

1-30-01-003

NORTHROP GRUMMAN

Electronics & Systems Integration Division
Northrop Grumman Corporation
South Oyster Bay Road
Bethpage, New York 11714-3580

May 13, 1998
ETC98-126

RECEIVED
NYSDEC

Mr. Stan Farkas
NYS Department of Environmental Conservation
SUNY - Building 40
Stony Brook, New York 11794

MAY 14 1998

BUREAU OF
HAZARDOUS WASTE FACILITIES
DIV. OF SOLID & HAZ. MATERIALS

Subject: **Northrop Grumman Corporation - Building 03, Bethpage Site
Area of Concern 33-09 - Former Waste Accumulation Area
Area of Concern 34 - Old Autoclave Area
Area of Concern 33-11/12 - Former Waste Accumulation Area
Area of Concern 6 - Chem Mill Clean Area
Remediation End Point Sample Results**

- Enclosures: 1) End Point Soil Sample Location Drawings
2) End Point Soil Sample Data for AOC 33-09
3) End Point Soil Sample Data for AOC 34
4) End Point Soil Sample Data for AOC 33-11/12
5) End Point Soil Sample Data for AOC 6

Dear Mr. Farkas:

As you know, Northrop Grumman has been conducting environmental remediation at the Bethpage Building 03 location for Areas of Concern (AOCs) that have significant exceedances of the TAGM 4046 soil criteria. One such location, AOC 33-09 - Former Waste Accumulation Area, was recently excavated to depths of eight and twelve feet below grade surface (bgs). Another location, AOC 34 - Old Autoclave Area, was excavated to depths of thirty and sixteen feet bgs. Similarly, AOC 33-11/12 - Former Waste Accumulation Area, was also excavated to depths of eight and ten feet. Lastly, AOC 6 - Chem Mill Clean Area, was excavated to depths of four and twelve feet bgs. Sketches showing the excavated areas and end point sample locations for AOCs 33-09, 34, 33-11/12, and 6 are provided in Enclosure 1.

In a previous meeting, we agreed to sample and analyze the side wall samples prior to excavation. This sampling methodology was chosen to ensure that the horizontal extent of impacted soil for each AOC was accurately defined. A few sidewall samples at the 2'-4' interval for AOC 33-11/12 were not collected because the sidewall sample locations were taken within a 5-foot thick concrete floor slab.

The following Table illustrates the end point analysis conducted for each of the AOCs remediated. The end point sample results are presented for your review in Enclosures 2 through 4.

| AOC | Analysis | Method Number |
|----------|---------------------------|---------------|
| 33-09 | VOCs | 8270 |
| | SVOCs | 8240 |
| 34 | PCBs | 8082 |
| | SVOCs | 8270 |
| 33-11/12 | Priority Pollutant Metals | 6010/7471 |
| | SVOCs | 8270 |
| 6 | Priority Pollutant Metals | 6010/7471 |

AOC 33-09 - Former Waste Accumulation Area

The end point sample results for AOC 33-09 are provided in Enclosure 2. There are no VOC exceedances of the TAGM criteria. There are, however, minor exceedances of individual SVOCs constituents in sidewall sample AOC 33-09C and floor sample AOC 33-09M. Because the total concentration of carcinogenic SVOCs are well below the TAGM criteria of 10,000 µg/kg for these samples, the environmental impacts are negligible.

AOC 34- Old Autoclave

The end point sample results for AOC 34 are provided in Enclosure 3. The endpoint data does not indicate any PCBs or SVOCs exceedances of the TAGM criteria.

AOC 33-11/12 - Former Waste Accumulation Area

The end point sample results for AOC 33-11/12 are provided in Enclosure 4. There are no priority pollutant metal exceedances of the TAGM criteria. Sample AOC 33-12A₁₂ (2.5'-4') exhibited individual exceedances of the following SVOCs: benzo (a) anthracene, chrysene, benzo (b) fluoranthene, benzo (k) fluoranthene, and benzo (a) pyrene. However, the average concentration of these constituents for the 2-4 foot interval was well below each of the individual SVOC TAGM criteria. It is important to note that the extract for samples AOC 33-11/12 C_{FL}, E_{FL}, I_{FL}, and H_{FL} was re-analyzed after performing a silica gel clean-up procedure (method 3630C). This clean-up procedure was utilized to reduce the method detection limit (MDL) associated with the polycyclic aromatic hydrocarbons (PAHs). It is believed that heavy end hydrocarbons caused interference during the initial scan of these samples resulting in a MDL that was about two orders of magnitude above acceptable limits.

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AOC 6 - Chem Mill Clean Area

The end point sample results for AOC 6 are provided in Enclosure 5. The data indicates that there is only one exceedance of the priority pollutant metal TAGM criteria. Floor sample AOC 6F exhibited a concentration of chromium of 250 mg/kg. As a result of this exceedance, the sample was re-analyzed for hexavalent chromium. The data on page 3 of Enclosure 5 shows that the hexavalent chromium concentration of sample AOC 6F is 4.8 mg/kg. Since the hexavalent chromium concentration is well below the TAGM criteria of 50 mg/kg for total chromium, no further action is warranted for AOC 6.

In summary, Northrop Grumman effectively removed, transported, and disposed of impacted soils at AOCs 33-09, 34, 33-11/12, and 6. The end point analysis results demonstrate that soils immediately adjacent to the excavated areas do not exceed the TAGM criteria. It is therefore recommended that No Further Action is warranted at AOCs 33-09, 34, 33-11/12, and 6.

Upon your review and approval of the attached data and these recommendations, Northrop Grumman will backfill the excavation areas with certified clean bank-run sand and restore the area to match existing conditions. A complete engineering report documenting all field activities, laboratory data analysis, and waste disposal manifests shall be sent to your office at the completion of this project.

We have put together an ambitious schedule for the completion of the remediation work at the 105-Acre GOCO site and would appreciate your expeditious review and approval of this letter report.

If you have any questions, please call me at 516/575-2333 or A. Postyn, of this office, at 516/575-1566.

Very truly yours,

NORTHROP GRUMMAN CORPORATION



Larry L. Deskovjan, Manager

Environmental Technology and Compliance
M/S: D08-001

cc: w/enclosure
S. Kaminski, NYSDEC; H. Wilkie, NYSDEC; T. Mulvihill, NCDH; T. Kelly, NCDPW

w/o enclosure
J. Lovejoy, NCDH; B. Mackay, NCDH



ENCLOSURE 1

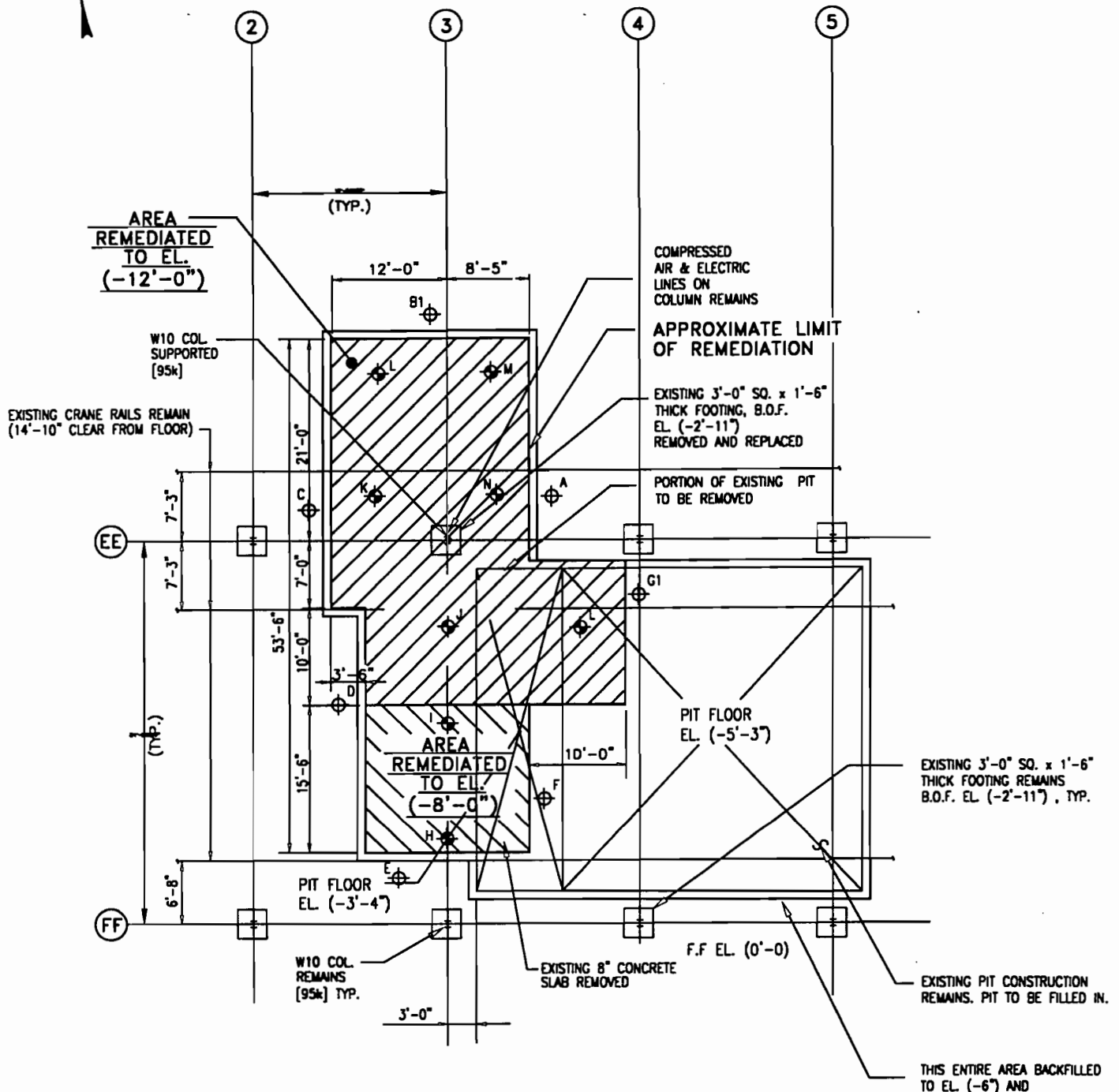
3-98 PROJECT NO. NY000008.0140 FILE: G:\PROJECT\GRUMMAN\NY0008.0140\ DRAWING: AOC 33-09 CHECKED: GN APPROVED: GN DRA: MS

NOTES:

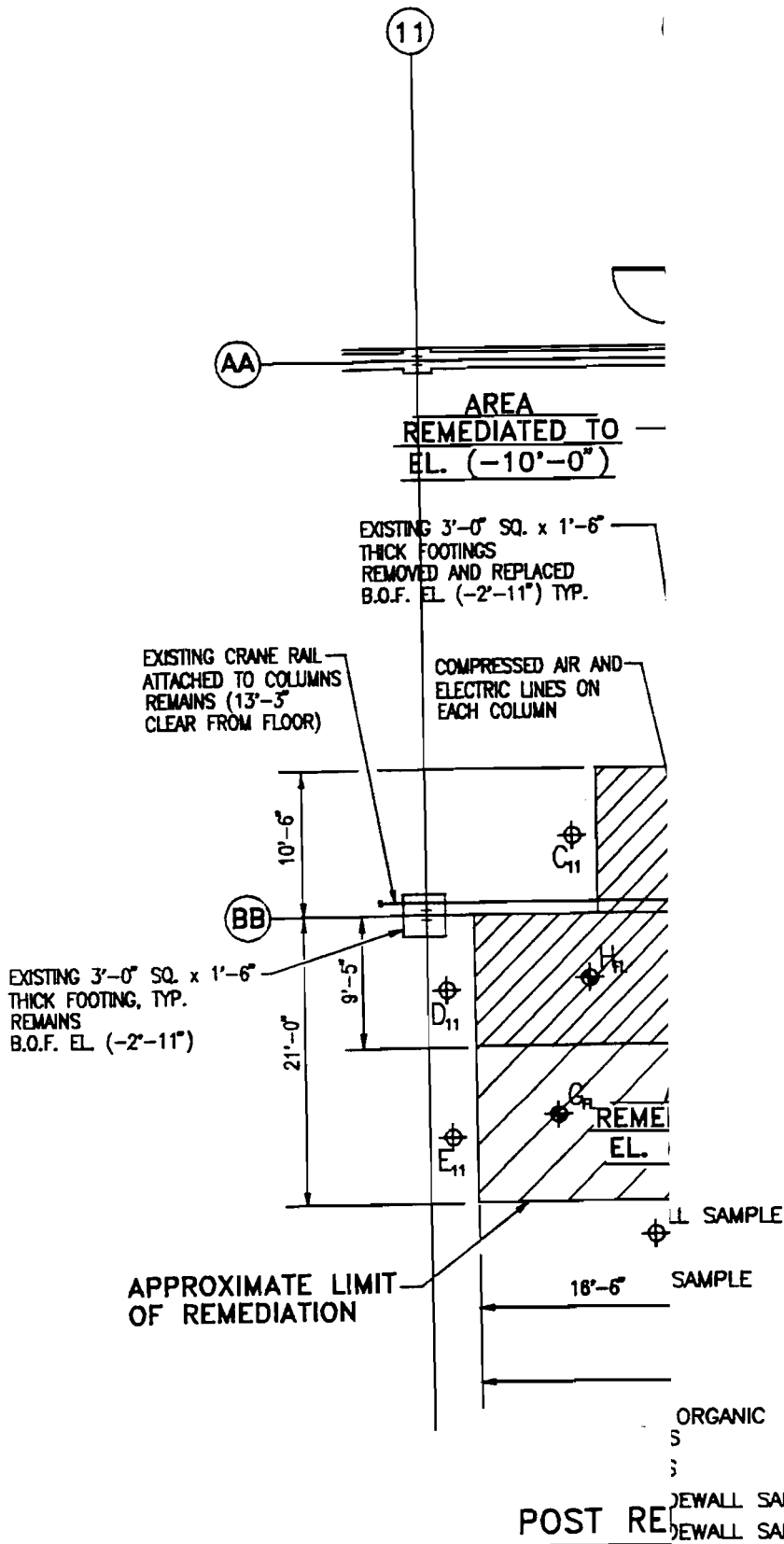
- SOIL SAMPLES ANALYZED FOR VOLATILE ORGANIC COMPOUNDS AND SEMI-VOLATILE ORGANIC COMPOUNDS

LEGEND:

-  POST REMEDIATION SIDEWALL SAMPLE
-  POST REMEDIATION FLOOR SAMPLE



POST REMEDIATION PLAN - AOC 33-09
N.T.S.



| NO. | DATE | REVISION DESCRIPTION | BY |
|-----|------|----------------------|-----|
| | | | CKD |

PLANT 3
NORTHROP GRUMMAN CORPORATION
BETHPAGE, NEW YORK

AOC 33-11 & AOC 33-12



88 Duryea Road
Bethpage, New York 11747
Tel: 516/240-7800 Fax: 516/240-7810

| | |
|--------------------------------|----------------------|
| PROJECT MANAGER TE | DEPARTMENT MANAGER |
| LEAD DESIGN PROF. | CHECKED TE |
| DRAWN MS | DATE 4/9/98 |
| PROJECT NUMBER NY00008.0140 | DRAWING NUMBER 19 |

NOTES:

- 1. SOIL SAMPLES ANALYZED FOR PRIORITY POLLUTANT METALS

LEGEND:

- ⊕ IN-SITU SIDEWALL SAMPLE
- ⊙ POST REMEDIATION FLOOR SAMPLE

DATE: 4-2-98

PROJECT NO. NY000008.0140

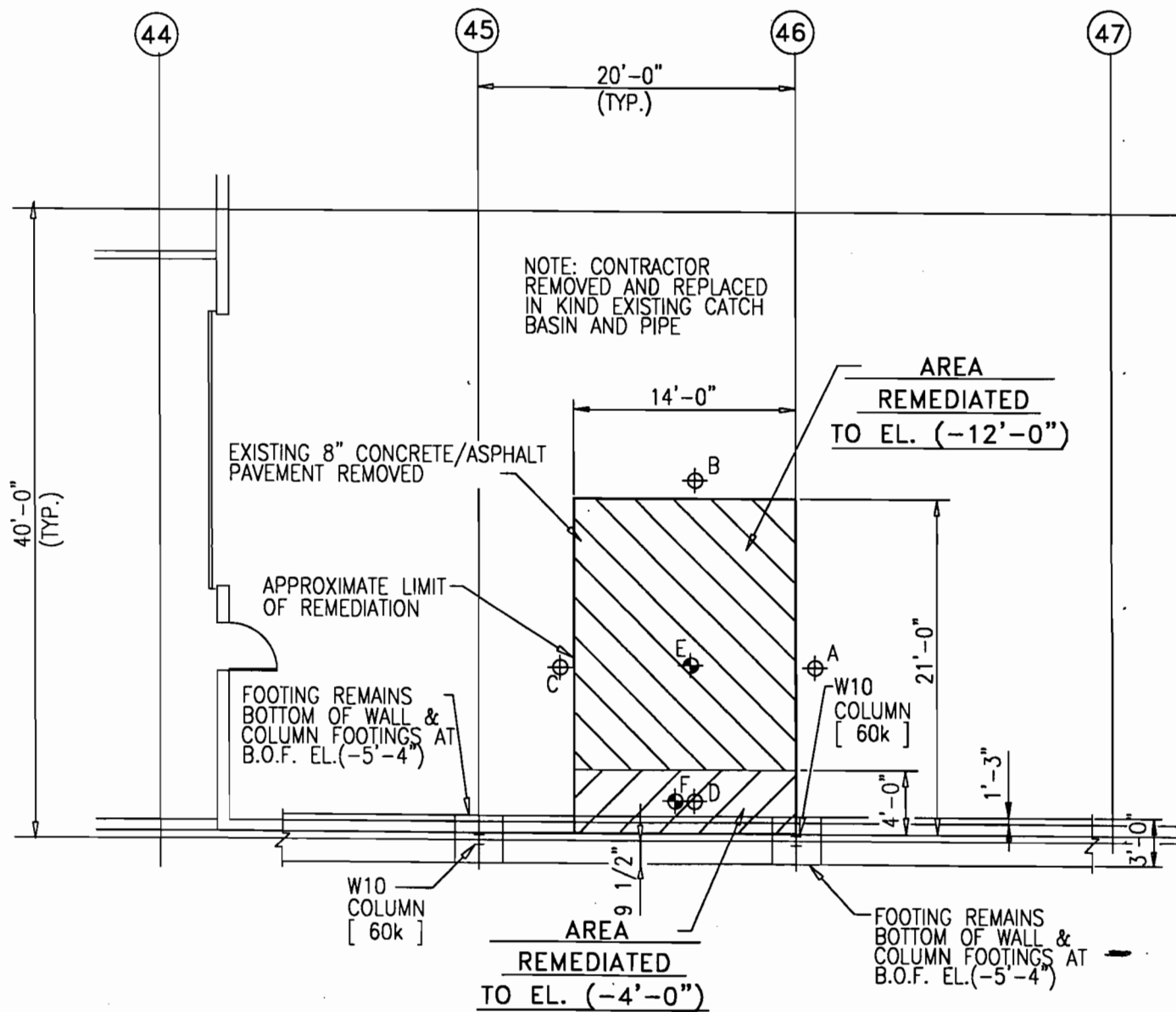
FILE: G:\PROJECT\GRUMMAN\NY0008.0140\CADD

DWG DATE: 4-2-98

PROJECT NO. NY000008.0140

DATE: 4-2-98

PROJECT NO. NY000008.0140



POST REMEDIATION PLAN - AOC 6
N.T.S.

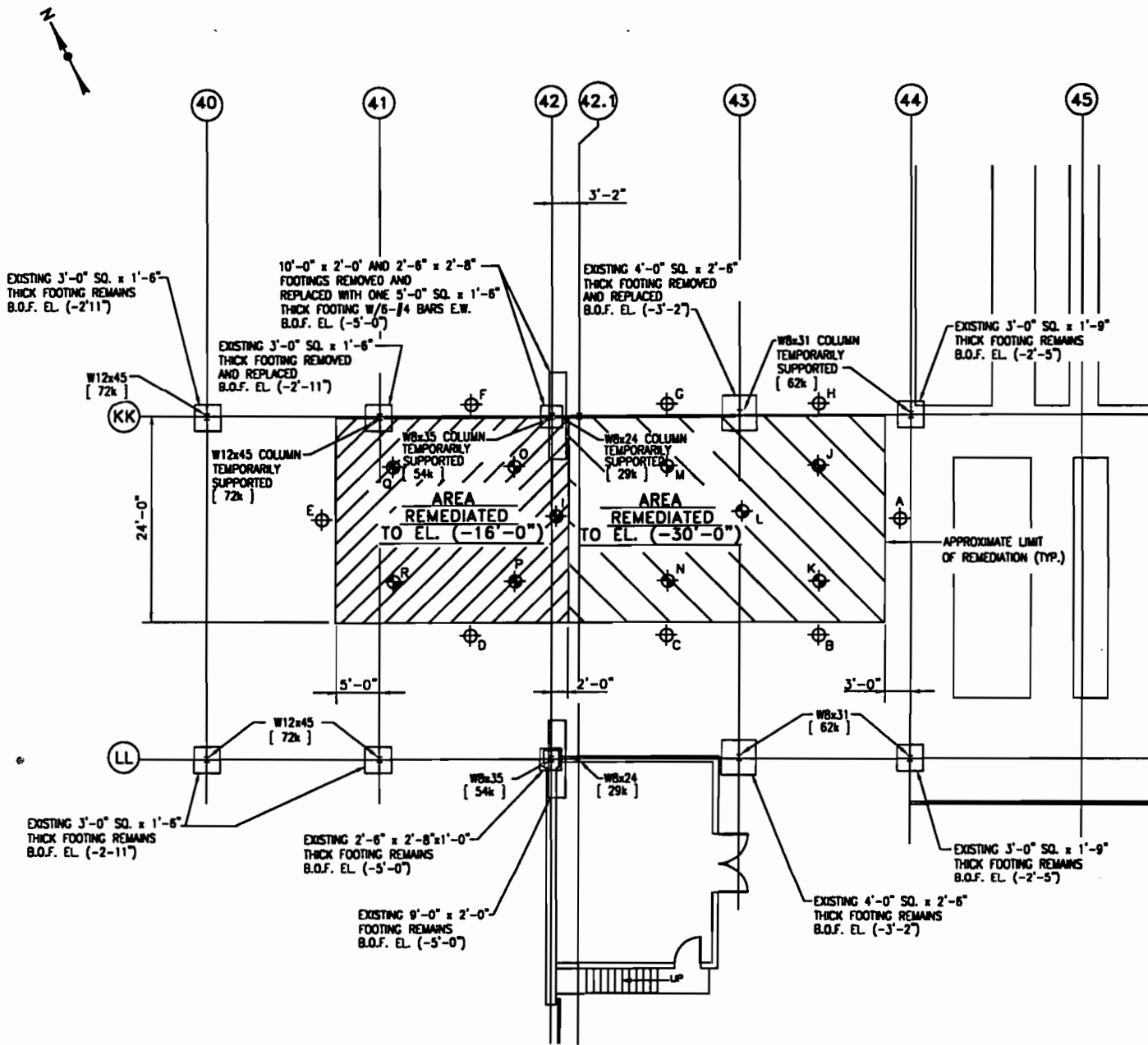


NOTES:

- SOIL SAMPLES ANALYZED FOR SEMI-VOLATILE ORGANIC COMPOUNDS

LEGEND:

- ⊕ IN-SITU SIDEWALL SAMPLE
- ⊙ POST REMEDIATION FLOOR SAMPLE



POST REMEDIATION PLAN - AOC 34
N.T.S.

MS DP-STER: MS APPROVED: GN CHECKED: GN DRAWING: AOC 34 FILE: G:\PROJECT\GRUMMAN\NY00008.0140\CADD PROJECT. NO. NY000008.0140 DWG DATE: 4-2-98



ENCLOSURE 2

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-09A | | Sample ID: AOC 33-09A | | Sample ID: AOC 33-09A | | Sample ID: AOC 33-09B1 | | Sample ID: AOC 33-09B1 | | |
|---------------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|-----------------------|
| | | Sample Interval: 2-4' | Date Sampled: 2/25/98 | Sample Interval: 2-4' | Date Sampled: 2/25/98 | Sample Interval: 6-8' | Date Sampled: 2/25/98 | Sample Interval: 8-10' | Date Sampled: 4/29/98 | Sample Interval: 2-4' | Date Sampled: 3/10/98 | Sample Interval: 5-7' |
| | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Chlorobenzene | 1,700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethyl Benzene | 5,500 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Styrene | N/A | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o Xylene | 1,200 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m+p Xylene | 1,200 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Xylene | 1,200 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| % Solids | | 97 | 97 | 97 | 97 | 99 | 99 | 99 | 98 | 98 | 99 | 99 |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.
 Bold entries are concentrations in exceedence of NYSDEC TAGM criteria.

ug/kg Micrograms per kilogram

NYSDEC New York State Department of Environmental Conservation

¹ NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 (Rev. 4/95)

N/A Criteria not available

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-09B1 | | AOC 33-09C | | AOC 33-09C | | AOC 33-09C | | AOC 33-09D | |
|---------------|--|-----------------------------------|------------------|-----------------|-----------------|-------------------|-----------------|------------|-------|------------|-------|
| | | Sample Interval: Date Sampled: | 8-10' 4/29/98 | 2-4' 2/25/98 | 6-8' 2/25/98 | 10-12' 2/25/98 | 2-4' 4/25/98 | ug/kg | ug/kg | ug/kg | ug/kg |
| Chlorobenzene | 1,700 | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethyl Benzene | 5,500 | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Styrene | N/A | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o Xylene | 1,200 | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m+p Xylene | 1,200 | | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Xylene | 1,200 | | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| % Solids | | | 99 | 97 | 99 | 99 | 99 | 99 | 99 | 99 | 99 |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.
 Bold entries are concentrations in exceedence of NYSDEC TAGM criteria.

ug/kg Micrograms per kilogram

NYSDEC New York State Department of Environmental Conservation

1 NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 (Rev. 4/95)

N/A Criteria not available

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-09D | | AOC 33-09D | | AOC 33-09E | | AOC 33-09F | | AOC 33-09GI | | |
|---------------|--|-----------------------|-----------------------|------------|---------|------------|---------|------------|---------|-------------|---------|-------|
| | | Sample Interval: 6-8' | Date Sampled: 2/25/98 | 8-10' | 4/29/98 | 2-4' | 2/25/98 | 5-7' | 2/25/98 | 5-7' | 2/24/98 | 7-9' |
| | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Chlorobenzene | 1,700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethyl Benzene | 5,500 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Styrene | N/A | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o Xylene | 1,200 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m+p Xylene | 1,200 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <11 | <10 | <10 | <10 |
| Xylene | 1,200 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <16 | <15 | <15 | <15 |
| % Solids | | 99 | 99 | 99 | 98 | 99 | 99 | 94 | 99 | 99 | 99 | 99 |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.

Bold entries are concentrations in exceedence of NYSDEC TAGM criteria.

ug/kg Micrograms per kilogram

NYSDEC New York State Department of Environmental Conservation

1 NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 (Rev. 4/95)

N/A Criteria not available

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-09H FLOOR 4/29/98 | Sample Interval: Date Sampled: 4/29/98 | Units: ug/kg | AOC 33-09I FLOOR 4/29/98 | ug/kg | AOC 33-09J FLOOR 4/29/98 | ug/kg | AOC 33-09K FLOOR 4/29/98 | ug/kg |
|------------------------------------|---|-------------------------------------|--|--------------|--------------------------|-------|--------------------------|-------|--------------------------|-------|
| <u>Volatile Organic Compounds:</u> | | | | | | | | | | |
| Chloromethane | N/A | <5 | | | <5 | | <5 | | <5 | |
| Bromomethane | N/A | <5 | | | <5 | | <5 | | <5 | |
| Vinyl Chloride | 200 | <5 | | | <5 | | <5 | | <5 | |
| Chloroethane | 1,900 | <5 | | | <5 | | <5 | | <5 | |
| Methylene Chloride | 100 | <5 | | | <5 | | <5 | | <5 | |
| Acetone | 200 | <51 | | | <51 | | <51 | | <51 | |
| Carbon disulfide | 2,700 | <5 | | | <5 | | <5 | | <5 | |
| 1,1 Dichloroethene | 400 | <5 | | | <5 | | <5 | | <5 | |
| 1,1 Dichloroethane | 200 | <5 | | | <5 | | <5 | | <5 | |
| 1,2 Dichloroethene | 250 | <10 | | | <10 | | <10 | | <10 | |
| Chloroform | 300 | <5 | | | <5 | | <5 | | <5 | |
| 1,2 Dichloroethane | 100 | <5 | | | <5 | | <5 | | <5 | |
| 2-Butanone | 300 | <51 | | | <51 | | <51 | | <51 | |
| 111 Trichloroethane | 800 | <5 | | | <5 | | <5 | | <5 | |
| Carbon Tetrachloride | 600 | <5 | | | <5 | | <5 | | <5 | |
| Bromodichloromethane | N/A | <5 | | | <5 | | <5 | | <5 | |
| 1,2 Dichloropropane | N/A | <5 | | | <5 | | <5 | | <5 | |
| c-1,3Dichloropropene | N/A | <5 | | | <5 | | <5 | | <5 | |
| Trichloroethene | 700 | <5 | | | <5 | | <5 | | <5 | |
| Chlorodibromomethane | N/A | <5 | | | <5 | | <5 | | <5 | |
| 112 Trichloroethane | N/A | <5 | | | <5 | | <5 | | <5 | |
| Benzene | 60 | <5 | | | <5 | | <5 | | <5 | |
| t-1,3Dichloropropene | N/A | <5 | | | <5 | | <5 | | <5 | |
| Bromoform | N/A | <5 | | | <5 | | <5 | | <5 | |
| 4-Methyl-2-Pentanone | 1,000 | <51 | | | <51 | | <51 | | <51 | |
| 2-Hexanone | N/A | <51 | | | <51 | | <51 | | <51 | |
| Tetrachloroethene | 1,400 | <5 | | | <5 | | <5 | | <5 | |
| Toluene | 1,500 | <5 | | | <5 | | <5 | | <5 | |
| 1122Tetrachloroethane | 600 | <5 | | | <5 | | <5 | | <5 | |

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: Sample Interval: Date Sampled: Units: | AOC 33-09H | | AOC 33-09I | | AOC 33-09J | | AOC 33-09K | |
|---------------|--|---|------------|---------|------------|---------|------------|---------|------------|---------|
| | | | FLOOR | 4/29/98 | FLOOR | 4/29/98 | FLOOR | 4/29/98 | FLOOR | 4/29/98 |
| Chlorobenzene | 1,700 | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethyl Benzene | 5,500 | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Styrene | N/A | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o Xylene | 1,200 | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m+p Xylene | 1,200 | | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Xylene | 1,200 | | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| % Solids | | | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.

Bold entries are concentrations in exceedence of NYSDEC TAGM criteria.

ug/kg Micrograms per kilogram

NYSDEC New York State Department of Environmental Conservation

¹ NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 (Rev. 4/95)

N/A Criteria not available

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: | | AOC 33-09L | | AOC 33-09M | | AOC 33-09N | | AOC 33-09O | | AOC 33-09P | |
|-------------------------------------|---|------------------|---------------|------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|
| | | Sample Interval: | Date Sampled: | FLOOR | 4/29/98 | FLOOR | 4/29/98 | FLOOR | 4/29/98 | FLOOR | 4/29/98 | FLOOR | 4/29/98 |
| | | | Units: | | ug/kg | | ug/kg | | ug/kg | | ug/kg | | ug/kg |
| <u>Volatiles Organic Compounds:</u> | | | | | | | | | | | | | |
| Chloromethane | N/A | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| Bromomethane | N/A | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| Vinyl Chloride | 200 | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| Chloroethane | 1,900 | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| Methylene Chloride | 100 | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| Acetone | 200 | | | <51 | | <51 | | <51 | | <51 | | <51 | |
| Carbon disulfide | 2,700 | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| 1,1 Dichloroethene | 400 | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| 1,1 Dichloroethane | 200 | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| 1,2 Dichloroethene | 250 | | | <10 | | <10 | | <10 | | <10 | | <10 | |
| Chloroform | 300 | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| 1,2 Dichloroethane | 100 | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| 2-Butanone | 300 | | | <51 | | <51 | | <51 | | <51 | | <51 | |
| 111 Trichloroethane | 800 | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| Carbon Tetrachloride | 600 | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| Bromodichloromethane | N/A | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| 1,2 Dichloropropane | N/A | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| c-1,3Dichloropropene | N/A | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| Trichloroethene | 700 | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| Chlorodibromomethane | N/A | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| 112 Trichloroethane | N/A | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| Benzene | 60 | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| t-1,3Dichloropropene | N/A | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| Bromoform | N/A | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| 4-Methyl-2-Pentanone | 1,000 | | | <51 | | <51 | | <51 | | <51 | | <51 | |
| 2-Hexanone | N/A | | | <51 | | <51 | | <51 | | <51 | | <51 | |
| Tetrachloroethene | 1,400 | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| Toluene | 1,500 | | | <5 | | <5 | | <5 | | <5 | | <5 | |
| 1122Tetrachloroethane | 600 | | | <5 | | <5 | | <5 | | <5 | | <5 | |

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-09L | | AOC 33-09M | | AOC 33-09N | | AOC 33-09O | | AOC 33-09P | |
|---------------|---|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|
| | | Sample Interval: FLOOR | Date Sampled: 4/29/98 | Sample Interval: FLOOR | Date Sampled: 4/29/98 | Sample Interval: FLOOR | Date Sampled: 4/29/98 | Sample Interval: FLOOR | Date Sampled: 4/29/98 | Sample Interval: FLOOR | Date Sampled: 4/29/98 |
| | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Chlorobenzene | 1,700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethyl Benzene | 5,500 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Styrene | N/A | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| o Xylene | 1,200 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| m+p Xylene | 1,200 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Xylene | 1,200 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| % Solids | | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.

Bold entries are concentrations in exceedence of NYSDEC TAGM criteria.

ug/kg Micrograms per kilogram

NYSDEC New York State Department of Environmental Conservation

1 NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 (Rev. 4/95)

N/A Criteria not available

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: Sample Interval: Date Sampled: Units: | AOC 33-09A 2-4' 2/25/98 ug/kg | AOC 33-09A 6-8' 2/25/98 ug/kg | AOC 33-09A 8-10' 4/29/98 ug/kg | AOC 33-09B1 5-7' 4/29/98 ug/kg |
|--|--|---|--|--|---|---|
| <u>Semivolatile Organic Compounds:</u> | | | | | | |
| N-Nitrosodimethylamine | N/A | | <31 | <31 | <30 | <30 |
| Bis (2-Chloroethyl) ether | N/A | | <31 | <31 | <30 | <30 |
| 1,3-Dichlorobenzene | N/A | | <31 | <31 | <30 | <30 |
| 1,4-Dichlorobenzene | N/A | | <31 | <31 | <30 | <30 |
| 1,2-Dichlorobenzene | N/A | | <31 | <31 | <30 | <30 |
| Bis (2-chloroisopropyl) ether | N/A | | <31 | <31 | <30 | <30 |
| N-Nitrosodi-n-propylamine | N/A | | <31 | <31 | <30 | <30 |
| Hexachloroethane | N/A | | <31 | <31 | <30 | <30 |
| Nitrobenzene | 200 | | <31 | <31 | <30 | <30 |
| Isophorone | 4400 | | <31 | <31 | <30 | <30 |
| Bis (2-chloroethoxy) methane | N/A | | <31 | <31 | <30 | <30 |
| 124-Trichlorobenzene | N/A | | <31 | <31 | <30 | <30 |
| Naphthalene | 13000 | | <31 | <31 | <30 | <30 |
| Hexachlorobutadiene | N/A | | <31 | <31 | <30 | <30 |
| Hexachlorocyclopentadiene | N/A | | <31 | <31 | <30 | <30 |
| 2-Chloronaphthalene | N/A | | <310 | <310 | <300 | <300 |
| Dimethyl Phthalate | N/A | | <31 | <31 | <30 | <30 |
| Acenaphthylene | 41000 | | <31 | <31 | <30 | <30 |
| 2,6-Dinitrotoluene | 1000 | | <31 | <31 | <30 | <30 |
| Acenaphthene | 50000 | | <31 | <31 | <30 | <30 |
| 2,4-Dinitrotoluene | N/A | | <31 | <31 | <30 | <30 |
| Diethyl Phthalate | N/A | | <31 | <31 | <30 | <30 |
| Fluorene | 50000 | | <31 | <31 | <30 | <30 |
| 4-Chlorophenyl phenyl ether | N/A | | <31 | <31 | <30 | <30 |
| N-Nitrosodiphenylamine | N/A | | <31 | <31 | <30 | <30 |
| 1,2-Diphenylhydrazine | N/A | | <31 | <31 | <30 | <30 |
| 4-Bromophenyl phenyl ether | N/A | | <31 | <31 | <30 | <30 |
| Hexachlorobenzene | 410 | | <31 | <31 | <30 | <30 |
| Phenanthrene | 50000 | | <31 | <31 | <30 | <300 |

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-09A | Sample Interval: 2-4' | Date Sampled: 2/25/98 | Units: ug/kg | AOC 33-09A 6-8' | Date Sampled: 2/25/98 | Units: ug/kg | AOC 33-09A 8-10' | Date Sampled: 4/29/98 | Units: ug/kg | AOC 33-09B1 5-7' | Date Sampled: 4/29/98 | Units: ug/kg |
|----------------------------------|---|-----------------------|-----------------------|-----------------------|--------------|-----------------|-----------------------|--------------|------------------|-----------------------|--------------|-------------------|-----------------------|--------------|
| Anthracene | 50000 | | <31 | | | <31 | | | <30 | | | 36 | | |
| Di-n-Butyl Phthalate | 8100 | | <31 | | | <31 | | | <30 | | | <30 | | |
| Fluoranthene | 50000 | | <31 | | | <31 | | | <30 | | | 360 | | |
| Benzidine | N/A | | <310 | | | <310 | | | <30 | | | <30 | | |
| Pyrene | 5000 | | <31 | | | <31 | | | <30 | | | 280 | | |
| Benzyl Butyl Phthalate | N/A | | <31 | | | <31 | | | <30 | | | <30 | | |
| Benzo (a) anthracene* | 224 | | <31 | | | <31 | | | <30 | | | 120 | | |
| 3,3-Dichlorobenzidine | N/A | | <310 | | | <310 | | | <300 | | | <300 | | |
| Chrysene* | 400 | | <31 | | | <31 | | | <30 | | | 160 | | |
| Bis (2-ethylhexyl) phthalate | 50000 | | 32 | | | <31 | | | <30 | | | <30 | | |
| Di-n-octyl Phthalate | 50000 | | <31 | | | <31 | | | <30 | | | <30 | | |
| Benzo (b) fluoranthene* | 224 | | <31 | | | <31 | | | <30 | | | 120 ^{AA} | | |
| Benzo (k) fluoranthene* | 224 | | <31 | | | <31 | | | <30 | | | 120 ^{AA} | | |
| Benzo (a) pyrene* | 61 | | <31 | | | <31 | | | <30 | | | 110 | | |
| Indeno (1,2,3-cd) pyrene* | 3200 | | <31 | | | <31 | | | <30 | | | 95 | | |
| Dibenzo (a,h) anthracene* | 14 | | <31 | | | <31 | | | <30 | | | 37 | | |
| Benzo (ghi) perylene | N/A | | <31 | | | <31 | | | <30 | | | 100 | | |
| *TOTAL CARCINOGENIC SVOCs | 10,000 ug/kg | | ND | | | ND | | | ND | | | 762 ug/kg | | |
| TOTAL SVOCs | 500,000 ug/kg | | 32 ug/kg | | | ND | | | ND | | | 1538 ug/kg | | |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.
 Bold entries are concentrations in exceedence of NYSDEC TAGM criteria.
 ug/kg Micrograms per kilogram
 NYSDEC New York State Department of Environmental Conservation
 1 NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 (Rev. 4/95)
 ND Below Detection Limits
 N/A Criteria not available
 * Total Carcinogenic SVOC's limit is < 10ppm as per TAGM #4046

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-09B1 | | AOC 33-09C | AOC 33-09C | AOC 33-09C |
|--|--|-----------------------------------|------------------|-----------------|-----------------|------------------|
| | | Sample Interval: Date Sampled: | 8-10' 4/29/98 | 2-4' 2/25/98 | 6-8' 2/25/98 | 8-10' 2/25/98 |
| | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| <u>Semivolatile Organic Compounds:</u> | | | | | | |
| N-Nitrosodimethylamine | N/A | <30 | <31 | <30 | <30 | <30 |
| Bis (2-Chloroethyl) ether | N/A | <30 | <31 | <30 | <30 | <30 |
| 1,3-Dichlorobenzene | N/A | <30 | <31 | <30 | <30 | <30 |
| 1,4-Dichlorobenzene | N/A | <30 | <31 | <30 | <30 | <30 |
| 1,2-Dichlorobenzene | N/A | <30 | <31 | 31 | <30 | 50 |
| Bis (2-chloroisopropyl) ether | N/A | <30 | <31 | <30 | <30 | <30 |
| N-Nitrosodi-n-propylamine | N/A | <30 | <31 | <30 | <30 | <30 |
| Hexachloroethane | N/A | <30 | <31 | <30 | <30 | <30 |
| Nitrobenzene | 200 | <30 | <31 | <30 | <30 | <30 |
| Isophorone | 4400 | <30 | <31 | <30 | <30 | <30 |
| Bis (2-chloroethoxy) methane | N/A | <30 | <31 | <30 | <30 | <30 |
| 124-Trichlorobenzene | N/A | <30 | <31 | <30 | <30 | <30 |
| Naphthalene | 13000 | <30 | <31 | <30 | <30 | 130 |
| Hexachlorobutadiene | N/A | <30 | <31 | <30 | <30 | <30 |
| Hexachlorocyclopentadiene | N/A | <300 | <310 | <300 | <300 | <300 |
| 2-Chloronaphthalene | N/A | <30 | <31 | <30 | <30 | <30 |
| Dimethyl Phthalate | N/A | <30 | <31 | <30 | <30 | <30 |
| Acenaphthylene | 41000 | <30 | <31 | <30 | <30 | <30 |
| 2,6-Dinitrotoluene | 1000 | <30 | <31 | <30 | <30 | <30 |
| Acenaphthene | 50000 | <30 | <31 | <30 | <30 | 300 |
| 2,4-Dinitrotoluene | N/A | <30 | <31 | <30 | <30 | <30 |
| Diethyl Phthalate | N/A | <30 | <31 | <30 | <30 | <30 |
| Fluorene | 50000 | <30 | <31 | <30 | <30 | 260 |
| 4-Chlorophenyl phenyl ether | N/A | <30 | <31 | <30 | <30 | <30 |
| N-Nitrosodiphenylamine | N/A | <30 | <31 | <30 | <30 | <30 |
| 1,2-Diphenylhydrazine | N/A | <30 | <31 | <30 | <30 | <30 |
| 4-Bromophenyl phenyl ether | N/A | <30 | <31 | <30 | <30 | <30 |
| Hexachlorobenzene | 410 | <30 | <31 | <30 | <30 | <30 |
| Phenanthrene | 50000 | <30 | 230 | <30 | <30 | 3400 |

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: Sample Interval: Date Sampled: Units: | AOC 33-09B1 8-10' 4/29/98 ug/kg | AOC 33-09C 2-4' 2/25/98 ug/kg | AOC 33-09C 6-8' 2/25/98 ug/kg | AOC 33-09C 8-10' 2/25/98 ug/kg |
|----------------------------------|---|--|---------------------------------|-------------------------------|-------------------------------|--------------------------------|
| Anthracene | 50000 | | <30 | 33 | <30 | 620 |
| Di-n-Butyl Phthalate | 8100 | | <30 | <31 | <30 | <30 |
| Fluoranthene | 50000 | | <30 | 290 | <30 | 3800 |
| Benzidine | N/A | | <30 | <310 | <300 | <300 |
| Pyrene | 5000 | | <30 | 250 | <30 | 3000 |
| Benzyl Butyl Phthalate | N/A | | <30 | <31 | <30 | <30 |
| Benzo (a) anthracene* | 224 | | <30 | 100 | <30 | 1300 |
| 3,3'-Dichlorobenzidine | N/A | | <300 | <310 | <300 | <300 |
| Chrysene* | 400 | | <30 | 120 | <30 | 1300 |
| Bis (2-ethylhexyl) phthalate | 50000 | | <30 | <31 | <30 | 210 |
| Di-n-octyl Phthalate | 50000 | | <30 | <31 | <30 | 56 |
| Benzo (b) fluoranthene* | 224 | | <30 | 90 ^{AA} | <30 | 1150 ^{AA} |
| Benzo (k) fluoranthene* | 224 | | <30 | 90 ^{AA} | <30 | 1150 ^{AA} |
| Benzo (a) pyrene* | 61 | | <30 | 86 | <30 | 1100 |
| Indeno (1,2,3-cd) pyrene* | 3200 | | <30 | 47 | <30 | 450 |
| Dibenzo (a,h) anthracene* | 14 | | <30 | <31 | <30 | 210 |
| Benzo (ghi) perylene | N/A | | <30 | 47 | <30 | 400 |
| *TOTAL CARCINOGENIC SVOCs | 10,000 ug/kg | | ND | 533 ug/kg | ND | 6,660 ug/kg |
| TOTAL SVOCs | 500,000 ug/kg | | ND | 580 ug/kg | 31 | 18,886 ug/kg |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.
 Bold entries are concentrations in exceedence of NYSDEC TAGM criteria.
 ug/kg Micrograms per kilogram
 NYSDEC New York State Department of Environmental Conservation
 1 NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 (Rev. 4/95)
 ND Below Detection Limits
 N/A Criteria not available
 * Total Carcinogenic SVOC's limit is < 10ppm as per TAGM #4046

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-09D | Sample Interval: 2-4' | Date Sampled: 2/25/98 | Units: ug/kg | AOC 33-09D 6-8' | Date Sampled: 2/25/98 | Units: ug/kg | AOC 33-09D 8-10' | Date Sampled: 4/29/98 | Units: ug/kg | AOC 33-09E 2-4' | Date Sampled: 2/25/98 | Units: ug/kg |
|--|---|-----------------------|-----------------------|-----------------------|--------------|-----------------|-----------------------|--------------|------------------|-----------------------|--------------|-----------------|-----------------------|--------------|
| <u>Semivolatile Organic Compounds:</u> | | | | | | | | | | | | | | |
| N-Nitrosodimethylamine | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| Bis (2-Chloroethyl) ether | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| 1,3-Dichlorobenzene | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| 1,4-Dichlorobenzene | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| 1,2-Dichlorobenzene | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| Bis (2-chloroisopropyl) ether | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| N-Nitrosodi-n-propylamine | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| Hexachloroethane | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| Nitrobenzene | 200 | | <30 | | | <30 | | | <30 | | | <31 | | |
| Isophorone | 4400 | | <30 | | | <30 | | | <30 | | | <31 | | |
| Bis (2-chloroethoxy) methane | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| 124-Trichlorobenzene | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| Naphthalene | 13000 | | <30 | | | <30 | | | <30 | | | <31 | | |
| Hexachlorobutadiene | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| Hexachlorocyclopentadiene | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| 2-Chloronaphthalene | N/A | | <300 | | | <300 | | | <300 | | | <310 | | |
| Dimethyl Phthalate | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| Acenaphthylene | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| 2,6-Dinitrotoluene | 41000 | | <30 | | | <30 | | | <30 | | | <31 | | |
| Acenaphthene | 1000 | | <30 | | | <30 | | | <30 | | | <31 | | |
| 2,4-Dinitrotoluene | 50000 | | <30 | | | <30 | | | <30 | | | <31 | | |
| Diethyl Phthalate | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| Fluorene | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| 4-Chlorophenyl phenyl ether | 50000 | | <30 | | | <30 | | | <30 | | | <31 | | |
| N-Nitrosodiphenylamine | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| 1,2-Diphenylhydrazine | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| 4-Bromophenyl phenyl ether | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| Hexachlorobenzene | N/A | | <30 | | | <30 | | | <30 | | | <31 | | |
| Phenanthrene | 410 | | <30 | | | <30 | | | <30 | | | <31 | | |
| | 50000 | | <30 | | | <30 | | | <30 | | | <31 | | |

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-09D | Sample Interval: 2-4' | Date Sampled: 2/25/98 | Units: ug/kg | AOC 33-09D 6-8' | Date Sampled: 2/25/98 | Units: ug/kg | AOC 33-09D 8-10' | Date Sampled: 4/29/98 | Units: ug/kg | AOC 33-09E 2-4' | Date Sampled: 2/25/98 | Units: ug/kg |
|----------------------------------|---|-----------------------|-----------------------|-----------------------|--------------|-----------------|-----------------------|--------------|------------------|-----------------------|--------------|-----------------|-----------------------|--------------|
| Anthracene | 50000 | | | | | <30 | | | <30 | | | <31 | | |
| Di-n-Butyl Phthalate | 8100 | | | | | <30 | | | <30 | | | <31 | | |
| Fluoranthene | 50000 | | | | | <30 | | | <30 | | | <31 | | |
| Benzidine | N/A | | | | | <300 | | | <30 | | | <310 | | |
| Pyrene | 5000 | | | | | <30 | | | <30 | | | <31 | | |
| Benzyl Butyl Phthalate | N/A | | | | | <30 | | | <30 | | | <31 | | |
| Benzo (a) anthracene* | 224 | | | | | <30 | | | <30 | | | <31 | | |
| 3,3'-Dichlorobenzidine | N/A | | | | | <300 | | | <300 | | | <310 | | |
| Chrysene* | 400 | | | | | <30 | | | <30 | | | <31 | | |
| Bis (2-ethylhexyl) phthalate | 50000 | | | | | <30 | | | <30 | | | 65 | | |
| Di-n-octyl Phthalate | 50000 | | | | | <30 | | | <30 | | | <31 | | |
| Benzo (b) fluoranthene* | 224 | | | | | <30 | | | <30 | | | <31 | | |
| Benzo (k) fluoranthene* | 224 | | | | | <30 | | | <30 | | | <31 | | |
| Benzo (a) pyrene* | 61 | | | | | <30 | | | <30 | | | <31 | | |
| Indeno (1,2,3-cd) pyrene* | 3200 | | | | | <30 | | | <30 | | | <31 | | |
| Dibenzo (a,h) anthracene* | 14 | | | | | <30 | | | <30 | | | <31 | | |
| Benzo (ghi) perylene | N/A | | | | | <30 | | | <30 | | | <31 | | |
| *TOTAL CARCINOGENIC SVOCs | 10,000 ug/kg | | | | | ND | | | ND | | | ND | | |
| TOTAL SVOCs | 500,000 ug/kg | | | | | ND | | | ND | | | 65 ug/kg | | |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.

Bold entries are concentrations in exceedence of NYSDEC TAGM criteria.

ug/kg Micrograms per kilogram

NYSDEC New York State Department of Environmental Conservation

1 NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 (Rev. 4/95)

ND Below Detection Limits

N/A Criteria not available

* Total Carcinogenic SVOC's limit is < 10ppm as per TAGM #4046

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: Sample Interval: Date Sampled: Units: | AOC 33-09E 5-7' 4/29/98 ug/kg | AOC 33-09F 5-7' 2/24/98 ug/kg | AOC 33-09H FLOOR 4/29/98 ug/kg | AOC 33-09I FLOOR 4/29/98 ug/kg |
|--|---|--|-------------------------------|-------------------------------|--------------------------------|--------------------------------|
| <u>Semivolatile Organic Compounds:</u> | | | | | | |
| N-Nitrosodimethylamine | N/A | | <30 | <32 | <30 | <30 |
| Bis (2-Chloroethyl) ether | N/A | | <30 | <32 | <30 | <30 |
| 1,3-Dichlorobenzene | N/A | | <30 | <32 | <30 | <30 |
| 1,4-Dichlorobenzene | N/A | | <30 | <32 | <30 | <30 |
| 1,2-Dichlorobenzene | N/A | | <30 | <32 | <30 | <30 |
| Bis (2-chloroisopropyl) ether | N/A | | <30 | <32 | <30 | <30 |
| N-Nitrosodi-n-propylamine | N/A | | <30 | <32 | <30 | <30 |
| Hexachloroethane | N/A | | <30 | <32 | <30 | <30 |
| Nitrobenzene | 200 | | <30 | <32 | <30 | <30 |
| Isophorone | 4400 | | <30 | <32 | <30 | <30 |
| Bis (2-chloroethoxy) methane | N/A | | <30 | <32 | <30 | <30 |
| 124-Trichlorobenzene | N/A | | <30 | <32 | <30 | <30 |
| Naphthalene | 13000 | | <30 | <32 | <30 | <30 |
| Hexachlorobutadiene | N/A | | <30 | <320 | <30 | <30 |
| Hexachlorocyclopentadiene | N/A | | <300 | <32 | <300 | <300 |
| 2-Chloronaphthalene | N/A | | <30 | <32 | <30 | <30 |
| Dimethyl Phthalate | N/A | | <30 | <32 | <30 | <30 |
| Acenaphthylene | 41000 | | <30 | <32 | <30 | <30 |
| 2,6-Dinitrotoluene | 1000 | | <30 | <32 | <30 | <30 |
| Acenaphthene | 50000 | | <30 | <32 | <30 | <30 |
| 2,4-Dinitrotoluene | N/A | | <30 | <32 | <30 | <30 |
| Diethyl Phthalate | N/A | | <30 | <32 | <30 | <30 |
| Fluorene | 50000 | | <30 | <32 | <30 | <30 |
| 4-Chlorophenyl phenyl ether | N/A | | <30 | <32 | <30 | <30 |
| N-Nitrosodiphenylamine | N/A | | <30 | <32 | <30 | <30 |
| 1,2-Diphenylhydrazine | N/A | | <30 | <32 | <30 | <30 |
| 4-Bromophenyl phenyl ether | N/A | | <30 | <32 | <30 | <30 |
| Hexachlorobenzene | 410 | | <30 | <32 | <30 | <30 |
| Phenanthrene | 50000 | | <30 | <32 | <30 | <30 |

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-09E | Sample Interval: 5-7' | Date Sampled: 4/29/98 | Units: ug/kg | AOC 33-09F | Sample ID: AOC 33-09F | Sample Interval: 5-7' | Date Sampled: 2/24/98 | Units: ug/kg | AOC 33-09H | Sample ID: AOC 33-09H | Sample Interval: FLOOR | Date Sampled: 4/29/98 | Units: ug/kg | AOC 33-09I | Sample ID: AOC 33-09I | Sample Interval: FLOOR | Date Sampled: 4/29/98 | Units: ug/kg |
|----------------------------------|---|-----------------------|-----------------------|-----------------------|--------------|------------|-----------------------|-----------------------|-----------------------|--------------|------------------|-----------------------|------------------------|-----------------------|--------------|-----------------|-----------------------|------------------------|-----------------------|-----------------|
| Anthracene | 50000 | | | | | <30 | | | | | <30 | | | | | <30 | | | | <30 |
| Di-n-Butyl Phthalate | 8100 | | | | | <30 | | | | | <30 | | | | | <30 | | | | <30 |
| Fluoranthene | 50000 | | | | | <30 | | | | | 39 | | | | | 32 | | | | 32 |
| Benzidine | N/A | | | | | <30 | | | | | <30 | | | | | <30 | | | | <30 |
| Pyrene | 5000 | | | | | <30 | | | | | 47 | | | | | <30 | | | | <30 |
| Benzyl Butyl Phthalate | N/A | | | | | <30 | | | | | <30 | | | | | <30 | | | | <30 |
| Benzo (a) anthracene* | 224 | | | | | <30 | | | | | <30 | | | | | <30 | | | | <30 |
| 3,3'-Dichlorobenzidine | N/A | | | | | <300 | | | | | <320 | | | | | <300 | | | | <300 |
| Chrysene* | 400 | | | | | <30 | | | | | 38 | | | | | <30 | | | | <30 |
| Bis (2-ethylhexyl) phthalate | 50000 | | | | | <30 | | | | | 62 | | | | | <30 | | | | <30 |
| Di-n-octyl Phthalate | 50000 | | | | | <30 | | | | | <30 | | | | | <30 | | | | <30 |
| Benzo (b) fluoranthene* | 224 | | | | | <30 | | | | | <30 | | | | | <30 | | | | <30 |
| Benzo (k) fluoranthene* | 224 | | | | | <30 | | | | | <30 | | | | | <30 | | | | <30 |
| Benzo (a) pyrene* | 61 | | | | | <30 | | | | | <30 | | | | | <30 | | | | <30 |
| Indeno (1,2,3-cd) pyrene* | 3200 | | | | | <30 | | | | | <30 | | | | | <30 | | | | <30 |
| Dibenzo (a,h) anthracene* | 14 | | | | | <30 | | | | | <30 | | | | | <30 | | | | <30 |
| Benzo (ghi) perylene | N/A | | | | | <30 | | | | | <30 | | | | | <30 | | | | <30 |
| *TOTAL CARCINOGENIC SVOCs | 10,000 ug/kg | | | | | ND | | | | | 38 ug/kg | | | | | ND | | | | ND |
| TOTAL SVOCs | 500,000 ug/kg | | | | | ND | | | | | 217 ug/kg | | | | | 39 ug/kg | | | | 32 ug/kg |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.
 Bold entries are concentrations in exceedence of NYSDEC TAGM criteria.
 ug/kg Micrograms per kilogram
 NYSDEC New York State Department of Environmental Conservation
 1 NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 (Rev. 4/95)
 ND Below Detection Limits
 N/A Criteria not available
 * Total Carcinogenic SVOC's limit is < 10ppm as per TAGM #4046

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-09J | Sample Interval: FLOOR | Date Sampled: 4/29/98 | Units: ug/kg | AOC 33-09K FLOOR 4/29/98 | ug/kg | AOC 33-09L FLOOR 4/29/98 | ug/kg | AOC 33-09M FLOOR 4/29/98 | ug/kg |
|---|---|-----------------------|------------------------|-----------------------|--------------|--------------------------|-------|--------------------------|-------|--------------------------|-------|
| <u>Semi-volatile Organic Compounds:</u> | | | | | | | | | | | |
| N-Nitrosodimethylamine | N/A | | | | <30 | | | | | <30 | |
| Bis (2-Chloroethyl) ether | N/A | | | | <30 | | | | | <30 | |
| 1,3-Dichlorobenzene | N/A | | | | <30 | | | | | <30 | |
| 1,4-Dichlorobenzene | N/A | | | | <30 | | | | | <30 | |
| 1,2-Dichlorobenzene | N/A | | | | <30 | | | | | <30 | |
| Bis (2-chloroisopropyl) ether | N/A | | | | <30 | | | | | <30 | |
| N-Nitrosodi-n-propylamine | N/A | | | | <30 | | | | | <30 | |
| Hexachloroethane | N/A | | | | <30 | | | | | <30 | |
| Nitrobenzene | 200 | | | | <30 | | | | | <30 | |
| Isophorone | 4400 | | | | <30 | | | | | <30 | |
| Bis (2-chloroethoxy) methane | N/A | | | | <30 | | | | | <30 | |
| 124-Trichlorobenzene | N/A | | | | <30 | | | | | <30 | |
| Naphthalene | 13000 | | | | <30 | | | | | <30 | |
| Hexachlorobutadiene | N/A | | | | <30 | | | | | <30 | |
| Hexachlorocyclopentadiene | N/A | | | | <30 | | | | | <30 | |
| 2-Chloronaphthalene | N/A | | | | <300 | | | | | <300 | |
| Dimethyl Phthalate | N/A | | | | <30 | | | | | <30 | |
| Acenaphthylene | N/A | | | | <30 | | | | | <30 | |
| 2,6-Dinitrotoluene | 41000 | | | | <30 | | | | | <30 | |
| Acenaphthene | 1000 | | | | <30 | | | | | <30 | |
| 2,4-Dinitrotoluene | 50000 | | | | <30 | | | | | <30 | |
| Diethyl Phthalate | N/A | | | | <30 | | | | | <30 | |
| Fluorene | N/A | | | | <30 | | | | | <30 | |
| 4-Chlorophenyl phenyl ether | 50000 | | | | <30 | | | | | <30 | |
| N-Nitrosodiphenylamine | N/A | | | | <30 | | | | | <30 | |
| 1,2-Diphenylhydrazine | N/A | | | | <30 | | | | | <30 | |
| 4-Bromophenyl phenyl ether | N/A | | | | <30 | | | | | <30 | |
| Hexachlorobenzene | N/A | | | | <30 | | | | | <30 | |
| Phenanthrene | 410 | | | | <30 | | | | | <30 | |
| | 50000 | | | | <30 | | | | | 240 | |

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-09J | | AOC 33-09K | | AOC 33-09L | | AOC 33-09M | |
|----------------------------------|---|--------------------------|-----------------------|------------|-----------|------------|-----------|-------------------|-------|
| | | Sample Interval: 4/29/98 | Date Sampled: 4/29/98 | FLOOR | FLOOR | FLOOR | FLOOR | FLOOR | FLOOR |
| | Units: | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Anthracene | 50000 | <30 | <30 | <30 | <30 | <30 | <30 | 54 | |
| Di-n-Butyl Phthalate | 8100 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | |
| Fluoranthene | 50000 | <30 | <30 | <30 | <30 | <30 | <30 | 290 | |
| Benzidine | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | |
| Pyrene | 5000 | <30 | <30 | <30 | <30 | <30 | <30 | 230 | |
| Benzyl Butyl Phthalate | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | |
| Benzo (a) anthracene* | 224 | <30 | <30 | <30 | <30 | <30 | <30 | 140 | |
| 3,3'-Dichlorobenzidine | N/A | <300 | <300 | <300 | <300 | <300 | <300 | <300 | |
| Chrysene* | 400 | <30 | <30 | <30 | <30 | <30 | <30 | 130 | |
| Bis (2-ethylhexyl) phthalate | 50000 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | |
| Di-n-octyl Phthalate | 50000 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | |
| Benzo (b) fluoranthene* | 224 | <30 | <30 | <30 | <30 | <30 | <30 | 105 ^{AA} | |
| Benzo (k) fluoranthene* | 224 | <30 | <30 | <30 | <30 | <30 | <30 | 105 ^{AA} | |
| Benzo (a) pyrene* | 61 | <30 | <30 | <30 | <30 | <30 | <30 | 110 | |
| Indeno (1,2,3-cd) pyrene* | 3200 | <30 | <30 | <30 | <30 | <30 | <30 | 78 | |
| Dibenzo (a,h) anthracene* | 14 | <30 | <30 | <30 | <30 | <30 | <30 | 38 | |
| Benzo (ghi) perylene | N/A | <30 | <30 | <30 | <30 | <30 | <30 | 77 | |
| *TOTAL CARCINOGENIC SVOCs | 10,000 ug/kg | ND | ND | ND | ND | ND | ND | 706 ug/kg | |
| TOTAL SVOCs | 500,000 ug/kg | ND | ND | ND | ND | ND | ND | 1597 ug/kg | |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.
 Bold entries are concentrations in exceedence of NYSDEC TAGM criteria.
 ug/kg Micrograms per kilogram
 NYSDEC New York State Department of Environmental Conservation
 1 NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 (Rev. 4/95)
 ND Below Detection Limits
 N/A Criteria not available
 * Total Carcinogenic SVOC's limit is < 10ppm as per TAGM #4046

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: Sample Interval: Date Sampled: Units: | AOC 33-09N FLOOR 4/29/98 ug/kg | AOC 33-09O FLOOR 4/29/98 ug/kg | AOC 33-09P FLOOR 4/29/98 ug/kg |
|--|---|--|--------------------------------|--------------------------------|--------------------------------|
| <u>Semivolatile Organic Compounds:</u> | | | | | |
| N-Nitrosodimethylamine | N/A | | <30 | <31 | <30 |
| Bis (2-Chloroethyl) ether | N/A | | <30 | <31 | <30 |
| 1,3-Dichlorobenzene | N/A | | <30 | <31 | <30 |
| 1,4-Dichlorobenzene | N/A | | <30 | <31 | <30 |
| 1,2-Dichlorobenzene | N/A | | <30 | <31 | <30 |
| Bis (2-chloroisopropyl) ether | N/A | | <30 | <31 | <30 |
| N-Nitrosodi-n-propylamine | N/A | | <30 | <31 | <30 |
| Hexachloroethane | N/A | | <30 | <31 | <30 |
| Nitrobenzene | 200 | | <30 | <31 | <30 |
| Isophorone | 4000 | | <30 | <31 | <30 |
| Bis (2-chloroethoxy) methane | N/A | | <30 | <31 | <30 |
| 124-Trichlorobenzene | N/A | | <30 | <31 | <30 |
| Naphthalene | 13000 | | <30 | <31 | <30 |
| Hexachlorobutadiene | N/A | | <30 | <31 | <30 |
| Hexachlorocyclopentadiene | N/A | | <300 | <310 | <300 |
| 2-Chloronaphthalene | N/A | | <30 | <31 | <30 |
| Dimethyl Phthalate | N/A | | <30 | <31 | <30 |
| Acenaphthylene | 41000 | | <30 | <31 | <30 |
| 2,6-Dinitrotoluene | 1000 | | <30 | <31 | <30 |
| Acenaphthene | 50000 | | <30 | <31 | <30 |
| 2,4-Dinitrotoluene | N/A | | <30 | <31 | <30 |
| Diethyl Phthalate | N/A | | <30 | <31 | <30 |
| Fluorene | 50000 | | <30 | <31 | <30 |
| 4-Chlorophenyl phenyl ether | N/A | | <30 | <31 | <30 |
| N-Nitrosodiphenylamine | N/A | | <30 | <31 | <30 |
| 1,2-Diphenylhydrazine | N/A | | <30 | <31 | <30 |
| 4-Bromophenyl phenyl ether | N/A | | <30 | <31 | <30 |
| Hexachlorobenzene | 410 | | <30 | <31 | <30 |
| Phenanthrene | 50000 | | <30 | <31 | <30 |

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: Sample Interval: Date Sampled: Units: | AOC 33-09N FLOOR 4/29/98 ug/kg | AOC 33-09O FLOOR 4/29/98 ug/kg | AOC 33-09P FLOOR 4/29/98 ug/kg |
|----------------------------------|---|--|--------------------------------|--------------------------------|--------------------------------|
| Anthracene | 50000 | | <30 | <31 | <30 |
| Di-n-Butyl Phthalate | 8100 | | <30 | <31 | <30 |
| Fluoranthene | 50000 | | <30 | <31 | <30 |
| Benzidine | N/A | | <30 | <31 | <30 |
| Pyrene | 5000 | | <30 | <31 | <30 |
| Benzyl Butyl Phthalate | N/A | | <30 | <31 | <30 |
| Benzo (a) anthracene* | 224 | | <30 | <31 | <30 |
| 3,3'-Dichlorobenzidine | N/A | | <300 | <310 | <300 |
| Chrysene* | 400 | | <30 | <31 | <30 |
| Bis (2-ethylhexyl) phthalate | 50000 | | <30 | <31 | <30 |
| Di-n-octyl Phthalate | 50000 | | <30 | <31 | <30 |
| Benzo (b) fluoranthene* | 224 | | <30 | <31 | <30 |
| Benzo (k) fluoranthene* | 224 | | <30 | <31 | <30 |
| Benzo (a) pyrene* | 61 | | <30 | <31 | <30 |
| Indeno (1,2,3-cd) pyrene* | 3200 | | <30 | <31 | <30 |
| Dibenzo (a,h) anthracene* | 14 | | <30 | <31 | <30 |
| Benzo (ghi) perylene | N/A | | <30 | <31 | <30 |
| *TOTAL CARCINOGENIC SVOCs | 10,000 ug/kg | | ND | ND | ND |
| TOTAL SVOCs | 500,000 ug/kg | | ND | ND | ND |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.

Bold entries are concentrations in exceedence of NYSDEC TAGM criteria.

ug/kg Micrograms per kilogram

NYSDEC New York State Department of Environmental Conservation

1 NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 (Rev. 4/95)

ND Below Detection Limits

N/A Criteria not available

* Total Carcinogenic SVOC's limit is < 10ppm as per TAGM #4046

ENCLOSURE 3

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC34A | Sample Interval: 7-9' | Date Sampled: 2/12/98 | Units: ug/kg | AOC34A 15-17' | AOC34A 23-26' | AOC34B 7-9' | AOC34B 15-17' |
|--|---|-------------------|-----------------------|-----------------------|--------------|---------------|---------------|-------------|---------------|
| PCBs | | | | | | | | | |
| Atoclor 1016 | N/A | <860 | | | | <100 | <40 | <100 | <40 |
| Atoclor 1221 | N/A | <860 | | | | <100 | <40 | <100 | <40 |
| Atoclor 1232 | N/A | <860 | | | | <100 | <40 | <100 | <40 |
| Atoclor 1242 | N/A | <860 | | | | <100 | <40 | <100 | <40 |
| Atoclor 1248 | N/A | 8300 | | | | 260 | 130 | 210 | <40 |
| Atoclor 1254 | N/A | <860 | | | | <100 | <40 | <100 | <40 |
| Atoclor 1260 | N/A | <860 | | | | <100 | <40 | <100 | <40 |
| Total PCBs | 10000 | 8300 | | | | 260 | 130 | 210 | 0 |
| Semivolatile Organic Compounds: | | | | | | | | | |
| N-Nitrosodimethylamine | N/A | <32 | | | | <30 | <30 | <30 | <30 |
| Bis (2-Chloroethyl) ether | N/A | <32 | | | | <30 | <30 | <30 | <30 |
| 1,3-Dichlorobenzene | N/A | <32 | | | | <30 | <30 | <30 | <30 |
| 1,4-Dichlorobenzene | N/A | <32 | | | | <30 | <30 | <30 | <30 |
| 1,2-Dichlorobenzene | N/A | <32 | | | | <30 | <30 | <30 | <30 |
| Bis (2-chloroisopropyl) ether | N/A | <32 | | | | <30 | <30 | <30 | <30 |
| N-Nitrosodi-n-propylamine | N/A | <32 | | | | <30 | <30 | <30 | <30 |
| Hexachloroethane | N/A | <32 | | | | <30 | <30 | <30 | <30 |
| Nitrobenzene | 200 | <32 | | | | <30 | <30 | <30 | <30 |
| Isophorone | 4400 | <32 | | | | <30 | <30 | <30 | <30 |
| Bis (2-chloroethoxy) methane | N/A | <32 | | | | <30 | <30 | <30 | <30 |
| 124-Trichlorobenzene | N/A | <32 | | | | <30 | <30 | <30 | <30 |
| Naphthalene | 13000 | 41 | | | | <30 | <30 | <30 | <30 |
| Hexachlorobutadiene | N/A | <32 | | | | <30 | <30 | <30 | <30 |
| Hexachlorocyclopentadiene | N/A | <320 | | | | <300 | <300 | <300 | <300 |
| 2-Chloronaphthalene | N/A | <32 | | | | <30 | <30 | <30 | <30 |
| Dimethyl Phthalate | N/A | <32 | | | | <30 | <30 | <30 | <30 |
| Acenaphthylene | 41000 | <32 | | | | <30 | <30 | <30 | <30 |
| 2,6-Dinitrotoluene | 1000 | <32 | | | | <30 | <30 | <30 | <30 |
| Acenaphthene | 50000 | <32 | | | | <30 | <30 | <30 | <30 |
| 2,4-Dinitrotoluene | N/A | <32 | | | | <30 | <30 | <30 | <30 |
| Diethyl Phthalate | N/A | <32 | | | | <30 | <30 | <30 | <30 |
| Fluorene | 50000 | <32 | | | | <30 | <30 | <30 | <30 |
| 4-Chlorophenyl phenyl ether | N/A | <32 | | | | <30 | <30 | <30 | <30 |
| N-Nitrosodiphenylamine | N/A | <32 | | | | <30 | <30 | <30 | <30 |

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC34A | Sample Interval: 7-9' | Date Sampled: 2/12/98 | Units: ug/kg | AOC34A 15-17' 2/12/98 ug/kg | AOC34B 7-9' 2/12/98 ug/kg | AOC34B 15-17' 2/12/98 ug/kg |
|----------------------------------|---|-------------------|-----------------------|-----------------------|--------------|-----------------------------|---------------------------|-----------------------------|
| 1,2-Diphenylhydrazine | N/A | | | | <32 | <30 | <30 | <30 |
| 4-Bromophenyl phenyl ether | N/A | | | | <32 | <30 | <30 | <30 |
| Hexachlorobenzene | 410 | | | | <32 | <30 | <30 | <30 |
| Phenanthrene | 50000 | | | | <32 | <30 | <30 | <30 |
| Anthracene | 50000 | | | | <32 | <30 | <30 | <30 |
| Dj-n-Butyl Phthalate | 8100 | | | | <32 | <30 | <30 | <30 |
| Fluoranthene | 50000 | | | | <32 | <30 | <30 | <30 |
| Benzidine | N/A | | | | <320 | <300 | <300 | <300 |
| Pyrene | 50000 | | | | <32 | <30 | <30 | <30 |
| Benzyl Butyl Phthalate | N/A | | | | <32 | <30 | <30 | <30 |
| Benzo (a) anthracene* | 224 | | | | <32 | <30 | <30 | <30 |
| 3,3'-Dichlorobenzidine | N/A | | | | <320 | <300 | <300 | <300 |
| Chrysene* | 400 | | | | <32 | <30 | <30 | <30 |
| Bis (2-ethylhexyl) phthalate | 50000 | | | | 400 | 170 | 92 | 32 |
| Di-n-octyl Phthalate | 50000 | | | | <32 | <30 | <30 | <30 |
| Benzo (b) fluoranthene* | 224 | | | | <32 | <30 | <30 | <30 |
| Benzo (k) fluoranthene* | 224 | | | | <32 | <30 | <30 | <30 |
| Benzo (a) pyrene* | 61 | | | | <32 | <30 | <30 | <30 |
| Indeno (1,2,3-cd) pyrene* | 3200 | | | | <32 | <30 | <30 | <30 |
| Dibenzo (a,h) anthracene* | 14 | | | | <32 | <30 | <30 | <30 |
| Benzo (ghi) perylene | N/A | | | | <32 | <30 | <30 | <30 |
| *TOTAL CARCINOGENIC SVOCs | 10,000 ug/kg | | | | ND | ND | ND | ND |
| TOTAL SVOCs | 500,000 ug/kg | | | | 441 | 170 | 92 | 32 |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.
 Bold entries are concentrations in exceedence of NYSDEC TAGM Criteria.

ug/kg Micrograms per kilogram
 NYSDEC New York State Department of Environmental Conservation
 1 NYSDEC Technical and Administrative Guidance
 Memorandum (TAGM) #4046 (Rev. 4/95)
 ND Below Detection Limits
 N/A Criteria not available
 * Total Carcinogenic SVOC's limit is < 10ppm as per TAGM #4046

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC1-34B | Sample Interval: 23-26' | Date Sampled: 2/13/98 | Units: ug/kg | AOC1-34C | 7-9' | Date Sampled: 2/13/98 | Units: ug/kg | AOC1-34C | 15-18' | Date Sampled: 2/13/98 | Units: ug/kg | AOC1-34C | 23-25' | Date Sampled: 4/22/98 | Units: ug/kg | AOC1-34C | 4-6' | Date Sampled: 2/17/98 | Units: ug/kg | |
|--|---|---------------------|-------------------------|-----------------------|--------------|----------|------|-----------------------|--------------|-----------|--------|-----------------------|--------------|-----------|--------|-----------------------|--------------|-------------|------|-----------------------|--------------|------------|
| PCBs | | | | | | | | | | | | | | | | | | | | | | |
| Aroclor 1016 | N/A | | | | | <40 | | | | <40 | | | | <40 | | | | <40 | | | | |
| Aroclor 1221 | N/A | | | | | <40 | | | | <40 | | | | <40 | | | | <40 | | | | |
| Aroclor 1232 | N/A | | | | | <40 | | | | <40 | | | | <40 | | | | <40 | | | | |
| Aroclor 1242 | N/A | | | | | <40 | | | | <40 | | | | <40 | | | | 5200 | | | | |
| Aroclor 1248 | N/A | | | | | <40 | | | | 65 | | | | 72 | | | | <810 | | | | |
| Aroclor 1254 | N/A | | | | | <40 | | | | <40 | | | | <40 | | | | <810 | | | | |
| Aroclor 1260 | N/A | | | | | <40 | | | | <40 | | | | <40 | | | | <810 | | | | |
| Total PCBs | 10000 | | | | | 0 | | | | 65 | | | | 72 | | | | 5200 | | | | 460 |
| Semivolatile Organic Compounds: | | | | | | | | | | | | | | | | | | | | | | |
| N-Nitrosodimethylamine | N/A | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| Bis (2-Chloroethyl) ether | N/A | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| 1,3-Dichlorobenzene | N/A | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| 1,4-Dichlorobenzene | N/A | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| 1,2-Dichlorobenzene | N/A | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| Bis (2-chloroisopropyl) ether | N/A | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| N-Nitrosodi-n-propylamine | N/A | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| Hexachloroethane | N/A | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| Nitrobenzene | 200 | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| Isophorone | 4400 | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| Bis (2-chloroethoxy) methane | N/A | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| 124-Trichlorobenzene | N/A | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| Naphthalene | 13000 | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| Hexachlorobutadiene | N/A | | | | | <300 | | | | <300 | | | | <300 | | | | <300 | | | | <320 |
| Hexachlorocyclopentadiene | N/A | | | | | <300 | | | | <300 | | | | <300 | | | | <300 | | | | <320 |
| 2-Chloronaphthalene | N/A | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| Dimethyl Phthalate | N/A | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| Acenaphthylene | 41000 | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| 2,6-Dinitrotoluene | 1000 | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| Acenaphthene | 50000 | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| 2,4-Dinitrotoluene | N/A | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| Diethyl Phthalate | N/A | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| Fluorene | 50000 | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| 4-Chlorophenyl phenyl ether | N/A | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |
| N-Nitrosodiphenylamine | N/A | | | | | <30 | | | | <30 | | | | <30 | | | | <30 | | | | <32 |

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC1-34B | AOC1-34C | AOC1-34C | AOC1-34C | AOC1-34C | AOC34D |
|----------------------------------|---|-------------------------|-----------|-----------|-----------|-----------|-----------|
| | | Sample Interval: 23-26' | 7-9' | 15-18' | 23-25' | 4-6' | |
| | | Date Sampled: 2/13/98 | 2/13/98 | 2/13/98 | 4/22/98 | 2/17/98 | |
| | | Units: ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | |
| 1,2-Diphenylhydrazine | N/A | <30 | <30 | <30 | <30 | <32 | |
| 4-Bromophenyl phenyl ether | N/A | <30 | <30 | <30 | <30 | <32 | |
| Hexachlorobenzene | 410 | <30 | <30 | <30 | <30 | <32 | |
| Phenanthrene | 50000 | <30 | <30 | <30 | <30 | <32 | |
| Anthracene | 50000 | <30 | <30 | <30 | <30 | <32 | |
| Di-n-Butyl Phthalate | 8100 | <30 | <30 | <30 | <30 | <32 | |
| Fluoranthene | 50000 | <30 | <30 | <30 | <30 | <32 | |
| Benzidine | N/A | <300 | <300 | <300 | <300 | <320 | |
| Pyrene | 50000 | <30 | <30 | <30 | <30 | <32 | |
| Benzyl Butyl Phthalate | N/A | <30 | <30 | <30 | <30 | <32 | |
| Benzo (a) anthracene* | 224 | <30 | <30 | <30 | <30 | <32 | |
| 3,3'-Dichlorobenzidine | N/A | <300 | <300 | <300 | <300 | <320 | |
| Chrysene* | 400 | <30 | <30 | <30 | <30 | <32 | |
| Bis (2-ethylhexyl) phthalate | 50000 | 100 | 75 | <30 | <30 | <32 | |
| Di-n-octyl Phthalate | 50000 | <30 | <30 | <30 | <30 | <32 | |
| Benzo (b) fluoranthene* | 224 | <30 | <30 | <30 | <30 | <32 | |
| Benzo (k) fluoranthene* | 224 | <30 | <30 | <30 | <30 | <32 | |
| Benzo (a) pyrene* | 61 | <30 | <30 | <30 | <30 | <32 | |
| Indeno (1,2,3-cd) pyrene* | 3200 | <30 | <30 | <30 | <30 | <32 | |
| Dibenzo (a,h) anthracene* | 14 | <30 | <30 | <30 | <30 | <32 | |
| Benzo (ghi) perylene | N/A | <30 | <30 | <30 | <30 | <32 | |
| *TOTAL CARCINOGENIC SVOCs | 10,000 ug/kg | ND | ND | ND | ND | ND | ND |
| TOTAL SVOCs | 500,000 ug/kg | 100 | 75 | ND | ND | ND | ND |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.

Bold entries are concentrations in excess of NYSEDEC TAGM Criteria.

ug/kg Micrograms per kilogram

NYSDEC New York State Department of Environmental Conservation

1 NYSEDEC Technical and Administrative Guidance

Memorandum (TAGM) #4046 (Rev. 4/95)

ND Below Detection Limits

N/A Criteria not available

* Total Carcinogenic SVOC's limit is < 10ppm as per TAGM #4046

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 34D Sample Interval: 10-12' Date Sampled: 2/17/98 Units: ug/kg | AOC1-34E 4-6' 2/13/98 ug/kg | AOC1-34E 10-12' 2/13/98 ug/kg | AOC1-34F 4-7' 2/13/98 ug/kg | AOC1-34F 10-12' 2/13/98 ug/kg |
|--|---|--|--------------------------------------|--|--------------------------------------|--|
| PCBs | | | | | | |
| Aroclor 1016 | N/A | <40 | <43 | <40 | <46 | <42 |
| Aroclor 1221 | N/A | <40 | <43 | <40 | <46 | <42 |
| Aroclor 1232 | N/A | <40 | <43 | <40 | <46 | <42 |
| Aroclor 1242 | N/A | <40 | <43 | <40 | <46 | <42 |
| Aroclor 1248 | N/A | 88 | <43 | <40 | <46 | <42 |
| Aroclor 1254 | N/A | <40 | <43 | <40 | <46 | <42 |
| Aroclor 1260 | N/A | <40 | <43 | <40 | <46 | <42 |
| Total PCBs | 10000 | 88 | 0 | 0 | 0 | 0 |
| Semivolatile Organic Compounds: | | | | | | |
| N-Nitrosodimethylamine | N/A | <30 | <33 | <30 | <34 | <32 |
| Bis (2-Chloroethyl) ether | N/A | <30 | <33 | <30 | <34 | <32 |
| 1,3-Dichlorobenzene | N/A | <30 | <33 | <30 | <34 | <32 |
| 1,4-Dichlorobenzene | N/A | <30 | <33 | <30 | <34 | <32 |
| 1,2-Dichlorobenzene | N/A | <30 | <33 | <30 | <34 | <32 |
| Bis (2-chloroisopropyl) ether | N/A | <30 | <33 | <30 | <34 | <32 |
| N-Nitrosodi-n-propylamine | N/A | <30 | <33 | <30 | <34 | <32 |
| Hexachloroethane | N/A | <30 | <33 | <30 | <34 | <32 |
| Nitrobenzene | 200 | <30 | <33 | <30 | <34 | <32 |
| Isophorone | 4000 | <30 | <33 | <30 | <34 | <32 |
| Bis (2-chloroethoxy) methane | N/A | <30 | <33 | <30 | <34 | <32 |
| 124-Trichlorobenzene | N/A | <30 | <33 | <30 | <34 | <32 |
| Naphthalene | 13000 | <30 | <33 | <30 | <34 | <32 |
| Hexachlorobutadiene | N/A | <30 | <33 | <30 | <34 | <32 |
| Hexachlorocyclopentadiene | N/A | <30 | <33 | <30 | <34 | <32 |
| 2-Chloronaphthalene | N/A | <300 | <330 | <300 | <340 | <320 |
| Dimethyl Phthalate | N/A | <30 | <33 | <30 | <34 | <32 |
| Acenaphthylene | 41000 | <30 | <33 | <30 | <34 | <32 |
| 2,6-Dinitrotoluene | 1000 | <30 | <33 | <30 | <34 | <32 |
| Acenaphthene | 50000 | <30 | <33 | <30 | <34 | <32 |
| 2,4-Dinitrotoluene | N/A | <30 | <33 | <30 | <34 | <32 |
| Diethyl Phthalate | N/A | <30 | <33 | <30 | <34 | <32 |
| Fluorene | 50000 | <30 | <33 | <30 | <34 | <32 |
| 4-Chlorophenyl phenyl ether | N/A | <30 | <33 | <30 | <34 | <32 |
| N-Nitrosodiphenylamine | N/A | <30 | <33 | <30 | <34 | <32 |

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 34D | AOC1-34E | AOC1-34F | AOC1-34F | AOC1-34F |
|----------------------------------|---|-------------------------|-----------|-----------|------------|------------|
| | | Sample Interval: 10-12' | 10-12' | 4-7' | 10-12' | 10-12' |
| | | Date Sampled: 2/17/98 | 2/13/98 | 2/13/98 | 2/13/98 | 2/13/98 |
| | | Units: ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| 1,2-Diphenylhydrazine | N/A | <30 | <30 | <34 | <32 | <32 |
| 4-Bromophenyl phenyl ether | N/A | <30 | <30 | <34 | <32 | <32 |
| Hexachlorobenzene | 410 | <30 | <30 | <34 | <32 | <32 |
| Phenanthrene | 50000 | <30 | <30 | <34 | <32 | <32 |
| Anthracene | 50000 | <30 | <30 | <34 | <32 | <32 |
| Di-n-Butyl Phthalate | 8100 | <30 | <30 | <34 | <32 | <32 |
| Fluoranthene | 50000 | <30 | <30 | <34 | 34 | 34 |
| Benzidine | N/A | <300 | <300 | <340 | <320 | <320 |
| Pyrene | 50000 | <30 | <30 | <34 | <32 | <32 |
| Benzyl Butyl Phthalate | N/A | <30 | <30 | <34 | 42 | 42 |
| Benzo (a) anthracene* | 224 | <30 | <30 | <34 | <32 | <32 |
| 3,3'-Dichlorobenzidine | N/A | <300 | <300 | <340 | <320 | <320 |
| Chrysene* | 400 | <30 | <30 | <34 | <32 | <32 |
| Bis (2-ethylhexyl) phthalate | 50000 | <30 | <30 | 68 | 730 | 730 |
| Di-n-octyl Phthalate | 50000 | <30 | <30 | <34 | <32 | <32 |
| Benzo (b) fluoranthene* | 224 | <30 | <30 | <34 | <32 | <32 |
| Benzo (k) fluoranthene* | 224 | <30 | <30 | <34 | <32 | <32 |
| Benzo (a) pyrene* | 61 | <30 | <30 | <34 | <32 | <32 |
| Indeno (1,2,3-cd) pyrene* | 3200 | <30 | <30 | <34 | <32 | <32 |
| Dibenzo (a,h) anthracene* | 14 | <30 | <30 | <34 | <32 | <32 |
| Benzo (ghi) perylene | N/A | <30 | <30 | <34 | <32 | <32 |
| *TOTAL CARCINOGENIC SVOCs | 10,000 ug/kg | ND | ND | ND | ND | ND |
| TOTAL SVOCs | 500,000 ug/kg | ND | ND | 68 | 806 | 806 |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.
 Bold entries are concentrations in exceedence of NYSEDEC TAGM Criteria.

- ug/kg Micrograms per kilogram
- 1 NYSEDEC New York State Department of Environmental Conservation
- NYSEDEC Technical and Administrative Guidance
- Memorandum (TAGM) #4046 (Rev. 4/95)
- ND Below Detection Limits
- N/A Criteria not available
- * Total Carcinogenic SVOC's limit is < 10ppm as per TAGM #4046

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC34G | Sample Interval: 7-9' | AOC34G 15-18' | AOC34G 23-25' | AOC1-34H 7-9' | AOC1-34H 15-18' |
|----------------------------------|---|-----------------------|-----------------------|---------------|---------------|---------------|-----------------|
| | | Date Sampled: 2/12/98 | Units: ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| 1,2-Diphenylhydrazine | N/A | <30 | <30 | <30 | <31 | <30 | <30 |
| 4-Bromophenyl phenyl ether | N/A | <30 | <30 | <30 | <31 | <30 | <30 |
| Hexachlorobenzene | 410 | <30 | <30 | <30 | <31 | <30 | <30 |
| Phenanthrene | 50000 | <30 | <30 | <30 | <31 | <30 | <30 |
| Anthracene | 50000 | <30 | <30 | <30 | <31 | <30 | <30 |
| Di-n-Butyl Phthalate | 8100 | <30 | <30 | <30 | <31 | <30 | <30 |
| Fluoranthene | 50000 | 84 | <30 | <30 | <31 | <30 | <30 |
| Benzidine | N/A | <300 | <300 | <300 | <310 | <300 | <300 |
| Pyrene | 50000 | 93 | <30 | <30 | <31 | <30 | <30 |
| Benzyl Butyl Phthalate | N/A | <30 | <30 | <30 | <31 | <30 | <30 |
| Benzo (a) anthracene* | 224 | 64 | <30 | <30 | <31 | <30 | <30 |
| 3,3'-Dichlorobenzidine | N/A | <300 | <300 | <300 | <310 | <300 | <300 |
| Chrysene* | 400 | 57 | <30 | <30 | <31 | <30 | <30 |
| Bis (2-ethylhexyl) phthalate | 50000 | 170 | 68 | 68 | <31 | 280 | 220 |
| Di-n-octyl Phthalate | 50000 | <30 | <30 | <30 | <31 | <30 | <30 |
| Benzo (b) fluoranthene* | 224 | 60 | <30 | <30 | <31 | <30 | <30 |
| Benzo (k) fluoranthene* | 224 | 60 | <30 | <30 | <31 | <30 | <30 |
| Benzo (a) pyrene* | 61 | 71 | <30 | <30 | <31 | <30 | <30 |
| Indeno (1,2,3-cd) pyrene* | 3200 | 48 | <30 | <30 | <31 | <30 | <30 |
| Dibenzo (a,h) anthracene* | 14 | 30 | <30 | <30 | <31 | <30 | <30 |
| Benzo (ghi) perylene | N/A | 48 | <30 | <30 | <31 | <30 | <30 |
| *TOTAL CARCINOGENIC SVOCs | | 390 | ND | ND | ND | ND | ND |
| TOTAL SVOCs | | 785 | 68 | 280 | ND | 220 | 220 |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.
 Bold entries are concentrations in exceedence of NY SDEC TAGM Criteria.

ug/kg Micrograms per kilogram

NYSDEC New York State Department of Environmental Conservation

1 NY SDEC Technical and Administrative Guidance

Memorandum (TAGM) #4046 (Rev. 4/95)

ND Below Detection Limits

N/A Criteria not available

* Total Carcinogenic SVOC's limit is < 10ppm as per TAGM #4046

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC1-34H | Sample Interval: 23-26' | Date Sampled: 2/13/98 | Units: ug/kg | AOC 34I 23-25' 2/18/98 ug/kg | AOC 34J FLOOR 4/22/98 ug/kg | AOC 34K FLOOR 4/22/98 ug/kg | AOC 34L FLOOR 4/22/98 ug/kg |
|----------------------------------|---|---------------------|-------------------------|-----------------------|--------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|
| 1,2-Diphenylhydrazine | N/A | | | | <31 | <30 | <32 | <32 | <32 |
| 4-Bromophenyl phenyl ether | N/A | | | | <31 | <30 | <32 | <32 | <32 |
| Hexachlorobenzene | 410 | | | | <31 | <30 | <32 | <32 | <32 |
| Phenanthrene | 50000 | | | | <31 | <30 | <32 | <32 | <32 |
| Anthracene | 50000 | | | | <31 | <30 | <32 | <32 | <32 |
| Di-n-Butyl Phthalate | 8100 | | | | <31 | <30 | <32 | <32 | <32 |
| Fluoranthene | 50000 | | | | <31 | <30 | <32 | <32 | <32 |
| Benzidine | N/A | | | | <310 | <300 | <320 | <320 | <320 |
| Pyrene | 50000 | | | | <31 | <30 | <32 | <32 | <32 |
| Benzyl Butyl Phthalate | N/A | | | | <31 | <30 | <32 | <32 | <32 |
| Benzo (a) anthracene* | 224 | | | | <31 | <30 | <32 | <32 | <32 |
| 3,3'-Dichlorobenzidine | N/A | | | | <310 | <300 | <320 | <320 | <320 |
| Chrysene* | 400 | | | | <31 | <30 | <32 | <32 | <32 |
| Bis (2-ethylhexyl) phthalate | 50000 | | | | 36 | 80 | 99 | <32 | <32 |
| Di-n-octyl Phthalate | 50000 | | | | <31 | <30 | <32 | <32 | <32 |
| Benzo (b) fluoranthene* | 224 | | | | <31 | <30 | <32 | <32 | <32 |
| Benzo (k) fluoranthene* | 224 | | | | <31 | <30 | <32 | <32 | <32 |
| Benzo (a) pyrene* | 61 | | | | <31 | <30 | <32 | <32 | <32 |
| Indeno (1,2,3-cd) pyrene* | 3200 | | | | <31 | <30 | <32 | <32 | <32 |
| Dibenzo (a,h) anthracene* | 14 | | | | <31 | <30 | <32 | <32 | <32 |
| Benzo (ghi) perylene | N/A | | | | <31 | <30 | <32 | <32 | <32 |
| *TOTAL CARCINOGENIC SVOCs | 10,000 ug/kg | | | | ND | ND | ND | ND | ND |
| TOTAL SVOCs | 500,000 ug/kg | | | | 36 | 80 | 99 | ND | ND |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.
 Bold entries are concentrations in exceedence of NYSDEC TAGM Criteria.

- ug/kg Micrograms per kilogram
- NYSDEC New York State Department of Environmental Conservation
- 1 NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 (Rev. 4/95)
- ND Below Detection Limits
- N/A Criteria not available
- * Total Carcinogenic SVOC's limit is < 10ppm as per TAGM #4046

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 34M Sample Interval: FLOOR Date Sampled: 4/22/98 Units: ug/kg | AOC 34N FLOOR 4/22/98 ug/kg | AOC 34O FLOOR 5/4/98 ug/kg | AOC 34P FLOOR 5/4/98 ug/kg | AOC 34Q FLOOR 5/4/98 ug/kg | AOC 34R FLOOR 5/4/98 ug/kg |
|--|---|---|--------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| PCBs | | | | | | | |
| Aroclor 1016 | N/A | <42 | <420 | <210 | <83 | <810 | <40 |
| Aroclor 1221 | N/A | <42 | <420 | <210 | <83 | <810 | <40 |
| Aroclor 1232 | N/A | <42 | <420 | <210 | <83 | <810 | <40 |
| Aroclor 1242 | N/A | <42 | 1500 | <210 | <83 | <810 | <40 |
| Aroclor 1248 | N/A | <42 | <420 | 530 | 270 | 4700 | <40 |
| Aroclor 1254 | N/A | <42 | <420 | <210 | <83 | <810 | <40 |
| Aroclor 1260 | N/A | <42 | <420 | <210 | <83 | <810 | <40 |
| Total PCBs | 10000 | 0 | 1500 | 530 | 270 | 4700 | 0 |
| Semivolatile Organic Compounds: | | | | | | | |
| N-Nitrosodimethylamine | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| Bis (2-Chloroethyl) ether | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| 1,3-Dichlorobenzene | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| 1,4-Dichlorobenzene | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| 1,2-Dichlorobenzene | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| Bis (2-chloroisopropyl) ether | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| N-Nitrosodi-n-propylamine | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| Hexachloroethane | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| Nitrobenzene | 200 | <32 | <32 | <31 | <31 | <30 | <30 |
| Isophorone | 4000 | <32 | <32 | <31 | <31 | <30 | <30 |
| Bis (2-chloroethoxy) methane | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| 124-Trichlorobenzene | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| Naphthalene | 13000 | <32 | <32 | <31 | <31 | <30 | <30 |
| Hexachlorobutadiene | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| Hexachlorocyclopentadiene | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| 2-Chloronaphthalene | N/A | <320 | <320 | <310 | <310 | <300 | <300 |
| Dimethyl Phthalate | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| Acenaphthylene | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| 2,6-Dinitrotoluene | 41000 | <32 | <32 | <31 | <31 | <30 | <30 |
| Acenaphthene | 1000 | <32 | <32 | <31 | <31 | <30 | <30 |
| 2,4-Dinitrotoluene | 50000 | <32 | <32 | <31 | <31 | <30 | <30 |
| Diethyl Phthalate | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| Fluorene | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| 4-Chlorophenyl phenyl ether | 50000 | <32 | <32 | <31 | <31 | <30 | <30 |
| N-Nitrosodiphenylamine | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| N/A | N/A | <32 | <32 | <31 | <31 | <30 | <30 |

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 34M | AOC 34N | AOC 34O | AOC 34P | AOC 34Q | AOC 34R |
|----------------------------------|---|--------------------|-----------|------------|-----------|-----------|-----------|
| | | FLOOR | FLOOR | FLOOR | FLOOR | FLOOR | FLOOR |
| | | 4/22/98 | 4/22/98 | 5/4/98 | 5/4/98 | 5/4/98 | 5/4/98 |
| | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| | | Units: | Units: | Units: | Units: | Units: | Units: |
| 1,2-Diphenylhydrazine | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| 4-Bromophenyl phenyl ether | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| Hexachlorobenzene | 410 | <32 | <32 | <31 | <31 | <30 | <30 |
| Phenanthrene | 50000 | <32 | <32 | 37 | <31 | <30 | <30 |
| Anthracene | 50000 | <32 | <32 | <31 | <31 | <30 | <30 |
| Di-n-Butyl Phthalate | 8100 | <32 | <32 | <31 | <31 | <30 | <30 |
| Fluoranthene | 50000 | <32 | <32 | 65 | <31 | <30 | <30 |
| Benzidine | N/A | <320 | <320 | <310 | <310 | <300 | <300 |
| Pyrene | 50000 | <32 | <32 | 55 | <31 | <30 | <30 |
| Benzyl Butyl Phthalate | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| Benzo (a) anthracene* | 224 | <32 | <32 | <31 | <31 | <30 | <30 |
| 3,3'-Dichlorobenzidine | N/A | <320 | <320 | <310 | <310 | <300 | <300 |
| Chrysene* | 400 | <32 | <32 | 32 | <31 | <30 | <30 |
| Bis (2-ethylhexyl) phthalate | 50000 | <32 | <32 | <31 | <31 | <30 | <30 |
| Di-n-octyl Phthalate | 50000 | <32 | <32 | <31 | <31 | <30 | <30 |
| Benzo (b) fluoranthene* | 224 | <32 | <32 | <31 | <31 | <30 | <30 |
| Benzo (k) fluoranthene* | 224 | <32 | <32 | <31 | <31 | <30 | <30 |
| Benzo (a) pyrene* | 61 | <32 | <32 | <31 | <31 | <30 | <30 |
| Indeno (1,2,3-cd) pyrene* | 3200 | <32 | <32 | <31 | <31 | <30 | <30 |
| Dibenzo (a,h) anthracene* | 14 | <32 | <32 | <31 | <31 | <30 | <30 |
| Benzo (ghi) perylene | N/A | <32 | <32 | <31 | <31 | <30 | <30 |
| *TOTAL CARCINOGENIC SVOCs | 10,000 ug/kg | ND | ND | 32 | ND | ND | ND |
| TOTAL SVOCs | 500,000 ug/kg | ND | ND | 189 | ND | ND | ND |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.
 Bold entries are concentrations in exceedence of NYSDEC TAGM Criteria.
 ug/kg Micrograms per kilogram
 1 NYSDEC New York State Department of Environmental Conservation
 NYSDEC Technical and Administrative Guidance
 Memorandum (TAGM) #4046 (Rev. 4/95)
 ND Below Detection Limits
 N/A Criteria not available
 * Total Carcinogenic SVOC's limit is < 10ppm as per TAGM #4046

ENCLOSURE 4

Enclosure 4. AOC 33-11,-12, Plant 3, Northrop Grumman Corporation, Bethpage, New York
 Priority Pollutant Metals Analytical Results from Endpoint Samples

| Parameters | Eastern USA Background ¹ (mg/kg) | NYSDEC TAGM Criteria ¹ (mg/kg) | Sample ID: AOC 33-11B ₁₁ Sample Interval: 6-8' Date Sampled: 4/16/98 Units: mg/kg | AOC 33-11C ₁₁ 2-4' 2/25/98 mg/kg | AOC 33-11C ₁₁ 6-8' 2/25/98 mg/kg | AOC 33-11D ₁₁ 2-4' 2/24/98 mg/kg | AOC 33-11D ₁₁ 5-7' 2/24/98 mg/kg |
|----------------------------------|--|--|---|--|--|--|--|
| Priority Pollutant Metals | | | | | | | |
| Antimony | N/A | N/A | <1 | <1.3 | <1.3 | <1.5 | <1.3 |
| Arsenic | 3-12 | 7.5 | 1.9 | 1.0 | 3.3 | 2.4 | 1.3 |
| Beryllium | 0-1.75 | 0.16 | 0.06 | 0.08 | 0.10 | 0.20 | 0.12 |
| Cadmium | 0.1-1 | 10 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chromium | 1.5-40 | 50 | 3.2 | 3.3 | 4.9 | 6.5 | 5.0 |
| Copper | 1-50 | 25 | 1.9 | 2.5 | 3.0 | 5.2 | 2.1 |
| Lead | 200-500 | N/A | 1.1 | 1.7 | 1.4 | 3.4 | 1.8 |
| Mercury | 0.001-0.2 | 0.1 | <0.005 | 0.021 | 0.0093 | 0.010 | 0.0068 |
| Nickel | 0.5-25 | 13 | 1.5 | 1.5 | 3.2 | 3.4 | 3.5 |
| Selenium | 0.1-3.9 | 2 | <0.4 | <0.4 | <0.4 | <0.5 | <0.4 |
| Silver | N/A | N/A | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Thallium | N/A | N/A | <1 | <1 | <1 | <1 | <1 |
| Zinc | 9-50 | 20 | 5.3 | 4.5 | 9.0 | 11 | 12 |
| % Solids | | | 99 | 94 | 97 | 88 | 97 |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.
 Bold entries are concentrations in exceedence of NYSDEC TAGM Criteria or Eastern USA Background.
 mg/kg Milligrams per kilogram
 NYSDEC New York State Department of Environmental Conservation
 1 NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 (Rev. 4/95)
 N/A Criteria not available

Enclosure 4. AOC 33-11,-12, Plant 3, Northrop Grumman Corporation, Bethpage, New York
 Priority Pollutant Metals Analytical Results from Endpoint Samples

| Parameters | Eastern USA Background ¹ (mg/kg) | NYSDEC TAGM Criteria ¹ (mg/kg) | Sample ID: AOC 33-11E ₁₁ | | Sample ID: AOC 33-11E ₁₁ | | Sample ID: AOC 33-11E ₁₁ | | Sample ID: AOC 33-11F ₁₁ | | Sample ID: AOC 33-12A ₁₂ | | Sample ID: AOC 33-12C ₁₂ | |
|----------------------------------|--|--|-------------------------------------|-------|-------------------------------------|--------|-------------------------------------|-------|-------------------------------------|-------|-------------------------------------|-------|-------------------------------------|--------|
| | | | 2-4' | 5-7' | 2/24/98 | mg/kg | 2/24/98 | mg/kg | 2/23/98 | mg/kg | 2/23/98 | mg/kg | 2/23/98 | mg/kg |
| Priority Pollutant Metals | | | | | | | | | | | | | | |
| Antimony | N/A | N/A | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1 |
| Arsenic | 3-12 | 7.5 | 4.6 | 1.5 | 1.9 | 1.5 | 1.5 | 1.9 | 1.5 | 1.5 | 1.1 | 1.1 | 1.1 | 0.57 |
| Beryllium | 0-1.75 | 0.16 | 0.14 | 0.13 | 0.15 | 0.08 | 0.15 | 0.09 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.04 |
| Cadmium | 0.1-1 | 10 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chromium | 1.5-40 | 50 | 5.0 | 6.1 | 4.7 | 1.6 | 4.7 | 7.6 | 1.6 | 7.6 | 7.6 | 7.6 | 7.6 | 1.4 |
| Copper | 1-50 | 25 | 6.2 | 2.5 | 4 | 1.9 | 4 | 2.2 | 1.9 | 2.2 | 2.2 | 2.2 | 2.2 | 1.7 |
| Lead | 200-500 | N/A | 12 | 1.9 | 2.8 | <1 | 2.8 | 1.1 | <1 | 1.1 | 1.1 | 1.1 | 1.1 | <1 |
| Mercury | 0.001-0.2 | 0.1 | 0.037 | 0.013 | 0.015 | 0.0051 | 0.015 | 0.012 | 0.0051 | 0.012 | 0.012 | 0.012 | 0.012 | <0.005 |
| Nickel | 0.5-25 | 13 | 2.6 | 3.1 | 2.5 | 1.2 | 2.5 | 2.5 | 1.2 | 2.5 | 2.5 | 2.5 | 2.5 | 1.3 |
| Selenium | 0.1-3.9 | 2 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Silver | N/A | N/A | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Thallium | N/A | N/A | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Zinc | 9-50 | 20 | 12 | 10 | 7.9 | 3.9 | 7.9 | 8.4 | 3.9 | 8.4 | 8.4 | 8.4 | 8.4 | 3.5 |
| % Solids | | | 89 | 93 | 97 | 98 | 97 | 98 | 98 | 97 | 98 | 98 | 98 | 99 |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.
 Bold entries are concentrations in exceedence of NYSDEC TAGM Criteria or Eastern USA Background.
 mg/kg Milligrams per kilogram
 NYSDEC New York State Department of Environmental Conservation
 1 NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 (Rev. 4/95)
 N/A Criteria not available

Enclosure 4. AOC 33-11,-12, Plant 3, Northrop Grumman Corporation, Bethpage, New York
 Priority Pollutant Metals Analytical Results from Endpoint Samples

| Parameters | Eastern USA Background ¹ (mg/kg) | NYSDEC TAGM Criteria ¹ (mg/kg) | Sample ID: AOC 33-12F ₁₂ | | AOC 33-11/12A _{FL} | AOC 33-11/12B _{FL} | AOC 33-11/12C _{FL} | AOC 33-11/12D _{FL} |
|----------------------------------|--|--|-------------------------------------|-----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | | | Sample Interval: Date Sampled: | 6-8' 4/16/98 | | | | |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Priority Pollutant Metals | | | | | | | | |
| Antimony | N/A | N/A | <1 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic | 3-12 | 7.5 | 0.78 | 1.1 | 0.65 | 1.0 | 0.64 | 0.64 |
| Beryllium | 0-1.75 | 0.16 | 0.06 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Cadmium | 0.1-1 | 10 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chromium | 1.5-40 | 50 | 1.8 | 3.1 | 1.8 | 2.2 | 2.3 | 2.3 |
| Copper | 1-50 | 25 | 2.2 | 2.5 | 1.8 | 2.2 | 2.2 | 2.2 |
| Lead | 200-500 | N/A | 1.3 | 1.3 | 0.80 | 1.5 | 0.97 | 0.97 |
| Mercury | 0.001-0.2 | 0.1 | 0.0074 | <0.005 | 0.0061 | 0.010 | 0.0057 | 0.0057 |
| Nickel | 0.5-25 | 13 | 2.1 | 2 | 1.7 | 1.9 | 3.0 | 3.0 |
| Selenium | 0.1-3.9 | 2 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Silver | N/A | N/A | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Thallium | N/A | N/A | <1 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Zinc | 9-50 | 20 | 5 | 6.6 | 4.7 | 6.7 | 3.2 | 3.2 |
| % Solids | | | 97 | 99 | 99 | 98 | 99 | 99 |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.
 Bold entries are concentrations in exceedence of NYSDEC TAGM Criteria or Eastern USA Background.
 mg/kg Milligrams per kilogram
 NYSDEC New York State Department of Environmental Conservation
 1 NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 (Rev. 4/95)
 N/A Criteria not available

Enclosure 4. AOC 33-11,-12, Plant 3, Northrop Grumman Corporation, Bethpage, New York
 Priority Pollutant Metals Analytical Results from Endpoint Samples

| Parameters | Eastern USA Background ¹ (mg/kg) | NYSDEC TAGM Criteria ¹ (mg/kg) | Sample ID: AOC 33-11/12E _{FL} | | AOC 33-11/12G _{FL} | | AOC 33-11/12H _{FL} | | AOC 33-11/12I _{FL} | |
|----------------------------------|---|--|--|------------------|-----------------------------|------------------|-----------------------------|------------------|-----------------------------|------------------|
| | | | Sample Interval: Date Sampled: | FLOOR 4/28/98 | FLOOR 4/28/98 | FLOOR 4/28/98 | FLOOR 4/28/98 | FLOOR 4/28/98 | FLOOR 4/28/98 | FLOOR 4/28/98 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| | | | Units: | | | | | | | |
| Priority Pollutant Metals | | | | | | | | | | |
| Antimony | N/A | N/A | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic | 3-12 | 7.5 | 1.4 | 0.85 | 0.87 | 0.97 | 0.49 | 0.97 | 0.49 | 0.49 |
| Beryllium | 0-1.75 | 0.16 | 0.1 | <0.05 | <0.05 | 0.05 | <0.05 | 0.05 | <0.05 | <0.05 |
| Cadmium | 0.1-1 | 10 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chromium | 1.5-40 | 50 | 4 | 1.9 | 2.6 | 2.3 | 2.4 | 2.3 | 2.4 | 2.4 |
| Copper | 1-50 | 25 | 2.7 | 1.8 | 2.8 | 2.0 | 0.99 | 2.0 | 0.99 | 0.99 |
| Lead | 200-500 | N/A | 1.8 | 1.1 | 1.1 | 1.3 | 0.44 | 1.3 | 0.44 | 0.44 |
| Mercury | 0.001-0.2 | 0.1 | <0.005 | 0.0069 | 0.0053 | 0.0065 | 0.0059 | 0.0065 | 0.0059 | 0.0059 |
| Nickel | 0.5-25 | 13 | 2.8 | 1.5 | 1.7 | 1.7 | 0.75 | 1.7 | 0.75 | 0.75 |
| Selenium | 0.1-3.9 | 2 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Silver | N/A | N/A | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Thallium | N/A | N/A | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Zinc | 9-50 | 20 | 9.8 | 3.9 | 4.1 | 5.1 | 1.3 | 5.1 | 1.3 | 1.3 |
| % Solids | | | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.
 Bold entries are concentrations in exceedence of NYSDEC TAGM Criteria or Eastern USA Background.
 mg/kg Milligrams per kilogram
 NYSDEC New York State Department of Environmental Conservation
 1 NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 (Rev. 4/95)
 N/A Criteria not available

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-11B ₁₁ Sample Interval: 6-8' Date Sampled: 4/16/98 | AOC 33-11C ₁₁ 2-4' 2/25/98 | AOC 33-11C ₁₁ 6-8' 2/25/98 | AOC 33-11D ₁₁ 2-4' 2/24/98 | AOC 33-11D ₁₁ 5-7' 2/24/98 | AOC 33-11E ₁₁ 2-4' 2/24/98 |
|--|---|---|---|---|---|---|---|
| | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| <u>Semivolatile Organic Compounds:</u> | | | | | | | |
| N-Nitrosodimethylamine | N/A | <30 | <32 | <31 | <34 | <31 | <34 |
| Bis (2-Chloroethyl) ether | N/A | <30 | <32 | <31 | <34 | <31 | <34 |
| 1,3-Dichlorobenzene | N/A | <30 | <32 | <31 | <34 | <31 | <34 |
| 1,4-Dichlorobenzene | N/A | <30 | <32 | <31 | <34 | <31 | <34 |
| 1,2-Dichlorobenzene | N/A | <30 | <32 | <31 | <34 | <31 | <34 |
| Bis (2-chloroisopropyl) ether | N/A | <30 | <32 | <31 | <34 | <31 | <34 |
| N-Nitrosodi-n-propylamine | N/A | <30 | <32 | <31 | <34 | <31 | <34 |
| Hexachloroethane | N/A | <30 | <32 | <31 | <34 | <31 | <34 |
| Nitrobenzene | 200 | <30 | <32 | <31 | <34 | <31 | <34 |
| Isophorone | 4400 | <30 | <32 | <31 | <34 | <31 | <34 |
| Bis (2-chloroethoxy) methane | N/A | <30 | <32 | <31 | <34 | <31 | <34 |
| 124-Trichlorobenzene | N/A | <30 | <32 | <31 | <34 | <31 | <34 |
| Naphthalene | 13000 | <30 | <32 | <31 | <34 | <31 | <34 |
| Hexachlorobutadiene | N/A | <30 | <32 | <31 | <34 | <31 | <34 |
| Hexachlorocyclopentadiene | N/A | <300 | <320 | <310 | <340 | <310 | <340 |
| 2-Chloronaphthalene | N/A | <30 | <32 | <31 | <34 | <31 | <34 |
| Dimethyl Phthalate | N/A | <30 | <32 | <31 | <34 | <31 | <34 |
| Acenaphthylene | 41000 | <30 | <32 | <31 | <34 | <31 | <34 |
| 2,6-Dinitrotoluene | 1000 | <30 | <32 | <31 | <34 | <31 | <34 |
| Acenaphthene | 50000 | <30 | <32 | <31 | <34 | <31 | <34 |
| 2,4-Dinitrotoluene | N/A | <30 | <32 | <31 | <34 | <31 | <34 |
| Diethyl Phthalate | N/A | <30 | <32 | <31 | <34 | <31 | <34 |
| Fluorene | 50000 | <30 | <32 | <31 | <34 | <31 | <34 |
| 4-Chlorophenyl phenyl ether | N/A | <30 | <32 | <31 | <34 | <31 | <34 |
| N-Nitrosodiphenylamine | N/A | <300 | <32 | <31 | <34 | <31 | <34 |
| 1,2-Diphenylhydrazine | N/A | <300 | <32 | <31 | <34 | <31 | <34 |
| 4-Bromophenyl phenyl ether | N/A | <300 | <32 | <31 | <34 | <31 | <34 |
| Hexachlorobenzene | 410 | <300 | <32 | <31 | <34 | <31 | <34 |
| Phenanthrene | 50000 | <300 | 73 | <31 | <34 | <31 | <34 |

Footnotes on last page.

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-11B ₁₁ Sample Interval: 6-8' Date Sampled: 4/16/98 Units: ug/kg | AOC 33-11C ₁₁ 2-4' 2/25/98 ug/kg | AOC 33-11D ₁₁ 2-4' 2/24/98 ug/kg | AOC 33-11E ₁₁ 2-4' 2/24/98 ug/kg |
|----------------------------------|---|---|--|--|--|
| Anthracene | 50000 | <300 | <32 | <34 | <34 |
| Di-n-Butyl Phthalate | 8100 | <300 | <32 | <34 | <34 |
| Fluoranthene | 50000 | <300 | 99 | <34 | <34 |
| Benzo(a)anthracene* | N/A | <300 | <320 | <340 | <340 |
| Pyrene | 5000 | <300 | 84 | <34 | <34 |
| Benzyl Butyl Phthalate | N/A | <300 | <32 | <34 | <34 |
| 3,3'-Dichlorobenzidine | 224 | <300 | 44 | <34 | <34 |
| Chrysene* | N/A | <3000 | <320 | <340 | <340 |
| Bis (2-ethylhexyl) phthalate | 400 | <300 | 51 | <34 | <34 |
| Di-n-octyl Phthalate | 50000 | <300 | <32 | <34 | <34 |
| Benzo (b) fluoranthene* | 50000 | <3000 | <32 | <34 | <34 |
| Benzo (k) fluoranthene* | 224 | <3000 | 39.5 ^{AA} | <34 | <34 |
| Benzo (a) pyrene* | 224 | <3000 | 39.5 ^{AA} | <34 | <34 |
| Indeno (1,2,3-cd) pyrene* | 61 | <3000 | 38 | <34 | <34 |
| Dibenzo (a,h) anthracene* | 3200 | <3000 | <32 | <34 | <34 |
| Benzo (ghi) perylene | 14 | <3000 | <32 | <34 | <34 |
| | N/A | <3000 | <32 | <34 | <34 |
| *TOTAL CARCINOGENIC SVOCs | | ND | 212 | ND | ND |
| TOTAL SVOCs | | ND | 468 | ND | ND |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.

Bold entries are concentrations in exceedence of NYSDEC TAGM criteria.

* Total Carcinogenic SVOC's limit is < 10ppm as per TAGM #4046

** Samples 33-11/12 E, I, and H were reanalyzed after performing silica gel clean-up procedure 3630C on the extract.

ug/kg Micrograms per kilogram

mg/kg Milligrams per kilogram

NYSDEC New York State Department of Environmental Conservation

1 NYSDEC's Technical and Administrative Guidance

Memorandum (TAGM) #4046 (Rev. 4/95)

ND Below Detection Limits

N/A Criteria not available

** AOC-33 11C Total = 79 ug/kg, unable to separate isomers.

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-11E ₁₁ | Sample Interval: 5-7' | Date Sampled: 2/24/98 | Units: ug/kg | AOC 33-11F ₁₁ | Sample ID: AOC 33-12A ₁₂ | Sample Interval: 2.5-4' | Date Sampled: 2/23/98 | Units: ug/kg | AOC 33-12C ₁₂ | Sample ID: AOC 33-12F ₁₂ | Sample Interval: 5-6' | Date Sampled: 4/16/98 | Units: ug/kg |
|--|---|-------------------------------------|-----------------------|-----------------------|--------------|--------------------------|-------------------------------------|-------------------------|-----------------------|--------------|--------------------------|-------------------------------------|-----------------------|-----------------------|--------------|
| <u>Semivolatile Organic Compounds:</u> | | | | | | | | | | | | | | | |
| N-Nitrosodimethylamine | N/A | | | | | <31 | | | | | | | | | <31 |
| Bis (2-Chloroethyl) ether | N/A | | | | | <31 | | | | | | | | | <31 |
| 1,3-Dichlorobenzene | N/A | | | | | <31 | | | | | | | | | <31 |
| 1,4-Dichlorobenzene | N/A | | | | | <31 | | | | | | | | | <31 |
| 1,2-Dichlorobenzene | N/A | | | | | <31 | | | | | | | | | <31 |
| Bis (2-chloroisopropyl) ether | N/A | | | | | <31 | | | | | | | | | <31 |
| N-Nitrosodi-n-propylamine | N/A | | | | | <31 | | | | | | | | | <31 |
| Hexachloroethane | N/A | | | | | <31 | | | | | | | | | <31 |
| Nitrobenzene | 200 | | | | | <31 | | | | | | | | | <31 |
| Isophorone | 4400 | | | | | <31 | | | | | | | | | <31 |
| Bis (2-chloroethoxy) methane | N/A | | | | | <31 | | | | | | | | | <31 |
| 124-Trichlorobenzene | N/A | | | | | <31 | | | | | | | | | <31 |
| Naphthalene | 13000 | | | | | <31 | | | | | | | | | <31 |
| Hexachlorobutadiene | N/A | | | | | <31 | | | | | | | | | <31 |
| Hexachlorocyclopentadiene | N/A | | | | | <31 | | | | | | | | | <31 |
| 2-Chloronaphthalene | N/A | | | | | <310 | | | | | | | | | <310 |
| Dimethyl Phthalate | N/A | | | | | <31 | | | | | | | | | <31 |
| Acenaphthylene | 41000 | | | | | <31 | | | | | | | | | <31 |
| 2,6-Dinitrotoluene | 1000 | | | | | <31 | | | | | | | | | <31 |
| Acenaphthene | 50000 | | | | | <31 | | | | | | | | | <31 |
| 2,4-Dinitrotoluene | N/A | | | | | <31 | | | | | | | | | <31 |
| Diethyl Phthalate | N/A | | | | | <31 | | | | | | | | | <31 |
| Fluorene | 50000 | | | | | <31 | | | | | | | | | <31 |
| 4-Chlorophenyl phenyl ether | N/A | | | | | <31 | | | | | | | | | <31 |
| N-Nitrosodiphenylamine | N/A | | | | | <31 | | | | | | | | | <310 |
| 1,2-Diphenylhydrazine | N/A | | | | | <31 | | | | | | | | | <310 |
| 4-Bromophenyl phenyl ether | N/A | | | | | <31 | | | | | | | | | <310 |
| Hexachlorobenzene | 410 | | | | | <31 | | | | | | | | | <310 |
| Phenanthrene | 50000 | | | | | <31 | | | | | | | | | <310 |

Footnotes on last page.

| Parameters | NYSDEC TAGM Criteria' (ug/kg) | Sample ID: AOC 33-11E ₁₁ | AOC 33-11F ₁₁ | AOC 33-12A ₁₂ | AOC 33-12A ₁₂ | AOC 33-12C ₁₂ | AOC 33-12F ₁₂ |
|----------------------------------|-------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | Sample Interval: 5-7' | 5-7' | 2.5-4' | 6-8' | 5-6' | 6-8' |
| | | Date Sampled: 2/24/98 | 4/16/98 | 2/23/98 | 2/23/98 | 4/16/98 | 4/16/98 |
| | | Units: ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Anthracene | 50000 | <32 | <31 | 240 | <31 | <30 | <310 |
| Di-n-Butyl Phthalate | 8100 | <32 | <31 | <310 | <31 | <30 | <310 |
| Fluoranthene | 50000 | <32 | <31 | 800 | <31 | <30 | <310 |
| Benzo(a)anthracene* | N/A | <320 | <310 | <3100 | <310 | <300 | <3100 |
| Pyrene | 5000 | <32 | <31 | 970 | <31 | <30 | <310 |
| Benzyl Butyl Phthalate | N/A | <32 | <31 | <310 | <31 | <30 | <310 |
| Benzo (a) anthracene* | 224 | <32 | <31 | 410 | <31 | <30 | <310 |
| 3,3'-Dichlorobenzidine | N/A | <320 | <310 | <3100 | <310 | <300 | <3100 |
| Chrysene* | 400 | <32 | <31 | 420 | <31 | <30 | <310 |
| Bis (2-ethylhexyl) phthalate | 50000 | 35 | <31 | <310 | 31 | <30 | <310 |
| Di-n-octyl Phthalate | 50000 | <32 | <31 | <310 | <31 | <30 | <3100 |
| Benzo (b) fluoranthene* | 224 | <32 | <31 | 335 ^{AA} | <31 | <30 | <3100 |
| Benzo (k) fluoranthene* | 224 | <32 | <31 | 335 ^{AA} | <31 | <30 | <3100 |
| Benzo (a) pyrene* | 61 | <32 | <31 | 320 | <31 | <30 | <3100 |
| Indeno (1,2,3-cd) pyrene* | 3200 | <32 | <31 | <310 | <31 | <30 | <3100 |
| Dibenzo (a,h) anthracene* | 14 | <32 | <31 | <310 | <31 | <30 | <3100 |
| Benzo (ghi) perylene | N/A | <32 | <31 | <310 | <31 | <30 | <3100 |
| *TOTAL CARCINOGENIC SVOCs | 10,000 ug/kg | ND | ND | 1820 | ND | ND | ND |
| TOTAL SVOCs | 500,000 ug/kg | 35 | ND | 1820 | 31 | ND | ND |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.

Bold entries are concentrations in exceedence of NYSDEC TAGM criteria.

* Total Carcinogenic SVOC's limit is < 10ppm as per TAGM #4046

** Samples 33-11/12 E, I, and H were reanalyzed after performing silica gel clean-up procedure 3630C on the extract.

ug/kg Micrograms per kilogram

mg/kg Milligrams per kilogram

NYSDEC New York State Department of Environmental Conservation

1 NYSDEC's Technical and Administrative Guidance

Memorandum (TAGM) #4046 (Rev. 4/95)

ND Below Detection Limits

N/A Criteria not available

AA AOC-33 11C Total = 79 ug/kg, unable to separate isomers.

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-11/12A _{FL} | | AOC 33-11/12B _{FL} | | AOC 33-11/12C _{FL} ** | | AOC 33-11/12D _{FL} | | AOC 33-11/12E _{FL} ** | |
|--|---|--|---------|-----------------------------|---------|--------------------------------|---------|-----------------------------|---------|--------------------------------|---------|
| | | FLOOR | 4/28/98 | FLOOR | 4/28/98 | FLOOR | 4/28/98 | FLOOR | 4/28/98 | FLOOR | 4/28/98 |
| | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| <u>Semivolatile Organic Compounds:</u> | | | | | | | | | | | |
| N-Nitrosodimethylamine | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Bis (2-Chloroethyl) ether | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| 1,3-Dichlorobenzene | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| 1,4-Dichlorobenzene | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| 1,2-Dichlorobenzene | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Bis (2-chloroisopropyl) ether | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| N-Nitrosodi-n-propylamine | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Hexachloroethane | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Nitrobenzene | 200 | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Isophorone | 4400 | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Bis (2-chloroethoxy) methane | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| 124-Trichlorobenzene | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Naphthalene | 13000 | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Hexachlorobutadiene | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Hexachlorocyclopentadiene | N/A | <300 | <300 | <300 | <300 | <310 | <300 | <300 | <300 | <300 | <300 |
| 2-Chloronaphthalene | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Dimethyl Phthalate | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Acenaphthylene | 41000 | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| 2,6-Dinitrotoluene | 1000 | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Acenaphthene | 50000 | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| 2,4-Dinitrotoluene | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Diethyl Phthalate | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Fluorene | 50000 | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| 4-Chlorophenyl phenyl ether | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| N-Nitrosodiphenylamine | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| 1,2-Diphenylhydrazine | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| 4-Bromophenyl phenyl ether | N/A | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Hexachlorobenzene | 410 | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Phenanthrene | 50000 | <30 | <30 | <30 | <30 | 87 | <30 | <30 | <30 | <30 | <30 |

Footnotes on last page.

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-11/12A _{FL} | | AOC 33-11/12B _{FL} | | AOC 33-11/12C _{FL} ** | | AOC 33-11/12D _{FL} | | AOC 33-11/12E _{FL} ** | |
|----------------------------------|---|--|-----------|-----------------------------|-----------|--------------------------------|-----------|-----------------------------|-----------|--------------------------------|-----------|
| | | Sample Interval: FLOOR | 4/28/98 | Sample Interval: FLOOR | 4/28/98 | Sample Interval: FLOOR | 4/28/98 | Sample Interval: FLOOR | 4/28/98 | Sample Interval: FLOOR | 4/28/98 |
| | Units: | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Anthracene | 50000 | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Di-n-Butyl Phthalate | 8100 | <30 | <30 | <30 | <30 | <31 | <30 | <30 | <30 | <30 | <30 |
| Fluoranthene | 50000 | <30 | <30 | <30 | <30 | 130 | <30 | <30 | <30 | <30 | <30 |
| Benzo(a)anthracene* | N/A | <300 | <300 | <300 | <300 | <3100 | <300 | <300 | <300 | <30000 | <30000 |
| Pyrene | 5000 | <30 | <30 | <30 | <30 | 150 | <30 | <30 | <30 | <300 | <300 |
| Benzyl Butyl Phthalate | N/A | <30 | <30 | <30 | <30 | <310 | <30 | <30 | <30 | <3000 | <3000 |
| Benzo (a) anthracene* | 224 | <30 | <30 | <30 | <30 | 59 | <30 | <30 | <30 | <300 | <300 |
| 3,3'-Dichlorobenzidine | N/A | <300 | <300 | <300 | <300 | <31000 | <300 | <300 | <300 | <30000 | <30000 |
| Chrysene* | 400 | <30 | <30 | <30 | <30 | 65 | <30 | <30 | <30 | <300 | <300 |
| Bis (2-ethylhexyl) phthalate | 50000 | <30 | <30 | <30 | <30 | <310 | <30 | <30 | <30 | <3000 | <3000 |
| Di-n-octyl Phthalate | 50000 | <30 | <30 | <30 | <30 | <3100 | <30 | <30 | <30 | <3000 | <3000 |
| Benzo (b) fluoranthene* | 224 | <30 | <30 | <30 | <30 | <300 | <30 | <30 | <30 | <300 | <300 |
| Benzo (k) fluoranthene* | 224 | <30 | <30 | <30 | <30 | <300 | <30 | <30 | <30 | <300 | <300 |
| Benzo (a) pyrene* | 61 | <30 | <30 | <30 | <30 | <300 | <30 | <30 | <30 | <300 | <300 |
| Indeno (1,2,3-cd) pyrene* | 3200 | <30 | <30 | <30 | <30 | <300 | <30 | <30 | <30 | <300 | <300 |
| Dibenzo (a,h) anthracene* | 14 | <30 | <30 | <30 | <30 | <300 | <30 | <30 | <30 | <300 | <300 |
| Benzo (ghi) perylene | N/A | <30 | <30 | <30 | <30 | <300 | <30 | <30 | <30 | <300 | <300 |
| *TOTAL CARCINOGENIC SVOCs | 10,000 ug/kg | ND | ND | ND | ND | 124 | ND | ND | ND | ND | ND |
| TOTAL SVOCs | 500,000 ug/kg | ND | ND | ND | ND | 491 | ND | ND | ND | ND | ND |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.

Bold entries are concentrations in exceedence of NYSDEC TAGM criteria.

* Total Carcinogenic SVOC's limit is < 10ppm as per TAGM #4046

** Samples 33-11/12 E, I, and H were reanalyzed after performing silica gel clean-up procedure 3630C on the extract.

ug/kg Micrograms per kilogram

mg/kg Milligrams per kilogram

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1 NYSDEC's Technical and Administrative Guidance

Memorandum (TAGM) #4046 (Rev. 4/95)

ND Below Detection Limits

N/A Criteria not available

** AOC-33 11C Total = 79 ug/kg, unable to separate isomers.

| Parameters | NYSDC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-11/12F _{FL} | | AOC 33-11/12G _{FL} | | AOC 33-11/12H _{FL} ** | | AOC 33-11/12I _{FL} * | |
|--|--|--|---------|-----------------------------|---------|--------------------------------|---------|-------------------------------|---------|
| | | FLOOR | FLOOR | FLOOR | FLOOR | FLOOR | FLOOR | FLOOR | FLOOR |
| | | 4/28/98 | 4/28/98 | 4/28/98 | 4/28/98 | 4/28/98 | 4/28/98 | 4/28/98 | 4/28/98 |
| | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| <u>Semivolatile Organic Compounds:</u> | | | | | | | | | |
| N-Nitrosodimethylamine | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| Bis (2-Chloroethyl) ether | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| 1,3-Dichlorobenzene | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| 1,4-Dichlorobenzene | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| 1,2-Dichlorobenzene | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| Bis (2-chloroisopropyl) ether | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| N-Nitrosodi-n-propylamine | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| Hexachloroethane | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| Nitrobenzene | 200 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| Isophorone | 4400 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| Bis (2-chloroethoxy) methane | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| 124-Trichlorobenzene | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| Naphthalene | 13000 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| Hexachlorobutadiene | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| Hexachlorocyclopentadiene | N/A | <300 | <300 | <300 | <300 | <300 | <300 | <300 | <300 |
| 2-Chloronaphthalene | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| Dimethyl Phthalate | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| Acenaphthylene | 41000 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| 2,6-Dinitrotoluene | 1000 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| Acenaphthene | 50000 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| 2,4-Dinitrotoluene | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| Diethyl Phthalate | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| Fluorene | 50000 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 |
| 4-Chlorophenyl phenyl ether | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <300 |
| N-Nitrosodiphenylamine | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <300 |
| 1,2-Diphenylhydrazine | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <300 |
| 4-Bromophenyl phenyl ether | N/A | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <300 |
| Hexachlorobenzene | 410 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <300 |
| Phenanthrene | 50000 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <300 |

Footnotes on last page.

| Parameters | NYSDEC TAGM Criteria ¹ (ug/kg) | Sample ID: AOC 33-11/12F _{FL} | | Sample ID: AOC 33-11/12H _{FL} ** | | Sample ID: AOC 33-11/12I _{FL} * | | |
|------------------------------|---|--|-----------------------|---|------------------------|--|--------------|------------------------|
| | | Sample Interval: FLOOR | Date Sampled: 4/28/98 | Units: ug/kg | Sample Interval: FLOOR | Date Sampled: 4/28/98 | Units: ug/kg | Sample Interval: FLOOR |
| Anthracene | 50000 | <30 | <30 | <30 | <30 | <30 | <300 | |
| Di-n-Butyl Phthalate | 8100 | <30 | <30 | <30 | <30 | <30 | <300 | |
| Fluoranthene | 50000 | <30 | <30 | 31 | <30 | <30 | <300 | |
| Benzo(a)anthracene* | N/A | <30 | <30 | <300 | <3000 | <3000 | <30000 | |
| Pyrene | 5000 | <30 | <30 | 32 | <300 | <300 | <3000 | |
| Benzyl Butyl Phthalate | N/A | <30 | <30 | <30 | <300 | <3000 | <3000 | |
| Benzo (a) anthracene* | 224 | <30 | <30 | <30 | <300 | <300 | <300 | |
| 3,3'-Dichlorobenzidine | N/A | <300 | <300 | <300 | <30000 | <30000 | <30000 | |
| Chrysene* | 400 | <30 | <30 | <30 | <300 | <300 | <300 | |
| Bis (2-ethylhexyl) phthalate | 50000 | <30 | <30 | <30 | <300 | <3000 | <3000 | |
| Di-n-octyl Phthalate | 50000 | <30 | <30 | <30 | <3000 | <3000 | <3000 | |
| Benzo (b) fluoranthene* | 224 | <30 | <30 | <30 | <300 | <300 | <300 | |
| Benzo (k) fluoranthene* | 224 | <30 | <30 | <30 | <300 | <300 | <300 | |
| Benzo (a) pyrene* | 61 | <30 | <30 | <30 | <300 | <300 | <300 | |
| Indeno (1,2,3-cd) pyrene* | 3200 | <30 | <30 | <30 | <300 | <300 | <300 | |
| Dibenzo (a,h) anthracene* | 14 | <30 | <30 | <30 | <300 | <300 | <300 | |
| Benzo (ghi) perylene | N/A | <30 | <30 | <30 | <300 | <300 | <300 | |

| | | | | | | | |
|---------------------------|---------------|----|----|----|----|----|----|
| *TOTAL CARCINOGENIC SVOCs | 10,000 ug/kg | ND | ND | ND | ND | ND | ND |
| TOTAL SVOCs | 500,000 ug/kg | ND | ND | 63 | 63 | ND | ND |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.
 Bold entries are concentrations in exceedence of NYSDEC TAGM criteria.
 * Total Carcinogenic SVOC's limit is < 10ppm as per TAGM #4046
 ** Samples 33-11/12 E, I, and H were reanalyzed after performing silica gel clean-up procedure 3630C on the extract.
 ug/kg Micrograms per kilogram
 mg/kg Milligrams per kilogram
 NYSDEC New York State Department of Environmental Conservation
 1 NYSDEC's Technical and Administrative Guidance
 Memorandum (TAGM) #4046 (Rev. 4/95)
 ND Below Detection Limits
 N/A Criteria not available
 ** AOC-33 11C Total = 79 ug/kg, unable to separate isomers.

ENCLOSURE 5

| Parameters | Eastern USA Background ¹ (mg/kg) | NYSDEC TAGM Criteria ¹ (mg/kg) | Sample ID: Sample Interval: Date Sampled: Units: | AOC 6A 5-7' 2/20/98 mg/kg | AOC 6A 8-10' 2/20/98 mg/kg | AOC 6B 2-4' 2/20/98 mg/kg | AOC 6B 5-7' 2/20/98 mg/kg |
|----------------------------------|--|--|---|------------------------------------|-------------------------------------|------------------------------------|------------------------------------|
| Priority Pollutant Metals | | | | | | | |
| Antimony | N/A | N/A | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| Arsenic | 3-12 | 7.5 | 0.73 | 1.7 | <1 | <1 | 0.63 |
| Beryllium | 0-1.75 | 0.16 | 0.05 | 0.33 | 0.08 | 0.06 | 0.1 |
| Cadmium | 0.1-1 | 10 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chromium | 1.5-40 | 50 | 2.9 | 7.8 | 9.2 | 1.7 | 2.4 |
| Copper | 1-50 | 25 | 1.4 | 6.8 | 2.7 | 1.3 | 1.8 |
| Lead | 200-500 | N/A | 1.8 | 5.5 | 2.5 | 1.6 | 1.5 |
| Mercury | 0.001-0.2 | 0.1 | <0.005 | 0.0063 | <0.005 | <0.005 | <0.005 |
| Nickel | 0.5-25 | 13 | 1.2 | 6.4 | 1.8 | 1.1 | 1.9 |
| Selenium | 0.1-3.9 | 2 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Silver | N/A | N/A | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Thallium | N/A | N/A | <1 | <1 | <1 | <1 | <1 |
| Zinc | 9-50 | 20 | 3.1 | 18 | 4.4 | 2.7 | 3.9 |
| % Solids | | | 99 | 89 | 97 | 97 | 96 |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.

Bold entries are concentrations in exceedence of NYSDEC TAGM

Criteria or Eastern USA Background.

mg/kg Milligrams per kilogram

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(TAGM) #4046 (Rev. 4/95)

N/A Criteria not available

* Sample re-analyzed for hexavalent chromium.

-- Not analyzed.

| Parameters | Eastern USA Background ¹ (mg/kg) | NYSDEC TAGM Criteria ¹ (mg/kg) | Sample ID: Sample Interval: Date Sampled: Units: | AOC 6B 8-10' 2/20/98 mg/kg | AOC 6C 2-4' 2/20/98 mg/kg | AOC 6C 5-7' 2/20/98 mg/kg | AOC 6C 8-10' 2/20/98 mg/kg | AOC 6D 5-7' 2/20/98 mg/kg |
|----------------------------------|--|--|---|-------------------------------------|------------------------------------|------------------------------------|-------------------------------------|------------------------------------|
| Priority Pollutant Metals | | | | | | | | |
| Antimony | N/A | N/A | | <1.4 | <1.3 | <1.4 | <1.3 | <1.4 |
| Arsenic | 3-12 | 7.5 | | 1.2 | <1 | 5.1 | <1 | 1.4 |
| Beryllium | 0-1.75 | 0.16 | | 0.14 | 0.1 | 0.19 | 0.12 | 0.11 |
| Cadmium | 0.1-1 | 10 | | <0.1 | 0.38 | <0.1 | <0.1 | 0.64 |
| Chromium | 1.5-40 | 50 | | 10 | 34 | 6.3 | 3.8 | 47 |
| Copper | 1-50 | 25 | | 4.7 | 4.8 | 4.1 | 2 | 7 |
| Lead | 200-500 | N/A | | 3.9 | 8.3 | 4.5 | 2.1 | 4.1 |
| Mercury | 0.001-0.2 | 0.1 | | 0.0073 | 0.017 | 0.011 | <0.005 | 0.007 |
| Nickel | 0.5-25 | 13 | | 3.4 | 2.3 | 2.4 | 1.6 | 3 |
| Selenium | 0.1-3.9 | 2 | | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Silver | N/A | N/A | | 0.24 | <0.2 | <0.2 | <0.2 | <0.2 |
| Thallium | N/A | N/A | | <1 | <1 | <1 | <1 | <1 |
| Zinc | 9-50 | 20 | | 8.9 | 13 | 11 | 5.1 | 35 |
| % Solids | | | | 91 | 93 | 89 | 96 | 91 |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.

Bold entries are concentrations in exceedence of NYSDEC TAGM

Criteria or Eastern USA Background.

mg/kg Milligrams per kilogram

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(TAGM) #4046 (Rev. 4/95)

N/A Criteria not available

* Sample re-analyzed for hexavalent chromium.

-- Not analyzed.

| Parameters | Eastern USA Background ¹ (mg/kg) | NYSDEC TAGM Criteria ¹ (mg/kg) | Sample ID: Sample Interval: Date Sampled: Units: | AOC 6D 8-10' 2/20/98 mg/kg | AOC 6E FLOOR 4/29/98 mg/kg | AOC 6F FLOOR 4/29/98 mg/kg | AOC 6F FLOOR 4/29/98 mg/kg |
|----------------------------------|--|--|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Priority Pollutant Metals | | | | | | | |
| Antimony | N/A | N/A | | <1.5 | <0.2 | <3 | -- |
| Arsenic | 3-12 | 7.5 | | 0.88 | 0.69 | 1.6 | -- |
| Beryllium | 0-1.75 | 0.16 | | 0.08 | 0.08 | 0.11 | -- |
| Cadmium | 0.1-1 | 10 | | 0.22 | <0.1 | 0.91 | -- |
| Chromium | 1.5-40 | 50 | | 21 | 4.3 | 250 | 4.8* |
| Copper | 1-50 | 25 | | 2.9 | 3.1 | 13 | -- |
| Lead | 200-500 | N/A | | 2.9 | 1.4 | 14 | -- |
| Mercury | 0.001-0.2 | 0.1 | | 0.0069 | <0.005 | 0.023 | -- |
| Nickel | 0.5-25 | 13 | | 1.6 | 1.3 | 3.3 | -- |
| Selenium | 0.1-3.9 | 2 | | <0.4 | <0.4 | <0.4 | -- |
| Silver | N/A | N/A | | <0.2 | <0.4 | <0.4 | -- |
| Thallium | N/A | N/A | | <1 | <0.05 | <0.5 | -- |
| Zinc | 9-50 | 20 | | 13 | 2.9 | 50 | -- |
| % Solids | | | | 96 | 96 | 94 | 94 |

Analysis Performed by: Ecotest Laboratories, North Babylon, NY.

Bold entries are concentrations in exceedence of NYSDEC TAGM

Criteria of Eastern USA Background.

mg/kg Milligrams per kilogram

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(TAGM) #4046 (Rev. 4/95)

N/A Criteria not available

* Sample re-analyzed for hexavalent chromium.

-- Not analyzed.