50
Lead	U	U	U	U	0.066	200-500**
Mercury	U	U	U	U	0.1	0.001-0.2
Nickel	U	1.4 B	U	U	0.137	0.5-25
Selenium	U	U	U	U	0.229	0.1-3.9
Silver	U	U	U	U	0.032	---
Thallium	U	U	U	U	0.737	---
Zinc	9.7 B	18.9 B	U	U	0.734	9-50

QUALIFIERS

U: Compound analyzed for but not detected.
 B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES

- : Not applicable.
- : Not established.
- █ : Value exceeds TAGM 4046 criteria for cadmium or chromium or Eastern USA Background Levels for all other metals.
- * : New York State Background.
- ** : Background for metropolitan or suburban areas.
- *** : Proposed revised criteria for cadmium and chromium in TAGM 4046 Appendix A.