AECOM Environment

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July 2012

Hudson River Operable Unit 2
PCB Sampling and Analysis Report

BASF Rensselaer
Rensselaer, New York

Submitted to NYSDEC: July 2012

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Reviewed By John Bleiler

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1.0 Introduction

BASF Corporation (BASF) has been conducting a remedial investigation (RI) of its former manufacturing facility in Rensselaer, New York (the Site; Figure 1) under the direction of the New York State Department of Environmental Conservation (NYSDEC) since 2001. As part of the RI, BASF has conducted soil and groundwater sampling in the uplands portion of the Site and, based on the results of the RI, has implemented a number of remedial actions including soil removal, installation of a groundwater treatment system, and construction and maintenance of engineering controls.

The RI has also included several phases of Hudson River sediment characterization, including collecting and analyzing several hundred sediment samples, and performing benthic surveys and toxicity tests pursuant to work plans approved by the NYSDEC. All of the results have been provided to the NYSDEC for its review and comment. In 2011, the NYSDEC informed BASF that it considered the RI portion of the sediment project completed and directed BASF to initiate preparation of the Feasibility Study (FS) for the Hudson River sediment.

The sediment RI has found both metals and volatile organic compounds (VOCs) at levels greater than NYSDEC sediment quality criteria in sediment adjacent to the Site. Based on knowledge of historical operations at the Site, it has been concluded that the VOCs and at least a portion of the metals found in sediment adjacent to the Site originated from historic process wastewater discharges from historic Site production sewer lines. These discharges ended in 1973 when two wastewater treatment lagoons and a process wastewater treatment system were constructed and the production sewer lines were closed. No discharges of Site-related constituents from the former production sewers to the river occurred after construction of the wastewater treatment system.

The ongoing FS process is focusing on the Hudson River sediment where the Site-related metals and VOCs have been found. In general, this is the area immediately adjacent to and downstream of the Site (the “FS Study Area”; Figure 2). Previous reports referred to these adjacent and downstream areas as the “Adjacent Nearshore” and “Upper Navigation Channel” areas, respectively.

Sediment sampling conducted adjacent to the Site by another entity, the Empire Generating Project, in 2008 as part of the installation of an outfall in the Hudson River, found polychlorinated biphenyls (PCBs) in some samples at concentrations greater than 50 milligrams per kilogram (mg/kg). As discussed in greater depth in Section 2.1, the New York State Department of Environmental Conservation (NYSDEC) concluded in a letter to BASF in July of 2011 (presented in Appendix A) that the PCBs did not originate on the Site. However, the PCBs are located within the FS Study Area where remedial alternatives will be evaluated to address the metals and VOCs that are present at levels greater than NYSDEC sediment criteria. Therefore, information on the nature and extent of PCBs in the FS Study Area is required to better characterize this area and ensure that any PCBs that may be present in the sediment are managed in accordance with the EPA’s Toxic Substance Control Act (TSCA) regulations (40 CFR 761).

This data summary report presents the results of a supplemental sampling effort conducted in November 2011 to better characterize the extent to which PCBs are present in Hudson River sediment adjacent to the Site (i.e., the FS Study Area). In order to better characterize volumes of sediment potentially impacted by site-related COPCs, the recently completed field effort also included

collection of VOC data, which are also included herein. A summary of previous sediment investigations is presented in Section 2. The methodology used for collecting and analyzing samples was presented in the PCB Sampling and Analysis Work Plan ("Work Plan"; final submittal dated November 4, 2011), and is summarized in Section 3. The analytical results are presented in Section 4. The PCB data presented in this report, in conjunction with the PCB data collected during prior sediment investigations, provides the information necessary to help characterize the nature and extent of PCB impacts for use in the FS alternatives analysis and report.

2.0 Background

2.1 Sediment Investigations

BASF has conducted four phases of sediment investigation in the Hudson River adjacent to, upstream, and downstream of the Site. Additional sediment samples were also collected by representatives of the Empire Generating Project (Empire), the developer of a cogeneration facility on an adjacent property. A brief summary of the investigations and results is presented below.

1. An initial screening level investigation of Hudson River sediment was conducted by BASF in May 2004 at the direction of the NYSDEC. The intent of the sampling was to characterize sediment quality in the vicinity of three historic industrial sewer outfalls and two active municipal storm sewer outfalls located adjacent to the Site (Figure 3). The sampling was conducted pursuant to a work plan approved by the NYSDEC. The results of the sampling found several VOCs and metals at levels greater than NYSDEC sediment screening criteria (Roux Associates, 2004).
2. Based on the results of the 2004 investigation, a second phase of sampling was conducted in the winter of 2005 through the spring of 2006. This investigation was conducted pursuant to a work plan approved by the NYSDEC. The investigation consisted of conducting bathymetric and geophysical studies, collecting surface water and sediment samples in several areas adjacent to, downstream of and upstream of the Site, and conducting a benthic macroinvertebrate community characterization. Similar to the results of the initial sediment screening investigation, VOCs and metals were found in sediment adjacent to the Site at levels greater than NYSDEC sediment screening criteria (ENSR-AECOM, 2007).
3. A third phase of sediment investigation was conducted in the winter of 2007/2008. The investigation was conducted in accordance with a work plan approved by the NYSDEC. The scope of work included collection of additional sediment samples to address data gaps identified following the 2005 – 2006 investigation as well as conducting chronic duration sediment toxicity tests at a number of locations. The results of the investigation found that VOCs were present in sediment at levels greater than NYSDEC sediment screening criteria in sediment immediately adjacent to the Site, and that metals were present at levels greater than NYSDEC sediment screening criteria in sediment adjacent to and immediately downstream of the Site. The investigation concluded that there were areas of benthic impairment due to potential exposures to VOCs and metals (AECOM, 2009). The report to the NYSDEC recommended some additional limited characterization activities designed to support the FS and a supplemental work plan was provided to the NYSDEC.
4. While the results of the 2007/2008 sediment investigation were being evaluated and a report and supplemental work plan were being prepared for submission to the NYSDEC, the developer of a cogeneration facility on an adjacent property conducted a limited sediment investigation designed to characterize sediment that would be removed during installation of an outfall pipe in the Hudson River adjacent to the Site. Empire collected nine sediment samples from three sediment cores located to the south of an area in which Empire intended to install a process outfall from the cogeneration facility (Figure 4).

   Similar to the results of the investigations conducted by BASF, Empire found VOCs and metals at levels greater than NYSDEC sediment screening criteria. However, Empire also

found PCBs at levels above the NYSDEC sediment screening criteria, and in three of the nine samples, the PCBs were found at levels greater than 50 mg/kg. The sole PCB mixture in the samples was Aroclor 1242. The concentrations of the PCBs in the sediment samples collected by Empire ranged from less than the detection limit to 220 mg/kg (Figure 5). Empire provided the results of its investigation to BASF in early 2009 and BASF reported these results to the NYSDEC shortly thereafter.

5. BASF began implementation of the supplemental sampling designed to support the FS in fall of 2009. The effort included collecting an additional 108 sediment samples and analyzing the samples for VOCs and metals. Based on the results of the Empire investigation, it was understood that the NYSDEC would require a portion of the samples to also be analyzed for PCBs, so separate aliquots of the sediment samples were frozen and archived for possible future PCB analysis. In March 2010, the NYSDEC provided direction that 64 of the archived samples were to be analyzed for PCBs. The samples included both surficial sediment as well as samples from as deep as 8 – 10 feet and 10 – 12 feet (Figure 6).

The results of the additional sediment characterization, including the PCB results, were presented to the NYSDEC in a Sediment Nature and Extent Summary Report (AECOM, 2011). As presented to the NYSDEC, the PCB data supported several conclusions:

- The dominant PCB mixture in sediment is Aroclor 1242.
- Aroclor 1254 and Aroclor 1260 are present but at much lower detection frequencies and concentrations.
- Aroclor 1242 was found at concentrations ranging from less than the method detection limit of 44 micrograms per kilogram (µg/kg) to a maximum of 190 mg/kg.
- PCBs were found at levels greater than 50 mg/kg in three of the 64 sediment samples:
  - Two of nine samples collected from the 0.5 – 2 foot interval, and
  - One sample collected from the 2 – 4 foot interval.
- No samples collected from the 0 – 0.5 foot interval or deeper than four feet contained PCBs at levels greater than 50 mg/kg.

Based on the results reported by Empire and the results of the 2009 investigation conducted by BASF, it can be concluded that PCBs are present in sediment adjacent to the Site. Figure 7 provides a summary of all PCB sediment data collected by BASF as of 2009, as well as those data reported by Empire.

2.2 The Site is not the Source of PCBs in Sediment

After Empire reported its results to BASF and the regulatory agencies, BASF conducted a detailed evaluation of the Site history and the data that had been collected in the uplands portion of the Site since initiation of the RI in 2001. An initial submission regarding the source of the PCBs was provided to the NYSDEC in March 2009 and a supplemental submission was provided to the NYSDEC in November 2010 in response to a NYSDEC request for additional information. In summary, BASF concluded that the PCBs did not originate on the Site based on several lines of evidence:

- There is no history of use of PCBs at or delivery of PCBs to the Site. A complete review of operational and material inventory files was conducted, and it was determined that PCBs were not used in any process, technology or treatment system at the Site.

- Upland soil sampling conducted as part of the RI found little evidence of PCB contamination. Three-quarters of the samples collected contained no detectable PCBs and, where PCBs were found in soil, the average concentration of total PCBs was approximately 0.5 mg/kg, and the highest concentration of PCBs was 3.9 mg/kg. Aroclor 1242, the dominant mixture in the sediment, was detected in only one soil sample at a concentration of 0.026 mg/kg.
- Samples of sludge from the former lagoons that are presumed to be the source of the VOCs and a portion of the metals found in sediment did not contain PCBs at elevated levels. Concentrations of Aroclor 1242 and Aroclor 1254 were both approximately 0.5 mg/kg in these sludge samples.
- Because the PCBs are not Site-related, there is no reason to believe that there is any relationship between PCB concentrations and VOC concentrations in river sediment. The VOCs are found in relatively consistent levels throughout much of the nearshore sediment while, as stated previously, the PCB concentrations vary widely both horizontally and vertically.
- The Hudson River database[1] shows that Aroclor 1242 is present at elevated concentrations both upstream and downstream of the Site.

Based on the above lines of evidence, the NYSDEC (in a July 2011 letter) concurred with BASF's conclusion that the Site was not the source of the PCBs. A copy of the NYSDEC letter is included as Appendix A.

2.3 Objectives of the 2011 PCB Sampling and Analysis

Based on review of the existing PCB sediment data, three primary objectives were identified in the Work Plan in order to comply with the NYSDEC's requirement that BASF "properly characterize and remediate PCB contaminated sediment that is comingled with contamination that is caused by its operations…" (NYSDEC, July 2011). The three objectives were to:

1. Define the extent to which PCBs are present at levels greater than 50 mg/kg so as to properly manage sediment material pursuant to 40 CFR 761 in areas of the FS Study Area where remedial actions may be needed to address Site-related VOCs and metals;
2. Better characterize the distribution of PCBs in the Northern FS Study Area (i.e., sediments immediately adjacent to the Site), where the VOCs are present, to identify those locations where PCBs will need to be managed pursuant to TSCA; and
3. Characterize the PCBs in sediment in the Southern FS Study Area for proper management of the sediment.

In addition to characterizing the distribution of PCBs in the FS Study Area, a secondary objective of the 2009-2010 sampling program was to better characterize the extent of VOCs at the Site for FS alternatives analysis purposes. This objective was achieved through collection of VOC data at all sampling locations where PCB data were collected.

[1] EPA. 1998. Hudson River PCBs Reassessment RI/FS. Prepared for USEPA Region 2 and USACE Kansas City District. July 1998.

A summary of the sampling and analysis plan implemented to support these objectives is presented in Section 3 and the analytical data is presented in Section 4.

3.0 Overview of PCB Sampling and Analysis Activities

In November 2011, a total of 261 surficial and sub-surficial sediment samples were collected in the FS Study Area (Figures 8 and 9, respectively). A grid sampling design was used in both study areas; locations were set at 80-ft triangular centers and 160-ft triangular centers in the Northern and Southern FS Study Areas, respectively. This sampling design is similar to EPA-approved sediment characterization plans implemented elsewhere on the Hudson River[2], and provides the level of characterization needed to meet the stated objectives of the Work Plan and to support the FS. A summary of the sampling collection and analyses in the Northern FS and Southern FS Study Areas are presented in the following sections.

3.1 Northern FS Study Area

Sediment cores were collected at 74 locations within the Northern FS Study Area based on a sampling grid of 80-ft triangular centers (Figure 8). This sampling grid and frequency was determined based on the presence of VOCs and metals throughout this area and represented a high density sampling design to determine the distribution of PCBs in the sediment. A total of 242 sediment core samples, including quality control samples, were collected at 74 locations. Within each core, samples were collected at 2-ft intervals, to a maximum of 12-ft (up to six samples per station). The maximum depth of coring at each sampling location was pre-determined based on existing sediment quality data reported in the Nature and Extent Report to encompass depths of known VOC impacts. The maximum depth of coring ranged from 2.6 ft (SD181) to 11.4 ft (SD213).

3.2 Southern FS Study Area

Surficial grab samples (0 to 6 inches [0 to 15 cm]) were collected at 17 locations in the Southern FS Study Area based on a sampling grid of 160-ft triangular centers (Figure 9). A total of 19 surface sediment grab samples, including quality control samples, were collected at 17 locations. This gridded spacing was selected because it was unknown whether the Site had impacted this area. Prior to the 2009 sampling, the Southern FS Study Area was not known to contain VOCs (the primary benthic risk driver) and was characterized by a thin layer of sediment atop an area that had been historically dredged for navigational purposes.

3.3 Sampling and Analysis Procedures

A summary of the field procedures, including the collection of sample duplicates and other field quality control samples, was presented in the Work Plan and in detail in the NYSDEC-approved Work Plan for the Hudson River OU-2 Investigation (ENSR, 2007) and the Quality Assurance Project Plan and associated addendums. Cores and grabs were collected via boat-mounted vibracoring (or drilling) and grab equipment with an assumed depth of up to 12-ft below sediment surface as the target depth.

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[2] BASF understands that EPA Region 2 has previously approved a similar sampling program at a large upstream Hudson River PCB site. This approved characterization program included PCB mapping using an 80 foot-on-center grid for high resolution nature and extent determination, and a 160 foot-on-center grid for lower resolution mapping efforts.

Each sample was analyzed for PCB Aroclors (EPA Method SW-846 8082A), total organic carbon (TOC) (method of Lloyd Kahn), and VOCs (EPA Method SW-846 8260B). Data validation was conducted as described in the QAPP and presented in Appendix B.

4.0 Analytical Results

The following sections present the analytical results for the Northern FS and Southern FS Study Areas. The results for the PCB analyses are presented as Total PCBs, which represent the sum of all detected individual aroclors (predominantly Aroclor 1242).

4.1 Northern FS Study Area

The analytical results for Total PCBs detected in surficial and sub-surficial sediment core samples collected in the Northern FS Study Area are presented in Tables 4-1 and 4-2, respectively, and the ranges of concentrations detected in this Study Area are presented on Figure 10. The analytical results for VOCs and TOC detected in surficial and sub-surficial sediment core samples collected in the Northern FS Study Area are presented in Tables 4-3 and 4-4, respectively. The ranges of concentrations of chlorobenzene, the VOC found most frequently at levels greater than NYSDEC criteria, detected in surficial and sub-surficial sediment core samples are presented in comparison to established benthic criteria on Figure 11.

4.1.1 PCB Results

- **Surficial Sediment**: Of the 91 surficial core samples collected (depth of 0 to 2 ft; including 74 samples and 17 field duplicate quality control samples), PCBs were detected in 84 samples. Total PCB concentrations ranged from 0.024 mg/kg to 91 mg/kg, and exceeded 50 mg/kg at the following seven locations: SD210, SD212, SD216, SD219, SD221, SD243, and SD254.

- **Sub-Surficial Sediment**: A total of 151 sub-surficial core samples were collected including 134 samples and 17 field duplicate quality control samples.

    - Of the 72 samples collected from the 2 to 4 foot horizon, including 68 samples and 4 field duplicate quality control samples, PCBs were detected in 57 samples. Total PCB concentrations ranged from 0.062 mg/kg to 110 mg/kg, and exceeded 50 mg/kg at 11 locations: SD208, SD210, SD212, SD213, SD216, SD222, SD229, SD239, SD245, SD250, and SD 254.
    - Of the 42 samples collected from the 4 to 6 foot horizon, including 36 samples and 6 field duplicate quality control samples, PCBs were detected in 35 samples. Total PCB concentrations ranged from 0.029 mg/kg to 67 mg/kg, and exceeded 50 mg/kg at 2 locations: SD256 and SD268.
    - Of the 29 samples collected from the 6 to 8 foot horizon, including 23 samples and 6 field duplicate quality control samples, PCBs were detected in 13 samples. Total PCB concentrations ranged from 0.074 mg/kg to 130 mg/kg, and exceeded 50 mg/kg in a sample and quality control sample at one location: SD256.
    - Of the 7 samples collected from the 8 to 10 foot horizon, including 6 samples and one field duplicate quality control sample, PCBs were detected in one sample (at location SD219) with a total PCB concentration of 0.1 mg/kg.
    - One sample was collected from the 10 to 12 foot horizon at location SD213. PCBs were not detected in this sample.

4.1.2 VOC and TOC Results

- **Surficial Sediment**: VOCs were detected in 85 out of 91 surficial sediment samples (including 74 samples and 17 field duplicate quality control samples) collected in the Northern FS Study Area, and were detected in 37 samples (out of 85 samples total) at concentrations that exceeded the NYSDEC sediment screening criteria.

- **Sub-Surficial Sediment**: A total of 151 sub-surficial core samples were collected including 134 samples and 17 field duplicate quality control samples.

    - Of the 72 samples collected from the 2 to 4 foot horizon (including 68 samples and 4 field duplicate quality control samples), VOCs were detected in 66 samples and at concentrations that exceeded the NYSDEC criteria in 30 samples.
    - VOCs were detected in all 42 samples collected from the 4 to 6 foot horizon (including 36 samples and 6 field duplicate quality control samples), and at concentrations that exceeded the NYSDEC screening criteria in 25 samples.
    - VOCs were detected in all 29 samples collected from the 6 to 8 foot horizon (including 23 samples and 6 field duplicate quality control samples), and at concentrations that exceeded the NYSDEC screening criteria in 18 samples.
    - VOCs were detected in all 7 samples collected from the 8 to 10 foot horizon (including 6 samples and one field duplicate quality control sample), and at concentrations that exceeded the NYSDEC screening criteria in 4 samples.
    - VOCs were detected in the only sample collected from the 10 to 12 foot horizon at a concentration that exceeded the NYSDEC screening criteria.

- **TOC**: The concentrations of TOC ranged from 0.075% to 7.4% in surficial samples and 0.118% to 14.4% in sub-surficial samples.

4.2 Southern FS Study Area

In the Southern FS Study Area, 19 samples were analyzed for PCB Aroclors (including 17 samples and 2 field duplicate quality control samples) and 17 samples (including 16 samples and 1 field duplicate quality control sample) were analyzed for VOCs and TOC. The results of the PCB analyses and VOC and TOC analyses are presented in Table 4-5 and Table 4-6, respectively. The range of total PCB concentrations detected at sampling locations in the Southern FS Study Area are presented in Figure 10, and the range of detected chlorobenzene concentrations relative to benthic criteria are presented in Figure 11.

- PCBs were detected in 18 out of 19 samples.
- Total PCB concentrations ranged from 0.041 mg/kg to 51 mg/kg, and exceeded 50 mg/kg at one location, SD289.
- VOCs were detected in 7 out of 17 samples, at the northern end of the study area, but none detected exceeded the NYSDEC screening criteria.
- TOC ranged from 0.069% to 9.8% surface sediment grab samples collected in the Southern FS Study Area.

5.0 Summary

Sediment core and grab samples were collected in the Hudson River adjacent to the BASF Rensselaer Site in November 2011 to better characterize the PCBs that are located in these areas and to comply with the EPA's Toxic Substance Control Act (TSCA) regulations (40 CFR 761). A total of 242 surficial and sub-surficial sediment core samples were collected at 74 locations in the Northern FS Study Area, and analyzed for PCB Aroclors, VOCs, and TOC. A total of 19 surficial sediment grab samples were collected at 17 locations in the Southern FS Study Area and analyzed for PCB Aroclors; and, 17 samples collected at 17 locations were analyzed for VOCs and TOC in this study area.

In the Northern FS Study Area, PCBs were detected most frequently in the surficial horizon followed by the 2 to 4 foot and 4 to 6 foot horizons. Total PCB concentrations ranged from 0.024 mg/kg to 91 mg/kg in surficial sediment samples and from 0.029 mg/kg to 130 mg/kg in sub-surficial samples (Figure 10). Total PCB concentrations detected in 8 surficial sediment samples and in 15 sub-surficial samples exceeded 50 mg/kg. VOCs were detected in 85 out of 91 surficial sediment samples and 145 out of 151 sub-surficial sediment samples. Concentrations of VOCs measured in 37 surficial and 78 sub-surficial sediment samples exceeded the NYSDEC screening criteria (Figure 11 presents the results for chlorobenzene). TOC ranged from 0.075% to 14.4%.

In the Southern FS Study Area, PCBs were detected in 18 out of 19 surface sediment grab samples with total PCB concentrations ranging from 0.041 mg/kg to 51 mg/kg (Figure 10). Total PCB concentrations detected in one sample (collected at SD289) exceeded 50 mg/kg. VOCs were detected in 7 out of 17 samples collected; none exceeded the relevant NYSDEC screening criteria. TOC ranged from 0.069% to 9.8%.

6.0 References

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Tables

Table 4-1
Summary of PCBs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD181	SD181	SD182	SD183	SD184	SD185	SD186	SD186	SD187	SD188
Date	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011
Sample Identification code	06SD181NF-SC-A-1	06SD181NF-SC-A-2	06SD182NF-SC-A-1	06SD183NF-SC-A-1	06SD184NF-SC-A-1	06SD185NF-SC-A-1	06SD186NF-SC-A-1	06SD186NF-SC-A-2	06SD187NF-SC-A-1	06SD188NF-SC-A-1
Depth interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (ug/kg)										
PCB-1016	180 U	180 U	43 U	65 U	38 U	200 U	58 U	60 U	190 U	62 U
PCB-1221	380 U	370 U	87 U	130 U	76 U	410 U	120 U	120 U	390 U	130 U
PCB-1232	180 U	180 U	43 U	65 U	38 U	200 U	58 U	60 U	190 U	62 U
PCB-1242	290	350	180 J	65 U	200 J	520 J	46 J	63 J	360 J	62 U
PCB-1248	180 U	180 U	43 U	65 U	38 U	200 U	58 U	60 U	190 U	62 U
PCB-1254	180 U	180 U	32 J	65 U	28 J	300 J	58 U	60 U	190 U	62 U
PCB-1260	180 U	180 U	43 U	65 U	38 U	200 U	58 U	60 U	190 U	62 U
Total PCBs Aroclor	290	350	210	130 U	230	820	46	63	360	130 U

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-1
Summary of PCBs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD189	SD190	SD191	SD191	SD192	SD194	SD195	SD196	SD196	SD197
Date	11/17/2011	11/17/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011
Sample Identification code	06SD189NF-SC-A-1	06SD190NF-SC-A-1	06SD191NF-SC-A-1	06SD191NF-SC-A-2	06SD192NF-SC-A-1	06SD194NF-SC-A-1	06SD195NF-SC-A-1	06SD196NF-SC-A-1	06SD196NF-SC-A-2	06SD197NF-SC-A-1
Depth interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (ug/kg)										
PCB-1016	41 U	59 U	200 U	40 U	58 U	53 U	44 U	600 U	620 U	58 U
PCB-1221	84 U	120 U	400 U	82 U	120 U	110 U	88 U	1200 U	1300 U	120 U
PCB-1232	41 U	59 U	200 U	40 U	58 U	53 U	44 U	600 U	620 U	58 U
PCB-1242	200 J	130 J	340	210	76	53 U	24 J	630	1200	58 U
PCB-1248	41 U	59 U	200 U	40 U	58 U	53 U	44 U	600 U	620 U	58 U
PCB-1254	30 J	59 U	200 U	40 U	58 U	53 U	44 U	600 U	620 U	58 U
PCB-1260	41 U	59 U	200 U	40 U	58 U	53 U	44 U	600 U	620 U	58 U
Total PCBs Aroclor	200	130	340	210	76	110 U	24	630	1200	120 U

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-1
Summary of PCBs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD198	SD199	SD200	SD201	SD201	SD202	SD203	SD204	SD205	SD206
Date	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/17/2011	11/17/2011	11/17/2011
Sample Identification code	06SD198NF-SC-A-1	06SD199NF-SC-A-1	06SD200NF-SC-A-1	06SD201NF-SC-A-1	06SD201NF-SC-A-2	06SD202NF-SC-A-1	06SD203NF-SC-A-1	06SD204NF-SC-A-1	06SD205NF-SC-A-1	06SD206NF-SC-A-1
Depth interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (ug/kg)										
PCB-1016	5400 U	230 U	41 U	3600 UJ	3000 U	37 U	6600 U	390 U	5800 U	200 U
PCB-1221	11000 U	470 U	83 U	7300 UJ	6100 U	75 U	13000 U	790 U	12000 U	410 U
PCB-1232	5400 U	230 U	41 U	3600 UJ	3000 U	37 U	6600 U	390 U	5800 U	200 U
PCB-1242	17000	330	41 U	30000 J	15000 J	130	42000	490	15000	450
PCB-1248	5400 U	230 U	41 U	3600 UJ	3000 U	37 U	6600 U	390 U	5800 U	200 U
PCB-1254	5400 U	230 U	41 U	4800 J	2700 J	37 U	6600 U	390 U	5800 U	200 U
PCB-1260	5400 U	230 U	41 U	3600 UJ	3000 U	37 U	6600 U	390 U	5800 U	200 U
Total PCBs Aroclor	17000	330	83 U	35000	18000	130	42000	490	15000	450

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-1
Summary of PCBs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD207	SD208	SD209	SD210	SD211	SD211	SD212	SD213	SD213	SD214
Date	11/17/2011	11/17/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/15/2011
Sample Identification code	06SD207NF-SC-A-1	06SD208NF-SC-A-1	06SD209NF-SC-A-1	06SD210NF-SC-A-1	06SD211NF-SC-A-1	06SD211NF-SC-A-2	06SD212NF-SC-A-1	06SD213NF-SC-A-1	06SD213NF-SC-A-2	06SD214NF-SC-A-1
Depth interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 1 ft
Analyte (ug/kg)										
PCB-1016	460 U	5500 U	42 U	6800 UJ	39 U	39 U	7100 UJ	540 U	540 U	200 U
PCB-1221	930 U	11000 U	85 U	14000 UJ	78 U	78 U	14000 UJ	1100 U	1100 U	400 U
PCB-1232	460 U	5500 U	42 U	6800 UJ	39 U	39 U	7100 UJ	540 U	540 U	200 U
PCB-1242	580	25000 J	240 J	46000 J	170	140	47000 J	2100	2600	250
PCB-1248	460 U	5500 U	42 U	6800 UJ	39 U	39 U	7100 UJ	540 U	540 U	200 U
PCB-1254	460 U	3800 J	35 J	6800 J	39 U	39 U	10000 J	540 U	540 U	200 U
PCB-1260	460 U	5500 U	42 U	6800 UJ	39 U	39 U	7100 UJ	540 U	540 U	200 U
Total PCBs Aroclor	580	29000	270	53000	170	140	57000	2100	2600	250

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-1
Summary of PCBs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD214	SD215	SD216	SD217	SD217	SD218	SD219	SD219	SD220	SD220
Date	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011
Sample Identification code	06SD214NF-SC-A-2	06SD215NF-SC-A-1	06SD216NF-SC-A-1	06SD217NF-SC-A-1	06SD217NF-SC-A-2	06SD218NF-SC-A-1	06SD219NF-SC-A-1	06SD219NF-SC-A-2	06SD220NF-SC-A-1	06SD220NF-SC-A-2
Depth interval	0 - 1 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (ug/kg)										
PCB-1016	200 U	4000 UJ	6600 U	410 U	430 U	410 U	14000 UJ	6500 U	190 U	410 U
PCB-1221	410 U	8200 UJ	13000 U	840 U	870 U	830 U	28000 UJ	13000 U	400 U	830 U
PCB-1232	200 U	4000 UJ	6600 U	410 U	430 U	410 U	14000 UJ	6500 U	190 U	410 U
PCB-1242	460	25000 J	49000 J	700	650	880	79000 J	39000 J	360 J	1400 J
PCB-1248	200 U	4000 UJ	6600 U	410 U	430 U	410 U	14000 UJ	6500 U	190 U	410 U
PCB-1254	200 U	5000 J	11000 J	410 U	430 U	410 U	12000 J	6400 J	190 U	410 U
PCB-1260	200 U	4000 UJ	6600 U	410 U	430 U	410 U	14000 UJ	6500 U	190 U	410 U
Total PCBs Aroclor	460	30000	60000	700	650	880	91000	45000	360	1400

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-1
Summary of PCBs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD221	SD222	SD223	SD224	SD224	SD225	SD226	SD227	SD228	SD228
Date	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011
Sample Identification code	06SD221NF-SC-A-1	06SD222NF-SC-A-1	06SD223NF-SC-A-1	06SD224NF-SC-A-1	06SD224NF-SC-A-2	06SD225NF-SC-A-1	06SD226NF-SC-A-1	06SD227NF-SC-A-1	06SD228NF-SC-A-1	06SD228NF-SC-A-2
Depth interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 1.3 ft	0 - 1.3 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (ug/kg)										
PCB-1016	6700 U	2700 U	190 U	210 U	430 U	2900 U	2800 U	200 U	430 U	210 U
PCB-1221	14000 U	5500 U	400 U	430 U	870 U	6000 U	5800 U	400 U	870 U	430 U
PCB-1232	6700 U	2700 U	190 U	210 U	430 U	2900 U	2800 U	200 U	430 U	210 U
PCB-1242	44000 J	11000	300	690	1100	14000 J	8200	440	710	450
PCB-1248	6700 U	2700 U	190 U	210 U	430 U	2900 U	2800 U	200 U	430 U	210 U
PCB-1254	8300 J	2700 U	190 U	210 U	430 U	2500 J	2800 U	200 U	430 U	210 U
PCB-1260	6700 U	2700 U	190 U	210 U	430 U	2900 U	2800 U	200 U	430 U	210 U
Total PCBs Aroclor	52000	11000	300	690	1100	16000	8200	440	710	450

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-1
Summary of PCBs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD229	SD230	SD231	SD232	SD233	SD235	SD235	SD236	SD237	SD237
Date	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/15/2011	11/15/2011	11/14/2011	11/14/2011	11/14/2011
Sample Identification code	06SD229NF-SC-A-1	06SD230NF-SC-A-1	06SD231NF-SC-A-1	06SD232NF-SC-A-1	06SD233NF-SC-A-1	06SD235NF-SC-A-1	06SD235NF-SC-A-2	06SD236NF-SC-A-1	06SD237NF-SC-A-1	06SD237NF-SC-A-2
Depth interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (ug/kg)										
PCB-1016	6600 U	180 U	200 U	6000 U	6500 U	200 U	40 U	200 U	5300 U	5400 U
PCB-1221	13000 U	370 U	410 U	12000 U	13000 U	410 U	81 U	410 U	11000 U	11000 U
PCB-1232	6600 U	180 U	200 U	6000 U	6500 U	200 U	40 U	200 U	5300 U	5400 U
PCB-1242	45000	330	370	31000	36000 J	410	160 J	240	17000	23000 J
PCB-1248	6600 U	180 U	200 U	6000 U	6500 U	200 U	40 U	200 U	5300 U	5400 U
PCB-1254	6600 U	180 U	200 U	6000 U	5300 J	200 U	27 J	200 U	5300 U	3700 J
PCB-1260	6600 U	180 U	200 U	6000 U	6500 U	200 U	40 U	200 U	5300 U	5400 U
Total PCBs Aroclor	45000	330	370	31000	41000	410	190	240	17000	27000

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-1
Summary of PCBs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD238	SD239	SD241	SD242	SD243	SD244	SD245	SD247	SD248	SD249
Date	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011
Sample Identification code	06SD238NF-SC-A-1	06SD239NF-SC-A-1	06SD241NF-SC-A-1	06SD242NF-SC-A-1	06SD243NF-SC-A-1	06SD244NF-SC-A-1	06SD245NF-SC-A-1	06SD247NF-SC-A-1	06SD248NF-SC-A-1	06SD249NF-SC-A-1
Depth interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (ug/kg)										
PCB-1016	46 U	530 U	39 U	450 U	14000 UJ	57 U	3100 U	39 U	40 U	2800 U
PCB-1221	92 U	1100 U	80 U	910 U	29000 UJ	120 U	6400 U	79 U	81 U	5600 U
PCB-1232	46 U	530 U	39 U	450 U	14000 UJ	57 U	3100 U	39 U	40 U	2800 U
PCB-1242	120 J	940	240 J	620	53000 J	57 U	20000 J	120	160	8000
PCB-1248	46 U	530 U	39 U	450 U	14000 UJ	57 U	3100 U	39 U	40 U	2800 U
PCB-1254	33 J	530 U	43 J	450 U	14000 UJ	57 U	3300 J	39 U	40 U	2800 U
PCB-1260	46 U	530 U	39 U	450 U	14000 UJ	57 U	3100 U	39 U	40 U	2800 U
Total PCBs Aroclor	150	940	280	620	53000	120 U	23000	120	160	8000

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-1
Summary of PCBs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD250	SD250	SD251	SD254	SD255	SD256	SD258	SD259	SD267	SD267
Date	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/10/2011	11/9/2011	11/9/2011	11/10/2011	11/10/2011
Sample Identification code	06SD250NF-SC-A-1	06SD250NF-SC-A-2	06SD251NF-SC-A-1	06SD254NF-SC-A-1	06SD255NF-SC-A-1	06SD256NF-SC-A-1	06SD258NF-SC-A-1	06SD259NF-SC-A-1	06SD267NF-SC-A-1	06SD267NF-SC-A-2
Depth interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (ug/kg)										
PCB-1016	64 U	6400 U	500 U	5100 U	3300 U	3000 U	5500 U	49 U	58 U	550 U
PCB-1221	130 U	13000 U	1000 U	10000 U	6700 U	6000 U	11000 U	100 U	120 U	1100 U
PCB-1232	64 U	6400 U	500 U	5100 U	3300 U	3000 U	5500 U	49 U	58 U	550 U
PCB-1242	64 UJ	43000 J	3900 J	45000 J	19000	6500	25000 J	400 J	390 J	540 J
PCB-1248	64 U	6400 U	500 U	5100 U	3300 U	3000 U	5500 U	49 U	58 U	550 U
PCB-1254	64 UJ	6900 J	610 J	7300 J	3300 U	3000 U	3700 J	110 J	77 J	550 U
PCB-1260	64 U	6400 U	500 U	5100 U	3300 U	3000 U	5500 U	49 U	58 U	550 U
Total PCBs Aroclor	130 U	50000	4500	52000	19000	6500	29000	510	470	540

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-1
Summary of PCBs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD268
Date	11/10/2011
Sample Identification code	06SD268NF-SC-A-1
Depth interval	0 - 2 ft
Analyte (ug/kg)	
PCB-1016	560 U
PCB-1221	1100 U
PCB-1232	560 U
PCB-1242	1000
PCB-1248	560 U
PCB-1254	560 U
PCB-1260	560 U
Total PCBs Aroclor	1000

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-2
Summary of PCBs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD181	SD182	SD183	SD184	SD185	SD186	SD188	SD189	SD190	SD191
Date	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/16/2011
Sample Identification code	06SD181NF-SC-B-1	06SD182NF-SC-B-1	06SD183NF-SC-B-1	06SD184NF-SC-B-1	06SD185NF-SC-B-1	06SD186NF-SC-B-1	06SD188NF-SC-B-1	06SD189NF-SC-B-1	06SD190NF-SC-B-1	06SD191NF-SC-B-1
Depth interval	2 - 2.6 ft	2 - 4 ft	2 - 2.9 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	2 - 3.7 ft
Analyte (ug/kg)										
PCB-1016	370 U	40 U	42 U	390 U	43 U	59 U	54 U	43 U	47 U	43 U
PCB-1221	750 U	82 U	86 U	800 U	87 U	120 U	110 U	88 U	95 U	88 U
PCB-1232	370 U	40 U	42 U	390 U	43 U	59 U	54 U	43 U	47 U	43 U
PCB-1242	1000	40 U	42 U	740 J	43 U	59 U	54 U	45 J	62 J	43 U
PCB-1248	370 U	40 U	42 U	390 U	43 U	59 U	54 U	43 U	47 U	43 U
PCB-1254	370 U	40 U	42 U	390 U	43 U	59 U	54 U	58 J	47 U	43 U
PCB-1260	370 U	40 U	42 U	390 U	43 U	59 U	54 U	43 U	47 U	43 U
Total PCBs Aroclor	1000	82 U	86 U	740	87 U	120 U	110 U	100	62	88 U

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-2
Summary of PCBs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD192	SD194	SD195	SD196	SD197	SD198	SD199	SD200	SD201	SD202
Date	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011
Sample Identification code	06SD192NF-SC-B-1	06SD194NF-SC-B-1	06SD195NF-SC-B-1	06SD196NF-SC-B-1	06SD197NF-SC-B-1	06SD198NF-SC-B-1	06SD199NF-SC-B-1	06SD200NF-SC-B-1	06SD201NF-SC-B-1	06SD202NF-SC-B-1
Depth interval	2 - 3.8 ft	2 - 3.1 ft	2 - 3.6 ft	2 - 3.8 ft	2 - 4 ft	2 - 4 ft	2 - 2.8 ft	2 - 3.6 ft	2 - 3.8 ft	2 - 2.6 ft
Analyte (ug/kg)										
PCB-1016	59 U	62 U	42 U	41 U	46 U	50 U	1300 U	43 U	59 U	190 U
PCB-1221	120 U	130 U	85 U	83 U	94 U	100 U	2600 U	87 U	120 U	380 U
PCB-1232	59 U	62 U	42 U	41 U	46 U	50 U	1300 U	43 U	59 U	190 U
PCB-1242	59 U	62 U	42 U	100	46 U	86	7100 J	43 U	90	310
PCB-1248	59 U	62 U	42 U	41 U	46 U	50 U	1300 U	43 U	59 U	190 U
PCB-1254	59 U	62 U	42 U	41 U	46 U	50 U	910 J	43 U	59 U	190 U
PCB-1260	59 U	62 U	42 U	41 U	46 U	50 U	1300 U	43 U	59 U	190 U
Total PCBs Aroclor	120 U	130 U	85 U	100	94 U	86	8000	87 U	90	310

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-2
Summary of PCBs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD203	SD203	SD203	SD203	SD204	SD205	SD205	SD205	SD206	SD206
Date	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011
Sample Identification code	06SD203NF-SC-B-1	06SD203NF-SC-C-1	06SD203NF-SC-D-1	06SD203NF-SC-D-2	06SD204NF-SC-B-1	06SD205NF-SC-B-1	06SD205NF-SC-C-1	06SD205NF-SC-D-1	06SD206NF-SC-B-1	06SD206NF-SC-B-2
Depth interval	2 - 4 ft	4 - 6 ft	6 - 8 ft	6 - 7.3 ft	2 - 2.4 ft	2 - 4 ft	4 - 6 ft	6 - 6.6 ft	2 - 2.8 ft	2 - 2.8 ft
Analyte (ug/kg)										
PCB-1016	3200 U	46 U	44 U	44 U	420 U	500 U	44 U	43 U	380 U	190 U
PCB-1221	6400 U	93 U	88 U	90 U	850 U	1000 U	90 U	87 U	770 U	390 U
PCB-1232	3200 U	46 U	44 U	44 U	420 U	500 U	44 U	43 U	380 U	190 U
PCB-1242	10000	110	44 U	44 U	960	660	29 J	43 U	510	400
PCB-1248	3200 U	46 U	44 U	44 U	420 U	500 U	44 U	43 U	380 U	190 U
PCB-1254	3200 U	46 U	44 U	44 U	420 U	500 U	44 U	43 U	380 U	190 U
PCB-1260	3200 U	46 U	44 U	44 U	420 U	500 U	44 U	43 U	380 U	190 U
Total PCBs Aroclor	10000	110	88 U	90 U	960	660	29	87 U	510	400

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-2
Summary of PCBs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD207	SD208	SD208	SD208	SD208	SD209	SD209	SD210	SD210	SD210
Date	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011
Sample Identification code	06SD207NF-SC-B-1	06SD208NF-SC-B-1	06SD208NF-SC-C-1	06SD208NF-SC-C-2	06SD208NF-SC-D-1	06SD209NF-SC-B-1	06SD209NF-SC-C-1	06SD210NF-SC-B-1	06SD210NF-SC-C-1	06SD210NF-SC-D-1
Depth interval	2 - 3.7 ft	2 - 4 ft	4 - 6 ft	4 - 6 ft	6 - 8 ft	2 - 4 ft	4 - 6 ft	2 - 4 ft	4 - 6 ft	6 - 7.3 ft
Analyte (ug/kg)										
PCB-1016	58 U	12000 U	47 U	45 U	53 U	520 U	57 U	6900 UJ	6000 U	250 U
PCB-1221	120 U	24000 U	95 U	92 U	110 U	1100 U	110 U	14000 UJ	12000 U	520 U
PCB-1232	58 U	12000 U	47 U	45 U	53 U	520 U	57 U	6900 UJ	6000 U	250 U
PCB-1242	160 J	63000 J	81 J	45 UJ	53 U	2400 J	57 U	63000 J	23000 J	540
PCB-1248	58 U	12000 U	47 U	45 U	53 U	520 U	57 U	6900 UJ	6000 U	250 U
PCB-1254	58 U	7900 J	96 J	98	53 U	620 J	57 U	11000 J	4700 J	250 U
PCB-1260	58 U	12000 U	47 U	45 U	53 U	520 U	57 U	6900 UJ	6000 U	250 U
Total PCBs Aroclor	160	71000	180	98	110 U	3000	110 U	74000	28000	540

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-2
Summary of PCBs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD210	SD211	SD212	SD212	SD212	SD212	SD213	SD213	SD213	SD213
Date	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011
Sample Identification code	06SD210NF-SC-D-2	06SD211NF-SC-B-1	06SD212NF-SC-B-1	06SD212NF-SC-C-1	06SD212NF-SC-D-1	06SD212NF-SC-E-1	06SD213NF-SC-B-1	06SD213NF-SC-C-1	06SD213NF-SC-D-1	06SD213NF-SC-E-1
Depth interval	6 - 7.3 ft	2 - 3.3 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 8.9 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft
Analyte (ug/kg)										
PCB-1016	290 U	38 U	8800 UJ	5700 U	51 U	43 U	36000 UJ	7000 UJ	6100 U	63 U
PCB-1221	590 U	78 U	18000 UJ	12000 U	100 U	88 U	73000 UJ	14000 UJ	12000 U	130 U
PCB-1232	290 U	38 U	8800 UJ	5700 U	51 U	43 U	36000 UJ	7000 UJ	6100 U	63 U
PCB-1242	370 J	180	63000 J	13000	51 U	43 U	61000 J	31000 J	22000 J	63 U
PCB-1248	290 U	38 U	8800 UJ	5700 U	51 U	43 U	36000 UJ	7000 UJ	6100 U	63 U
PCB-1254	290 U	38 U	16000 J	5700 U	51 U	43 U	36000 UJ	5500 J	7300 J	63 U
PCB-1260	290 U	38 U	8800 UJ	5700 U	51 U	43 U	36000 UJ	7000 U	6100 U	63 U
Total PCBs Aroclor	370	180	79000	13000	100 U	88 U	61000	36000	29000	130 U

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-2
Summary of PCBs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD213	SD215	SD215	SD215	SD215	SD216	SD216	SD216	SD216	SD217
Date	11/16/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011
Sample Identification code	06SD213NF-SC-F-1	06SD215NF-SC-B-1	06SD215NF-SC-C-1	06SD215NF-SC-D-1	06SD215NF-SC-D-2	06SD216NF-SC-B-1	06SD216NF-SC-C-1	06SD216NF-SC-D-1	06SD216NF-SC-E-1	06SD217NF-SC-B-1
Depth interval	10 - 11.4 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	6 - 8 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 8.9 ft	2 - 3 ft
Analyte (ug/kg)										
PCB-1016	49 U	510 U	700 UJ	70 UJ	71 UJ	7700 UJ	3200 U	48 U	51 U	410 U
PCB-1221	99 U	1000 U	1400 UJ	140 UJ	140 UJ	16000 UJ	6600 U	98 U	100 U	830 U
PCB-1232	49 U	510 U	700 UJ	70 UJ	71 UJ	7700 UJ	3200 U	48 U	51 U	410 U
PCB-1242	49 U	510 U	700 UJ	70 UJ	71 UJ	60000 J	19000 J	110	51 U	560
PCB-1248	49 U	510 U	700 UJ	70 UJ	71 UJ	7700 UJ	3200 U	48 U	51 U	410 U
PCB-1254	49 U	1600	700 UJ	70 UJ	71 UJ	12000 J	4800 J	48 U	51 U	410 U
PCB-1260	49 U	510 U	700 UJ	70 UJ	71 UJ	7700 UJ	3200 U	48 U	51 U	410 U
Total PCBs Aroclor	99 U	1600	1400 U	140 U	140 U	72000	24000	110	100 U	560

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-2
Summary of PCBs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD218	SD219	SD219	SD219	SD219	SD220	SD221	SD221	SD221	SD221
Date	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011
Sample Identification code	06SD218NF-SC-B-1	06SD219NF-SC-B-1	06SD219NF-SC-C-1	06SD219NF-SC-D-1	06SD219NF-SC-E-1	06SD220NF-SC-B-1	06SD221NF-SC-B-1	06SD221NF-SC-C-1	06SD221NF-SC-D-1	06SD221NF-SC-E-1
Depth interval	2 - 3.1 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 8.9 ft	2 - 2.5 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 9.2 ft
Analyte (ug/kg)										
PCB-1016	440 U	3000 U	56 U	44 U	45 U	210 U	46 U	42 U	42 U	43 U
PCB-1221	900 U	6200 U	110 U	89 U	92 U	430 U	92 U	86 U	84 U	87 U
PCB-1232	440 U	3000 U	56 U	44 U	45 U	210 U	46 U	42 U	42 U	43 U
PCB-1242	1000 J	21000 J	46 J	74	100	380	46 U	42 U	42 U	43 U
PCB-1248	440 U	3000 U	56 U	44 U	45 U	210 U	46 U	42 U	42 U	43 U
PCB-1254	520 J	4600 J	56 U	44 U	45 U	210 U	46 U	42 U	42 U	43 U
PCB-1260	440 U	3000 U	56 U	44 U	45 U	210 U	46 U	42 U	42 U	43 U
Total PCBs Aroclor	1500	26000	46	74	100	380	92 U	86 U	84 U	87 U

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-2
Summary of PCBs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD222	SD222	SD222	SD222	SD223	SD225	SD225	SD225	SD225	SD226
Date	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011
Sample Identification code	06SD222NF-SC-B-1	06SD222NF-SC-C-1	06SD222NF-SC-C-2	06SD222NF-SC-D-1	06SD223NF-SC-B-1	06SD225NF-SC-B-1	06SD225NF-SC-C-1	06SD225NF-SC-D-1	06SD225NF-SC-D-2	06SD226NF-SC-B-1
Depth interval	2 - 4 ft	4 - 6 ft	4 - 6 ft	6 - 8 ft	2 - 3.6 ft	2 - 4 ft	4 - 6 ft	6 - 7.9 ft	6 - 7.9 ft	2 - 4 ft
Analyte (ug/kg)										
PCB-1016	14000 UJ	3400 UJ	3500 UJ	43 U	390 U	44 U	42 U	45 U	45 U	6400 U
PCB-1221	29000 UJ	6900 UJ	7100 UJ	88 U	800 U	89 U	85 U	92 U	91 U	13000 U
PCB-1232	14000 UJ	3400 UJ	3500 UJ	43 U	390 U	44 U	42 U	45 U	45 U	6400 U
PCB-1242	94000 J	22000 J	25000 J	43 U	650	44 U	42 U	45 U	45 U	43000 J
PCB-1248	14000 UJ	3400 UJ	3500 UJ	43 U	390 U	44 U	42 U	45 U	45 U	6400 U
PCB-1254	16000 J	4900 J	4700 J	43 U	390 U	110	42 U	45 U	45 U	6200 J
PCB-1260	14000 UJ	3400 UJ	3500 UJ	43 U	390 U	44 U	42 U	45 U	45 U	6400 U
Total PCBs Aroclor	110000	27000	30000	88 U	650	110	85 U	92 U	91 U	49000

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-2
Summary of PCBs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD226	SD226	SD226	SD226	SD228	SD229	SD229	SD229	SD229	SD231
Date	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011
Sample Identification code	06SD226NF-SC-C-1	06SD226NF-SC-D-1	06SD226NF-SC-E-1	06SD226NF-SC-E-2	06SD228NF-SC-B-1	06SD229NF-SC-B-1	06SD229NF-SC-C-1	06SD229NF-SC-D-1	06SD229NF-SC-D-2	06SD231NF-SC-B-1
Depth interval	4 - 6 ft	6 - 8 ft	8 - 9.8 ft	8 - 9.8 ft	2 - 3.2 ft	2 - 4 ft	4 - 6 ft	6 - 7.5 ft	6 - 7.5 ft	2 - 4 ft
Analyte (ug/kg)										
PCB-1016	270 U	69 UJ	44 U	41 U	420 U	14000 UJ	240 U	43 U	43 U	400 U
PCB-1221	550 U	140 UJ	89 U	83 U	850 U	29000 UJ	490 U	88 U	87 U	820 U
PCB-1232	270 U	69 UJ	44 U	41 U	420 U	14000 UJ	240 U	43 U	43 U	400 U
PCB-1242	720 J	69 UJ	44 U	41 U	670	84000 J	260	310 J	250 J	600
PCB-1248	270 U	69 UJ	44 U	41 U	420 U	14000 UJ	240 U	43 U	43 U	400 U
PCB-1254	620 J	69 UJ	44 U	41 U	420 U	13000 J	240 U	54 J	49 J	400 U
PCB-1260	270 U	69 UJ	44 U	41 U	420 U	14000 UJ	240 U	43 U	43 U	400 U
Total PCBs Aroclor	1300	140 U	89 U	83 U	670	97000	260	360	300	600

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-2
Summary of PCBs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD231	SD231	SD231	SD232	SD232	SD233	SD233	SD236	SD237	SD237
Date	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011
Sample Identification code	06SD231NF-SC-C-1	06SD231NF-SC-C-2	06SD231NF-SC-D-1	06SD232NF-SC-B-1	06SD232NF-SC-C-1	06SD233NF-SC-B-1	06SD233NF-SC-C-1	06SD236NF-SC-B-1	06SD237NF-SC-B-1	06SD237NF-SC-C-1
Depth interval	4 - 6 ft	4 - 6 ft	6 - 7.4 ft	2 - 4 ft	4 - 4.6 ft	2 - 4 ft	4 - 5.1 ft	2 - 3.8 ft	2 - 4 ft	4 - 5.3 ft
Analyte (ug/kg)										
PCB-1016	480 U	470 U	5300 U	570 U	440 U	6000 U	48 U	430 U	2700 U	46 U
PCB-1221	970 U	960 U	11000 U	1200 U	890 U	12000 U	98 U	870 U	5600 U	93 U
PCB-1232	480 U	470 U	5300 U	570 U	440 U	6000 U	48 U	430 U	2700 U	46 U
PCB-1242	2200 J	1600	37000 J	2200 J	710 J	27000 J	62	540	9000	46 U
PCB-1248	480 U	470 U	5300 U	570 U	440 U	6000 U	48 U	430 U	2700 U	46 U
PCB-1254	370 J	470 U	5400 J	360 J	350 J	4400 J	48 U	430 U	2700 U	46 U
PCB-1260	480 U	470 U	5300 U	570 U	440 U	6000 U	48 U	430 U	2700 U	46 U
Total PCBs Aroclor	2600	1600	42000	2600	1100	31000	62	540	9000	93 U

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-2
Summary of PCBs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD238	SD239	SD239	SD239	SD239	SD241	SD241	SD242	SD242	SD242
Date	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011
Sample Identification code	06SD238NF-SC-B-1	06SD239NF-SC-B-1	06SD239NF-SC-C-1	06SD239NF-SC-C-2	06SD239NF-SC-D-1	06SD241NF-SC-B-1	06SD241NF-SC-C-1	06SD242NF-SC-B-1	06SD242NF-SC-C-1	06SD242NF-SC-C-2
Depth interval	2 - 2.7 ft	2 - 4 ft	4 - 6 ft	4 - 6 ft	6 - 8 ft	2 - 4 ft	4 - 5.5 ft	2 - 4 ft	4 - 6 ft	4 - 5 ft
Analyte (ug/kg)										
PCB-1016	41 U	6300 U	220 U	240 U	51 U	430 U	430 U	5300 U	470 U	480 U
PCB-1221	84 U	13000 U	450 U	480 U	100 U	860 U	870 U	11000 U	940 U	970 U
PCB-1232	41 U	6300 U	220 U	240 U	51 U	430 U	430 U	5300 U	470 U	480 U
PCB-1242	41 U	50000 J	520 J	440 J	51 U	510	650	41000 J	630 J	1100 J
PCB-1248	41 U	6300 U	220 U	240 U	51 U	430 U	430 U	5300 U	470 U	480 U
PCB-1254	41 U	8200 J	180 J	210 J	51 U	430 U	430 U	5000 J	470 U	480 U
PCB-1260	41 U	6300 U	220 U	240 U	51 U	430 U	430 U	5300 U	470 U	480 U
Total PCBs Aroclor	84 U	58000	700	650	100 U	510	650	46000	630	1100

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-2
Summary of PCBs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD243	SD243	SD244	SD244	SD244	SD245	SD245	SD247	SD247	SD247
Date	11/14/2011	11/14/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011
Sample Identification code	06SD243NF-SC-B-1	06SD243NF-SC-C-1	06SD244NF-SC-B-1	06SD244NF-SC-B-2	06SD244NF-SC-C-1	06SD245NF-SC-B-1	06SD245NF-SC-C-1	06SD247NF-SC-B-1	06SD247NF-SC-B-2	06SD247NF-SC-C-1
Depth interval	2 - 4 ft	4 - 5.3 ft	2 - 4 ft	2 - 4 ft	4 - 5.8 ft	2 - 4 ft	4 - 5.6 ft	2 - 4 ft	2 - 4 ft	4 - 4.5 ft
Analyte (ug/kg)										
PCB-1016	2600 U	2500 U	4500 U	45 U	42 U	12000 U	460 U	210 U	200 U	260 U
PCB-1221	5300 U	5000 U	9100 U	91 U	86 U	24000 U	930 U	420 U	410 U	530 U
PCB-1232	2600 U	2500 U	4500 U	45 U	42 U	12000 U	460 U	210 U	200 U	260 U
PCB-1242	11000 J	12000 J	26000 J	45 UJ	42 U	61000	2100 J	310	250	380
PCB-1248	2600 U	2500 U	4500 U	45 U	42 U	12000 U	460 U	210 U	200 U	260 U
PCB-1254	1800 J	2500 J	3500 J	45 U	42 U	12000 U	450 J	210 U	200 U	260 U
PCB-1260	2600 U	2500 U	4500 U	45 U	42 U	12000 U	460 U	210 U	200 U	260 U
Total PCBs Aroclor	13000	14000	29000	91 U	86 U	61000	2500	310	250	380

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-2
Summary of PCBs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD248	SD248	SD249	SD249	SD249	SD250	SD250	SD250	SD251	SD254
Date	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011
Sample Identification code	06SD248NF-SC-B-1	06SD248NF-SC-C-1	06SD249-NF-SC-B-1	06SD249NF-SC-C-1	06SD249NF-SC-D-1	06SD250NF-SC-B-1	06SD250NF-SC-C-1	06SD250NF-SC-D-1	06SD251NF-SC-B-1	06SD254NF-SC-B-1
Depth interval	2 - 4 ft	4 - 4.6 ft	2 - 4 ft	4 - 6 ft	6 - 6.4 ft	2 - 4 ft	4 - 6 ft	6 - 7.3 ft	2 - 3 ft	2 - 4 ft
Analyte (ug/kg)										
PCB-1016	42 U	2500 U	5400 U	2400 U	45 U	6100 U	450 U	42 U	43 U	11000 U
PCB-1221	84 U	5000 U	11000 U	4800 U	92 U	12000 U	920 U	84 U	88 U	23000 U
PCB-1232	42 U	2500 U	5400 U	2400 U	45 U	6100 U	450 U	42 U	43 U	11000 U
PCB-1242	92	7700	26000 J	10000 J	45 U	50000 J	4200 J	42 U	43 U	75000 J
PCB-1248	42 U	2500 U	5400 U	2400 U	45 U	6100 U	450 U	42 U	43 U	11000 U
PCB-1254	42 U	2500 U	5000 J	2400 J	45 U	9200 J	1200 J	42 U	43 U	12000 J
PCB-1260	42 U	2500 U	5400 U	2400 U	45 U	6100 U	450 U	42 U	43 U	11000 U
Total PCBs Aroclor	92	7700	31000	12000	92 U	59000	5400	84 U	88 U	87000

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-2
Summary of PCBs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD254	SD254	SD255	SD255	SD255	SD256	SD256	SD256	SD256	SD258
Date	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/10/2011	11/10/2011	11/10/2011	11/10/2011	11/9/2011
Sample Identification code	06SD254NF-SC-C-1	06SD254NF-SC-C-2	06SD255NF-SC-B-1	06SD255NF-SC-C-1	06SD255NF-SC-D-1	06SD256NF-SC-B-1	06SD256NF-SC-C-1	06SD256NF-SC-D-1	06SD256NF-SC-D-2	06SD258NF-SC-B-1
Depth interval	4 - 6 ft	4 - 6 ft	2 - 4 ft	4 - 6 ft	6 - 7.2 ft	2 - 4 ft	4 - 6 ft	6 - 6.8 ft	6 - 6.8 ft	2 - 4 ft
Analyte (ug/kg)										
PCB-1016	470 U	460 U	2900 U	580 U	57 U	6400 U	31000 U	31000 U	13000 U	490 U
PCB-1221	960 U	930 U	5900 U	1200 U	120 U	13000 U	62000 U	64000 U	25000 U	1000 U
PCB-1232	470 U	460 U	2900 U	580 U	57 U	6400 U	31000 U	31000 U	13000 U	490 U
PCB-1242	790	990	12000	3200 J	140	18000	62000	130000 J	64000 J	1300
PCB-1248	470 U	460 U	2900 U	580 U	57 U	6400 U	31000 U	31000 U	13000 U	490 U
PCB-1254	470 U	460 U	2900 U	910 J	57 U	6400 U	31000 U	31000 U	11000 J	490 U
PCB-1260	470 U	460 U	2900 U	580 U	57 U	6400 U	31000 U	31000 U	13000 U	490 U
Total PCBs Aroclor	790	990	12000	4100	140	18000	62000	130000	75000	1300

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-2
Summary of PCBs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD258	SD258	SD259	SD259	SD267	SD267	SD267	SD268	SD268	SD268
Date	11/9/2011	11/9/2011	11/9/2011	11/9/2011	11/10/2011	11/10/2011	11/10/2011	11/10/2011	11/10/2011	11/10/2011
Sample Identification code	06SD258NF-SC-C-1	06SD258NF-SC-D-1	06SD259NF-SC-B-1	06SD259NF-SC-C-1	06SD267NF-SC-B-1	06SD267NF-SC-C-1	06SD267NF-SC-D-1	06SD268NF-SC-B-1	06SD268NF-SC-B-2	06SD268NF-SC-C-1
Depth interval	4 - 6 ft	6 - 8 ft	2 - 4 ft	4 - 6 ft	2 - 4 ft	4 - 6 ft	6 - 7.9 ft	2 - 4 ft	2 - 4 ft	4 - 6 ft
Analyte (ug/kg)										
PCB-1016	52 U	45 U	2700 U	5500 U	5200 U	5800 U	450 U	5500 U	5500 U	27000 U
PCB-1221	110 U	92 U	5500 U	11000 U	11000 U	12000 U	920 U	11000 U	11000 U	54000 U
PCB-1232	52 U	45 U	2700 U	5500 U	5200 U	5800 U	450 U	5500 U	5500 U	27000 U
PCB-1242	52 U	45 U	7600	33000	22000	26000 J	3600 J	11000	7600	67000
PCB-1248	52 U	45 U	2700 U	5500 U	5200 U	5800 U	450 U	5500 U	5500 U	27000 U
PCB-1254	52 U	45 U	2700 U	5500 U	5200 U	7900 J	1200 J	5500 U	5500 U	27000 U
PCB-1260	52 U	45 U	2700 U	5500 U	5200 U	5800 U	450 U	5500 U	5500 U	27000 U
Total PCBs Aroclor	110 U	92 U	7600	33000	22000	34000	4800	11000	7600	67000

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-2
Summary of PCBs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

Location	SD268
Date	11/10/2011
Sample Identification code	06SD268NF-SC-D-1
Depth interval	6 - 7.8 ft
Analyte (ug/kg)	
PCB-1016	5300 U
PCB-1221	11000 U
PCB-1232	5300 U
PCB-1242	28000 J
PCB-1248	5300 U
PCB-1254	4800 J
PCB-1260	5300 U
Total PCBs Aroclor	33000

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit
ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-3
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD181	SD181	SD182	SD183	SD184	SD185
		Date	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011
		Sample Identification Code	06SD181NF-SC-A-1	06SD181NF-SC-A-2	06SD182NF-SC-A-1	06SD183NF-SC-A-1	06SD184NF-SC-A-1	06SD185NF-SC-A-1
		Depth Interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	9.6 U	R	2.1 U	0.31 U	1.9 U	3.9 U
1,2,4-TRICHLOROBENZENE	91	910	9.6 U	R	0.32 J	0.31 U	1.9 U	3.9 U
1,2-DICHLOROBENZENE	12	120	9.6 U	R	2.1 U	0.31 U	1.9 U	3.9 U
1,2-DICHLOROETHANE	NC	NC	9.6 U	R	2.1 U	0.31 U	1.9 U	3.9 U
1,3-DICHLOROBENZENE	12	120	9.6 U	R	2.1 U	0.31 U	1.9 U	3.9 U
1,4-DICHLOROBENZENE	12	120	9.6 U	R	2.1 U	0.31 U	1.9 U	3.9 U
2-BUTANONE (MEK)	NC	NC	9.6 U	R	2.1 U	2	3.2	2.7 J
ACETONE	NC	NC	2.3 J	15 J	3.0 U	5.9	10 J	10
BENZENE	28	103	9.6 U	R	2.1 U	0.31 U	1.9 U	3.9 U
CARBON DISULFIDE	NC	NC	0.93 J	0.99 J	0.18 J	0.031 J	0.70 J	0.81 J
CHLOROBENZENE	3.5	34.6	9.6 U	R	2.1 U	0.31 U	1.9 U	3.9 U
CHLOROMETHANE	NC	NC	9.6 U	R	2.1 U	0.31 U	1.9 U	3.9 UJ
CYCLOHEXANE	NC	NC	9.6 U	R	2.1 U	0.31 U	1.9 U	3.9 U
ETHYLBENZENE	24	212	9.6 U	R	2.1 U	0.31 U	1.9 U	3.9 U
ISOPROPYLBENZENE	12	105	9.6 U	R	2.1 U	0.31 U	1.9 U	3.9 U
M,P-XYLENES	NC	NC	19 U	R	4.4 U	0.59 U	3.7 U	7.5 U
METHYL ACETATE	NC	NC	9.6 U	14 J	2.1 U	0.31 U	1.9 U	3.9 U
METHYLCYCLOHEXANE	NC	NC	9.6 U	R	2.1 U	0.12 J	1.9 U	3.9 U
METHYLENE CHLORIDE	NC	NC	9.6 U	R	2.1 U	0.31 U	1.9 U	3.9 U
O-XYLENE	NC	NC	9.6 U	R	2.1 U	0.31 U	1.9 U	3.9 U
TOLUENE	49	235	9.6 U	1.9 J	2.1 U	0.31 U	1.9 U	0.58 J
TOTAL ORGANIC CARBON (%)	--	--	0.075	0.08	0.27	3.89	0.3	0.173

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater
than any standard are not colored.

Table 4-3
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD186	SD186	SD187	SD188	SD189	SD190
		Date	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011
		Sample Identification Code	06SD186NF-SC-A-1	06SD186NF-SC-A-2	06SD187NF-SC-A-1	06SD188NF-SC-A-1	06SD189NF-SC-A-1	06SD190NF-SC-A-1
		Depth Interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	0.25 U	0.18 U	2.7 U	0.22 UJ	R	0.18 U
1,2,4-TRICHLOROBENZENE	91	910	0.25 U	0.18 U	2.7 U	0.22 UJ	R	0.18 U
1,2-DICHLOROBENZENE	12	120	0.25 U	0.18 U	2.7 U	0.22 UJ	R	0.18 U
1,2-DICHLOROETHANE	NC	NC	0.25 U	0.18 U	2.7 U	0.22 UJ	2.6 UJ	0.18 U
1,3-DICHLOROBENZENE	12	120	0.25 U	0.18 U	2.7 U	0.22 UJ	R	0.18 U
1,4-DICHLOROBENZENE	12	120	0.25 U	0.18 U	2.7 U	0.22 UJ	R	0.18 U
2-BUTANONE (MEK)	NC	NC	1.5 J	0.73 J	2.7 U	1.2 J	2.6 UJ	0.92
ACETONE	NC	NC	7 J	3.1 J	7.2	4.8 J	1.5 J	3.9
BENZENE	28	103	0.25 U	0.18 U	2.7 U	0.22 UJ	2.6 UJ	0.18 U
CARBON DISULFIDE	NC	NC	0.16 J	0.067 J	0.48 J	0.099 J	0.62 J	0.026 J
CHLOROBENZENE	3.5	34.6	0.022 J	0.18 U	2.7 U	0.22 UJ	2.6 UJ	0.057 J
CHLOROMETHANE	NC	NC	0.25 UJ	0.18 UJ	2.7 U	0.22 UJ	2.6 UJ	0.18 U
CYCLOHEXANE	NC	NC	0.25 U	0.18 U	2.7 U	0.22 UJ	2.6 UJ	0.026 J
ETHYLBENZENE	24	212	0.25 U	0.18 U	2.7 U	0.22 UJ	2.6 UJ	0.18 U
ISOPROPYLBENZENE	12	105	0.25 U	0.18 U	2.7 U	0.024 J	R	0.18 U
M,P-XYLENES	NC	NC	0.52 U	0.37 U	5.3 U	0.44 UJ	5.2 UJ	0.35 U
METHYL ACETATE	NC	NC	0.25 U	0.18 U	2.7 U	0.22 UJ	2.6 UJ	0.13 J
METHYLCYCLOHEXANE	NC	NC	0.22 J	0.12 J	2.7 U	0.15 J	2.6 UJ	0.14 J
METHYLENE CHLORIDE	NC	NC	0.25 U	0.18 U	2.7 U	0.22 UJ	2.6 UJ	0.18 U
O-XYLENE	NC	NC	0.25 U	0.18 U	2.7 U	0.22 UJ	2.6 UJ	0.18 U
TOLUENE	49	235	0.047 J	0.055 J	0.23 J	0.032 J	0.42 J	0.18 U
TOTAL ORGANIC CARBON (%)	--	--	5.57	5.1	0.208	5.05	0.21	4.57

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater
than any standard are not colored.

Table 4-3
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD191	SD191	SD192	SD194	SD195	SD196
		Date	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011
		Sample Identification Code	06SD191NF-SC-A-1	06SD191NF-SC-A-2	06SD192NF-SC-A-1	06SD194NF-SC-A-1	06SD195NF-SC-A-1	06SD196NF-SC-A-1
		Depth Interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	7.7 U	5.7 U	0.25 UJ	0.15 U	0.78 U	0.19 UJ
1,2,4-TRICHLOROBENZENE	91	910	7.7 U	5.7 U	0.25 UJ	0.15 U	0.78 U	0.19 UJ
1,2-DICHLOROBENZENE	12	120	7.7 U	5.7 U	0.25 UJ	0.15 U	0.78 U	0.082 J
1,2-DICHLOROETHANE	NC	NC	7.7 U	5.7 U	0.25 UJ	0.15 U	0.78 U	0.19 UJ
1,3-DICHLOROBENZENE	12	120	7.7 U	5.7 U	0.25 UJ	0.15 U	0.78 U	0.037 J
1,4-DICHLOROBENZENE	12	120	7.7 U	5.7 U	0.25 UJ	0.15 U	0.78 U	0.054 J
2-BUTANONE (MEK)	NC	NC	7.7 U	5.7 U	1.6 J	0.16	0.66 J	2.1 J
ACETONE	NC	NC	7.7 UJ	1.5 J	6.0 J	0.92	2.6	8.0 J
BENZENE	28	103	7.7 U	5.7 U	0.25 UJ	0.15 U	0.78 U	0.011 J
CARBON DISULFIDE	NC	NC	0.70 J	5.7 U	0.10 J	0.046 J	0.19 J	0.14 J
CHLOROBENZENE	3.5	34.6	0.61 J	1.5 J	0.078 J	0.017 J	0.78 U	1.7 J
CHLOROMETHANE	NC	NC	7.7 U	5.7 UJ	0.25 UJ	0.15 UJ	0.78 UJ	0.031 J
CYCLOHEXANE	NC	NC	7.7 U	5.7 U	0.25 UJ	0.15 U	0.78 U	0.068 J
ETHYLBENZENE	24	212	7.7 U	5.7 U	0.25 UJ	0.15 U	0.78 U	0.19 UJ
ISOPROPYLBENZENE	12	105	7.7 U	5.7 U	0.039 J	0.15 U	0.78 U	0.13 J
M,P-XYLENES	NC	NC	16 U	11 U	0.50 UJ	0.30 U	1.5 U	0.043 J
METHYL ACETATE	NC	NC	7.7 U	5.7 U	0.37 J	0.15 U	0.78 U	0.45 J
METHYLCYCLOHEXANE	NC	NC	7.7 U	5.7 U	0.27 J	0.032 J	0.78 U	0.50 J
METHYLENE CHLORIDE	NC	NC	7.7 U	0.53 J	0.25 UJ	0.15 U	0.78 U	0.19 UJ
O-XYLENE	NC	NC	7.7 U	5.7 U	0.023 J	0.15 U	0.78 U	0.13 J
TOLUENE	49	235	0.52 J	5.7 U	0.047 J	0.017 J	0.099 J	0.077 J
TOTAL ORGANIC CARBON (%)	--	--	0.088	0.107	5.16	4.99	0.86	5.75

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater
than any standard are not colored.

Table 4-3
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD196	SD197	SD198	SD199	SD200	SD201
		Date	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011
		Sample Identification Code	06SD196NF-SC-A-2	06SD197NF-SC-A-1	06SD198NF-SC-A-1	06SD199NF-SC-A-1	06SD200NF-SC-A-1	06SD201NF-SC-A-1
		Depth Interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	44 U	0.25 UJ	22 U	22 U	1.4 R	41 UJ
1,2,4-TRICHLOROBENZENE	91	910	44 U	0.25 UJ	22 U	22 U	1.4 R	13 J
1,2-DICHLOROBENZENE	12	120	1.9 J	0.25 UJ	1.1 J	22 U	1.4 R	5.7 J
1,2-DICHLOROETHANE	NC	NC	44 U	0.25 U	22 U	22 U	1.4 R	41 UJ
1,3-DICHLOROBENZENE	12	120	44 U	0.25 UJ	22 U	22 U	1.4 R	*19 J*
1,4-DICHLOROBENZENE	12	120	5 J	0.25 UJ	11 J	1.2 J	1.4 R	*86 J*
2-BUTANONE (MEK)	NC	NC	44 U	1.2	22 U	22 U	1.4 R	41 UJ
ACETONE	NC	NC	44 UJ	5.3 J	22 U	7.1 J	30 J	41 UJ
BENZENE	28	103	44 U	0.25 U	22 U	22 U	1.4 R	7.7 J
CARBON DISULFIDE	NC	NC	44 U	0.061 J	22 U	22 U	1.9 J	41 UJ
CHLOROBENZENE	3.5	34.6	*50 J*	0.25 U	*93*	*26*	1.4 R	*1000 J*
CHLOROMETHANE	NC	NC	44 U	0.25 U	22 UJ	22 U	1.4 R	41 UJ
CYCLOHEXANE	NC	NC	44 U	0.25 U	22 U	22 U	1.4 R	41 UJ
ETHYLBENZENE	24	212	44 U	0.25 U	22 U	22 U	1.4 R	2.2 J
ISOPROPYLBENZENE	12	105	44 U	0.028 J	22 U	22 U	1.4 R	1.9 J
M,P-XYLENES	NC	NC	87 U	0.5 U	45 U	45 U	2.9 R	81 UJ
METHYL ACETATE	NC	NC	8.5 J	0.25 U	3.1 J	4.5 J	2.9 J	10 J
METHYLCYCLOHEXANE	NC	NC	2.2 J	0.38 J	22 U	22 U	1.4 R	2.7 J
METHYLENE CHLORIDE	NC	NC	44 U	0.25 U	22 U	22 U	1.4 R	41 UJ
O-XYLENE	NC	NC	44 U	0.25 U	1.6 J	22 U	1.4 R	8.1 J
TOLUENE	49	235	5.3 J	0.038 J	22 U	26	1.4 R	1.9 J
TOTAL ORGANIC CARBON (%)	--	--	4.12	3.96	5.8	3.36	0.33	4.42

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater
than any standard are not colored.

Table 4-3
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD201	SD202	SD203	SD204	SD205	SD206
		Date	11/16/2011	11/16/2011	11/16/2011	11/17/2011	11/17/2011	11/17/2011
		Sample Identification Code	06SD201NF-SC-A-2	06SD202NF-SC-A-1	06SD203NF-SC-A-1	06SD204NF-SC-A-1	06SD205NF-SC-A-1	06SD206NF-SC-A-1
		Depth Interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	29 U	0.85 U	30 U	1.5 U	60 U	1.7 U
1,2,4-TRICHLOROBENZENE	91	910	29 U	0.85 U	30 U	1.5 U	60 U	1.7 U
1,2-DICHLOROBENZENE	12	120	1.7 J	0.85 U	2.8 J	1.5 U	60 U	1.7 U
1,2-DICHLOROETHANE	NC	NC	29 U	0.85 U	30 U	1.5 U	60 U	1.7 U
1,3-DICHLOROBENZENE	12	120	*17 J*	0.85 U	*13 J*	1.5 U	60 U	1.7 U
1,4-DICHLOROBENZENE	12	120	*71*	0.85 U	*34*	1.5 U	*21 J*	1.7 U
2-BUTANONE (MEK)	NC	NC	29 U	0.85 U	30 U	1.5 U	60 U	1.7 U
ACETONE	NC	NC	8.8 J	0.27 J	10 J	1.5 U	60 U	3.2 U
BENZENE	28	103	4.4 J	0.85 U	10 J	1.5 U	27 J	1.7 U
CARBON DISULFIDE	NC	NC	29 U	0.093 J	30 U	0.14 J	60 U	0.14 J
CHLOROBENZENE	3.5	34.6	*610*	0.065 J	*900*	1.5 U	*1300*	1.7 U
CHLOROMETHANE	NC	NC	29 U	0.85 U	30 U	1.5 UJ	60 UJ	1.7 UJ
CYCLOHEXANE	NC	NC	29 U	0.85 U	30 U	1.5 U	60 U	1.7 U
ETHYLBENZENE	24	212	1.3 J	0.85 U	1 J	1.5 U	2.9 J	1.7 U
ISOPROPYLBENZENE	12	105	29 U	0.85 U	30 U	1.5 U	60 U	1.7 U
M,P-XYLENES	NC	NC	59 U	1.7 U	58 U	3.1 U	10 J	3.5 U
METHYL ACETATE	NC	NC	7.1 J	0.85 U	9.0 J	1.5 UJ	6.7 J	1.7 UJ
METHYLCYCLOHEXANE	NC	NC	1.2 J	0.85 U	2.3 J	1.5 U	60 U	1.7 U
METHYLENE CHLORIDE	NC	NC	29 U	0.85 U	30 U	1.5 U	60 U	1.7 U
O-XYLENE	NC	NC	4.8 J	0.85 U	6.0 J	1.5 U	14 J	1.7 U
TOLUENE	49	235	29 U	0.85 U	1.3 J	1.5 U	60 U	1.7 U
TOTAL ORGANIC CARBON (%)	--	--	4.76	0.766	4.69	0.391	4.15	0.404

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater
than any standard are not colored.

Table 4-3
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD207	SD208	SD209	SD210	SD211	SD211
		Date	11/17/2011	11/17/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011
		Sample Identification Code	06SD207NF-SC-A-1	06SD208NF-SC-A-1	06SD209NF-SC-A-1	06SD210NF-SC-A-1	06SD211NF-SC-A-1	06SD211NF-SC-A-2
		Depth Interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	52 U	20 U	380 U	180 UJ	2.1 U	2.4 U
1,2,4-TRICHLOROBENZENE	91	910	52 U	20 U	380 U	180 UJ	2.1 U	2.4 U
1,2-DICHLOROBENZENE	12	120	52 U	5 J	380 U	*44 J*	0.25 J	2.4 U
1,2-DICHLOROETHANE	NC	NC	52 U	20 U	380 U	180 UJ	2.1 U	2.4 U
1,3-DICHLOROBENZENE	12	120	52 U	20 U	380 U	12 J	2.1 U	2.4 U
1,4-DICHLOROBENZENE	12	120	3 J	9.8 J	380 U	*20 J*	2.1 U	2.4 U
2-BUTANONE (MEK)	NC	NC	52 U	20 U	380 U	180 UJ	2.1 U	2.4 U
ACETONE	NC	NC	52 U	20 U	380 U	180 UJ	3 U	2.4 U
BENZENE	28	103	52 U	3.1 J	380 U	*1600 J*	2.1 U	2.4 U
CARBON DISULFIDE	NC	NC	52 U	20 U	380 U	180 UJ	0.17 J	0.14 J
CHLOROBENZENE	3.5	34.6	*300*	*830*	*500*	*7800 J*	0.23 J	0.25 J
CHLOROMETHANE	NC	NC	52 UJ	20 UJ	380 U	180 UJ	2.1 UJ	2.4 UJ
CYCLOHEXANE	NC	NC	52 U	20 U	380 U	180 UJ	2.1 U	2.4 U
ETHYLBENZENE	24	212	52 U	1.8 J	380 U	180 UJ	2.1 U	2.4 U
ISOPROPYLBENZENE	12	105	52 U	20 U	380 U	180 UJ	2.1 U	2.4 U
M,P-XYLENES	NC	NC	100 U	11 J	770 U	47 J	4.3 U	4.9 U
METHYL ACETATE	NC	NC	52 U	5.8 J	380 U	180 UJ	2.1 UJ	2.4 UJ
METHYLCYCLOHEXANE	NC	NC	52 U	4.5 J	380 U	180 UJ	2.1 U	2.4 U
METHYLENE CHLORIDE	NC	NC	52 U	20 U	380 U	180 UJ	2.1 U	2.4 U
O-XYLENE	NC	NC	52 U	7.4 J	380 U	16 J	2.1 U	2.4 U
TOLUENE	49	235	52 U	20 U	380 U	180 UJ	2.1 U	2.4 U
TOTAL ORGANIC CARBON (%)	--	--	1.45	5.51	0.169	3.61	0.3	0.263

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater
than any standard are not colored.

Table 4-3
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD212	SD213	SD213	SD214	SD214	SD215
		Date	11/16/2011	11/16/2011	11/16/2011	11/15/2011	11/15/2011	11/15/2011
		Sample Identification Code	06SD212NF-SC-A-1	06SD213NF-SC-A-1	06SD213NF-SC-A-2	06SD214NF-SC-A-1	06SD214NF-SC-A-2	06SD215NF-SC-A-1
		Depth Interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 1 ft	0 - 1 ft	0 - 2 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	15 J	70 U	71 U	1.2 U	1.2 U	1900 J
1,2,4-TRICHLOROBENZENE	91	910	170 UJ	70 U	71 U	1.2 U	0.18 J	*10000 J*
1,2-DICHLOROBENZENE	12	120	*110 J*	*22 J*	7.6 J	1.1 J	1.7	*55000 J*
1,2-DICHLOROETHANE	NC	NC	170 UJ	4 J	71 U	1.2 U	1.2 U	6500 J
1,3-DICHLOROBENZENE	12	120	*140 J*	70 U	71 U	1.2 U	1.2 U	*2600 J*
1,4-DICHLOROBENZENE	12	120	*480 J*	7.8 J	6.5 J	0.17 J	0.16 J	*6600 J*
2-BUTANONE (MEK)	NC	NC	170 UJ	70 U	71 U	1.0 J	0.58 J	8700 UJ
ACETONE	NC	NC	170 UJ	70 U	71 U	4.9	4.4	8700 UJ
BENZENE	28	103	*4000 J*	6.3 J	3.8 J	0.16 J	0.22 J	*6600 J*
CARBON DISULFIDE	NC	NC	170 UJ	70 U	71 U	0.38 J	0.10 J	8700 UJ
CHLOROBENZENE	3.5	34.6	*20000 J*	*1100 J*	*1800 J*	1.6	1.8	*380000 D*
CHLOROMETHANE	NC	NC	170 UJ	70 UJ	71 UJ	1.2 U	1.2 U	8700 UJ
CYCLOHEXANE	NC	NC	170 UJ	70 U	71 U	1.2 U	1.2 U	8700 UJ
ETHYLBENZENE	24	212	*70 J*	70 U	71 U	1.2 U	1.2 U	*2400 J*
ISOPROPYLBENZENE	12	105	170 UJ	70 U	71 U	1.2 U	1.2 U	8700 UJ
M,P-XYLENES	NC	NC	220 J	140 U	140 U	2.4 U	2.6 U	1600 J
METHYL ACETATE	NC	NC	170 UJ	24 J	20 J	0.38 J	1.2 U	8700 UJ
METHYLCYCLOHEXANE	NC	NC	10 J	70 U	71 U	1.2 U	1.2 U	8700 UJ
METHYLENE CHLORIDE	NC	NC	170 UJ	70 U	71 U	1.2 U	1.2 U	8700 UJ
O-XYLENE	NC	NC	50 J	3.3 J	3.1 J	1.2 U	1.2 U	550 J
TOLUENE	49	235	170 UJ	70 U	71 U	1.2 U	1.2 U	8700 UJ
TOTAL ORGANIC CARBON (%)	--	--	3.99	1.53	1.7	0.453	0.548	7.39

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater
than any standard are not colored.

Table 4-3
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

			Location	SD216	SD217	SD217	SD218	SD219	SD219
			Date	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011
			Sample Identification Code	06SD216NF-SC-A-1	06SD217NF-SC-A-1	06SD217NF-SC-A-2	06SD218NF-SC-A-1	06SD219NF-SC-A-1	06SD219NF-SC-A-2
			Depth Interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria							
1,2,3-TRICHLOROBENZENE	NC	NC		780 U	3.4 U	3.8 U	220 U	45 UJ	490 U
1,2,4-TRICHLOROBENZENE	91	910		55 J	3.4 U	3.8 U	220 U	45 UJ	490 U
1,2-DICHLOROBENZENE	12	120		*600 J*	3.4 U	3.8 U	11 J	45 UJ	490 U
1,2-DICHLOROETHANE	NC	NC		51 J	3.4 U	3.8 U	220 U	45 UJ	490 U
1,3-DICHLOROBENZENE	12	120		*230 J*	3.4 U	3.8 U	220 U	45 UJ	490 U
1,4-DICHLOROBENZENE	12	120		*500 J*	3.4 U	3.8 U	*40 J*	9.8 J	*160 J*
2-BUTANONE (MEK)	NC	NC		780 U	3.4 U	3.8 U	220 U	45 UJ	490 U
ACETONE	NC	NC		780 U	2.9 J	3.8 J	220 U	45 UJ	490 U
BENZENE	28	103		*620 J*	3.4 U	3.8 U	15 J	*140 J*	*2000 J*
CARBON DISULFIDE	NC	NC		780 U	0.35 J	0.26 J	220 U	45 UJ	490 U
CHLOROBENZENE	3.5	34.6		*20000*	3.4 U	3.8 U	*320*	*1200 J*	*9500 J*
CHLOROMETHANE	NC	NC		780 U	3.4 U	3.8 U	220 U	45 UJ	490 U
CYCLOHEXANE	NC	NC		780 U	3.4 U	3.8 U	220 U	45 UJ	490 U
ETHYLBENZENE	24	212		*41 J*	3.4 U	3.8 U	220 U	2.5 J	*40 J*
ISOPROPYLBENZENE	12	105		780 U	3.4 U	3.8 U	220 U	45 UJ	490 U
M,P-XYLENES	NC	NC		160 J	6.7 U	7.5 U	460 U	87 UJ	130 J
METHYL ACETATE	NC	NC		780 U	3.4 U	3.8 U	20 J	10 J	490 U
METHYLCYCLOHEXANE	NC	NC		780 U	3.4 U	3.8 U	12 J	5.9 J	20 J
METHYLENE CHLORIDE	NC	NC		780 U	3.4 U	3.8 U	220 U	45 UJ	490 U
O-XYLENE	NC	NC		41 J	3.4 U	3.8 U	220 U	17 J	40 J
TOLUENE	49	235		780 U	3.4 U	3.8 U	220 U	45 UJ	490 U
TOTAL ORGANIC CARBON (%)	--	--		4.34	0.179	0.16	0.24	3.57	3.27

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater
than any standard are not colored.

Table 4-3
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD220	SD220	SD221	SD222	SD223	SD224
		Date	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011
		Sample Identification Code	06SD220NF-SC-A-1	06SD220NF-SC-A-2	06SD221NF-SC-A-1	06SD222NF-SC-A-1	06SD223NF-SC-A-1	06SD224NF-SC-A-1
		Depth Interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 1.3 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	2.8 U	1.5 U	60 U	70 U	1.8 U	2.5 U
1,2,4-TRICHLOROBENZENE	91	910	2.8 U	1.5 U	3.0 J	6.5 J	1.8 U	2.5 U
1,2-DICHLOROBENZENE	12	120	2.8 U	1.5 U	60 U	8.5 J	1.8 U	0.47 J
1,2-DICHLOROETHANE	NC	NC	2.8 U	0.11 J	60 U	3.6 J	1.8 U	2.5 U
1,3-DICHLOROBENZENE	12	120	2.8 U	1.5 U	60 U	70 U	1.8 U	2.5 U
1,4-DICHLOROBENZENE	12	120	2.8 U	1.5 U	*66*	*40 J*	1.8 U	2.5 U
2-BUTANONE (MEK)	NC	NC	2.8 U	1.5 U	60 U	70 U	1.8 U	2.5 U
ACETONE	NC	NC	2.8 U	1.5 U	60 U	70 U	2.0	2.5 U
BENZENE	28	103	2.8 U	1.5 U	*1100 J*	*50 J*	1.8 U	0.42 J
CARBON DISULFIDE	NC	NC	0.22 J	0.091 J	60 U	70 U	0.18 J	0.24 J
CHLOROBENZENE	3.5	34.6	1.1 J	2.5 J	*1000 J*	*2300*	1.8 U	*5.2*
CHLOROMETHANE	NC	NC	2.8 UJ	1.5 UJ	60 U	70 UJ	1.8 U	2.5 U
CYCLOHEXANE	NC	NC	2.8 U	1.5 U	60 U	70 U	1.8 U	2.5 U
ETHYLBENZENE	24	212	2.8 U	1.5 U	*30 J*	6.5 J	1.8 U	2.5 U
ISOPROPYLBENZENE	12	105	2.8 U	1.5 U	2.6 J	3.4 J	1.8 U	2.5 U
M,P-XYLENES	NC	NC	5.5 U	3.0 U	120	11 J	3.6 U	4.7 U
METHYL ACETATE	NC	NC	2.8 U	1.5 U	8.2 J	16 J	1.8 U	2.5 UJ
METHYLCYCLOHEXANE	NC	NC	2.8 U	1.5 U	60 U	11 J	1.8 U	2.5 U
METHYLENE CHLORIDE	NC	NC	2.8 U	1.5 U	60 U	70 U	1.8 U	2.5 U
O-XYLENE	NC	NC	2.8 U	1.5 U	30 J	28 J	1.8 U	2.5 U
TOLUENE	49	235	2.8 U	1.5 U	60 U	28 J	0.18 J	2.5 U
TOTAL ORGANIC CARBON (%)	--	--	0.2	0.395	5	2.01	0.389	0.232

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater
than any standard are not colored.

Table 4-3
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

			Location	SD224	SD225	SD226	SD227	SD228	SD228
			Date	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011
			Sample Identification Code	06SD224NF-SC-A-2	06SD225NF-SC-A-1	06SD226NF-SC-A-1	06SD227NF-SC-A-1	06SD228NF-SC-A-1	06SD228NF-SC-A-2
			Depth Interval	0 - 1.3 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria							
1,2,3-TRICHLOROBENZENE	NC	NC		1.5 U	70 U	58 U	3.3 U	530 U	140 U
1,2,4-TRICHLOROBENZENE	91	910		1.5 U	70 U	58 U	3.3 U	40 J	10 J
1,2-DICHLOROBENZENE	12	120		0.25 J	70 U	4.3 J	3.3 U	*200 J*	*39 J*
1,2-DICHLOROETHANE	NC	NC		1.5 U	70 U	58 U	3.3 U	530 U	140 U
1,3-DICHLOROBENZENE	12	120		1.5 U	70 U	58 U	3.3 U	530 U	140 U
1,4-DICHLOROBENZENE	12	120		1.5 U	70 U	3.5 J	3.3 U	*80 J*	*16 J*
2-BUTANONE (MEK)	NC	NC		1.5 U	70 U	58 U	3.3 U	530 U	140 U
ACETONE	NC	NC		1.5 U	70 U	15 J	3.3 U	530 U	140 U
BENZENE	28	103		0.15 J	*190*	58 U	3.3 U	530 U	140 U
CARBON DISULFIDE	NC	NC		0.12 J	70 U	58 U	0.34 J	530 U	140 U
CHLOROBENZENE	3.5	34.6		1.8	*41 J*	*110*	3.3 U	*1700*	*280*
CHLOROMETHANE	NC	NC		1.5 U	70 U	58 U	3.3 UJ	530 U	140 U
CYCLOHEXANE	NC	NC		1.5 U	70 UJ	58 U	3.3 U	530 UJ	140 UJ
ETHYLBENZENE	24	212		1.5 U	70 U	58 U	3.3 U	530 U	140 U
ISOPROPYLBENZENE	12	105		1.5 U	70 U	58 U	3.3 U	530 U	140 U
M,P-XYLENES	NC	NC		2.9 U	140 U	110 U	6.4 U	1000 U	280 U
METHYL ACETATE	NC	NC		1.5 UJ	70 U	14 J	3.3 UJ	530 U	140 U
METHYLCYCLOHEXANE	NC	NC		1.5 U	70 UJ	58 U	3.3 U	530 UJ	140 UJ
METHYLENE CHLORIDE	NC	NC		1.5 U	70 U	58 U	3.3 U	530 U	140 U
O-XYLENE	NC	NC		1.5 U	70 U	58 U	3.3 U	530 U	140 U
TOLUENE	49	235		1.5 U	70 U	2.4 J	3.3 U	530 U	140 U
TOTAL ORGANIC CARBON (%)	--	--		0.446	1.45	1.9	0.188	0.126	0.46

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater
than any standard are not colored.

Table 4-3
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD229	SD230	SD231	SD232	SD233	SD235
		Date	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/15/2011
		Sample Identification Code	06SD229NF-SC-A-1	06SD230NF-SC-A-1	06SD231NF-SC-A-1	06SD232NF-SC-A-1	06SD233NF-SC-A-1	06SD235NF-SC-A-1
		Depth Interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	50 U	7.3 U	3.6 U	40 U	38 U	6.9 U
1,2,4-TRICHLOROBENZENE	91	910	50 U	7.3 U	3.6 U	3 J	38 U	6.9 U
1,2-DICHLOROBENZENE	12	120	3 J	7.3 U	3.6 U	10 J	2.1 J	6.9 U
1,2-DICHLOROETHANE	NC	NC	50 U	7.3 U	3.6 U	40 U	38 U	6.9 U
1,3-DICHLOROBENZENE	12	120	50 U	7.3 U	3.6 U	40 U	38 U	6.9 U
1,4-DICHLOROBENZENE	12	120	*12 J*	7.3 U	3.6 U	5.1 J	*20 J*	6.9 U
2-BUTANONE (MEK)	NC	NC	50 U	7.3 U	3.6 U	40 U	38 U	6.9 U
ACETONE	NC	NC	15 J	7.3 U	3.6 U	40 U	38 U	6.9 U
BENZENE	28	103	*30 J*	7.3 U	3.6 U	3.4 J	4.3 J	6.9 U
CARBON DISULFIDE	NC	NC	50 U	7.3 U	0.22 J	40 UJ	38 UJ	6.9 U
CHLOROBENZENE	3.5	34.6	*1200*	7.3 U	3.6 U	*95*	*590*	6.9 U
CHLOROMETHANE	NC	NC	50 U	7.3 U	3.6 U	40 U	38 U	6.9 U
CYCLOHEXANE	NC	NC	50 U	7.3 U	3.6 U	40 U	38 U	6.9 U
ETHYLBENZENE	24	212	50 U	7.3 U	3.6 U	40 U	38 U	6.9 U
ISOPROPYLBENZENE	12	105	50 U	7.3 U	3.6 U	40 U	38 U	6.9 U
M,P-XYLENES	NC	NC	100 U	15 U	7.2 U	81 U	80 U	14 U
METHYL ACETATE	NC	NC	12 J	7.3 U	3.6 U	40 U	7.4 J	6.9 U
METHYLCYCLOHEXANE	NC	NC	50 U	7.3 U	3.6 U	40 U	1.7 J	6.9 U
METHYLENE CHLORIDE	NC	NC	50 U	7.3 U	0.19 J	40 U	38 U	6.9 U
O-XYLENE	NC	NC	5.9 J	7.3 U	3.6 U	40 U	5.3 J	6.9 U
TOLUENE	49	235	2.6 J	7.3 U	0.29 J	40 U	38 U	6.9 U
TOTAL ORGANIC CARBON (%)	--	--	3.2	0.088	0.181	2.73	3.93	0.077

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater
than any standard are not colored.

Table 4-3
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD235	SD236	SD237	SD237	SD238	SD239
		Date	11/15/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011
		Sample Identification Code	06SD235NF-SC-A-2	06SD236NF-SC-A-1	06SD237NF-SC-A-1	06SD237NF-SC-A-2	06SD238NF-SC-A-1	06SD239NF-SC-A-1
		Depth Interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	3.5 U	2.7 U	40 U	31 U	84 U	0.92 U
1,2,4-TRICHLOROBENZENE	91	910	3.5 U	2.7 U	40 U	5.3 J	84 U	0.92 U
1,2-DICHLOROBENZENE	12	120	3.5 U	2.7 U	4.9 J	*14 J*	*40 J*	0.92 U
1,2-DICHLOROETHANE	NC	NC	3.5 U	2.7 U	40 U	31 U	84 U	0.92 U
1,3-DICHLOROBENZENE	12	120	3.5 U	2.7 U	40 U	31 U	84 U	0.92 U
1,4-DICHLOROBENZENE	12	120	3.5 U	2.7 U	4.9 J	6.7 J	11 J	0.92 U
2-BUTANONE (MEK)	NC	NC	3.5 U	2.7 U	40 U	31 U	84 U	2.8
ACETONE	NC	NC	3.5 U	2.7 U	12 J	8.7 J	84 U	12
BENZENE	28	103	3.5 U	2.7 U	40 U	5.3 J	8.4 J	0.070 J
CARBON DISULFIDE	NC	NC	3.5 U	2.7 U	40 U	31 U	84 U	0.23 J
CHLOROBENZENE	3.5	34.6	3.5 U	0.31 J	*84*	*140*	*360*	1.6
CHLOROMETHANE	NC	NC	3.5 U	2.7 U	40 U	31 U	84 U	0.92 U
CYCLOHEXANE	NC	NC	3.5 U	2.7 U	40 U	31 U	84 U	0.92 U
ETHYLBENZENE	24	212	3.5 U	2.7 U	40 U	31 U	3.5 J	0.92 U
ISOPROPYLBENZENE	12	105	3.5 U	2.7 U	40 U	31 U	84 U	0.92 U
M,P-XYLENES	NC	NC	7.2 U	5.3 U	90 U	62 U	12 J	1.8 U
METHYL ACETATE	NC	NC	3.5 U	2.7 U	8.4 J	5.9 J	84 U	1.7
METHYLCYCLOHEXANE	NC	NC	3.5 U	2.7 U	40 U	31 U	84 U	0.92 U
METHYLENE CHLORIDE	NC	NC	3.5 U	2.7 U	40 U	31 U	84 U	0.92 U
O-XYLENE	NC	NC	3.5 U	2.7 U	40 U	1.3 J	8.9 J	0.065 J
TOLUENE	49	235	3.5 U	2.7 U	40 U	31 U	84 U	0.92 U
TOTAL ORGANIC CARBON (%)	--	--	0.209	0.208	2.25	3.56	0.631	1.41

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater
than any standard are not colored.

Table 4-3
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD241	SD242	SD243	SD244	SD245	SD247
		Date	11/14/2011	11/14/2011	11/14/2011	11/11/2011	11/11/2011	11/11/2011
		Sample Identification Code	06SD241NF-SC-A-1	06SD242NF-SC-A-1	06SD243NF-SC-A-1	06SD244NF-SC-A-1	06SD245NF-SC-A-1	06SD247NF-SC-A-1
		Depth Interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	4.3 U	1.9 U	39 UJ	0.60 UJ	39 U	1.4 U
1,2,4-TRICHLOROBENZENE	91	910	4.3 U	1.9 U	39 UJ	0.60 UJ	39 U	1.4 U
1,2-DICHLOROBENZENE	12	120	4.3 U	1.9 U	1.9 J	0.60 UJ	39 U	1.4 U
1,2-DICHLOROETHANE	NC	NC	4.3 U	1.9 U	39 UJ	0.60 UJ	39 U	1.4 U
1,3-DICHLOROBENZENE	12	120	4.3 U	1.9 U	7.1 J	0.60 UJ	39 U	1.4 U
1,4-DICHLOROBENZENE	12	120	4.3 U	1.9 U	*15 J*	0.60 UJ	3.6 J	1.4 U
2-BUTANONE (MEK)	NC	NC	4.3 U	1.9 U	39 UJ	5.3 J	39 U	1.4 U
ACETONE	NC	NC	4.3 U	1.9 U	15 J	20 J	9.7 J	1.4 U
BENZENE	28	103	4.3 U	1.9 U	6.4 J	0.60 UJ	39 U	1.4 U
CARBON DISULFIDE	NC	NC	4.3 U	0.12 J	39 UJ	0.13 J	39 U	1.4 U
CHLOROBENZENE	3.5	34.6	4.3 U	1.9 U	*870 J*	0.11 J	190	1.4 U
CHLOROMETHANE	NC	NC	4.3 U	1.9 U	39 UJ	0.60 UJ	39 U	1.4 U
CYCLOHEXANE	NC	NC	4.3 U	1.9 U	39 UJ	0.60 UJ	39 U	1.4 U
ETHYLBENZENE	24	212	4.3 U	1.9 U	2 J	0.60 UJ	39 U	1.4 U
ISOPROPYLBENZENE	12	105	4.3 U	1.9 U	39 UJ	0.60 UJ	39 U	1.4 U
M,P-XYLENES	NC	NC	8.5 U	3.9 U	9 J	1.2 UJ	75 U	2.8 U
METHYL ACETATE	NC	NC	4.3 UJ	1.9 U	8.0 J	0.60 UJ	8.0 J	1.4 U
METHYLCYCLOHEXANE	NC	NC	4.3 U	1.9 U	2.8 J	0.60 UJ	39 U	1.4 U
METHYLENE CHLORIDE	NC	NC	4.3 U	1.9 U	39 UJ	0.60 UJ	39 U	1.4 U
O-XYLENE	NC	NC	4.3 U	1.9 U	4.4 J	0.60 UJ	2.1 J	1.4 U
TOLUENE	49	235	4.3 U	1.9 U	39 UJ	0.60 UJ	3.3 J	1.4 U
TOTAL ORGANIC CARBON (%)	--	--	0.141	0.309	4.36	1.59	3.62	0.388

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater
than any standard are not colored.

Table 4-3
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD248	SD249	SD250	SD250	SD251	SD254
		Date	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011
		Sample Identification Code	06SD248NF-SC-A-1	06SD249NF-SC-A-1	06SD250NF-SC-A-1	06SD250NF-SC-A-2	06SD251NF-SC-A-1	06SD254NF-SC-A-1
		Depth Interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	2.0 UJ	0.19 U	42 U	38 U	0.35 U	50 U
1,2,4-TRICHLOROBENZENE	91	910	2.0 UJ	0.19 U	42 U	38 U	0.35 U	50 U
1,2-DICHLOROBENZENE	12	120	2.0 UJ	0.027 J	2.7 J	2.1 J	0.056 J	50 U
1,2-DICHLOROETHANE	NC	NC	2.0 UJ	0.19 U	42 U	38 U	0.35 U	50 U
1,3-DICHLOROBENZENE	12	120	2.0 UJ	0.19 U	42 U	38 U	0.026 J	50 U
1,4-DICHLOROBENZENE	12	120	2.0 UJ	0.19 U	7.5 J	4.9 J	0.35 U	2.6 J
2-BUTANONE (MEK)	NC	NC	2.0 UJ	0.19 U	42 U	38 U	4.0	50 U
ACETONE	NC	NC	2.0 UJ	0.19 U	14 J	38 U	10	50 U
BENZENE	28	103	2.0 UJ	0.015 J	42 U	38 U	0.35 U	*30 J*
CARBON DISULFIDE	NC	NC	2.0 UJ	0.017 J	42 U	38 U	0.22 J	50 U
CHLOROBENZENE	3.5	34.6	2.0 UJ	0.19 U	*520*	*350*	1.1	*1700*
CHLOROMETHANE	NC	NC	2.0 UJ	0.19 U	42 U	38 U	0.35 U	50 U
CYCLOHEXANE	NC	NC	2.0 UJ	0.19 U	42 U	38 U	0.35 U	50 U
ETHYLBENZENE	24	212	2.0 UJ	0.19 U	42 U	38 U	0.35 U	3.0 J
ISOPROPYLBENZENE	12	105	2.0 UJ	0.19 U	42 U	38 U	0.35 U	50 U
M,P-XYLENES	NC	NC	4 UJ	0.39 U	88 U	76 U	0.70 U	12 J
METHYL ACETATE	NC	NC	2.0 UJ	0.19 U	11 J	8 J	0.084 J	8.7 J
METHYLCYCLOHEXANE	NC	NC	2.0 UJ	0.19 U	42 U	38 U	0.12 J	6.5 J
METHYLENE CHLORIDE	NC	NC	2.0 UJ	0.19 U	42 U	38 U	0.35 U	50 U
O-XYLENE	NC	NC	2.0 UJ	0.19 U	4.5 J	2.5 J	0.065 J	6.5 J
TOLUENE	49	235	2.0 UJ	0.19 U	5.2 J	1.8 J	0.051 J	50 U
TOTAL ORGANIC CARBON (%)	--	--	0.255	3.55	3.08	3.7	2.15	3.69

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater
than any standard are not colored.

Table 4-3
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD255	SD256	SD258	SD259	SD267	SD267
		Date	11/11/2011	11/10/2011	11/9/2011	11/9/2011	11/10/2011	11/10/2011
		Sample Identification Code	06SD255NF-SC-A-1	06SD256NF-SC-A-1	06SD258NF-SC-A-1	06SD259NF-SC-A-1	06SD267NF-SC-A-1	06SD267NF-SC-A-2
		Depth Interval	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	39 U	0.39 UJ	49 U	0.66 U	0.5 U	0.81 U
1,2,4-TRICHLOROBENZENE	91	910	39 U	0.39 UJ	2.5 J	0.66 U	0.5 U	0.81 U
1,2-DICHLOROBENZENE	12	120	2.7 J	0.39 J	3.4 J	0.66 U	0.5 U	0.81 U
1,2-DICHLOROETHANE	NC	NC	39 U	0.39 UJ	49 U	0.66 U	0.5 U	0.81 U
1,3-DICHLOROBENZENE	12	120	9.3 J	0.063 J	49 U	0.66 U	0.5 U	0.81 U
1,4-DICHLOROBENZENE	12	120	*18 J*	0.11 J	*12 J*	0.66 U	0.5 U	0.81 U
2-BUTANONE (MEK)	NC	NC	39 U	1.9 J	49 U	0.88	0.42 J	2.4 J
ACETONE	NC	NC	39 U	4.9 J	49 U	2.5 J	0.5 UJ	6.0 J
BENZENE	28	103	39 U	0.049 J	49 U	0.66 U	0.5 U	0.056 J
CARBON DISULFIDE	NC	NC	39 U	0.39 UJ	49 U	0.041 J	0.5 U	0.81 U
CHLOROBENZENE	3.5	34.6	*95*	1.1 J	*140*	0.20 J	0.32 J	1.6 J
CHLOROMETHANE	NC	NC	39 U	0.39 UJ	49 U	0.66 U	0.5 U	0.81 U
CYCLOHEXANE	NC	NC	39 U	0.063 J	49 U	0.66 U	0.5 U	0.81 U
ETHYLBENZENE	24	212	39 U	0.39 UJ	49 U	0.66 U	0.5 U	0.81 U
ISOPROPYLBENZENE	12	105	39 U	0.049 J	49 U	0.66 U	0.5 U	0.81 U
M,P-XYLENES	NC	NC	80 U	0.14 J	95 U	1.3 U	1.0 U	1.6 U
METHYL ACETATE	NC	NC	12 J	0.39 UJ	6.6 J	0.66 U	0.5 U	0.81 U
METHYLCYCLOHEXANE	NC	NC	3.2 J	0.095 J	49 U	0.66 U	0.5 U	0.81 U
METHYLENE CHLORIDE	NC	NC	39 U	0.39 UJ	49 U	0.66 U	0.5 U	0.81 U
O-XYLENE	NC	NC	3.4 J	0.20 J	2.2 J	0.66 U	0.5 U	0.81 U
TOLUENE	49	235	39 U	0.39 UJ	49 U	0.66 U	0.5 U	0.81 U
TOTAL ORGANIC CARBON (%)	--	--	4.1	3.04	2.43	1.02	2.1	1.35

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater
than any standard are not colored.

Table 4-3
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD268
		Date	11/10/2011
		Sample Identification Code	06SD268NF-SC-A-1
		Depth Interval	0 - 2 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria	
1,2,3-TRICHLOROBENZENE	NC	NC	0.64 U
1,2,4-TRICHLOROBENZENE	91	910	0.15 J
1,2-DICHLOROBENZENE	12	120	0.64 U
1,2-DICHLOROETHANE	NC	NC	0.64 U
1,3-DICHLOROBENZENE	12	120	0.068 J
1,4-DICHLOROBENZENE	12	120	0.64 U
2-BUTANONE (MEK)	NC	NC	1.8
ACETONE	NC	NC	4.4
BENZENE	28	103	0.64 U
CARBON DISULFIDE	NC	NC	0.64 U
CHLOROBENZENE	3.5	34.6	0.29 J
CHLOROMETHANE	NC	NC	0.64 U
CYCLOHEXANE	NC	NC	0.64 U
ETHYLBENZENE	24	212	0.64 U
ISOPROPYLBENZENE	12	105	0.64 U
M,P-XYLENES	NC	NC	1.3 U
METHYL ACETATE	NC	NC	0.64 U
METHYLCYCLOHEXANE	NC	NC	0.64 U
METHYLENE CHLORIDE	NC	NC	0.64 U
O-XYLENE	NC	NC	0.047 J
TOLUENE	49	235	0.64 U
TOTAL ORGANIC CARBON (%)	--	--	1.24

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater
than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD181	SD182	SD183	SD184	SD185
		Sample date	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011
		Sample identification code	06SD181NF-SC-B-1	06SD182NF-SC-B-1	06SD183NF-SC-B-1	06SD184NF-SC-B-1	06SD185NF-SC-B-1
		Depth interval	2 - 2.6 ft	2 - 4 ft	2 - 2.9 ft	2 - 4 ft	2 - 4 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria					
1,2,3-TRICHLOROBENZENE	NC	NC	4.5 U	2.7 UJ	1.1 U	2.0 U	2.6 UJ
1,2,4-TRICHLOROBENZENE	91	910	4.5 U	0.61 J	0.24 J	0.32 J	0.55 J
1,2-DICHLOROBENZENE	12	120	4.5 U	2.7 UJ	1.1 U	2.0 U	R
1,2-DICHLOROETHANE	NC	NC	4.5 U	2.7 U	1.1 U	2.0 U	2.6 UJ
1,3-DICHLOROBENZENE	12	120	4.5 U	2.7 UJ	1.1 U	2.0 U	R
1,4-DICHLOROBENZENE	12	120	4.5 U	2.7 UJ	1.1 U	2.0 U	0.30 J
2-BUTANONE (MEK)	NC	NC	4.5 U	2.7 U	1.7	2.0 U	2.6 U
2-HEXANONE	NC	NC	4.5 U	2.7 UJ	1.1 UJ	2.0 UJ	R
4-METHYL-2-PENTANONE (MIBK)	NC	NC	4.5 U	2.7 UJ	1.1 U	2.0 U	2.6 UJ
ACETONE	NC	NC	4.9	5 U	4.9 J	5.6 U	5.9 U
BENZENE	28	103	4.5 U	2.7 U	1.1 U	2.0 U	2.6 UJ
BROMOMETHANE	NC	NC	4.5 U	2.7 U	1.1 U	2.0 U	2.6 U
CARBON DISULFIDE	NC	NC	0.85 J	2.7 U	0.16 J	0.32 J	R
CHLOROBENZENE	3.5	34.6	0.39 J	2.7 UJ	1.1 U	2.0 U	R
CHLOROMETHANE	NC	NC	4.5 UJ	2.7 U	1.1 U	2.0 U	2.6 U
CYCLOHEXANE	NC	NC	4.5 U	2.7 U	1.1 U	2.0 U	2.6 U
ETHYLBENZENE	24	212	4.5 U	2.7 UJ	1.1 U	2.0 U	2.6 UJ
ISOPROPYLBENZENE	12	105	4.5 U	2.7 UJ	1.1 U	2.0 U	2.6 UJ
M,P-XYLENES	NC	NC	9.3 U	5.6 UJ	2.4 U	4.1 U	R
METHYL ACETATE	NC	NC	4.5 UJ	2.7 U	1.1 U	2.0 U	2.6 U
METHYLCYCLOHEXANE	NC	NC	4.5 U	2.7 U	1.1 U	2.0 U	2.6 U
METHYLENE CHLORIDE	NC	NC	4.5 U	2.7 U	1.1 U	2.0 U	2.6 U
O-XYLENE	NC	NC	4.5 U	2.7 UJ	1.1 U	2.0 U	2.6 UJ
STYRENE	NC	NC	4.5 U	2.7 UJ	1.1 U	2.0 U	R
TOLUENE	49	235	0.34 J	2.7 UJ	1.1 U	2.0 U	2.6 UJ
TOTAL ORGANIC CARBON (%)	--	--	0.118	0.197	0.55	0.342	0.22

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD186	SD188	SD189	SD190	SD191	SD192
		Sample date	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/16/2011	11/16/2011
		Sample identification code	06SD186NF-SC-B-1	06SD188NF-SC-B-1	06SD189NF-SC-B-1	06SD190NF-SC-B-1	06SD191NF-SC-B-1	06SD192NF-SC-B-1
		Depth interval	2 - 4 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	2 - 3.7 ft	2 - 3.8 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
1,2,4-TRICHLOROBENZENE	91	910	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
1,2-DICHLOROBENZENE	12	120	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
1,2-DICHLOROETHANE	NC	NC	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
1,3-DICHLOROBENZENE	12	120	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
1,4-DICHLOROBENZENE	12	120	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
2-BUTANONE (MEK)	NC	NC	0.96 J	1.2 J	2.7 UJ	1.5 UJ	R	0.31 J
2-HEXANONE	NC	NC	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
4-METHYL-2-PENTANONE (MIBK)	NC	NC	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
ACETONE	NC	NC	4 J	5.0 J	3.4 J	1.6 J	28 J	1.6 J
BENZENE	28	103	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
BROMOMETHANE	NC	NC	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
CARBON DISULFIDE	NC	NC	0.042 J	0.041 J	2.7 UJ	1.5 UJ	0.97 J	0.088 J
CHLOROBENZENE	3.5	34.6	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.045 J
CHLOROMETHANE	NC	NC	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
CYCLOHEXANE	NC	NC	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
ETHYLBENZENE	24	212	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
ISOPROPYLBENZENE	12	105	0.013 J	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
M,P-XYLENES	NC	NC	0.34 UJ	0.57 UJ	5.2 UJ	3.0 UJ	R	0.84 U
METHYL ACETATE	NC	NC	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
METHYLCYCLOHEXANE	NC	NC	0.081 J	0.041 J	2.7 UJ	1.5 UJ	R	0.094 J
METHYLENE CHLORIDE	NC	NC	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
O-XYLENE	NC	NC	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
STYRENE	NC	NC	0.18 UJ	0.29 UJ	2.7 UJ	1.5 UJ	R	0.42 U
TOLUENE	49	235	0.036 J	0.057 J	2.7 UJ	1.5 UJ	R	0.029 J
TOTAL ORGANIC CARBON (%)	--	--	5.54	3.17	0.25	0.4	0.3	3.08

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD194	SD195	SD196	SD197	SD198	SD199
		Sample date	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011
		Sample identification code	06SD194NF-SC-B-1	06SD195NF-SC-B-1	06SD196NF-SC-B-1	06SD197NF-SC-B-1	06SD198NF-SC-B-1	06SD199NF-SC-B-1
		Depth interval	2 - 3.1 ft	2 - 3.6 ft	2 - 3.8 ft	2 - 4 ft	2 - 4 ft	2 - 2.8 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	0.27 UJ	2.4 U	0.49 U	0.22 U	0.18 U	76 U
1,2,4-TRICHLOROBENZENE	91	910	0.27 UJ	2.4 U	0.49 U	0.22 U	0.18 U	76 U
1,2-DICHLOROBENZENE	12	120	0.27 UJ	2.4 U	0.49 U	0.22 U	0.18 U	76 U
1,2-DICHLOROETHANE	NC	NC	0.27 UJ	2.4 U	0.49 U	0.22 U	0.18 U	76 U
1,3-DICHLOROBENZENE	12	120	0.27 UJ	2.4 U	0.49 U	0.22 U	0.18 U	76 U
1,4-DICHLOROBENZENE	12	120	0.27 UJ	2.4 U	0.49 U	0.22 U	0.18 U	32 J
2-BUTANONE (MEK)	NC	NC	2.2 J	2.4 U	0.59	0.22 U	0.32	76 U
2-HEXANONE	NC	NC	0.27 UJ	2.4 U	0.49 U	0.22 U	0.18 U	76 U
4-METHYL-2-PENTANONE (MIBK)	NC	NC	0.27 UJ	2.4 U	0.49 U	0.22 U	0.18 U	76 U
ACETONE	NC	NC	8.7 J	0.85 J	3.1	0.7	2	19 J
BENZENE	28	103	0.27 UJ	2.4 U	0.031 J	0.22 U	0.18 U	76 U
BROMOMETHANE	NC	NC	0.27 UJ	2.4 U	0.49 U	0.22 U	0.18 U	76 U
CARBON DISULFIDE	NC	NC	0.080 J	0.18 J	0.089 J	0.017 J	0.049 J	76 U
CHLOROBENZENE	3.5	34.6	0.27 UJ	2.4 U	0.060 J	0.22 U	0.18 U	*650*
CHLOROMETHANE	NC	NC	0.27 UJ	2.4 UJ	0.49 UJ	0.22 U	0.18 UJ	76 U
CYCLOHEXANE	NC	NC	0.27 UJ	2.4 U	0.49 U	0.22 U	0.18 U	76 U
ETHYLBENZENE	24	212	0.27 UJ	2.4 U	0.24 J	0.22 U	0.18 U	76 U
ISOPROPYLBENZENE	12	105	0.27 UJ	2.4 U	0.077 J	0.22 U	0.18 U	76 U
M,P-XYLENES	NC	NC	0.53 UJ	5.0 U	1.0 U	0.44 U	0.37 U	150 U
METHYL ACETATE	NC	NC	0.27 UJ	2.4 U	0.49 U	0.22 U	0.18 UJ	20 J
METHYLCYCLOHEXANE	NC	NC	0.27 J	2.4 U	0.46 J	0.22 U	0.041 J	76 U
METHYLENE CHLORIDE	NC	NC	0.27 UJ	2.4 U	0.49 U	0.22 U	0.18 U	76 U
O-XYLENE	NC	NC	0.017 J	2.4 U	0.49 U	0.22 U	0.18 U	76 U
STYRENE	NC	NC	0.27 UJ	2.4 U	0.037 J	0.22 U	0.18 U	76 U
TOLUENE	49	235	0.092 J	0.17 J	0.071 J	0.22 U	0.028 J	76 U
TOTAL ORGANIC CARBON (%)	--	--	4.12	0.26	1.68	2.72	4.65	1.84

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD200	SD201	SD202	SD203	SD203	SD203
		Sample date	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011
		Sample identification code	06SD200NF-SC-B-1	06SD201NF-SC-B-1	06SD202NF-SC-B-1	06SD203NF-SC-B-1	06SD203NF-SC-C-1	06SD203NF-SC-D-1
		Depth interval	2 - 3.6 ft	2 - 3.8 ft	2 - 2.6 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	1.7 R	0.2 UJ	1.3 U	63 U	1.1 R	1.8 UJ
1,2,4-TRICHLOROBENZENE	91	910	1.7 R	0.2 UJ	1.3 U	3.7 J	0.28 J	1.8 UJ
1,2-DICHLOROBENZENE	12	120	1.7 R	0.2 UJ	1.3 U	2.8 J	0.28 J	1.8 UJ
1,2-DICHLOROETHANE	NC	NC	1.7 UJ	0.2 UJ	1.3 U	63 U	1.1 UJ	1.8 UJ
1,3-DICHLOROBENZENE	12	120	1.7 R	0.2 UJ	1.3 U	*17* J	0.087 J	1.8 UJ
1,4-DICHLOROBENZENE	12	120	1.7 R	0.2 UJ	1.3 U	*63* J	0.13 J	1.8 UJ
2-BUTANONE (MEK)	NC	NC	1.7 UJ	2.2 J	1.3 U	63 U	1.1 UJ	1.8 UJ
2-HEXANONE	NC	NC	1.7 UJ	0.2 UJ	1.3 U	63 U	1.1 UJ	1.8 UJ
4-METHYL-2-PENTANONE (MIBK)	NC	NC	1.7 UJ	0.2 UJ	1.3 U	63 U	1.1 UJ	1.8 UJ
ACETONE	NC	NC	1.4 J	8.8 J	3.1	63 U	2.1 J	3.8 J
BENZENE	28	103	1.7 UJ	0.019 J	1.3 U	6.3 J	1.1 UJ	1.8 UJ
BROMOMETHANE	NC	NC	1.7 UJ	0.2 UJ	1.3 U	63 U	1.1 UJ	1.8 UJ
CARBON DISULFIDE	NC	NC	0.11 J	0.16 J	0.20 J	63 U	0.070 J	1.8 UJ
CHLOROBENZENE	3.5	34.6	1.7 UJ	0.88 J	1.3 U	*1200*	1.1 UJ	0.20 J
CHLOROMETHANE	NC	NC	1.7 UJ	0.2 UJ	1.3 UJ	63 U	1.1 UJ	1.8 UJ
CYCLOHEXANE	NC	NC	1.7 UJ	0.059 J	1.3 U	63 U	1.1 UJ	1.8 UJ
ETHYLBENZENE	24	212	1.7 UJ	0.2 UJ	1.3 U	63 U	1.1 UJ	1.8 UJ
ISOPROPYLBENZENE	12	105	1.7 R	0.059 J	1.3 U	63 U	1.1 UJ	1.8 UJ
M,P-XYLENES	NC	NC	3.3 UJ	0.50 UJ	2.7 U	120 U	2.3 UJ	3.4 UJ
METHYL ACETATE	NC	NC	1.7 UJ	0.2 UJ	1.3 U	8.8 J	1.1 UJ	1.8 UJ
METHYLCYCLOHEXANE	NC	NC	1.7 UJ	0.64 J	1.3 U	63 U	1.1 UJ	1.8 UJ
METHYLENE CHLORIDE	NC	NC	1.7 UJ	0.2 UJ	1.3 U	63 U	1.1 UJ	1.8 UJ
O-XYLENE	NC	NC	1.7 UJ	0.031 J	1.3 U	9 J	1.1 UJ	1.8 UJ
STYRENE	NC	NC	1.7 UJ	0.2 UJ	1.3 U	63 U	1.1 UJ	1.8 UJ
TOLUENE	49	235	1.7 UJ	0.038 J	1.3 U	63 U	1.1 UJ	1.8 UJ
TOTAL ORGANIC CARBON (%)	--	--	0.33	4.21	0.556	4.64	0.53	0.32

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD203	SD204	SD205	SD205	SD205	SD206
		Sample date	11/16/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011
		Sample identification code	06SD203NF-SC-D-2	06SD204NF-SC-B-1	06SD205NF-SC-B-1	06SD205NF-SC-C-1	06SD205NF-SC-D-1	06SD206NF-SC-B-1
		Depth interval	6 - 7.3 ft	2 - 2.4 ft	2 - 4 ft	4 - 6 ft	6 - 6.6 ft	2 - 2.8 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	1.4 R	0.39 U	88 U	3.8 J	R	3.9 U
1,2,4-TRICHLOROBENZENE	91	910	0.27 J	0.39 U	88 U	3.2 J	R	3.9 U
1,2-DICHLOROBENZENE	12	120	1.4 R	0.39 U	*17* J	R	R	3.9 U
1,2-DICHLOROETHANE	NC	NC	1.4 UJ	0.39 U	88 U	R	1.7 UJ	3.9 U
1,3-DICHLOROBENZENE	12	120	1.4 R	0.39 U	88 U	R	R	3.9 U
1,4-DICHLOROBENZENE	12	120	1.4 R	0.39 U	4.9 J	R	R	3.9 U
2-BUTANONE (MEK)	NC	NC	1.4 UJ	0.46	88 U	R	1.7 UJ	3.9 U
2-HEXANONE	NC	NC	1.4 UJ	0.39 U	88 U	R	1.7 UJ	3.9 U
4-METHYL-2-PENTANONE (MIBK)	NC	NC	1.4 UJ	0.39 U	88 U	R	1.7 UJ	3.9 U
ACETONE	NC	NC	2.0 J	2.0	88 U	41 J	1.8 UJ	8 U
BENZENE	28	103	1.4 UJ	0.39 U	4.4 J	R	1.7 UJ	3.9 U
BROMOMETHANE	NC	NC	1.4 UJ	0.39 U	88 UJ	R	1.7 UJ	3.9 U
CARBON DISULFIDE	NC	NC	0.17 J	0.093 J	88 U	1.9 J	0.11 J	3.9 U
CHLOROBENZENE	3.5	34.6	0.10 J	0.11 J	88 U	0.66 J	1.7 UJ	3.9 U
CHLOROMETHANE	NC	NC	1.4 UJ	0.39 UJ	88 UJ	2.1 J	1.7 UJ	3.9 UJ
CYCLOHEXANE	NC	NC	1.4 UJ	0.39 U	88 U	R	1.7 UJ	3.9 U
ETHYLBENZENE	24	212	1.4 UJ	0.39 U	88 U	R	1.7 UJ	3.9 U
ISOPROPYLBENZENE	12	105	1.4 R	0.39 U	88 U	R	R	3.9 U
M,P-XYLENES	NC	NC	2.9 UJ	0.77 U	170 U	R	3.5 UJ	8 U
METHYL ACETATE	NC	NC	1.4 UJ	0.39 UJ	23 J	R	1.7 UJ	0.59 J
METHYLCYCLOHEXANE	NC	NC	1.4 UJ	0.39 U	5.4 J	R	1.7 UJ	3.9 U
METHYLENE CHLORIDE	NC	NC	1.4 UJ	0.39 U	88 U	0.34 J	1.7 UJ	3.9 U
O-XYLENE	NC	NC	1.4 UJ	0.39 U	88 U	R	1.7 UJ	3.9 U
STYRENE	NC	NC	1.4 UJ	0.39 U	88 U	R	1.7 UJ	3.9 U
TOLUENE	49	235	1.4 UJ	0.39 U	100 U	R	1.7 UJ	3.9 U
TOTAL ORGANIC CARBON (%)	--	--	0.41	1.82	2.04	0.29	0.34	0.253

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD206	SD207	SD208	SD208	SD208	SD208
		Sample date	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011	11/17/2011
		Sample identification code	06SD206NF-SC-B-2	06SD207NF-SC-B-1	06SD208NF-SC-B-1	06SD208NF-SC-C-1	06SD208NF-SC-C-2	06SD208NF-SC-D-1
		Depth interval	2 - 2.8 ft	2 - 3.7 ft	2 - 4 ft	4 - 6 ft	4 - 6 ft	6 - 8 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	1.2 U	38 U	60 U	280 U	72 U	2.2 J
1,2,4-TRICHLOROBENZENE	91	910	1.2 U	38 U	60 U	280 U	72 U	20 U
1,2-DICHLOROBENZENE	12	120	1.2 U	6.9 J	6.0 J	*30 J*	*14 J*	4.5 J
1,2-DICHLOROETHANE	NC	NC	1.2 U	38 U	5.9 J	280 U	72 U	20 U
1,3-DICHLOROBENZENE	12	120	1.2 U	38 U	60 U	280 U	72 U	20 U
1,4-DICHLOROBENZENE	12	120	1.2 U	5.3 J	*20 J*	*240 J*	*82*	*17 J*
2-BUTANONE (MEK)	NC	NC	1.2 U	38 U	60 U	280 U	72 U	20 U
2-HEXANONE	NC	NC	1.2 U	38 U	60 U	280 U	72 U	20 U
4-METHYL-2-PENTANONE (MIBK)	NC	NC	1.2 U	38 U	60 U	280 U	72 U	20 U
ACETONE	NC	NC	2.7 U	38 U	60 U	280 U	72 U	20 U
BENZENE	28	103	1.2 U	38 U	*82*	*410*	*100*	*28*
BROMOMETHANE	NC	NC	1.2 U	38 UJ	60 UJ	280 UJ	72 UJ	20 UJ
CARBON DISULFIDE	NC	NC	0.12 J	38 U	60 U	280 U	72 U	20 U
CHLOROBENZENE	3.5	34.6	1.2 U	*90*	*1500*	*8500 J*	*2300 J*	*560*
CHLOROMETHANE	NC	NC	1.2 UJ	38 UJ	60 UJ	280 UJ	72 UJ	20 UJ
CYCLOHEXANE	NC	NC	1.2 U	38 U	60 U	280 U	72 U	20 U
ETHYLBENZENE	24	212	1.2 U	38 U	4 J	*49 J*	13 J	5.3 J
ISOPROPYLBENZENE	12	105	1.2 U	38 U	60 U	280 U	3.2 J	3.4 J
M,P-XYLENES	NC	NC	2.4 U	75 U	9.3 J	160 J	41 J	45
METHYL ACETATE	NC	NC	1.2 UJ	8.5 J	60 U	280 U	6.3 J	5.4 J
METHYLCYCLOHEXANE	NC	NC	1.2 U	8.5 J	60 U	24 J	9.1 J	49 J
METHYLENE CHLORIDE	NC	NC	1.2 U	38 U	60 U	280 U	72 U	20 U
O-XYLENE	NC	NC	1.2 U	38 U	10 J	92 J	30 J	19 J
STYRENE	NC	NC	1.2 U	38 U	60 U	280 U	72 U	20 U
TOLUENE	49	235	1.2 U	38 U	60 U	280 U	72 U	20 U
TOTAL ORGANIC CARBON (%)	--	--	0.59	3.19	9.26	1.53	2.08	6.47

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD209	SD209	SD210	SD210	SD210	SD210
		Sample date	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011
		Sample identification code	06SD209NF-SC-B-1	06SD209NF-SC-C-1	06SD210NF-SC-B-1	06SD210NF-SC-C-1	06SD210NF-SC-D-1	06SD210NF-SC-D-2
		Depth interval	2 - 4 ft	4 - 6 ft	2 - 4 ft	4 - 6 ft	6 - 7.3 ft	6 - 7.3 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	40 U	0.19 U	920 J	1100	20 U	190 U
1,2,4-TRICHLOROBENZENE	91	910	2.6 J	0.19 U	*4800 J*	*5100*	30 U	190 U
1,2-DICHLOROBENZENE	12	120	*130*	0.19 U	*4200 J*	*5100*	*22 J*	*45 J*
1,2-DICHLOROETHANE	NC	NC	40 U	0.19 U	110 UJ	130 U	20 U	190 U
1,3-DICHLOROBENZENE	12	120	40 U	0.19 U	*1000 J*	*1200*	6.6 J	190 U
1,4-DICHLOROBENZENE	12	120	*63*	0.19 U	*4100 J*	*5000*	*17 J*	*31 J*
2-BUTANONE (MEK)	NC	NC	40 U	0.19 U	110 UJ	130 U	20 U	190 U
2-HEXANONE	NC	NC	40 U	0.19 U	110 UJ	130 U	20 U	190 U
4-METHYL-2-PENTANONE (MIBK)	NC	NC	40 U	0.19 U	110 UJ	130 U	20 U	190 U
ACETONE	NC	NC	10. J	0.28	110 UJ	130 U	20 U	190 U
BENZENE	28	103	2.9 J	0.19 U	*630 J*	*510*	26	*66 J*
BROMOMETHANE	NC	NC	40 U	0.19 U	110 UJ	130 U	20 U	190 U
CARBON DISULFIDE	NC	NC	41	0.11 J	110 UJ	130 U	20 U	190 U
CHLOROBENZENE	3.5	34.6	*320*	0.080 J	*100000 J*	*86000*	*930 J*	*4700 J*
CHLOROMETHANE	NC	NC	40 U	0.19 UJ	110 UJ	130 U	20 U	190 U
CYCLOHEXANE	NC	NC	40 U	0.19 U	110 UJ	130 U	20 U	190 U
ETHYLBENZENE	24	212	40 U	0.19 U	*230 J*	*270*	1.7 J	190 U
ISOPROPYLBENZENE	12	105	40 U	0.19 U	11 J	11 J	20 U	190 U
M,P-XYLENES	NC	NC	5.5 J	0.38 U	550 J	640	50 U	400 U
METHYL ACETATE	NC	NC	11 J	0.19 U	10 J	130 U	2 J	190 U
METHYLCYCLOHEXANE	NC	NC	3.1 J	0.19 U	7.6 J	10 J	20 U	190 U
METHYLENE CHLORIDE	NC	NC	40 U	0.19 U	110 UJ	130 U	20 U	190 U
O-XYLENE	NC	NC	40 U	0.19 U	150 J	180	1.6 J	190 U
STYRENE	NC	NC	40 U	0.19 U	110 UJ	130 U	20 U	190 U
TOLUENE	49	235	11 J	0.19 U	*420 J*	*500*	20 U	190 U
TOTAL ORGANIC CARBON (%)	--	--	2.71	3.99	5.67	4.09	8.13	5.8

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD211	SD212	SD212	SD212	SD212	SD213
		Sample date	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/16/2011
		Sample identification code	06SD211NF-SC-B-1	06SD212NF-SC-B-1	06SD212NF-SC-C-1	06SD212NF-SC-D-1	06SD212NF-SC-E-1	06SD213NF-SC-B-1
		Depth interval	2 - 3.3 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 8.9 ft	2 - 4 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	5.4 U	300 J	80 J	34 J	1000 U	270 J
1,2,4-TRICHLOROBENZENE	91	910	5.4 U	*1400 J*	*510*	*170 J*	1000 U	*1300 J*
1,2-DICHLOROBENZENE	12	120	5.4 U	*8000 J*	*3100*	*22000*	*15000*	*220000 J*
1,2-DICHLOROETHANE	NC	NC	5.4 U	60 UJ	110 U	80 U	1000 U	270 UJ
1,3-DICHLOROBENZENE	12	120	5.4 U	*1100 J*	*410*	*2100*	*5100*	*20000 J*
1,4-DICHLOROBENZENE	12	120	5.4 U	*650 J*	*1700*	*900*	*2200*	*9700 J*
2-BUTANONE (MEK)	NC	NC	5.4 U	60 UJ	110 U	80 U	1000 U	270 UJ
2-HEXANONE	NC	NC	5.4 U	60 UJ	110 U	80 U	1000 U	270 UJ
4-METHYL-2-PENTANONE (MIBK)	NC	NC	5.4 U	60 UJ	110 U	80 U	1000 U	270 UJ
ACETONE	NC	NC	5.4 U	60 UJ	110 U	80 U	1000 U	270 UJ
BENZENE	28	103	5.4 U	*750 J*	*600*	*80 J*	*280 J*	*2000 J*
BROMOMETHANE	NC	NC	5.4 U	60 UJ	110 U	80 U	1000 U	270 UJ
CARBON DISULFIDE	NC	NC	0.65 J	60 UJ	110 U	80 U	1000 U	270 UJ
CHLOROBENZENE	3.5	34.6	0.42 J	*25000 J*	*19000*	*5300*	*35000*	*100000 J*
CHLOROMETHANE	NC	NC	5.4 UJ	60 UJ	110 U	80 U	1000 U	270 UJ
CYCLOHEXANE	NC	NC	5.4 U	60 UJ	110 U	80 U	1000 U	37 J
ETHYLBENZENE	24	212	5.4 U	*100 J*	*130*	80 U	1000 U	*540 J*
ISOPROPYLBENZENE	12	105	5.4 U	60 UJ	5.8 J	80 U	1000 U	270 UJ
M,P-XYLENES	NC	NC	11 U	280 J	270	160 U	2000 U	2000 J
METHYL ACETATE	NC	NC	5.4 UJ	60 UJ	110 U	80 U	1000 U	270 UJ
METHYLCYCLOHEXANE	NC	NC	5.4 U	6.1 J	4.6 J	80 U	1000 U	71 J
METHYLENE CHLORIDE	NC	NC	5.4 U	60 UJ	110 U	80 U	1000 U	270 UJ
O-XYLENE	NC	NC	5.4 U	52 J	80 J	80 U	1000 U	510 J
STYRENE	NC	NC	5.4 U	60 UJ	110 U	80 U	1000 U	270 UJ
TOLUENE	49	235	5.4 U	*300 J*	*290*	80 U	1000 U	*2700 J*
TOTAL ORGANIC CARBON (%)	--	--	0.127	12.5	4.14	4.36	0.274	8.59

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD213	SD213	SD213	SD213	SD215	SD215
		Sample date	11/16/2011	11/16/2011	11/16/2011	11/16/2011	11/15/2011	11/15/2011
		Sample identification code	06SD213NF-SC-C-1	06SD213NF-SC-D-1	06SD213NF-SC-E-1	06SD213NF-SC-F-1	06SD215NF-SC-B-1	06SD215NF-SC-C-1
		Depth interval	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 11.4 ft	2 - 4 ft	4 - 6 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	2400 UJ	4100 U	420 U	600 U	1500 J	150 J
1,2,4-TRICHLOROBENZENE	91	910	3200 UJ	6400 U	420 U	600 U	*8700*	*560 J*
1,2-DICHLOROBENZENE	12	120	*3100 J*	*20000*	*4000*	*1700*	*67000*	*2500 J*
1,2-DICHLOROETHANE	NC	NC	2400 UJ	4100 U	420 U	600 U	8500	440 J
1,3-DICHLOROBENZENE	12	120	*800 J*	4100 U	*83 J*	600 U	*4000 J*	*1300 UJ*
1,4-DICHLOROBENZENE	12	120	*580 J*	*3600 J*	*830*	*260 J*	*8500*	*450 J*
2-BUTANONE (MEK)	NC	NC	2400 UJ	4100 U	420 U	600 U	6900 U	1300 UJ
2-HEXANONE	NC	NC	2400 UJ	4100 U	420 U	600 U	6900 U	1300 UJ
4-METHYL-2-PENTANONE (MIBK)	NC	NC	2400 UJ	4100 U	420 U	600 U	6900 U	1300 UJ
ACETONE	NC	NC	2400 UJ	4100 U	420 U	600 U	6900 U	1300 UJ
BENZENE	28	103	*660 J*	*3000 J*	*900*	*3400*	*4300 J*	*660 J*
BROMOMETHANE	NC	NC	2400 UJ	4100 U	420 U	600 U	6900 UJ	1300 UJ
CARBON DISULFIDE	NC	NC	2400 UJ	4100 U	420 U	600 U	6900 U	1300 UJ
CHLOROBENZENE	3.5	34.6	*61000 J*	*150000*	*10000*	*20000*	*200000*	*35000 J*
CHLOROMETHANE	NC	NC	2400 UJ	4100 U	420 U	600 U	6900 U	1300 UJ
CYCLOHEXANE	NC	NC	2400 UJ	4100 U	420 U	600 U	6900 U	1300 UJ
ETHYLBENZENE	24	212	2400 UJ	*500 J*	*47 J*	600 U	*960 J*	1300 UJ
ISOPROPYLBENZENE	12	105	2400 UJ	4100 U	420 U	600 U	6900 U	1300 UJ
M,P-XYLENES	NC	NC	4900 UJ	3000 J	380 J	120 J	14000 U	300 J
METHYL ACETATE	NC	NC	2400 UJ	4100 U	420 U	600 U	6900 U	1300 UJ
METHYLCYCLOHEXANE	NC	NC	2400 UJ	200 J	58 J	32 J	6900 U	67 J
METHYLENE CHLORIDE	NC	NC	2400 UJ	4100 U	420 U	600 U	6900 U	1300 UJ
O-XYLENE	NC	NC	2400 UJ	850 J	97 J	47 J	6900 U	89 J
STYRENE	NC	NC	2400 UJ	4100 U	420 U	600 U	6900 U	1300 UJ
TOLUENE	49	235	2400 UJ	4100 U	460 U	720 U	6900 U	1300 UJ
TOTAL ORGANIC CARBON (%)	--	--	6.77	6.38	14.4	0.47	5.52	12.3

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD215	SD215	SD216	SD216	SD216	SD216
		Sample date	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011
		Sample identification code	06SD215NF-SC-D-1	06SD215NF-SC-D-2	06SD216NF-SC-B-1	06SD216NF-SC-C-1	06SD216NF-SC-D-1	06SD216NF-SC-E-1
		Depth interval	6 - 8 ft	6 - 8 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 8.9 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	3900 UJ	2200 UJ	260 J	4700	280 J	21 J
1,2,4-TRICHLOROBENZENE	91	910	*260 J*	*150 J*	*1900 J*	*33000*	*1200 J*	68 J
1,2-DICHLOROBENZENE	12	120	*98000 J*	*68000 J*	*4500 J*	*56000*	*1600 J*	*130 J*
1,2-DICHLOROETHANE	NC	NC	3900 UJ	2200 UJ	1000 J	860 J	240 J	160 J
1,3-DICHLOROBENZENE	12	120	*1300 J*	*920 J*	*500 J*	*4800*	1600 U	340 U
1,4-DICHLOROBENZENE	12	120	*13000 J*	*9200 J*	*420 J*	*7100*	*250 J*	*24 J*
2-BUTANONE (MEK)	NC	NC	3900 UJ	2200 UJ	1300 UJ	4700 U	1600 U	340 U
2-HEXANONE	NC	NC	3900 UJ	2200 UJ	1300 UJ	4700 U	1600 U	340 U
4-METHYL-2-PENTANONE (MIBK)	NC	NC	3900 UJ	2200 UJ	1300 UJ	4700 U	1600 U	340 U
ACETONE	NC	NC	3900 UJ	2200 UJ	1300 UJ	4700 U	1600 U	340 U
BENZENE	28	103	*790 J*	*620 J*	*1500 J*	*6000*	*5400*	*6100*
BROMOMETHANE	NC	NC	3900 UJ	2200 UJ	1300 UJ	4700 U	1600 U	340 U
CARBON DISULFIDE	NC	NC	3900 UJ	2200 UJ	1300 UJ	4700 U	1600 U	340 U
CHLOROBENZENE	3.5	34.6	*32000 J*	*26000 J*	*50000 J*	*170000*	*59000*	*8200*
CHLOROMETHANE	NC	NC	3900 UJ	2200 UJ	1300 UJ	4700 U	1600 U	340 U
CYCLOHEXANE	NC	NC	3900 UJ	2200 UJ	1300 UJ	4700 U	1600 U	340 U
ETHYLBENZENE	24	212	3900 UJ	2200 UJ	*61 J*	*960 J*	*110 J*	340 U
ISOPROPYLBENZENE	12	105	3900 UJ	2200 UJ	1300 UJ	4700 U	1600 U	340 U
M,P-XYLENES	NC	NC	7800 UJ	460 J	2600 UJ	1500 J	3100 U	680 U
METHYL ACETATE	NC	NC	3900 UJ	2200 UJ	1300 UJ	4700 U	1600 U	340 U
METHYLCYCLOHEXANE	NC	NC	3900 UJ	2200 UJ	1300 UJ	4700 U	1600 U	340 U
METHYLENE CHLORIDE	NC	NC	3900 UJ	2200 UJ	1300 UJ	4700 U	1600 U	340 U
O-XYLENE	NC	NC	3900 UJ	110 J	1300 UJ	500 J	1600 U	340 U
STYRENE	NC	NC	3900 UJ	2200 UJ	1300 UJ	4700 U	1600 U	340 U
TOLUENE	49	235	3900 UJ	2200 UJ	1300 UJ	4700 U	1600 U	340 U
TOTAL ORGANIC CARBON (%)	--	--	8.5	14.1	7.38	8.74	0.39	0.38

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD217	SD218	SD219	SD219	SD219	SD219
		Sample date	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011
		Sample identification code	06SD217NF-SC-B-1	06SD218NF-SC-B-1	06SD219NF-SC-B-1	06SD219NF-SC-C-1	06SD219NF-SC-D-1	06SD219NF-SC-E-1
		Depth interval	2 - 3 ft	2 - 3.1 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 8.9 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	2.5 U	250 U	630 J	470 U	270 U	200 U
1,2,4-TRICHLOROBENZENE	91	910	2.5 U	22 J	*1900*	*190 J*	13 J	200 U
1,2-DICHLOROBENZENE	12	120	2.5 U	*52 J*	*1900*	*200 J*	11 J	200 U
1,2-DICHLOROETHANE	NC	NC	2.5 U	250 U	1000 U	470 U	270 U	200 U
1,3-DICHLOROBENZENE	12	120	2.5 U	*63 J*	*520 J*	*120 J*	270 U	200 U
1,4-DICHLOROBENZENE	12	120	2.5 U	*340*	*2800*	*3700*	*62 J*	200 U
2-BUTANONE (MEK)	NC	NC	2.5 U	250 U	1000 U	470 U	270 U	200 U
2-HEXANONE	NC	NC	2.5 U	250 U	1000 U	470 U	270 U	200 U
4-METHYL-2-PENTANONE (MIBK)	NC	NC	2.5 U	250 U	1000 U	470 U	270 U	200 U
ACETONE	NC	NC	1.3 J	250 U	1000 U	470 U	270 U	200 U
BENZENE	28	103	2.5 U	*110 J*	*3000*	*7000*	*200 J*	20 J
BROMOMETHANE	NC	NC	2.5 U	250 U	1000 UJ	470 UJ	270 UJ	200 UJ
CARBON DISULFIDE	NC	NC	0.39 J	250 U	1000 U	470 U	270 U	200 U
CHLOROBENZENE	3.5	34.6	2.5 U	*5200*	*97000 D*	*63000 D*	*2800*	*220*
CHLOROMETHANE	NC	NC	2.5 U	250 U	1000 UJ	470 UJ	270 UJ	200 UJ
CYCLOHEXANE	NC	NC	2.5 U	250 U	1000 U	470 U	270 U	200 U
ETHYLBENZENE	24	212	2.5 U	22 J	*290 J*	*500*	270 U	200 U
ISOPROPYLBENZENE	12	105	2.5 U	250 U	1000 U	*37 J*	270 U	200 U
M,P-XYLENES	NC	NC	5.0 U	44 J	490 J	1200	540 U	390 U
METHYL ACETATE	NC	NC	2.5 U	31 J	1000 U	470 U	270 U	200 U
METHYLCYCLOHEXANE	NC	NC	2.5 U	31 J	1000 U	37 J	270 U	200 U
METHYLENE CHLORIDE	NC	NC	2.5 U	250 U	1000 U	470 U	270 U	200 U
O-XYLENE	NC	NC	2.5 U	17 J	97 J	430 J	270 U	200 U
STYRENE	NC	NC	2.5 U	250 U	1000 U	470 U	270 U	200 U
TOLUENE	49	235	2.5 U	250 U	*1000 J*	470 U	14 J	200 U
TOTAL ORGANIC CARBON (%)	--	--	0.24	0.252	2.68	0.3	0.26	0.33

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD220	SD221	SD221	SD221	SD221	SD222
		Sample date	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011
		Sample identification code	06SD220NF-SC-B-1	06SD221NF-SC-B-1	06SD221NF-SC-C-1	06SD221NF-SC-D-1	06SD221NF-SC-E-1	06SD222NF-SC-B-1
		Depth interval	2 - 2.5 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 9.2 ft	2 - 4 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	1.0 U	0.17 J	1.4 UJ	1.8 UJ	1.6 UJ	1600 UJ
1,2,4-TRICHLOROBENZENE	91	910	1.0 U	1.1 UJ	1.4 UJ	1.8 UJ	1.6 UJ	*200 J*
1,2-DICHLOROBENZENE	12	120	0.38 J	1.1 UJ	1.4 UJ	1.8 UJ	1.6 UJ	*400 J*
1,2-DICHLOROETHANE	NC	NC	1.0 U	2.0 J	1.4 UJ	1.8 UJ	1.6 UJ	1600 UJ
1,3-DICHLOROBENZENE	12	120	0.31 J	1.1 UJ	1.4 UJ	1.8 UJ	1.6 UJ	*1600 UJ*
1,4-DICHLOROBENZENE	12	120	1.2	1.1 UJ	1.4 UJ	1.8 UJ	1.6 UJ	*520 J*
2-BUTANONE (MEK)	NC	NC	1.5	1.1 UJ	1.4 UJ	1.8 UJ	1.6 UJ	1600 UJ
2-HEXANONE	NC	NC	1.0 U	1.1 UJ	1.4 UJ	1.8 UJ	1.6 UJ	1600 UJ
4-METHYL-2-PENTANONE (MIBK)	NC	NC	1.0 U	1.1 UJ	1.4 UJ	1.8 UJ	1.6 UJ	1600 UJ
ACETONE	NC	NC	5.8	3.4 UJ	1.6 UJ	1.8 UJ	1.6 UJ	1600 UJ
BENZENE	28	103	0.065 J	*83 J*	0.50 J	1.8 UJ	1.6 UJ	*980 J*
BROMOMETHANE	NC	NC	1.0 U	1.1 UJ	1.4 UJ	0.17 J	1.6 UJ	1600 UJ
CARBON DISULFIDE	NC	NC	0.098 J	0.14 J	1.4 UJ	1.8 UJ	1.6 UJ	1600 UJ
CHLOROBENZENE	3.5	34.6	*8.6*	*190 J*	3.1 J	0.46 J	0.16 J	*63000 D*
CHLOROMETHANE	NC	NC	1.0 UJ	1.1 UJ	1.4 UJ	0.25 J	1.6 UJ	1600 UJ
CYCLOHEXANE	NC	NC	1.0 U	1.1 UJ	1.4 UJ	1.8 UJ	1.6 UJ	1600 UJ
ETHYLBENZENE	24	212	1.0 U	1.1 UJ	1.4 UJ	1.8 UJ	1.6 UJ	*75 J*
ISOPROPYLBENZENE	12	105	1.0 U	1.1 UJ	1.4 UJ	1.8 UJ	1.6 UJ	1600 UJ
M,P-XYLENES	NC	NC	2.0 U	2.2 UJ	2.7 UJ	4 UJ	3.2 UJ	230 J
METHYL ACETATE	NC	NC	1.0 U	1.1 UJ	1.4 UJ	1.8 UJ	1.6 UJ	1600 UJ
METHYLCYCLOHEXANE	NC	NC	1.0 U	1.1 UJ	1.4 UJ	1.8 UJ	1.6 UJ	1600 UJ
METHYLENE CHLORIDE	NC	NC	1.0 U	1.1 UJ	1.4 UJ	1.8 UJ	1.6 UJ	1600 UJ
O-XYLENE	NC	NC	1.0 U	1.1 UJ	1.4 UJ	1.8 UJ	1.6 UJ	1600 UJ
STYRENE	NC	NC	1.0 U	1.1 UJ	1.4 UJ	1.8 UJ	1.6 UJ	1600 UJ
TOLUENE	49	235	0.17 J	0.46 J	1.4 UJ	1.8 UJ	1.6 UJ	*1100 J*
TOTAL ORGANIC CARBON (%)	--	--	0.65	0.35	0.3	0.28	0.29	5.21

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD222	SD222	SD222	SD223	SD225	SD225
		Sample date	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011
		Sample identification code	06SD222NF-SC-C-1	06SD222NF-SC-C-2	06SD222NF-SC-D-1	06SD223NF-SC-B-1	06SD225NF-SC-B-1	06SD225NF-SC-C-1
		Depth interval	4 - 6 ft	4 - 6 ft	6 - 8 ft	2 - 3.6 ft	2 - 4 ft	4 - 6 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	1300 UJ	120 J	180 U	3.6 U	R	R
1,2,4-TRICHLOROBENZENE	91	910	74 J	*560 J*	180 U	3.6 U	R	R
1,2-DICHLOROBENZENE	12	120	*59 J*	*200 J*	180 U	3.6 U	R	R
1,2-DICHLOROETHANE	NC	NC	1300 UJ	900 UJ	180 U	3.6 U	1.3 UJ	R
1,3-DICHLOROBENZENE	12	120	1300 UJ	*160 J*	180 U	3.6 U	R	R
1,4-DICHLOROBENZENE	12	120	*430 J*	*220 J*	180 U	3.6 U	R	R
2-BUTANONE (MEK)	NC	NC	1300 UJ	900 UJ	180 U	3.6 U	1.3 UJ	R
2-HEXANONE	NC	NC	1300 UJ	900 UJ	180 U	3.6 U	R	R
4-METHYL-2-PENTANONE (MIBK)	NC	NC	1300 UJ	900 UJ	180 U	3.6 U	1.3 UJ	R
ACETONE	NC	NC	1300 UJ	900 UJ	180 U	4.1	4.7 J	24 J
BENZENE	28	103	*920 J*	*190 J*	10 J	3.6 U	1.3 UJ	R
BROMOMETHANE	NC	NC	1300 UJ	900 UJ	180 UJ	3.6 U	1.3 UJ	R
CARBON DISULFIDE	NC	NC	1300 UJ	900 UJ	180 U	0.41 J	0.31 J	1.7 J
CHLOROBENZENE	3.5	34.6	*31000 J*	*20000 J*	*230*	3.6 U	0.17 J	R
CHLOROMETHANE	NC	NC	1300 UJ	900 UJ	180 UJ	3.6 U	1.3 UJ	R
CYCLOHEXANE	NC	NC	1300 UJ	900 UJ	180 U	3.6 U	1.3 UJ	R
ETHYLBENZENE	24	212	1300 UJ	900 UJ	180 U	3.6 U	R	R
ISOPROPYLBENZENE	12	105	1300 UJ	900 UJ	180 U	3.6 U	R	R
M,P-XYLENES	NC	NC	2500 UJ	1900 UJ	360 U	7.4 U	R	R
METHYL ACETATE	NC	NC	1300 UJ	900 UJ	180 U	3.6 U	1.3 UJ	R
METHYLCYCLOHEXANE	NC	NC	1300 UJ	900 UJ	180 U	3.6 U	1.3 UJ	R
METHYLENE CHLORIDE	NC	NC	1300 UJ	900 UJ	180 U	3.6 U	1.3 UJ	R
O-XYLENE	NC	NC	1300 UJ	900 UJ	180 U	3.6 U	R	R
STYRENE	NC	NC	1300 UJ	900 UJ	180 U	3.6 U	R	R
TOLUENE	49	235	1300 UJ	37 J	180 U	3.6 U	1.3 UJ	R
TOTAL ORGANIC CARBON (%)	--	--	5.55	5.91	0.33	0.149	0.32	0.32

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD225	SD225	SD226	SD226	SD226	SD226
		Sample date	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011	11/15/2011
		Sample identification code	06SD225NF-SC-D-1	06SD225NF-SC-D-2	06SD226NF-SC-B-1	06SD226NF-SC-C-1	06SD226NF-SC-D-1	06SD226NF-SC-E-1
		Depth interval	6 - 7.9 ft	6 - 7.9 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 9.8 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	2.3 UJ	R	390 U	110 U	29 UJ	1.0 UJ
1,2,4-TRICHLOROBENZENE	91	910	2.3 UJ	1.0 J	390 U	110 U	29 UJ	1.0 UJ
1,2-DICHLOROBENZENE	12	120	2.3 UJ	0.43 J	390 U	5.4 J	1.3 J	0.52 J
1,2-DICHLOROETHANE	NC	NC	2.3 UJ	2.3 UJ	390 U	110 U	29 UJ	1.0 UJ
1,3-DICHLOROBENZENE	12	120	2.3 UJ	0.34 J	390 U	110 U	29 UJ	1.0 UJ
1,4-DICHLOROBENZENE	12	120	2.3 UJ	0.43 J	390 U	9.3 J	2.1 J	0.28 J
2-BUTANONE (MEK)	NC	NC	2.3 UJ	2.3 UJ	390 U	110 U	29 UJ	5.2 J
2-HEXANONE	NC	NC	2.3 UJ	2.3 UJ	390 U	110 U	29 UJ	1.0 UJ
4-METHYL-2-PENTANONE (MIBK)	NC	NC	2.3 UJ	2.3 UJ	390 U	110 U	29 UJ	1.0 UJ
ACETONE	NC	NC	2.6 J	2.7 J	390 U	110 U	10 J	26 J
BENZENE	28	103	2.3 UJ	2.3 UJ	*2100*	*39* J	1.6 J	0.74 J
BROMOMETHANE	NC	NC	2.3 UJ	2.3 UJ	390 U	110 U	29 UJ	1.0 UJ
CARBON DISULFIDE	NC	NC	2.3 UJ	2.3 UJ	390 U	110 U	29 UJ	0.52 J
CHLOROBENZENE	3.5	34.6	2.3 UJ	2.3 UJ	*11000*	*3500*	*35 J*	2.8 J
CHLOROMETHANE	NC	NC	2.3 UJ	2.3 UJ	390 U	110 U	29 UJ	1.0 UJ
CYCLOHEXANE	NC	NC	2.3 UJ	2.3 UJ	390 UJ	110 UJ	29 UJ	1.0 UJ
ETHYLBENZENE	24	212	2.3 UJ	2.3 UJ	*33 J*	110 U	1.4 J	1.0 UJ
ISOPROPYLBENZENE	12	105	2.3 UJ	2.3 UJ	390 U	110 U	29 UJ	0.14 J
M,P-XYLENES	NC	NC	4.7 UJ	4.6 UJ	89 J	20 J	5.2 J	2.0 UJ
METHYL ACETATE	NC	NC	2.3 UJ	2.3 UJ	390 U	110 U	8.1 J	0.16 J
METHYLCYCLOHEXANE	NC	NC	2.3 UJ	2.3 UJ	390 UJ	7.2 J	4.2 J	3.3 J
METHYLENE CHLORIDE	NC	NC	2.3 UJ	2.3 UJ	390 U	110 U	29 UJ	1.0 UJ
O-XYLENE	NC	NC	2.3 UJ	2.3 UJ	20 J	5.9 J	29 UJ	0.076 J
STYRENE	NC	NC	2.3 UJ	2.3 UJ	390 U	110 U	29 UJ	1.0 UJ
TOLUENE	49	235	2.3 UJ	2.3 UJ	390 U	17 J	21 J	0.14 J
TOTAL ORGANIC CARBON (%)	--	--	0.3	0.28	4.6	4.61	5.18	0.54

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD226	SD228	SD229	SD229	SD229	SD229
		Sample date	11/15/2011	11/15/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011
		Sample identification code	06SD226NF-SC-E-2	06SD228NF-SC-B-1	06SD229NF-SC-B-1	06SD229NF-SC-C-1	06SD229NF-SC-D-1	06SD229NF-SC-D-2
		Depth interval	8 - 9.8 ft	2 - 3.2 ft	2 - 4 ft	4 - 6 ft	6 - 7.5 ft	6 - 7.5 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	1.0 U	340 U	160 UJ	78 U	250 U	220 U
1,2,4-TRICHLOROBENZENE	91	910	1.0 U	340 U	160 UJ	78 U	250 U	220 U
1,2-DICHLOROBENZENE	12	120	1.0 U	*41* J	10 J	78 U	250 U	220 U
1,2-DICHLOROETHANE	NC	NC	1.0 U	58 J	160 UJ	78 U	250 U	220 U
1,3-DICHLOROBENZENE	12	120	1.0 U	340 U	*50* J	78 U	250 U	220 U
1,4-DICHLOROBENZENE	12	120	0.14 J	*50* J	*120* J	5.6 J	250 U	220 U
2-BUTANONE (MEK)	NC	NC	2.9	340 U	160 UJ	78 U	250 U	220 U
2-HEXANONE	NC	NC	1.0 U	340 U	160 UJ	78 U	250 U	220 U
4-METHYL-2-PENTANONE (MIBK)	NC	NC	1.0 U	340 U	160 UJ	78 U	250 U	220 U
ACETONE	NC	NC	20 J	340 U	160 UJ	78 U	250 U	220 U
BENZENE	28	103	0.67 J	140 J	*95* J	78 U	250 U	9 J
BROMOMETHANE	NC	NC	1.0 U	340 U	160 UJ	78 U	250 U	220 U
CARBON DISULFIDE	NC	NC	1.3	340 U	160 UJ	78 U	250 U	220 U
CHLOROBENZENE	3.5	34.6	2.9	*1800*	*5800* J	*700*	*440*	*480*
CHLOROMETHANE	NC	NC	1.0 UJ	340 U	160 UJ	78 U	250 U	220 U
CYCLOHEXANE	NC	NC	1.0 U	340 UJ	160 UJ	78 U	250 U	220 U
ETHYLBENZENE	24	212	1.0 U	340 U	18 J	78 U	250 U	220 U
ISOPROPYLBENZENE	12	105	1.0 U	340 U	160 UJ	78 U	250 U	220 U
M,P-XYLENES	NC	NC	2 U	680 U	63 J	160 U	500 U	420 U
METHYL ACETATE	NC	NC	1.0 UJ	340 U	160 UJ	14 J	250 U	220 U
METHYLCYCLOHEXANE	NC	NC	0.49 J	340 UJ	9.0 J	78 U	250 U	220 U
METHYLENE CHLORIDE	NC	NC	1.0 U	340 U	160 UJ	78 U	250 U	220 U
O-XYLENE	NC	NC	1.0 U	340 U	15 J	78 U	250 U	220 U
STYRENE	NC	NC	1.0 U	340 U	160 UJ	78 U	250 U	220 U
TOLUENE	49	235	0.098 J	16 J	160 UJ	78 U	250 U	220 U
TOTAL ORGANIC CARBON (%)	--	--	0.51	0.19	4.31	1.06	0.32	0.33

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD231	SD231	SD231	SD231	SD232	SD232
		Sample date	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011
		Sample identification code	06SD231NF-SC-B-1	06SD231NF-SC-C-1	06SD231NF-SC-C-2	06SD231NF-SC-D-1	06SD232NF-SC-B-1	06SD232NF-SC-C-1
		Depth interval	2 - 4 ft	4 - 6 ft	4 - 6 ft	6 - 7.4 ft	2 - 4 ft	4 - 4.6 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	2.1 U	1.2 U	240 U	58 U	30 U	100 U
1,2,4-TRICHLOROBENZENE	91	910	2.1 U	1.2 U	12 J	58 U	30 U	8.8 J
1,2-DICHLOROBENZENE	12	120	2.1 U	0.35 J	*20 J*	58 U	2.1 J	10 J
1,2-DICHLOROETHANE	NC	NC	2.1 U	1.2 U	240 U	58 U	30 U	100 U
1,3-DICHLOROBENZENE	12	120	2.1 U	0.17 J	240 U	58 U	30 U	*35 J*
1,4-DICHLOROBENZENE	12	120	2.1 U	0.58 J	*60 J*	*17 J*	30 U	*230*
2-BUTANONE (MEK)	NC	NC	2.1 U	1.8	240 U	58 U	30 U	100 U
2-HEXANONE	NC	NC	2.1 U	1.2 U	240 U	58 U	30 U	100 U
4-METHYL-2-PENTANONE (MIBK)	NC	NC	2.1 U	1.2 U	240 U	58 U	30 U	100 U
ACETONE	NC	NC	2.1 U	5.2	240 U	20 J	11 J	53 J
BENZENE	28	103	2.1 U	0.078 J	240 U	2.9 J	1.4 J	100 U
BROMOMETHANE	NC	NC	2.1 UJ	1.2 UJ	240 U	58 U	30 U	100 U
CARBON DISULFIDE	NC	NC	2.1 U	0.18 J	240 UJ	58 UJ	30 UJ	100 U
CHLOROBENZENE	3.5	34.6	2.1 U	*14 J*	*480 J*	*1200*	*82*	*1100*
CHLOROMETHANE	NC	NC	2.1 U	1.2 U	240 U	58 U	30 U	100 U
CYCLOHEXANE	NC	NC	2.1 U	1.2 U	240 U	58 U	30 U	100 U
ETHYLBENZENE	24	212	2.1 U	1.2 U	240 U	2.9 J	30 U	10 J
ISOPROPYLBENZENE	12	105	2.1 U	1.2 U	240 U	58 U	30 U	8.4 J
M,P-XYLENES	NC	NC	4.2 U	2.3 U	480 U	120 U	60 U	77 J
METHYL ACETATE	NC	NC	0.65 J	1.2 U	21 J	11 J	6.5 J	37 J
METHYLCYCLOHEXANE	NC	NC	2.1 U	0.20 J	240 U	5.4 J	4.5 J	23 J
METHYLENE CHLORIDE	NC	NC	2.1 U	1.2 U	240 U	58 U	30 U	100 U
O-XYLENE	NC	NC	2.1 U	0.16 J	240 U	3.3 J	1.9 J	26 J
STYRENE	NC	NC	2.1 U	1.2 U	240 U	58 U	30 U	100 U
TOLUENE	49	235	0.17 J	0.22 J	240 U	3 J	10 J	15 J
TOTAL ORGANIC CARBON (%)	--	--	0.306	0.6	0.31	2.24	4.01	0.43

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD233	SD233	SD236	SD237	SD237	SD238
		Sample date	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011
		Sample identification code	06SD233NF-SC-B-1	06SD233NF-SC-C-1	06SD236NF-SC-B-1	06SD237NF-SC-B-1	06SD237NF-SC-C-1	06SD238NF-SC-B-1
		Depth interval	2 - 4 ft	4 - 5.1 ft	2 - 3.8 ft	2 - 4 ft	4 - 5.3 ft	2 - 2.7 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	27 U	0.19 U	0.89 U	R	0.53 UJ	R
1,2,4-TRICHLOROBENZENE	91	910	27 U	0.19 U	0.89 U	R	0.53 UJ	R
1,2-DICHLOROBENZENE	12	120	3.2 J	0.19 U	0.89 U	R	0.53 UJ	R
1,2-DICHLOROETHANE	NC	NC	27 U	0.19 U	0.89 U	0.26 UJ	0.53 UJ	1.4 UJ
1,3-DICHLOROBENZENE	12	120	5.7 J	0.19 U	0.89 U	R	0.53 UJ	R
1,4-DICHLOROBENZENE	12	120	*23* J	0.19 U	0.89 U	R	0.53 UJ	R
2-BUTANONE (MEK)	NC	NC	27 U	0.91	0.97	0.92 J	0.72 J	1.4 UJ
2-HEXANONE	NC	NC	27 U	0.19 U	0.89 U	0.26 UJ	0.53 UJ	1.4 UJ
4-METHYL-2-PENTANONE (MIBK)	NC	NC	27 U	0.19 U	0.89 U	0.26 UJ	0.53 UJ	1.4 UJ
ACETONE	NC	NC	27 U	2.6	2.6 U	3.2 J	4.2 J	0.61 J
BENZENE	28	103	2 J	0.19 U	0.89 U	0.26 UJ	0.037 J	1.4 UJ
BROMOMETHANE	NC	NC	27 U	0.19 UJ	0.89 UJ	0.26 UJ	0.53 UJ	1.4 UJ
CARBON DISULFIDE	NC	NC	27 UJ	0.052 J	0.11 J	0.22 J	0.067 J	1.4 UJ
CHLOROBENZENE	3.5	34.6	*690*	0.099 J	0.89 U	1.5 J	0.15 J	1.4 UJ
CHLOROMETHANE	NC	NC	27 U	0.19 U	0.89 U	0.26 UJ	0.53 UJ	1.4 UJ
CYCLOHEXANE	NC	NC	27 U	0.050 J	0.89 U	0.26 UJ	0.53 UJ	1.4 UJ
ETHYLBENZENE	24	212	27 U	0.19 U	0.076 J	0.037 J	0.53 UJ	1.4 UJ
ISOPROPYLBENZENE	12	105	27 U	0.19 U	0.89 U	0.32 J	0.53 UJ	1.4 R
M,P-XYLENES	NC	NC	6.7 J	0.36 U	1.8 U	0.18 J	1.1 UJ	2.8 UJ
METHYL ACETATE	NC	NC	4.5 J	0.19 U	0.89 U	0.26 UJ	0.53 UJ	1.4 UJ
METHYLCYCLOHEXANE	NC	NC	3.7 J	0.25 J	0.89 U	3 J	0.39 J	1.4 UJ
METHYLENE CHLORIDE	NC	NC	27 U	0.19 U	0.89 U	0.26 UJ	0.53 UJ	1.4 UJ
O-XYLENE	NC	NC	3.5 J	0.19 U	0.89 U	0.20 J	0.53 UJ	1.4 UJ
STYRENE	NC	NC	27 U	0.19 U	0.89 U	0.26 UJ	0.53 UJ	1.4 UJ
TOLUENE	49	235	3.5 J	0.013 J	0.12 J	0.26 UJ	0.53 UJ	1.4 UJ
TOTAL ORGANIC CARBON (%)	--	--	4.03	3.62	1.02	3.79	1.37	0.28

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD239	SD239	SD239	SD239	SD241	SD241
		Sample date	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011
		Sample identification code	06SD239NF-SC-B-1	06SD239NF-SC-C-1	06SD239NF-SC-C-2	06SD239NF-SC-D-1	06SD241NF-SC-B-1	06SD241NF-SC-C-1
		Depth interval	2 - 4 ft	4 - 6 ft	4 - 6 ft	6 - 8 ft	2 - 4 ft	4 - 5.5 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	35 U	37 U	0.65 UJ	0.15 U	3.3 U	2.2 U
1,2,4-TRICHLOROBENZENE	91	910	35 U	37 U	0.65 UJ	0.15 U	3.3 U	2.2 U
1,2-DICHLOROBENZENE	12	120	1.5 J	*12 J*	2.0 J	0.15 U	3.3 U	2.2 U
1,2-DICHLOROETHANE	NC	NC	35 U	37 U	0.65 UJ	0.15 U	3.3 U	2.2 U
1,3-DICHLOROBENZENE	12	120	10 J	37 U	0.10 J	0.15 U	3.3 U	2.2 U
1,4-DICHLOROBENZENE	12	120	*40*	9.0 J	0.54 J	0.15 U	3.3 U	2.2 U
2-BUTANONE (MEK)	NC	NC	35 U	37 UJ	6.5 J	0.5	3.3 U	7.8
2-HEXANONE	NC	NC	35 U	37 U	0.65 UJ	0.15 U	3.3 U	2.2 U
4-METHYL-2-PENTANONE (MIBK)	NC	NC	35 U	37 U	0.65 UJ	0.15 U	3.3 U	2.2 U
ACETONE	NC	NC	35 U	11 J	25 J	2.1	3.3 U	30 J
BENZENE	28	103	4.4 J	37 U	0.17 J	0.15 U	3.3 U	0.30 J
BROMOMETHANE	NC	NC	35 U	37 U	0.65 UJ	0.15 U	3.3 U	2.2 U
CARBON DISULFIDE	NC	NC	35 U	37 U	0.30 J	0.039 J	3.3 U	0.57 J
CHLOROBENZENE	3.5	34.6	*650*	*100 J*	10 J	0.070 J	3.3 U	0.20 J
CHLOROMETHANE	NC	NC	35 U	37 U	0.65 UJ	0.15 U	3.3 U	2.2 U
CYCLOHEXANE	NC	NC	35 U	37 U	0.25 J	0.15 U	3.3 U	2.2 U
ETHYLBENZENE	24	212	35 U	37 U	0.65 UJ	0.15 U	3.3 U	0.46 J
ISOPROPYLBENZENE	12	105	3.7 J	37 U	1.0 J	0.016 J	3.3 U	1.5 J
M,P-XYLENES	NC	NC	72 U	8.2 J	0.42 J	0.30 U	6.7 U	4.3 U
METHYL ACETATE	NC	NC	7.2 J	7.3 J	0.65 UJ	0.15 U	3.3 U	2.2 U
METHYLCYCLOHEXANE	NC	NC	4.4 J	6.0 J	6.6 J	0.50 J	3.3 U	2.2 U
METHYLENE CHLORIDE	NC	NC	35 U	37 U	0.65 UJ	0.15 U	3.3 U	2.2 U
O-XYLENE	NC	NC	4.0 J	3.1 J	0.9 J	0.15 U	3.3 U	0.19 J
STYRENE	NC	NC	35 U	37 U	0.65 UJ	0.15 U	3.3 U	2.2 U
TOLUENE	49	235	35 U	37 U	0.65 UJ	0.15 U	3.3 U	2.2 U
TOTAL ORGANIC CARBON (%)	--	--	4.29	2.33	1.1	5.59	0.165	0.37

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD242	SD242	SD242	SD243	SD243	SD244
		Sample date	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/14/2011	11/11/2011
		Sample identification code	06SD242NF-SC-B-1	06SD242NF-SC-C-1	06SD242NF-SC-C-2	06SD243NF-SC-B-1	06SD243NF-SC-C-1	06SD244NF-SC-B-1
		Depth interval	2 - 4 ft	4 - 6 ft	4 - 5 ft	2 - 4 ft	4 - 5.3 ft	2 - 4 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	64 U	11 U	20 U	40 U	65 U	R
1,2,4-TRICHLOROBENZENE	91	910	64 U	0.79 J	1 J	40 U	3.1 J	R
1,2-DICHLOROBENZENE	12	120	64 U	0.58 J	0.97 J	40 U	3.8 J	R
1,2-DICHLOROETHANE	NC	NC	64 U	11 U	20 U	40 U	65 U	1.6 UJ
1,3-DICHLOROBENZENE	12	120	64 U	11 U	20 U	40 U	65 U	R
1,4-DICHLOROBENZENE	12	120	64 U	3.1 J	3.7 J	*20 J*	*43 J*	R
2-BUTANONE (MEK)	NC	NC	64 U	11 U	20 U	40 U	65 U	1.6 UJ
2-HEXANONE	NC	NC	64 U	11 U	20 U	40 U	65 U	1.6 UJ
4-METHYL-2-PENTANONE (MIBK)	NC	NC	64 U	11 U	20 U	40 U	65 U	1.6 UJ
ACETONE	NC	NC	64 U	11 U	20 U	40 U	65 U	1.6 UJ
BENZENE	28	103	64 U	11 U	20 U	40 U	65 U	1.6 UJ
BROMOMETHANE	NC	NC	64 U	11 U	20 U	40 U	65 U	1.6 UJ
CARBON DISULFIDE	NC	NC	64 U	11 U	20 U	40 U	65 U	1.6 UJ
CHLOROBENZENE	3.5	34.6	*150*	*10 J*	*90 J*	*160*	*210*	1.6 UJ
CHLOROMETHANE	NC	NC	64 U	11 U	20 U	40 U	65 U	1.6 UJ
CYCLOHEXANE	NC	NC	64 U	11 U	20 U	40 U	65 U	1.6 UJ
ETHYLBENZENE	24	212	64 U	1.1 J	1.4 J	40 U	65 U	1.6 UJ
ISOPROPYLBENZENE	12	105	64 U	11 U	20 U	40 U	65 U	R
M,P-XYLENES	NC	NC	130 U	22 U	9.3 J	82 U	130 U	3.2 UJ
METHYL ACETATE	NC	NC	12 J	11 U	1.7 J	40 U	6.6 J	1.6 UJ
METHYLCYCLOHEXANE	NC	NC	64 U	11 U	20 U	40 U	65 U	1.6 UJ
METHYLENE CHLORIDE	NC	NC	64 U	11 U	20 U	40 U	65 U	1.6 UJ
O-XYLENE	NC	NC	64 U	0.73 J	1.4 J	1.7 J	3.3 J	1.6 UJ
STYRENE	NC	NC	64 U	11 U	20 U	40 U	65 U	1.6 UJ
TOLUENE	49	235	64 U	11 U	20 U	40 U	65 U	1.6 UJ
TOTAL ORGANIC CARBON (%)	--	--	1.29	7.43	4.63	2.19	1.2	0.34

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD244	SD244	SD245	SD245	SD247	SD247
		Sample date	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011
		Sample identification code	06SD244NF-SC-B-2	06SD244NF-SC-C-1	06SD245NF-SC-B-1	06SD245NF-SC-C-1	06SD247NF-SC-B-1	06SD247NF-SC-B-2
		Depth interval	2 - 4 ft	4 - 5.8 ft	2 - 4 ft	4 - 5.6 ft	2 - 4 ft	2 - 4 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	R	1.6 UJ	44 U	R	1.5 U	1.2 U
1,2,4-TRICHLOROBENZENE	91	910	R	0.73 J	44 U	0.27 J	1.5 U	1.2 U
1,2-DICHLOROBENZENE	12	120	R	R	44 U	0.25 J	1.5 U	1.2 U
1,2-DICHLOROETHANE	NC	NC	2.6 UJ	1.6 UJ	44 U	0.37 UJ	1.5 U	1.2 U
1,3-DICHLOROBENZENE	12	120	R	0.21 J	44 U	R	1.5 U	1.2 U
1,4-DICHLOROBENZENE	12	120	R	0.31 J	11 J	R	1.5 U	1.2 U
2-BUTANONE (MEK)	NC	NC	2.6 UJ	1.6 UJ	44 U	0.81 J	1.5 U	1.2 U
2-HEXANONE	NC	NC	2.6 UJ	1.6 UJ	44 U	R	1.5 U	1.2 U
4-METHYL-2-PENTANONE (MIBK)	NC	NC	2.6 UJ	1.6 UJ	44 U	R	1.5 U	1.2 U
ACETONE	NC	NC	4.8 UJ	1.6 UJ	13 J	5.7 J	1.5 U	1.2 U
BENZENE	28	103	2.6 UJ	1.6 UJ	5.1 J	0.060 J	1.5 U	1.2 U
BROMOMETHANE	NC	NC	2.6 UJ	1.6 UJ	44 U	0.37 UJ	1.5 UJ	1.2 UJ
CARBON DISULFIDE	NC	NC	2.6 UJ	1.6 UJ	44 U	0.29 J	1.5 U	1.2 U
CHLOROBENZENE	3.5	34.6	2.6 UJ	1.6 UJ	*210*	1.6 J	1.5 U	1.2 U
CHLOROMETHANE	NC	NC	2.6 UJ	0.15 J	44 U	0.37 UJ	1.5 U	1.2 U
CYCLOHEXANE	NC	NC	2.6 UJ	1.6 UJ	44 U	0.37 UJ	1.5 U	1.2 U
ETHYLBENZENE	24	212	2.6 UJ	1.6 UJ	44 U	R	1.5 U	1.2 U
ISOPROPYLBENZENE	12	105	R	R	44 U	R	1.5 U	1.2 U
M,P-XYLENES	NC	NC	5.2 UJ	3.2 UJ	85 U	R	3 U	2.3 U
METHYL ACETATE	NC	NC	2.6 UJ	1.6 UJ	11 J	0.37 UJ	1.5 U	1.2 U
METHYLCYCLOHEXANE	NC	NC	2.6 UJ	1.6 UJ	44 U	0.24 J	1.5 U	1.2 U
METHYLENE CHLORIDE	NC	NC	2.6 UJ	1.6 UJ	44 U	0.37 UJ	1.5 U	1.2 U
O-XYLENE	NC	NC	2.6 UJ	1.6 UJ	2.5 J	0.037 J	1.5 U	1.2 U
STYRENE	NC	NC	2.6 UJ	1.6 UJ	44 U	R	1.5 U	1.2 U
TOLUENE	49	235	2.6 UJ	1.6 UJ	44 U	0.040 J	1.5 U	1.2 U
TOTAL ORGANIC CARBON (%)	--	--	0.25	0.3	2.93	1.61	0.353	0.485

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD247	SD248	SD248	SD249	SD249	SD249
		Sample date	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011
		Sample identification code	06SD247NF-SC-C-1	06SD248NF-SC-B-1	06SD248NF-SC-C-1	06SD249-NF-SC-B-1	06SD249NF-SC-C-1	06SD249NF-SC-D-1
		Depth interval	4 - 4.5 ft	2 - 4 ft	4 - 4.6 ft	2 - 4 ft	4 - 6 ft	6 - 6.4 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	110 U	1.9 UJ	39 U	49 U	30 U	0.29 U
1,2,4-TRICHLOROBENZENE	91	910	110 U	1.9 UJ	39 U	49 U	30 U	0.29 U
1,2-DICHLOROBENZENE	12	120	110 U	1.9 UJ	5.5 J	4 J	2.2 J	0.29 U
1,2-DICHLOROETHANE	NC	NC	110 U	1.9 UJ	39 U	49 U	30 U	0.29 U
1,3-DICHLOROBENZENE	12	120	110 U	1.9 UJ	39 U	*14 J*	5.5 J	0.29 U
1,4-DICHLOROBENZENE	12	120	110 U	1.9 UJ	*14 J*	*36 J*	*20 J*	0.29 U
2-BUTANONE (MEK)	NC	NC	110 U	1.9 UJ	39 U	49 U	30 U	0.25 J
2-HEXANONE	NC	NC	110 U	1.9 UJ	39 U	49 U	30 U	0.29 U
4-METHYL-2-PENTANONE (MIBK)	NC	NC	110 U	1.9 UJ	39 U	49 U	30 U	0.29 U
ACETONE	NC	NC	110 U	3.9 UJ	39 U	26 J	15 J	1.5
BENZENE	28	103	110 U	1.9 UJ	3 J	*58*	30 U	0.29 U
BROMOMETHANE	NC	NC	110 U	1.9 UJ	39 U	49 U	30 U	0.29 UJ
CARBON DISULFIDE	NC	NC	110 U	0.18 J	39 U	49 U	30 U	0.028 J
CHLOROBENZENE	3.5	34.6	110 U	1.9 UJ	*300*	*2100*	*130*	0.29 U
CHLOROMETHANE	NC	NC	110 U	1.9 UJ	39 U	49 U	30 U	0.29 U
CYCLOHEXANE	NC	NC	110 U	1.9 UJ	39 U	49 U	30 U	0.29 U
ETHYLBENZENE	24	212	110 U	1.9 UJ	39 U	4.3 J	30 U	0.29 U
ISOPROPYLBENZENE	12	105	110 U	1.9 UJ	39 U	49 U	30 U	0.29 U
M,P-XYLENES	NC	NC	230 U	3.9 UJ	80 U	9.8 J	60 U	0.59 U
METHYL ACETATE	NC	NC	16 J	1.9 UJ	8 J	17 J	8.5 J	0.29 U
METHYLCYCLOHEXANE	NC	NC	110 U	1.9 UJ	39 U	3.1 J	3.4 J	0.045 J
METHYLENE CHLORIDE	NC	NC	110 U	1.9 UJ	39 U	49 U	30 U	0.29 U
O-XYLENE	NC	NC	110 U	1.9 UJ	39 U	8.0 J	3.7 J	0.29 U
STYRENE	NC	NC	110 U	1.9 UJ	39 U	49 U	30 U	0.29 U
TOLUENE	49	235	*200*	1.9 UJ	39 U	4.3 J	5.8 J	0.021 J
TOTAL ORGANIC CARBON (%)	--	--	0.74	0.28	2.38	2.24	3.28	2.87

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD250	SD250	SD250	SD251	SD254	SD254
		Sample date	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011
		Sample identification code	06SD250NF-SC-B-1	06SD250NF-SC-C-1	06SD250NF-SC-D-1	06SD251NF-SC-B-1	06SD254NF-SC-B-1	06SD254NF-SC-C-1
		Depth interval	2 - 4 ft	4 - 6 ft	6 - 7.3 ft	2 - 3 ft	2 - 4 ft	4 - 6 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	35 U	61 U	R	0.81 J	66 U	0.53 U
1,2,4-TRICHLOROBENZENE	91	910	35 U	7.6 J	R	1.6 J	66 U	0.53 U
1,2-DICHLOROBENZENE	12	120	7.7 J	6.1 J	0.31 J	1.4 J	3.8 J	0.094 J
1,2-DICHLOROETHANE	NC	NC	35 U	61 U	2.1 UJ	R	66 U	0.53 U
1,3-DICHLOROBENZENE	12	120	*12 J*	*32 J*	R	R	*12 J*	0.53 U
1,4-DICHLOROBENZENE	12	120	*67*	*200*	R	R	*46 J*	0.53 U
2-BUTANONE (MEK)	NC	NC	35 U	61 U	2.1 UJ	6.6 J	66 U	0.27 J
2-HEXANONE	NC	NC	35 U	61 U	2.1 UJ	R	66 U	0.53 U
4-METHYL-2-PENTANONE (MIBK)	NC	NC	35 U	61 U	2.1 UJ	R	66 U	0.53 U
ACETONE	NC	NC	14 J	61 U	2.1 UJ	28 J	66 U	0.62 U
BENZENE	28	103	4.0 J	2.7 J	2.1 UJ	0.21 J	*41 J*	0.62 J
BROMOMETHANE	NC	NC	35 U	61 U	2.1 UJ	R	66 U	0.53 UJ
CARBON DISULFIDE	NC	NC	35 U	61 U	2.1 UJ	2.3 J	66 U	0.087 J
CHLOROBENZENE	3.5	34.6	*510*	*920*	2.1 UJ	R	*2000*	*5.7 J*
CHLOROMETHANE	NC	NC	35 U	61 U	2.1 UJ	R	66 U	0.53 U
CYCLOHEXANE	NC	NC	35 U	61 U	2.1 UJ	R	66 U	0.53 U
ETHYLBENZENE	24	212	2.5 J	61 U	2.1 UJ	R	66 U	0.53 U
ISOPROPYLBENZENE	12	105	1.5 J	4.1 J	2.1 UJ	R	66 U	0.53 U
M,P-XYLENES	NC	NC	15 J	18 J	4.2 UJ	R	130 U	1.1 U
METHYL ACETATE	NC	NC	9.6 J	8 J	2.1 UJ	R	7.9 J	0.53 U
METHYLCYCLOHEXANE	NC	NC	2.9 J	61 U	2.1 UJ	R	3 J	0.17 J
METHYLENE CHLORIDE	NC	NC	35 U	61 U	2.1 UJ	R	66 U	0.53 U
O-XYLENE	NC	NC	8 J	20 J	2.1 UJ	R	4.9 J	0.071 J
STYRENE	NC	NC	35 U	61 U	2.1 UJ	R	66 U	0.53 U
TOLUENE	49	235	12 J	11 J	2.1 UJ	0.15 J	66 U	0.53 U
TOTAL ORGANIC CARBON (%)	--	--	3.75	1.19	0.26	0.32	3.66	1.38

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD254	SD255	SD255	SD255	SD256	SD256
		Sample date	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/10/2011	11/10/2011
		Sample identification code	06SD254NF-SC-C-2	06SD255NF-SC-B-1	06SD255NF-SC-C-1	06SD255NF-SC-D-1	06SD256NF-SC-B-1	06SD256NF-SC-C-1
		Depth interval	4 - 6 ft	2 - 4 ft	4 - 6 ft	6 - 7.2 ft	2 - 4 ft	4 - 6 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	110 U	64 U	37 U	0.19 UJ	47 U	36 U
1,2,4-TRICHLOROBENZENE	91	910	110 U	64 U	37 U	0.19 UJ	2.3 J	6.2 J
1,2-DICHLOROBENZENE	12	120	110 U	4.7 J	3 J	0.19 UJ	3.0 J	5.4 J
1,2-DICHLOROETHANE	NC	NC	110 U	64 U	37 U	0.19 UJ	47 U	36 U
1,3-DICHLOROBENZENE	12	120	110 U	10 J	*17 J*	0.19 UJ	12 J	*49*
1,4-DICHLOROBENZENE	12	120	110 U	*40 J*	*74*	0.19 UJ	*16 J*	*44*
2-BUTANONE (MEK)	NC	NC	110 U	64 U	37 U	2 J	47 U	36 U
2-HEXANONE	NC	NC	110 U	64 U	37 U	0.19 UJ	47 U	36 U
4-METHYL-2-PENTANONE (MIBK)	NC	NC	110 U	64 U	37 U	0.46 J	47 U	36 U
ACETONE	NC	NC	110 U	64 U	37 U	6.1 J	47 U	11 J
BENZENE	28	103	8.4 J	3.2 J	1.8 J	0.19 UJ	47 U	13 J
BROMOMETHANE	NC	NC	110 U	64 U	37 U	0.19 UJ	47 U	36 U
CARBON DISULFIDE	NC	NC	110 U	64 U	37 U	0.066 J	47 U	36 U
CHLOROBENZENE	3.5	34.6	*220 J*	*470*	*320*	0.55 J	*140*	*410*
CHLOROMETHANE	NC	NC	110 U	64 U	37 U	0.19 UJ	47 U	36 U
CYCLOHEXANE	NC	NC	110 U	64 U	37 U	0.17 J	47 U	36 U
ETHYLBENZENE	24	212	110 U	64 U	37 U	0.19 UJ	47 U	14 J
ISOPROPYLBENZENE	12	105	110 U	64 U	4.6 J	0.089 J	47 U	36 U
M,P-XYLENES	NC	NC	220 U	14 J	9.5 J	0.4 UJ	97 U	80
METHYL ACETATE	NC	NC	25 J	11 J	12 J	0.038 J	10 J	7.4 J
METHYLCYCLOHEXANE	NC	NC	110 U	5.1 J	8.3 J	1.5 J	47 U	5.4 J
METHYLENE CHLORIDE	NC	NC	110 U	64 U	37 U	0.19 UJ	47 U	36 U
O-XYLENE	NC	NC	110 U	6.0 J	13 J	0.18 J	3.6 J	14 J
STYRENE	NC	NC	110 U	64 U	37 U	0.19 UJ	47 U	36 U
TOLUENE	49	235	110 U	64 U	37 U	0.19 UJ	47 U	36 U
TOTAL ORGANIC CARBON (%)	--	--	0.63	2.35	3.49	5.27	3.62	3.9

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD256	SD256	SD258	SD258	SD258	SD259
		Sample date	11/10/2011	11/10/2011	11/9/2011	11/9/2011	11/9/2011	11/9/2011
		Sample identification code	06SD256NF-SC-D-1	06SD256NF-SC-D-2	06SD258NF-SC-B-1	06SD258NF-SC-C-1	06SD258NF-SC-D-1	06SD259NF-SC-B-1
		Depth interval	6 - 6.8 ft	6 - 6.8 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	2 - 4 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	38 U	45 U	0.54 UJ	0.15 UJ	R	0.50 UJ
1,2,4-TRICHLOROBENZENE	91	910	38 U	2.3 J	0.54 UJ	0.15 UJ	R	0.50 UJ
1,2-DICHLOROBENZENE	12	120	5.1 J	6.3 J	0.61 J	0.15 UJ	R	0.50 UJ
1,2-DICHLOROETHANE	NC	NC	38 U	45 U	0.54 UJ	0.15 U	1.7 UJ	0.50 UJ
1,3-DICHLOROBENZENE	12	120	*26 J*	*32 J*	1.3 J	0.15 UJ	R	0.50 UJ
1,4-DICHLOROBENZENE	12	120	*13 J*	*18 J*	3.6 J	0.15 UJ	0.39 J	0.50 UJ
2-BUTANONE (MEK)	NC	NC	38 U	45 U	4.5 J	0.94	0.83 J	4.9 J
2-HEXANONE	NC	NC	38 U	45 U	0.54 UJ	0.15 U	R	0.50 UJ
4-METHYL-2-PENTANONE (MIBK)	NC	NC	38 U	45 U	0.54 UJ	0.15 U	R	0.50 UJ
ACETONE	NC	NC	12 J	45 U	10 J	2.6	7.5 J	13 J
BENZENE	28	103	6.2 J	6.3 J	0.12 J	0.15 U	0.10 J	0.027 J
BROMOMETHANE	NC	NC	38 U	45 U	0.54 UJ	0.15 U	1.7 UJ	0.50 UJ
CARBON DISULFIDE	NC	NC	38 U	45 U	0.55 J	0.052 J	0.53 J	0.16 J
CHLOROBENZENE	3.5	34.6	*140*	*180*	*14 J*	0.022 J	R	3.4 J
CHLOROMETHANE	NC	NC	38 U	45 U	0.54 UJ	0.15 U	1.7 UJ	0.50 UJ
CYCLOHEXANE	NC	NC	38 U	45 U	0.31 J	0.096 J	1.7 UJ	0.11 J
ETHYLBENZENE	24	212	5.9 J	10 J	0.061 J	0.015 J	R	0.50 UJ
ISOPROPYLBENZENE	12	105	38 U	45 U	0.54 J	0.15 U	R	0.036 J
M,P-XYLENES	NC	NC	40 J	63 J	0.55 J	0.30 U	R	0.99 UJ
METHYL ACETATE	NC	NC	10 J	8.7 J	0.54 UJ	0.15 U	1.7 UJ	0.066 J
METHYLCYCLOHEXANE	NC	NC	3.8 J	3.7 J	2.1 J	0.83	1.7 UJ	0.23 J
METHYLENE CHLORIDE	NC	NC	38 U	45 U	0.54 UJ	0.15 U	1.7 UJ	0.50 UJ
O-XYLENE	NC	NC	10 J	12 J	2 J	0.15 U	R	0.19 J
STYRENE	NC	NC	38 U	45 U	0.54 UJ	0.15 U	R	0.50 UJ
TOLUENE	49	235	38 U	45 U	0.54 UJ	0.15 U	R	0.50 UJ
TOTAL ORGANIC CARBON (%)	--	--	3.72	3.8	1.81	5.42	0.36	1.82

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD259	SD267	SD267	SD267	SD268	SD268
		Sample date	11/9/2011	11/10/2011	11/10/2011	11/10/2011	11/10/2011	11/10/2011
		Sample identification code	06SD259NF-SC-C-1	06SD267NF-SC-B-1	06SD267NF-SC-C-1	06SD267NF-SC-D-1	06SD268NF-SC-B-1	06SD268NF-SC-B-2
		Depth interval	4 - 6 ft	2 - 4 ft	4 - 6 ft	6 - 7.9 ft	2 - 4 ft	2 - 4 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria						
1,2,3-TRICHLOROBENZENE	NC	NC	43 U	81 U	52 U	110 U	0.39 UJ	0.34 U
1,2,4-TRICHLOROBENZENE	91	910	43 U	81 U	4.7 J	23 J	0.39 UJ	0.34 U
1,2-DICHLOROBENZENE	12	120	3.0 J	4.3 J	3.5 J	5.0 J	0.14 J	0.34 U
1,2-DICHLOROETHANE	NC	NC	43 U	81 U	52 U	110 U	0.39 U	0.34 U
1,3-DICHLOROBENZENE	12	120	12 J	*25 J*	52 U	*21 J*	0.17 J	0.049 J
1,4-DICHLOROBENZENE	12	120	10 J	*24 J*	*30 J*	*170*	0.23 J	0.052 J
2-BUTANONE (MEK)	NC	NC	43 U	81 U	52 U	110 U	2.5	1.8
2-HEXANONE	NC	NC	43 U	81 U	52 U	66 J	0.39 U	0.34 U
4-METHYL-2-PENTANONE (MIBK)	NC	NC	43 U	81 U	52 U	110 U	0.39 U	0.34 U
ACETONE	NC	NC	43 U	81 U	15 J	25 J	7.0	5.2
BENZENE	28	103	43 U	81 U	6 J	11 J	0.026 J	0.34 U
BROMOMETHANE	NC	NC	43 U	81 U	52 U	110 U	48 U	0.34 UJ
CARBON DISULFIDE	NC	NC	43 U	81 U	52 U	110 U	0.39 U	0.34 U
CHLOROBENZENE	3.5	34.6	*180*	*210*	*170*	*670*	*36 J*	1.1 J
CHLOROMETHANE	NC	NC	43 U	81 U	52 U	110 U	0.39 U	0.34 U
CYCLOHEXANE	NC	NC	43 U	81 U	52 U	110 U	0.065 J	0.34 U
ETHYLBENZENE	24	212	43 U	81 U	52 U	110 U	0.39 U	0.34 U
ISOPROPYLBENZENE	12	105	43 U	81 U	*15 J*	9.6 J	0.091 J	0.065 J
M,P-XYLENES	NC	NC	90 U	170 U	20 J	23 J	0.091 J	0.68 U
METHYL ACETATE	NC	NC	8.0 J	17 J	13 J	23 J	10 J	0.15 J
METHYLCYCLOHEXANE	NC	NC	3.3 J	81 U	9.0 J	22 J	0.11 J	0.34 U
METHYLENE CHLORIDE	NC	NC	43 U	81 U	52 U	110 U	0.39 U	0.34 U
O-XYLENE	NC	NC	4.7 J	6 J	25 J	23 J	0.33 J	0.056 J
STYRENE	NC	NC	43 U	81 U	52 U	110 U	0.39 U	0.34 U
TOLUENE	49	235	43 U	81 U	52 U	110 U	48 U	0.34 U
TOTAL ORGANIC CARBON (%)	--	--	2.99	1.73	3.43	1.15	2.3	3.24

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-4
NYSDEC Screening of Organic Carbon-Normalized VOCs in Sub-surficial Sediment
Northern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD268	SD268
		Sample date	11/10/2011	11/10/2011
		Sample identification code	06SD268NF-SC-C-1	06SD268NF-SC-D-1
		Depth interval	4 - 6 ft	6 - 7.8 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria		
1,2,3-TRICHLOROBENZENE	NC	NC	34 U	20 U
1,2,4-TRICHLOROBENZENE	91	910	34 U	1.4 J
1,2-DICHLOROBENZENE	12	120	4.9 J	1.5 J
1,2-DICHLOROETHANE	NC	NC	34 U	20 U
1,3-DICHLOROBENZENE	12	120	*30 J*	7.7 J
1,4-DICHLOROBENZENE	12	120	*110*	*26*
2-BUTANONE (MEK)	NC	NC	34 U	20 U
2-HEXANONE	NC	NC	34 U	20 U
4-METHYL-2-PENTANONE (MIBK)	NC	NC	34 U	20 U
ACETONE	NC	NC	13 J	6.5 J
BENZENE	28	103	20 J	10 J
BROMOMETHANE	NC	NC	34 U	20 U
CARBON DISULFIDE	NC	NC	34 U	20 U
CHLOROBENZENE	3.5	34.6	*520*	*190*
CHLOROMETHANE	NC	NC	34 U	20 U
CYCLOHEXANE	NC	NC	34 U	20 U
ETHYLBENZENE	24	212	4.9 J	20 U
ISOPROPYLBENZENE	12	105	2.6 J	1.1 J
M,P-XYLENES	NC	NC	13 J	3.5 J
METHYL ACETATE	NC	NC	7.3 J	4.2 J
METHYLCYCLOHEXANE	NC	NC	3.4 J	1.8 J
METHYLENE CHLORIDE	NC	NC	34 U	20 U
O-XYLENE	NC	NC	18 J	5.1 J
STYRENE	NC	NC	34 U	20 U
TOLUENE	49	235	34 U	20 U
TOTAL ORGANIC CARBON (%)	--	--	3.27	4.3

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life
Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life
Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-5
Summary of PCBs in Surficial Sediment
Southern FS Study Area
BASF Corporation
Rensselaer, New York

	Location code	SD252	SD253	SD261	SD261	SD262	SD264	SD265	SD275	SD276	SD277
	Date	11/8/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011
	Sample code	06SD252SF-SC-A-1	06SD253SF-SC-A-1	06SD261SF-SC-A-1	06SD261SF-SC-A-2	06SD262SF-SC-A-1	06SD264SF-SC-A-1	06SD265SF-SC-A-1	06SD275SF-SC-A-1	06SD276SF-SC-A-1	06SD277SF-SC-A-1
	Depth interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte (ug/kg)	Criteria										
PCB-1016	50,000	42 U	51 U	39 U	40 U	43 U	67 UJ	460 U	44 U	44 U	420 U
PCB-1221	50,000	86 U	100 U	78 U	81 U	88 U	140 UJ	930 U	89 U	90 U	860 U
PCB-1232	50,000	42 U	51 U	39 U	40 U	43 U	67 UJ	460 U	44 U	44 U	420 U
PCB-1242	50,000	75 J	77 J	87 J	100 J	110	67 UJ	1000	41 J	140 J	2000 J
PCB-1248	50,000	42 U	51 U	39 U	40 U	43 U	67 UJ	460 U	44 U	44 U	420 U
PCB-1254	50,000	42 U	51 U	39 U	40 U	43 U	67 UJ	460 U	44 U	44 U	420 U
PCB-1260	50,000	29 J	51 U	39 U	40 U	43 U	67 UJ	460 U	44 U	44 U	420 U
Total PCBs Aroclor	50,000	100	77	87	100	110	140 U	1000	41	140	2000

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit

ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-5
Summary of PCBs in Surficial Sediment
Southern FS Study Area
BASF Corporation
Rensselaer, New York

	Location code	SD277	SD278	SD283	SD284	SD285	SD286	SD289	SD290	SD291
	Date	11/8/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011
	Sample code	06SD277SF-SC-A-2	06SD278SF-SC-A-1	06SD283SF-SC-A-1	06SD284SF-SC-A-1	06SD285SF-SC-A-1	06SD286SF-SC-A-1	06SD289SF-SC-A-1	06SD290SF-SC-A-1	06SD291SF-SC-A-1
	Depth interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte (ug/kg)	Criteria									
PCB-1016	50,000	950 U	520 U	440 U	6000 U	460 U	630 U	6100 U	460 U	69 UJ
PCB-1221	50,000	1900 U	1000 U	900 U	12000 U	940 U	1300 U	12000 U	930 U	140 UJ
PCB-1232	50,000	950 U	520 U	440 U	6000 U	460 U	630 U	6100 U	460 U	69 UJ
PCB-1242	50,000	6500 J	1500	1300	38000	1100	860	46000 J	760	180 J
PCB-1248	50,000	950 U	520 U	440 U	6000 U	460 U	630 U	6100 U	460 U	69 UJ
PCB-1254	50,000	950 U	520 U	440 U	6000 U	460 U	630 U	5300 J	460 U	69 UJ
PCB-1260	50,000	950 U	520 U	440 U	6000 U	460 U	630 U	6100 U	460 U	69 UJ
Total PCBs Aroclor	50,000	6500	1500	1300	38000	1100	860	51000	760	180

Notes:
J - Estimated value
PCB - polychlorinated biphenyl
U - Non-detect at laboratory detection limit

ug/kg - micrograms per kilogram
Bold and yellow highlighted values exceed 50,000 ug/kg.
A "2" at the end of the sample identification code indicates field duplicate samples.

Total PCBs Aroclor represents the sum of detected inidividual aroclors.

Table 4-6
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Southern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD252	SD253	SD261	SD261	SD262	SD264	SD265
		Date	11/8/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011
		Sample Identification Code	06SD252SF-SC-A-1	06SD253SF-SC-A-1	06SD261SF-SC-A-1	06SD261SF-SC-A-2	06SD262SF-SC-A-1	06SD264SF-SC-A-1	06SD265SF-SC-A-1
		Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria							
1,2-DICHLOROBENZENE	12	120	2.8 U	0.23 U	5.8 U	9.7 U	6.0 U	0.13 UJ	1.3 UJ
2-BUTANONE (MEK)	NC	NC	2.8 U	0.23 U	5.8 U	9.7 U	6.0 U	0.53 J	1.3 U
ACETONE	NC	NC	2.8 U	0.23 U	5.8 U	9.7 U	6.0 U	1.8 J	1.3 U
CARBON DISULFIDE	NC	NC	2.8 U	0.23 U	5.8 U	9.7 U	6.0 U	0.065 J	1.3 U
CHLOROBENZENE	3.5	34.6	2.8 U	0.23 U	5.8 U	9.7 U	6.0 U	0.13 UJ	0.14 J
CYCLOHEXANE	NC	NC	2.8 U	0.23 U	5.8 U	9.7 U	6.0 U	0.026 J	1.3 U
METHYLCYCLOHEXANE	NC	NC	2.8 U	0.23 U	5.8 U	9.7 U	6.0 U	0.13 J	1.3 U
TOLUENE	49	235	2.8 U	0.23 U	5.8 U	9.7 U	6.0 U	0.026 J	1.3 U
TOTAL ORGANIC CARBON (%)	--	--	0.332	2.86	0.091	0.069	0.112	9.82	0.607

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-6
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Southern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD275	SD276	SD278	SD283	SD284	SD285	SD286
		Date	11/8/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011
		Sample Identification Code	06SD275SF-SC-A-1	06SD276SF-SC-A-1	06SD278SF-SC-A-1	06SD283SF-SC-A-1	06SD284SF-SC-A-1	06SD285SF-SC-A-1	06SD286SF-SC-A-1
		Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria							
1,2-DICHLOROBENZENE	12	120	3.4 U	3.0 U	0.40 J	0.19 U	0.33 U	1.8 U	0.73 U
2-BUTANONE (MEK)	NC	NC	3.4 U	3.0 U	1.3 U	0.19 U	0.33 U	1.8 U	0.73 U
ACETONE	NC	NC	3.4 U	3.0 U	1.3 U	0.19 U	0.33 U	1.8 U	0.73 U
CARBON DISULFIDE	NC	NC	3.4 U	3.0 U	1.3 U	0.19 U	0.33 U	1.8 U	0.12 J
CHLOROBENZENE	3.5	34.6	3.4 U	3.0 U	2.5	0.19 U	0.33 U	0.38 J	0.20 J
CYCLOHEXANE	NC	NC	3.4 U	3.0 U	1.3 U	0.19 U	0.33 U	1.8 U	0.73 UJ
METHYLCYCLOHEXANE	NC	NC	3.4 U	3.0 U	1.3 U	0.19 U	0.33 U	1.8 U	0.73 UJ
TOLUENE	49	235	3.4 U	3.0 U	1.3 U	0.19 U	0.33 U	1.8 U	0.73 UJ
TOTAL ORGANIC CARBON (%)	--	--	0.223	0.217	0.6	3.64	2.46	0.4	1.78

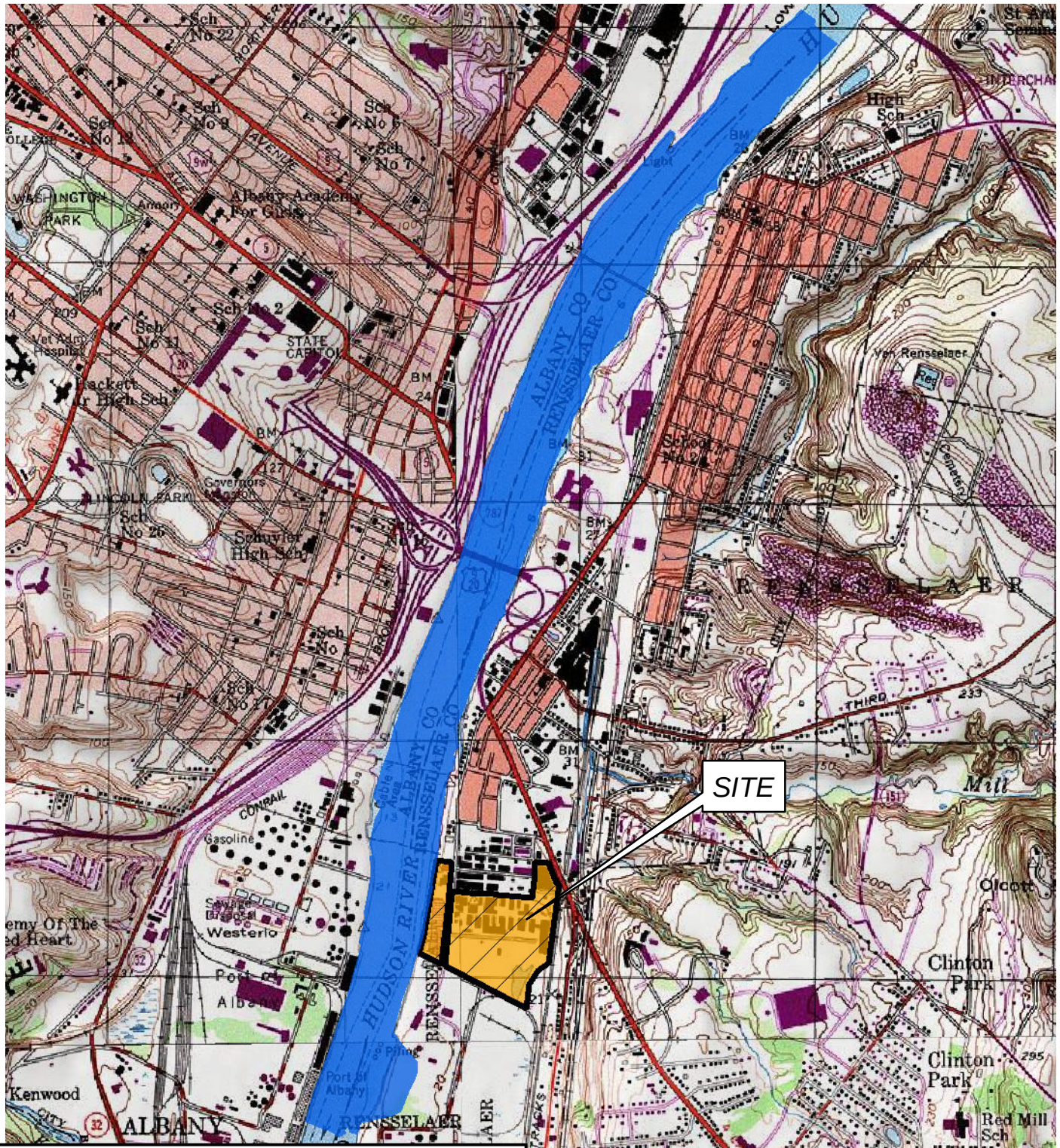
Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Table 4-6
NYSDEC Screening of Organic Carbon-Normalized VOCs in Surficial Sediment
Southern FS Study Area
BASF Corporation
Rensselaer, New York

		Location	SD289	SD290	SD291
		Date	11/8/2011	11/8/2011	11/8/2011
		Sample Identification Code	06SD289SF-SC-A-1	06SD290SF-SC-A-1	06SD291SF-SC-A-1
		Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte (mg/kg oc)	Benthic Aquatic Life Chronic Toxicity Sediment Criteria	Benthic Aquatic Life Acute Toxicity Sediment Criteria			
1,2-DICHLOROBENZENE	12	120	0.3 U	0.39 J	0.66 UJ
2-BUTANONE (MEK)	NC	NC	0.3 U	1.5 U	0.56 J
ACETONE	NC	NC	0.3 U	1.5 U	1.7 UJ
CARBON DISULFIDE	NC	NC	0.3 U	1.5 U	0.075 J
CHLOROBENZENE	3.5	34.6	0.3 U	0.66 J	0.052 J
CYCLOHEXANE	NC	NC	0.3 U	1.5 U	0.66 UJ
METHYLCYCLOHEXANE	NC	NC	0.3 U	1.5 U	0.66 UJ
TOLUENE	49	235	0.3 U	1.5 U	0.66 UJ
TOTAL ORGANIC CARBON (%)	--	--	3.31	0.44	2.13

Criteria Source:
NYSDEC 1999. Technical Guidance for Screening Contaminated Sediments
Notes:
J = Estimated Value
R = Rejected Value
U = Non-detect at laboratory detection limit
NC = No NYSDEC Criteria
Only compounds which were detected in at least one sample are shown.
Blank spaces indicate not analyzed.
A "-2" at the end of the sample identification code indicates a field duplicate sample.
Bold values indicate exceedance of Benthic Aquatic Life Chronic Toxicity Sediment Criteria
Yellow highlighted values indicate exceedance of Benthic Aquatic Life Acute Toxicity Sediment Criteria
Non-detects with detection limits equal to or greater than any standard are not colored.

Figures



Site Locus

OU-2 Feasibility Study Investigation
BASF Corporation
Rensselaer, New York

SCALE	DATE	PROJECT NO.
1:24000	07/10	60135950

AECOM

Figure Number

1

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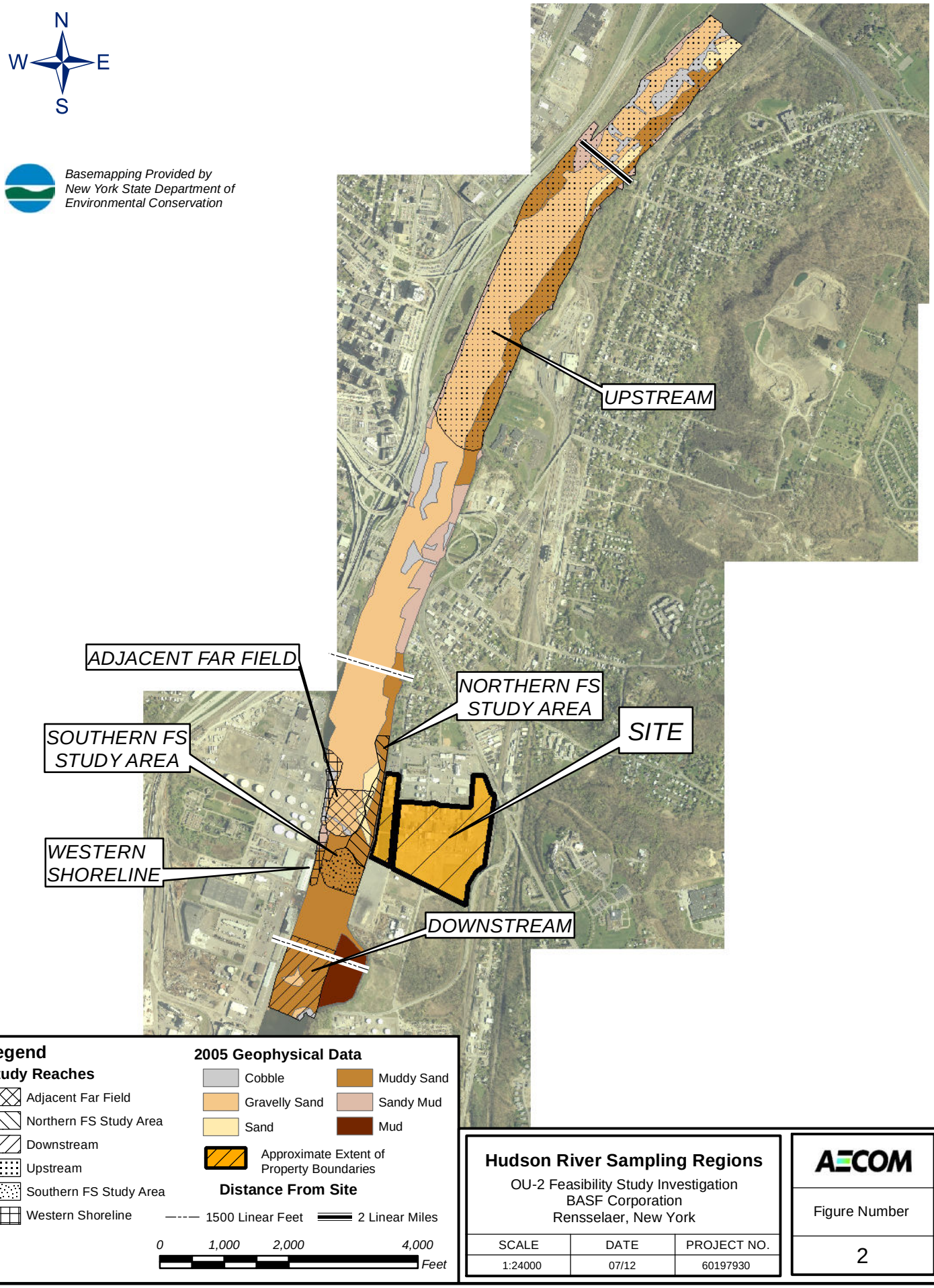

Hudson River Sampling Regions

OU-2 Feasibility Study Investigation
BASF Corporation
Rensselaer, New York

SCALE	DATE	PROJECT NO.
1:24000	07/12	60197930

AECOM

Figure Number

2

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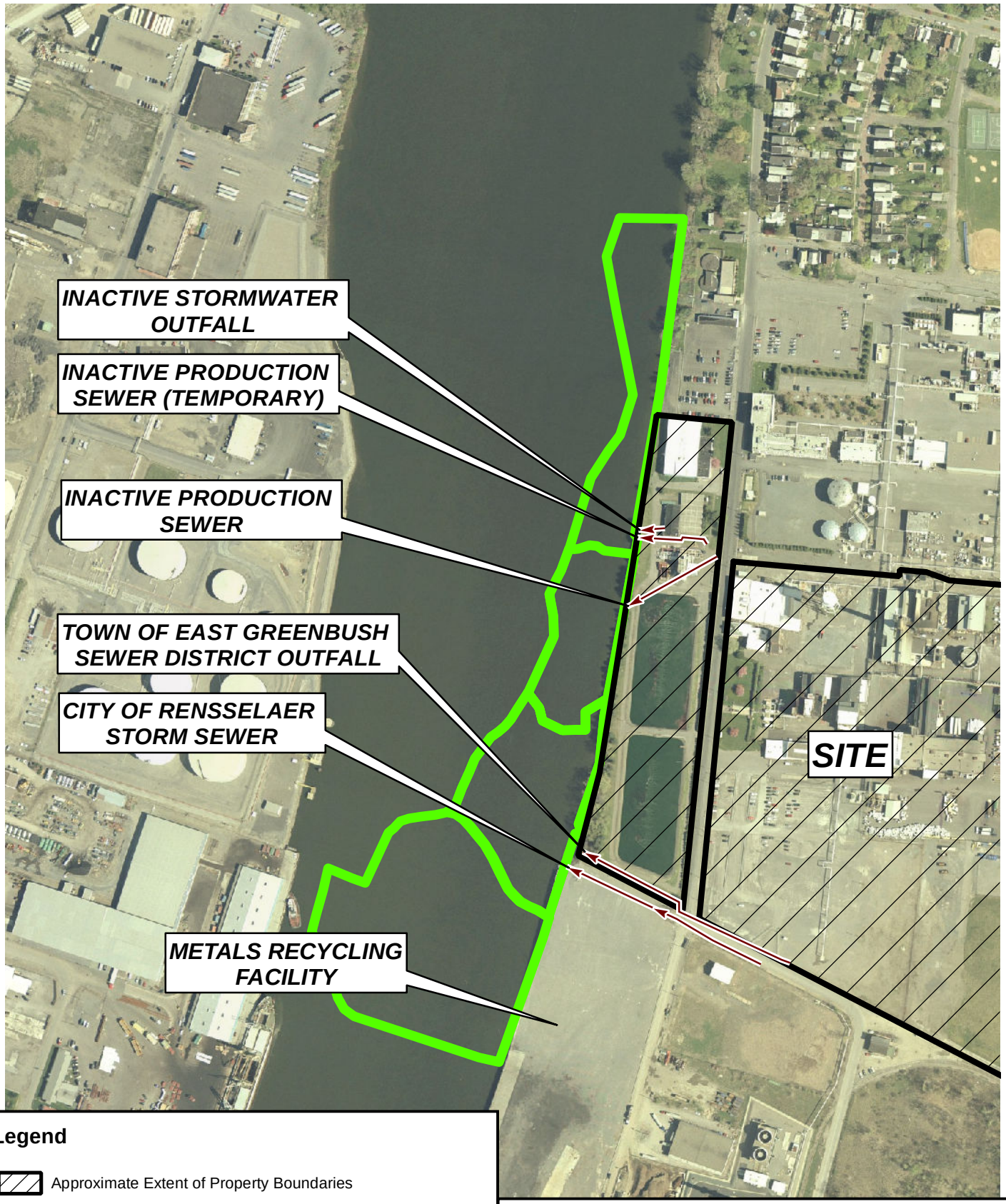

Legend

Approximate Extent of Property Boundaries

Approximate Locations of Outfall Pipes

Basemapping Provided by New York State Department of Environmental Conservation

1 INCH = 400 FEET

0 200 400 800 1,200 Feet

Location of Outfalls Adjacent to the Site

OU-2 Feasibility Study Investigation
BASF Corporation
Rensselaer, New York

SCALE	DATE	PROJECT NO.
1:4800	07/12	60197930

AECOM

Figure Number

3

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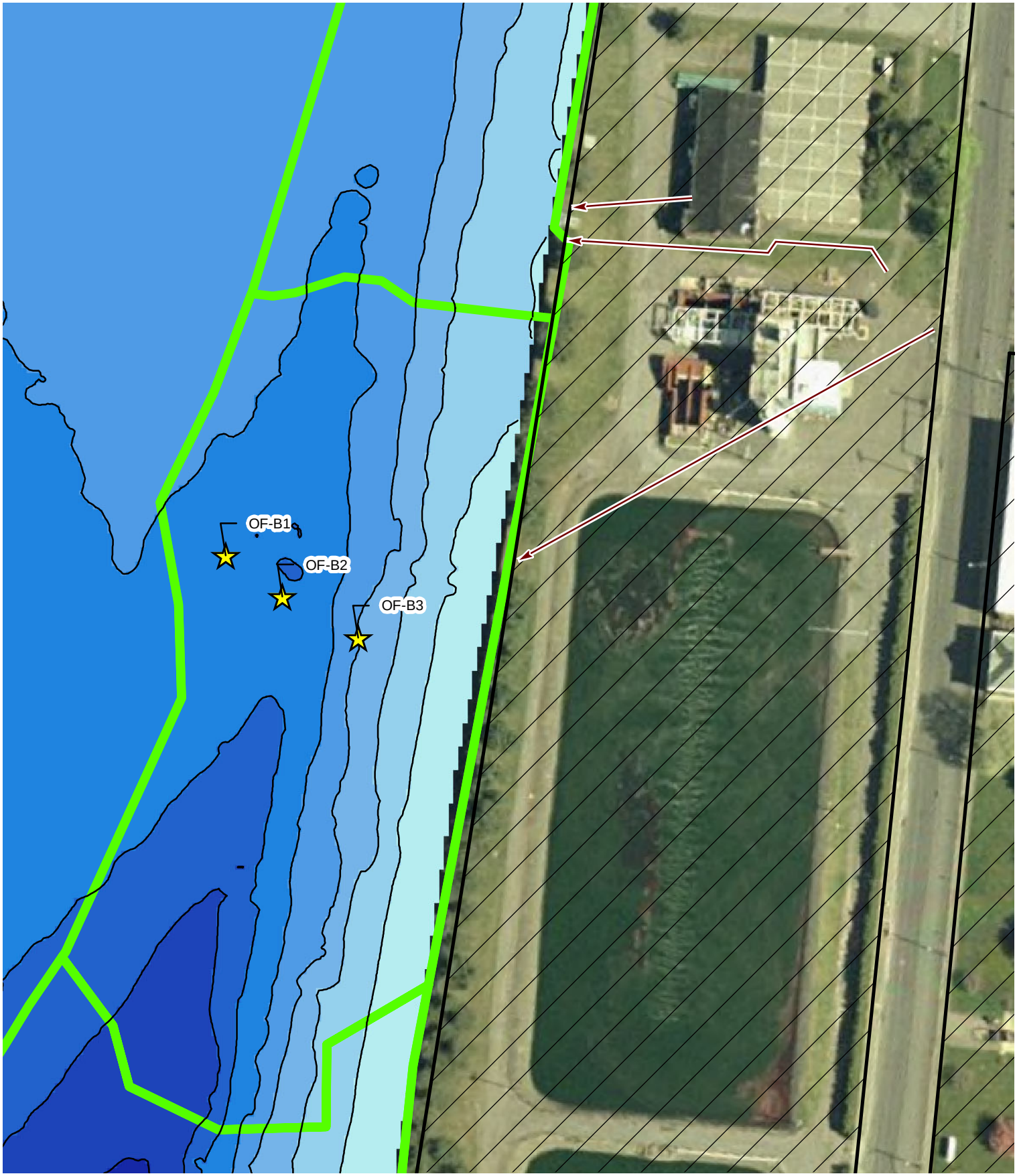

Depth (Feet)

-45 - -40
-39 - -35
-34 - -30
-29 - -25
-24 - -20
-19 - -15
-14 - -10
-9 - -5
-4 - 0

0 25 50 100 150 Feet

First Light Cores 6/08

Approximate Locations of Outfall Pipes

Approximate Property Boundaries

Locations of Empire Sediment Samples

OU-2 Feasibility Study Investigation
BASF Corporation
Rensselaer, New York

SCALE	DATE	PROJECT NO.
See Insets	07/12	60135950

AECOM

Figure Number

4

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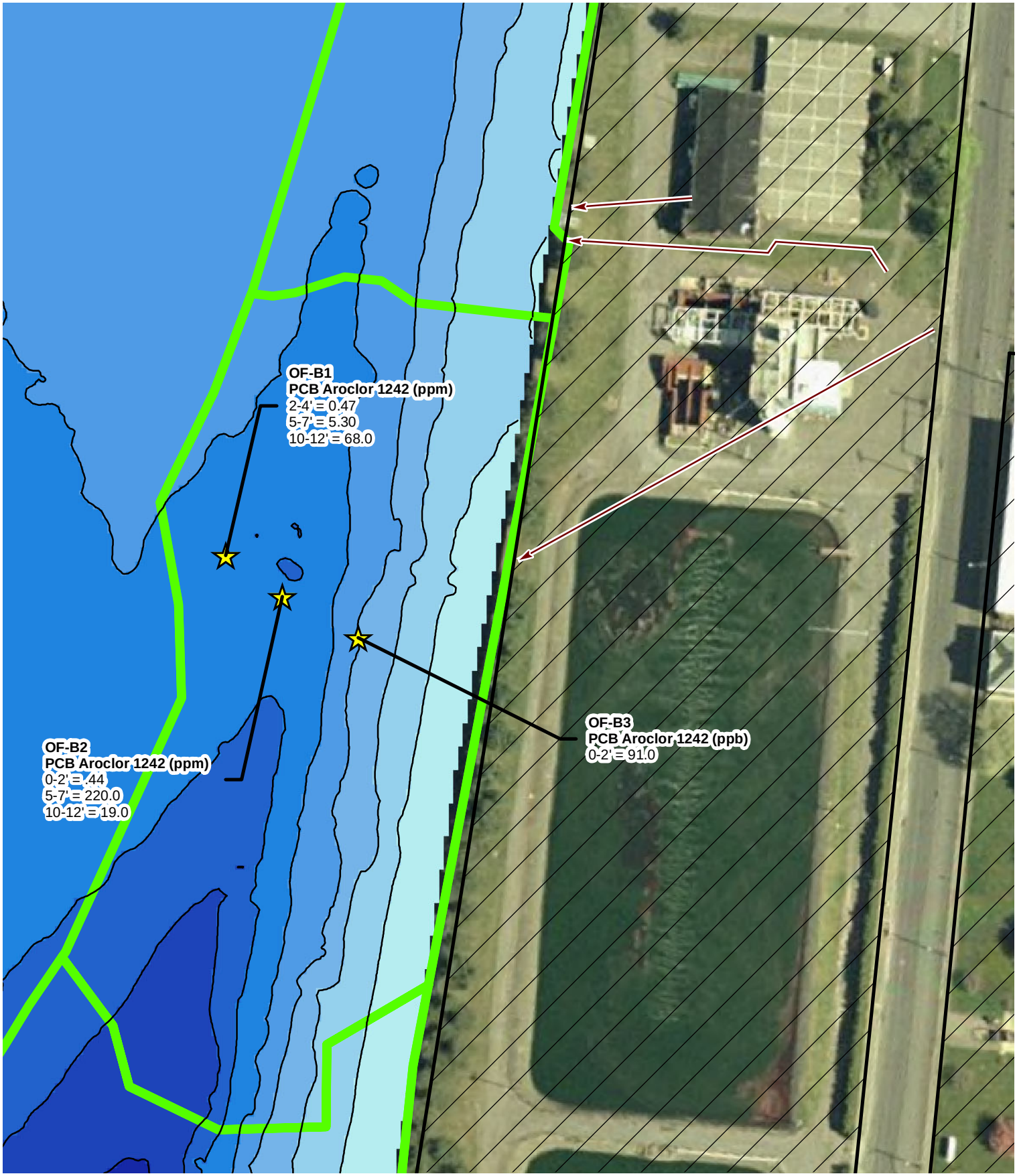


Depth (Feet)

-45 - -40 | -39 - -35 | -34 - -30 | -29 - -25 | -24 - -20 | -19 - -15 | -14 - -10 | -9 - -5 | -4 - 0

* PCB data expressed as ppm.

0 25 50 100 150 Feet

First Light Cores 6/08

Approximate Locations of Outfall Pipes

Approximate Property Boundaries

Analytical Results of Empire Sediment Samples

OU-2 Feasibility Study Investigation
BASF Corporation
Rensselaer, New York

SCALE	DATE	PROJECT NO.
See Insets	07/12	60197930

AECOM

Figure Number

5

J:\Indl_Service\Project Files\BASF-0760\Rensaleer NY\GIS\2012GIS\MXD\PCB Report\Figure5.mxd

0-0.5 Feet

0.5-2 Feet

2-4 Feet

4-6 Feet

6+ Feet

Notes:
1) Data presented are detects only
2) Duplicates are averaged.
3) Units are mg/kg

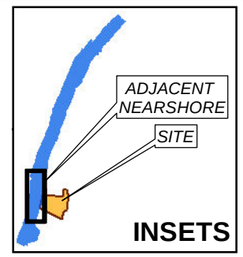
Study Areas
- Northern FS Study Area
- Southern FS Study Area
- PCB Sampling Locations

0 200 400 800 1,200 1,600 *Feet*

Legend
- Approximate Property Boundaries
- Approximate Locations of Outfall Pipes

Depth (Feet)

-45 - -40 | -39 - -35 | -34 - -30 | -29 - -25 | -24 - -20 | -19 - -15 | -14 - -10 | -9 - -5 | -4 - 0



INSETS

Adjacent Nearshore Sampling Locations for Surface and Sub-Surface Sediment

OU-2 Feasibility Study Investigation
BASF Corporation
Rensselaer, New York

SCALE	DATE	PROJECT NO.
1:4800	07/12	60197930

AECOM

Figure Number

6

J:\Indl_Service\Project Files\BASF-0760\Rensaleer NY\GIS\2012GIS\MXD\PCB Report\Figure6.mxd

0-0.5 Feet

SD163
Aroclor 1242 = 0.15

SD35X
Aroclor 1242 = 1.2
Aroclor 1254 = 0.24

SD151
Aroclor 1242 = 16
Aroclor 1260 = 15

SD180
Aroclor 1242 = 0.17

SD154
Aroclor 1242 = 11
Aroclor 1254 = 2.2

SD150
Aroclor 1242 = 0.43
Aroclor 1254 = 0.14

OF-B2 (0-2 ft)
Aroclor 1242 = 0.44

OF-B3 (0-2 ft)
Aroclor 1242 = 91

SD165
Aroclor 1242 = 1.6

SD173
Aroclor 1242 = 20

SD169
Aroclor 1242 = 35

SD138
Aroclor 1242 = 0.3
Aroclor 1254 = 0.07

SD174
Aroclor 1242 = 0.35
Aroclor 1254 = 0.11

SD175
Aroclor 1242 = 22
Aroclor 1254 = 3.5

SD171
Aroclor 1242 = 0.43
Aroclor 1254 = 0.15

SD170
Aroclor 1242 = 0.31
Aroclor 1254 = 0.1

SD159
Aroclor 1242 = 0.21
Aroclor 1254 = 0.08

SD167
Aroclor 1242 = 0.55

SD168
Aroclor 1242 = 2

SD172
Aroclor 1242 = 0.26
Aroclor 1254 = 0.11

0.5-2 Feet

SD35X
Aroclor 1242 = 0.12

SD165
Aroclor 1242 = 120

SD167
Aroclor 1242 = 13

SD173
Aroclor 1242 = 61
Aroclor 1254 = 11

SD168
Aroclor 1242 = 45

SD174
Aroclor 1242 = 13

SD175
Aroclor 1242 = 0.78

SD171
Aroclor 1242 = 3.5

SD172
Aroclor 1242 = 0.72

2-4 Feet

SD178
Aroclor 1242 = 0.09

SD35X
Aroclor 1242 = 0.06

OF-B1
Aroclor 1242 = 0.47

SD165
Aroclor 1242 = 190

SD173
Aroclor 1242 = 0.06

SD168
Aroclor 1242 = 0.7
Aroclor 1254 = 0.11

4-6 Feet

SD178
Aroclor 1242 = 0.14

SD165
Aroclor 1242 = 14
Aroclor 1254 = 3.1

SD168
Aroclor 1242 = 0.25

SD174
Aroclor 1242 = 0.09

SD171
Aroclor 1242 = 0.07

6+ Feet

SD178 (6-8 ft)
Aroclor 1242 = 0.21

SD35X (8-10 ft)
Aroclor 1242 = 0.08

SD35X (10-12 ft)
Aroclor 1242 = 0.14

OF-B1 (5-7 ft)
Aroclor 1242 = 5.3

OF-B1 (10-12 ft)
Aroclor 1242 = 68

OF-B2 (5-7 ft)
Aroclor 1242 = 220

OF-B2 (10-12 ft)
Aroclor 1242 = 19

SD173 (6-8 ft)
Aroclor 1242 = 0.41
Aroclor 1254 = 0.09

SD168 (8-10 ft)
Aroclor 1242 = 0.13
Aroclor 1254 = 0

PCB Concentrations (mg/kg)
- <1
- <5
- <10
- <25
- <50
- >50

Study Year
- 2001
- 2008
- 2009

Notes:
1) Data presented are detects only
2) Duplicates are averaged.
3) Units are mg/kg
4) Date are unvalidated

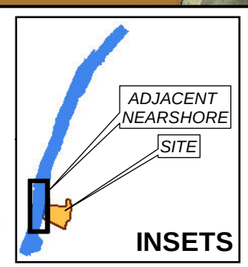
Study Areas
- Northern FS Study Area
- Southern FS Study Area

0 200 400 800 1,200 1,600 Feet

Legend

Geophysical Data
- Cobble
- Gravelly Sand
- Mud
- Muddy Sand
- Sandy Mud
- Sand

- Approximate Property Boundaries
- Approximate Locations of Outfall Pipes



PCB Aroclors in Surface and Subsurface Sediment

OU-2 Feasibility Study Investigation
BASF Corporation
Rensselaer, New York

SCALE	DATE	PROJECT NO.
1:4800	07/12	60179730

AECOM

Figure Number

7

J:\Indl_Service\Project Files\BASF-0760\Rensaleer NY\GIS\2012GIS\MXD\PCB Report\Figure7.mxd

NORTHERN FS STUDY AREA

SOUTHERN FS STUDY AREA

SD181 SD182 SD183
SD184 SD185 SD186
SD187 SD188
SD189 SD190
SD191 SD192
SD195 SD194
SD196
SD197
SD198 SD199
SD200 SD201
SD202 SD203
SD204 SD205
SD206 SD207 SD208
SD209 SD210
SD211 SD212 SD213
SD214 SD215 SD216
SD217 SD218 SD219
SD220 SD221 SD222
SD223 SD224 SD225 SD226
SD227 SD228 SD229
SD230 SD231 SD232 SD233
SD235 SD236 SD237 SD238 SD239
SD241 SD242 SD243 SD244 SD245
SD247 SD248 SD249 SD250 SD251
SD254 SD255 SD256
SD258 SD259
SD267 SD268

Depth (Feet)

-45 - -40
-39 - -35
-34 - -30
-29 - -25
-24 - -20
-19 - -15
-14 - -10
-9 - -5
-4 - 0

Cores

0 125 250 500 Feet

2011 Northern FS Study Area Sampling Locations

OU-2 Feasibility Study Investigation
BASF Corporation
Rensselaer, New York

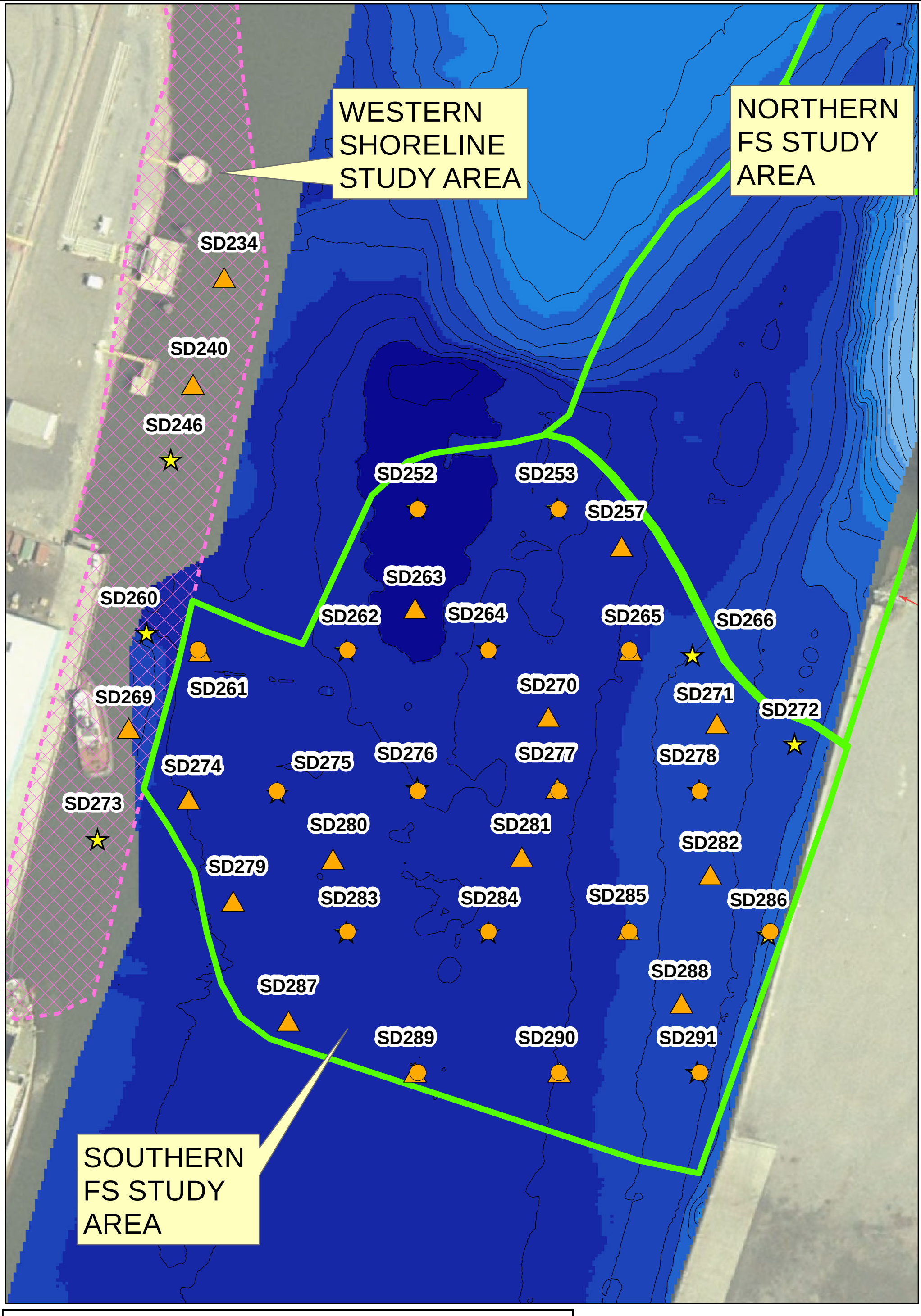
SCALE	DATE	PROJECT NO.
See Inset	07/12	60197930

AECOM

Figure Number

8

J:\Indl_Service\Project Files\BASF-0760\Rensaleer NY\GIS\2012GIS\MXD\PCB Report\Figure8.mxd



Depth (Feet)

-45 - -40 | -39 - -35 | -34 - -30 | -29 - -25 | -24 - -20 | -19 - -15 | -14 - -10 | -9 - -5 | -4 - 0

Grabs
Toxicity
Chemistry

0 125 250 500 Feet

2011 Southern FS Study Area Sampling Locations

OU-2 Feasibility Study Investigation
BASF Corporation
Rensselaer, New York

SCALE	DATE	PROJECT NO.
See Inset	07/12	60197930

AECOM

Figure Number

9

J:\Indl_Service\Project Files\BASF-0760\Rensaleer NY\GIS\2012GIS\MXD\PCB Report\Figure9.mxd

0-2.0 Feet

2-4 Feet

4-6 Feet

6-8 Feet

8-10 Feet

SD213 is ND at 10-11.4'

Southern FS Study Area samples are 0.0-0.5'

Notes:
1) Duplicates are averaged.
2) Units are mg/kg
3) Target locations are displayed
4) Data are sum of Aroclors, detects only

0 200 400 800 1,200 1,600 Feet

Total PCBs (mg/kg)

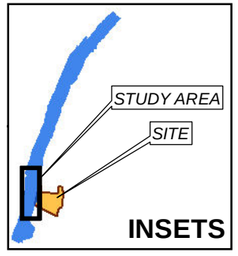
- < 1
- < 5
- < 10
- < 25
- < 50
- > 50

Legend

- Approximate Property Boundaries
- Approximate Locations of Outfall Pipes

Depth (Feet)

-45 - -40 | -39 - -35 | -34 - -30 | -29 - -25 | -24 - -20 | -19 - -15 | -14 - -10 | -9 - -5 | -4 - 0



Total PCB Aroclors Detected in 2011 Surficial and Sub-surficial Sediment Samples

OU-2 Feasibility Study Investigation
BASF Corporation
Rensselaer, New York

SCALE	DATE	PROJECT NO.
1:4800	07/12	60197930

AECOM

Figure Number

10

J:\Indl_Service\Project Files\BASF-0760\Rensaleer NY\GIS\2012GIS\MXD\PCB Report\Figure10.mxd

0-2.0 Feet

2-4 Feet

4-6 Feet

6-8 Feet

8-10 Feet

SD213 (10.0-11.4')
17,021 mg/kgOC

Southern FS Study Area samples are 0.0-0.5'

Chlorobenzene (mg/kgOC)
- < 3.5 (< LEL)
- 3.5 - 35 (> LEL)
- 35 - 350 (> SEL)
- 350 - 3500 (>10X SEL)
- > 3500 (>100X SEL)

Notes:
1) Duplicates are averaged.
2) Units are mg/kgOC
3) Target locations are displayed

0 200 400 800 1,200 1,600 Feet

Legend

Approximate Property Boundaries

Approximate Locations of Outfall Pipes

Depth (Feet)

-45 - -40 | -39 - -35 | -34 - -30 | -29 - -25 | -24 - -20 | -19 - -15 | -14 - -10 | -9 - -5 | -4 - 0

INSETS

STUDY AREA

SITE

Chlorobenzene Detected in 2011 Surficial and Sub-surficial Sediment Samples

OU-2 Feasibility Study Investigation
BASF Corporation
Rensselaer, New York

SCALE	DATE	PROJECT NO.
1:4800	07/12	60197930

AECOM

Figure Number

11

J:\Indl_Service\Project Files\BASF-0760\Rensaleer NY\GIS\2012GIS\MXD\PCB Report\Figure11.mxd

Appendix A

NYSDEC PCB Letter – 07/12/2011

New York State Department of Environmental Conservation
Office of General Counsel, 14th Floor
625 Broadway, Albany, New York 12233-1500
Fax: (518) 402-9018 or (518) 402-9019
Website: www.dec.ny.gov

Joe Martens
Commissioner

July 12, 2011

Nan Bernardo, Esq.
Senior Environmental Counsel
BASF Corporation
100 Campus Drive
Florham Park, NJ 07932

Re: BASF Manufacturing Plant, Site No. 442027, Rensselaer
PCBs in Hudson River Sediment

Dear Nan:

This letter is a response to BASF's request for the Department's position on BASF's responsibility for PCBs that have been found in Hudson River sediment adjacent to the former Rensselaer facility.

In forming our position, the Department has reviewed a March 31, 2009 letter and attached materials from Roux Associates, a November 8, 2010 letter and attached materials from you in response to my request for additional information, and the various sediment data that has been collected during investigations of the Hudson River as part of Operable Unit 2 for the BASF Manufacturing Plant site.

As a result of our review, the Department has found no evidence to date which indicates that BASF used or disposed of PCBs during the history of industrial practices at the Rensselaer facility. Accordingly, the Department will limit BASF's investigation and remediation of PCBs to those areas of Hudson River sediment that are co-located with contamination from BASF's operations. The Department will require BASF to properly characterize and remediate PCB contaminated sediment that is commingled with contamination caused by its operations, but BASF will only be required to continue remediation until remedial obligations are achieved, as determined by the Department, for the contamination caused by BASF-related operations. Please note that our position is based on information known to the Department at this time, and our position is subject to change based on discovery of new information or unknown conditions.

The Department is currently reviewing work plans submitted by BASF, including a PCB Sampling and Analysis Work Plan, and the Department will contact BASF under separate cover responding to such work plans.

Nothing herein waives any of the Department's rights and the Department expressly reserves all rights with respect to BASF and any other party under applicable law.

Very Truly Yours,

Andrew Guglielmi

ec: Doug Reid-Green, BASF
John Strang, DEC

Appendix B

Laboratory Reports

Appendix B will be delivered separately on a compact disc.

Appendix C

Data Validation Report

Appendix C will be delivered separately on a compact disc