



**US Army Corps
of Engineers®**

**New York District
Albany Field Office
1 Bond Street
Troy, N.Y. 12180**
ATTN: CENAN-OP-A

Public Notice

In replying refer to:
Public Notice No. SH-AFO-MD24
Published: November 1, 2023
Expires: December 1, 2023

**SAUGERTIES HARBOR, NEW YORK
FEDERAL NAVIGATION PROJECT
MAINTENANCE DREDGING**

TO WHOM IT MAY CONCERN:

The New York District, US Army Corps of Engineers, pursuant to Section 10 of the Rivers and Harbors Act of 1899 and Section 404 (33 U.S.C. 1344) of the Federal Water Pollution Control Act (amended in 1977 and commonly referred to as the Clean Water Act), proposes to perform maintenance dredging of the Federal Navigation Project: Saugerties Harbor (see Enclosures 1 thru 4); with subsequent placement of the dredged material in the federally owned upland dredged material placement site on Houghtaling Island, New Baltimore, New York.

ACTIVITY: Maintenance dredging of the following Federal Navigation Projects: Saugerties Harbor, NY from the mouth of Esopus Creek up to the steamboat wharf in Saugerties; with subsequent placement of the dredged material in the federally owned upland dredged material placement site on Houghtaling Island, New Baltimore, New York.

**WATERWAY/
PROJECT:** Saugerties Harbor, Federal Navigation Project

LOCATIONS: Saugerties, New York.

The Saugerties Harbor Federal Navigation Project was authorized by the Rivers and Harbors Acts of 1884 (modified in 1887) and 1902; in accordance with the recommendations contained in the following: Annual Report for 1884; H. Doc. No. 107, 56th Cong., 1st Session., and Annual Report for 1900.

The existing navigation project authorizes a channel 12 feet deep, 200 feet wide from the deep water in the Hudson River to the steamboat wharf in the Village of Saugerties. Length about 0.8 miles.

This activity is being evaluated to determine that the proposed dredging, with subsequent dredge material placement in the federally owned upland site on Houghtaling Island, will not unreasonably degrade or endanger human health, welfare, economic potential, recreation and aesthetics, water quality, marine resources, ecological systems and/or flood protection.

USACE is soliciting comments from the public; federal, state and local agencies and officials; Indian

tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Comments are used to assess impacts on navigation, water quality, endangered species, historic resources, wetlands, scenic and recreational values, and other public interest factors. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act and to determine the need for a public hearing.

ALL COMMENTS REGARDING THIS ACTIVITY MUST BE PREPARED IN WRITING AND MAILED TO REACH THE ALBANY FIELD OFFICE AT THE ADDRESS ON THE FRONT PAGE BEFORE THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity.

Any person who has an interest which may be affected by the dredging and/or placement of this dredged material may request a public hearing. The request must be submitted in writing to the District Engineer within the comment period of this notice and must clearly set forth the interest which may be affected and the manner in which the interest may be affected by the activity. It should be noted that information submitted by mail is considered just as carefully in the process and bears the same weight as that furnished at a public hearing.

No known archaeological, scientific, prehistorical or historical data are expected to be lost by work accomplished under the required dredging.

Reviews of the activity pursuant to Section 404 of the Clean Water Act will include application of the guidelines announced by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act. USACE will obtain a water quality certificate (WQC) or waiver from the New York State Department of Environmental Conservation, in accordance with Section 401 of the CleanWater Act prior to commencement of any work.

Pursuant to Section 307 of the Coastal Zone Management Act of 1972 as amended [16 USC 1456(c)], for activities conducted or supported by a federal agency in a state which has a federally approved Coastal Zone Management (CZM) program, USACE will submit a determination that the proposed project is consistent with the State CZM program to the maximum extent practicable. This activity is subject to review by the New York State Department of State for its consistency with the enforceable policies of the New York State Coastal Management Program. The New York District of the US Army Corps of Engineers has determined that the proposed activities are consistent to the maximum extent practicable with the New York State CZM program. A copy of this determination will be provided to the New York State Department of State, Division of Coastal Resources, with a request for State's agreement with that determination. For activities within the coastal zone of the State of New York, project information is available from the [Coastal Zone Management Program, New York State Department of State, Office of Coastal, Local Government, and Community Sustainability, One Commerce Plaza, 99 Washington Avenue, Suite 1010, Albany, NY 11231](#), telephone (518) 474-3642.

The following will be prepared and submitted to the National Marine Fisheries Service (NMFS) for review and comment: an Essential Fish Habitat Assessment (in compliance with Section 305(b)(2) of the Magnuson-Stevens Fishery Conservation and Management Act (1996 amendments)); a request for NMFS evaluation of the proposed federally authorized activities (in compliance with Section 7 of the Endangered Species Act).

The proposed work is being coordinated with the following federal, state and local agencies:

- U.S. Environmental Protection Agency
- U.S. Department of the Interior, Fish and Wildlife Service
- U.S. Department of Commerce, National Marine Fisheries Service
- U.S. Coast Guard, First District

- New York State Department of Environmental Conservation
- New York State Department of State

If you have any questions concerning this notice, you may contact the Albany Field Office at (518) 273-0870 and ask for Mr. Devon Hinds. Questions may be Faxed to (518) 273-3772 ATTN: Mr. Devon Hinds.

DESCRIPTION OF PLANNED FEDERAL ACTION:

The U.S. Army Corps of Engineers, New York District proposes to perform maintenance dredging of the Saugerties Harbor Federal Navigation Project, located in Saugerties, New York (River Mile 130, see Enclosure 1). The Saugerties Harbor channel was last dredged in 1988 with the removal of 10,313 CY of sediment. Based on condition surveys performed between 26 – 27 July 2023, the proposed maintenance dredging would involve the removal of a combined estimated total of approximately 34,000 CY of material from the dredging areas. The project will be dredged to its authorized depth of -12 feet plus 1 foot of allowable over depth. The project depth is referenced to the plane of MLLW. This datum is approximately 1.7-1.8 feet below NAVD88.

The purpose of the proposed dredging is to alleviate the effects of shoaling in order to maintain the authorized project dimensions of the channel, thereby assuring the safe use of the harbor by the US Coast Guard and commercial interests. The dredge material has been tested and meets the criteria for confined disposal in the federally owned upland dredged material placement site on Houghtaling Island, New Baltimore, New York.

Maintenance dredging of the Saugerties Harbor Federal Navigation Projects will be accomplished by a mechanical dredge, hopper dredge or other similar plant. The entire channel will generally not require maintenance dredging; only areas where shoaling has reduced the depth of the channel will require dredging. No in-water work will occur during the following environmental windows for shortnose sturgeon (*Acipenser brevirostrum*) and Atlantic sturgeon (*Acipenser oxyrinchus*): March 1st to August 15th for Esopus Creek and Saugerties Harbor.

ENVIRONMENTAL IMPACT STATEMENT:

An Environmental Impact Statement (EIS) was prepared by the U.S. Army Engineer District, New York in January 1983. Environmental Assessments (EA) updating this EIS were prepared by the New York District for similar Hudson River (and Hudson River tributary) maintenance dredging projects performed in calendar years 1986, 1988, 1990, 1992, 1995, 1998, 2001, 2003, 2007, 2010, 2012-13, 2014, 2016, 2018, 2020, 2021 and 2022. It was determined then that maintenance dredging of the Saugerties Harbor Federal Navigation Project, with placement of the dredged material on the federally owned upland placement site on Houghtaling Island, has no significant adverse environmental impacts on water quality, marine resources, fish, wildlife, recreation, aesthetics and flood protection.

An update of the EA and a 404 (b) evaluation as required by the Clean Water Act 40 CFR 230 will be finalized prior to the implementation of the proposed work. A copy of the draft EA will be available upon request by contacting the Albany Field Office.

PLACEMENT SITE:

The dredged material from this project is proposed to be placed in the federally owned upland placement site on Houghtaling Island, New Baltimore, New York. This site is located at River Mile 101 as shown on the attached map. The dredged material will either be directly transported by hopper dredge and deposited at the designated site, or it will be loaded into hopper scow(s), transported by tug(s), and pumped into Area A of the designated site utilizing a hydraulic unloader, or other similar

plant; as shown on the attached map (Enclosure 3).

MATERIAL DESCRIPTION:

The proposed dredge area is depicted in Enclosure 2. The proposed dredge material has been characterized by taking sediment core samples extending to a depth of -12 feet (project depth) plus 1 foot of allowable over-depth. Based on the analysis of the core samples; the average grain size characteristics of the proposed dredged material are as follows:

Saugerties Harbor Dredge Area:

- Composite A: 1.4% Gravel, 92.3% Sand, 4.6% Silt, 1.7% Clay
- Composite B: 0.6% Gravel, 81.5% Sand, 14.6% Silt, 3.3% Clay
- Composite C: 0.4% Gravel, 70.5% Sand, 23.6% Silt, 5.5% Clay
- Composite D: 0.0% Gravel, 6.2% Sand, 65.8% Silt, 28% Clay
- Composite E: 0.2% Gravel, 35.9% Sand, 45.3% Silt, 18.6% Clay
- **Total: 1.0% Gravel, 53.0% Sand, 33% Silt, 13% Clay**

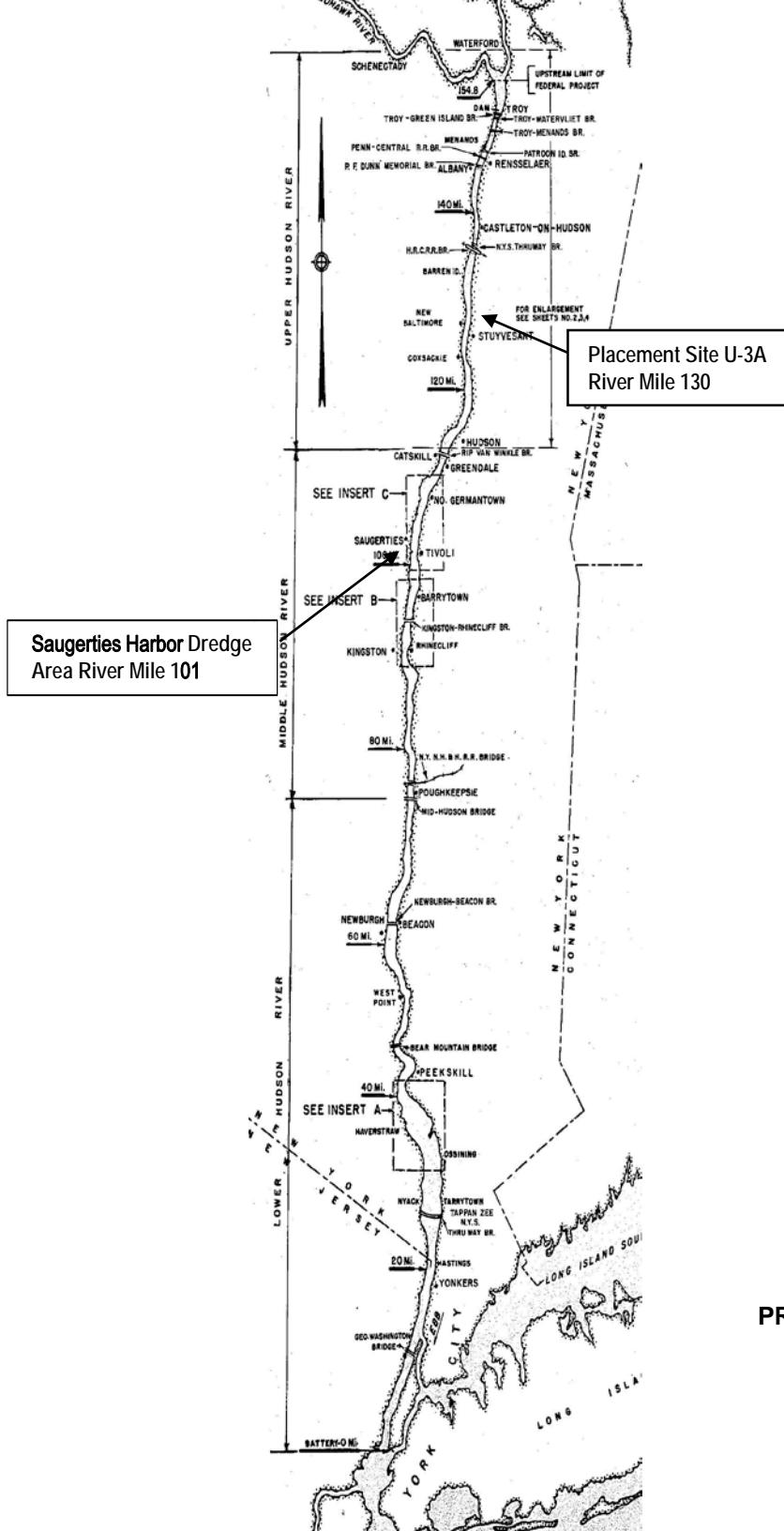
See Enclosure 2 for sample locations and Enclosure 4 for the physical and chemistry summary data reports. The full chemistry data reports entitled "Technical Report on the Sampling and Testing of Material from Saugerties Harbor and Esopus Creek, Saugerties, NY, Delivery Order No. W912DS-23-F-0053" dated September 2023 are available for review at the Albany Field Office, Troy, NY.

For more information on the New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>

It is requested that you communicate the foregoing information concerning the proposed work to any persons known by you to be interested and who did not receive a copy of this notice.

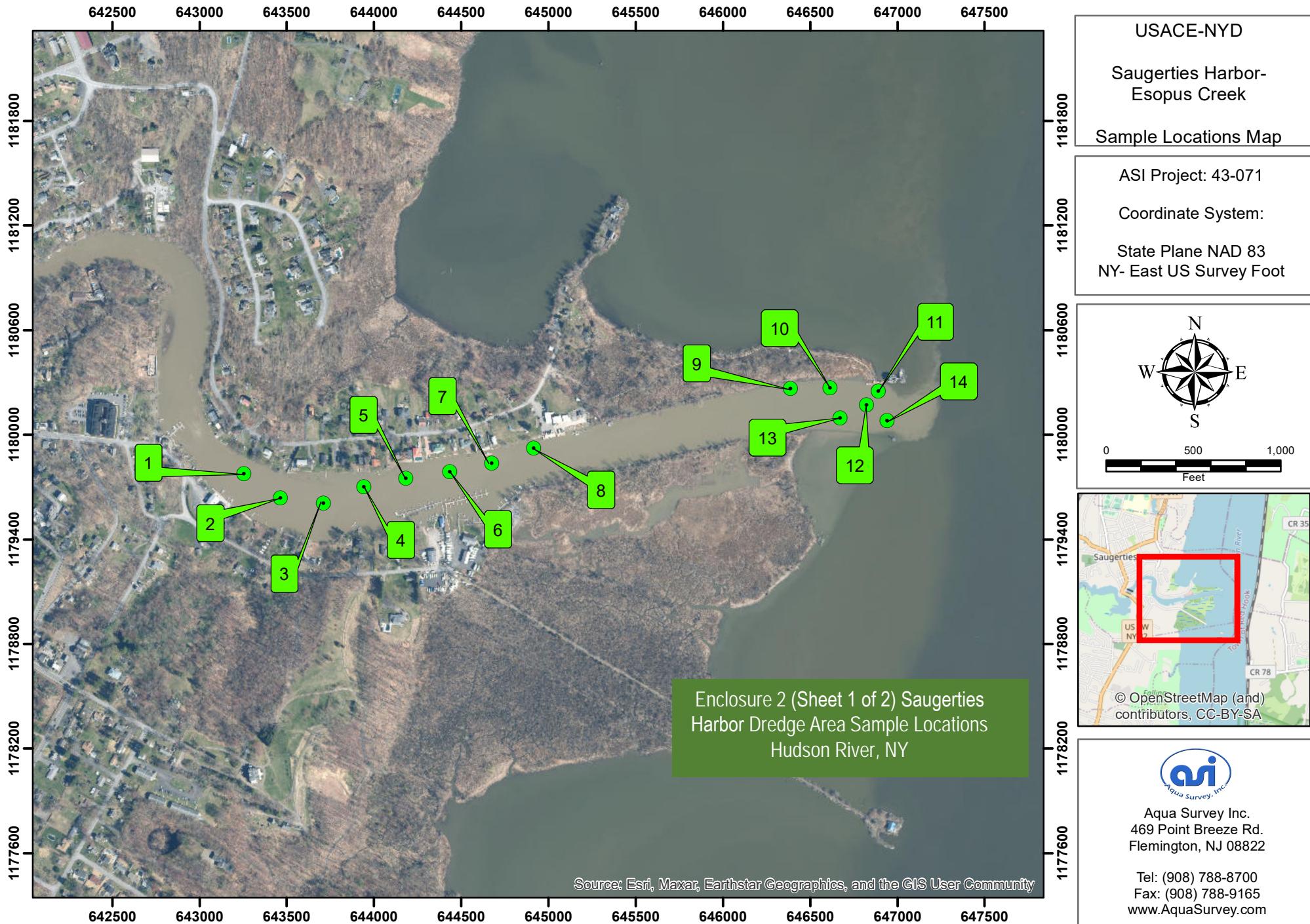
Michael T. Wright
Branch Chief, Albany Field Office

Enclosures
As Stated

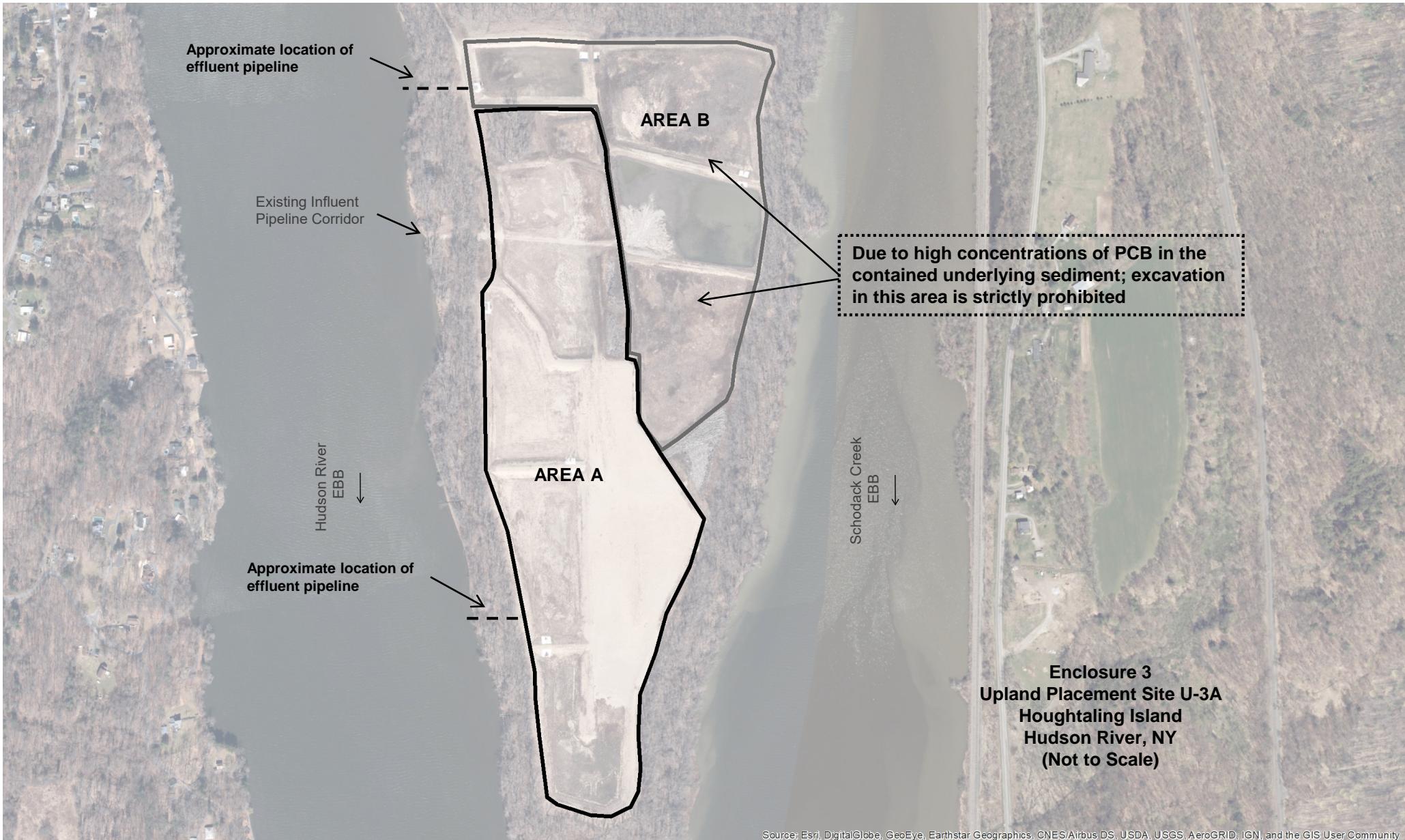


ENCLOSURE 1
LOCATION MAP OF
PROPOSED DREDGE AREA
AND
PLACEMENT SITE
(Not to Scale)

Sample Locations Map



Core Name	Northings	Eastings
1	1179775.8	643254.6
2	1179634.9	643463.1
3	1179609.1	643710.6
4	1179704.1	643941.5
5	1179748.8	644182.3
6	1179788.1	644434.5
7	1179838.7	644675.5
8	1179923.9	644916.5
9	1180262.5	646389.3
10	1180268.8	646613.8
11	1180251.5	646890.7
12	1180169.5	646824.0
13	1180096.4	646671.7
14	1180079.4	646941.4



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Table 3. Grain Size Distribution, Percent Moisture, & TOC of the Individual Cores and Composites

Sample ID	ASI #	Total % Gravel	Total % Sand	Total % Silt	Total % Clay	% Moisture	TOC ppm	% TOC of Dry Weight
Esopus #01	20230650	0.5	91.2	5.3	3.0	25.10	5,832	0.58
Esopus #02	20230651	0.9	95.1	3.1	0.9	21.61	1,850	0.19
Esopus #03	20230652	2.6	89.9	5.4	2.1	26.75	3,667	0.37
Composite A	20230694	1.4	92.3	4.6	1.7	24.73	6,086	0.61
Esopus #04	20230653	0.3	80.2	15.1	4.4	36.84	9,449	0.94
Esopus #05	20230654	1.6	82.6	12.0	3.8	30.41	16,368	1.64
Esopus #06	20230655	0.0	78.4	15.6	6.0	30.14	9,346	0.93
Composite B	20230695	0.6	81.5	14.6	3.3	32.62	10,882	1.09
Esopus #07	20230656	1.3	88.7	7.1	2.9	26.46	3,705	0.37
Esopus #08	20230657	0.0	31.3	57.4	11.3	52.80	32,422	3.24
Composite C	20230696	0.4	70.5	23.6	5.5	37.43	13,548	1.35
Esopus #09	20230658	0.0	7.0	67.3	25.7	54.68	31,103	3.11
Esopus #10	20230659	0.0	5.6	62.0	32.4	52.12	30,938	3.09
Esopus #11	20230660	0.0	7.7	57.0	35.3	56.43	35,105	3.51
Composite D	20230697	0.0	6.2	65.8	28.0	54.42	32,524	3.25
Esopus #12	20230661	0.0	9.2	60.6	30.2	54.03	29,827	2.98
Esopus #13	20230662	0.0	6.1	69.5	24.4	54.71	32,774	3.28
Esopus #14	20230663	0.2	67.8	25.8	6.2	38.48	12,166	1.22
Composite E	20230698	0.2	35.9	45.3	18.6	48.61	25,128	2.51
Composite E	20230698 dup	0.1	34.7	47.8	17.4	48.65		
Composite E	20230698 trp	0.0	33.5	48.6	17.9	48.78		

ESOPUS #01 - Aroclors

Aroclors	NYS DEC Threshold Value Class A	NYS DEC Threshold Value Class B	NYS DEC Threshold Value Class C	MDL (Units: mg/kg)	Unamended Sediment (Units: mg/kg)
ASI ID #	Soil mg/kg	Soil mg/kg	Soil mg/kg		20230650
Aroclor-1016	< 0.1	0.1 - 1	> 1	0.00018	0.00055
Aroclor-1221	< 0.1	0.1 - 1	> 1	0.00020	0.00055
Aroclor-1232	< 0.1	0.1 - 1	> 1	0.00013	0.00055
Aroclor-1242	< 0.1	0.1 - 1	> 1	0.00008	0.00055
Aroclor-1248	< 0.1	0.1 - 1	> 1	0.00013	0.00650
Aroclor-1254	< 0.1	0.1 - 1	> 1	0.00016	0.00055
Aroclor-1260	< 0.1	0.1 - 1	> 1	0.00016	0.00270
Total Aroclor(SUM)	< 0.1	0.1 - 1	> 1	0.00020	0.00920

ESOPUS #02 - Aroclors

Aroclors	NYS DEC Threshold Value Class A	NYS DEC Threshold Value Class B	NYS DEC Threshold Value Class C	MDL (Units: mg/kg)	Unamended Sediment (Units: mg/kg)
ASI ID #	Soil mg/kg	Soil mg/kg	Soil mg/kg		20230651
Aroclor-1016	< 0.1	0.1 - 1	> 1	0.00017	0.00053
Aroclor-1221	< 0.1	0.1 - 1	> 1	0.00019	0.00053
Aroclor-1232	< 0.1	0.1 - 1	> 1	0.00013	0.00053
Aroclor-1242	< 0.1	0.1 - 1	> 1	0.00008	0.00053
Aroclor-1248	< 0.1	0.1 - 1	> 1	0.00013	0.00130
Aroclor-1254	< 0.1	0.1 - 1	> 1	0.00016	0.00053
Aroclor-1260	< 0.1	0.1 - 1	> 1	0.00015	0.00053
Total Aroclor(SUM)	< 0.1	0.1 - 1	> 1	0.00019	0.00130

ESOPUS #03 - Aroclors

Aroclors	NYS DEC Threshold Value Class A	NYS DEC Threshold Value Class B	NYS DEC Threshold Value Class C	MDL (Units: mg/kg)	Unamended Sediment (Units: mg/kg)
ASI ID #	Soil mg/kg	Soil mg/kg	Soil mg/kg		20230652
Aroclor-1016	< 0.1	0.1 - 1	> 1	0.00018	0.00056
Aroclor-1221	< 0.1	0.1 - 1	> 1	0.00020	0.00056
Aroclor-1232	< 0.1	0.1 - 1	> 1	0.00014	0.00056
Aroclor-1242	< 0.1	0.1 - 1	> 1	0.00008	0.00056
Aroclor-1248	< 0.1	0.1 - 1	> 1	0.00014	0.00200
Aroclor-1254	< 0.1	0.1 - 1	> 1	0.00017	0.00056
Aroclor-1260	< 0.1	0.1 - 1	> 1	0.00016	0.00120
Total Aroclor(SUM)	< 0.1	0.1 - 1	> 1	0.00020	0.00320

ESOPUS #04 - Aroclors

Aroclors	NYS DEC Threshold Value Class A	NYS DEC Threshold Value Class B	NYS DEC Threshold Value Class C	MDL (Units: mg/kg)	Unamended Sediment (Units: mg/kg)
ASI ID #	Soil mg/kg	Soil mg/kg	Soil mg/kg		20230653
Aroclor-1016	< 0.1	0.1 - 1	> 1	0.00021	0.00066
Aroclor-1221	< 0.1	0.1 - 1	> 1	0.00023	0.00066
Aroclor-1232	< 0.1	0.1 - 1	> 1	0.00016	0.00066
Aroclor-1242	< 0.1	0.1 - 1	> 1	0.00010	0.00066
Aroclor-1248	< 0.1	0.1 - 1	> 1	0.00016	0.06700
Aroclor-1254	< 0.1	0.1 - 1	> 1	0.00020	0.00066
Aroclor-1260	< 0.1	0.1 - 1	> 1	0.00019	0.00870
Total Aroclor(SUM)	< 0.1	0.1 - 1	> 1	0.00023	0.07600

ESOPUS #05 - Aroclors

Aroclors	NYS DEC Threshold Value Class A	NYS DEC Threshold Value Class B	NYS DEC Threshold Value Class C	MDL (Units: mg/kg)	Unamended Sediment (Units: mg/kg)
ASI ID #	Soil mg/kg	Soil mg/kg	Soil mg/kg		20230654
Aroclor-1016	< 0.1	0.1 - 1	> 1	0.00019	0.00060
Aroclor-1221	< 0.1	0.1 - 1	> 1	0.00021	0.00060
Aroclor-1232	< 0.1	0.1 - 1	> 1	0.00015	0.00060
Aroclor-1242	< 0.1	0.1 - 1	> 1	0.00009	0.00060
Aroclor-1248	< 0.1	0.1 - 1	> 1	0.00014	0.01900
Aroclor-1254	< 0.1	0.1 - 1	> 1	0.00018	0.00060
Aroclor-1260	< 0.1	0.1 - 1	> 1	0.00017	0.00330
Total Aroclor(SUM)	< 0.1	0.1 - 1	> 1	0.00021	0.02200

ESOPUS #06 - Aroclors

Aroclors	NYS DEC Threshold Value Class A	NYS DEC Threshold Value Class B	NYS DEC Threshold Value Class C	MDL (Units: mg/kg)	Unamended Sediment (Units: mg/kg)
ASI ID #	Soil mg/kg	Soil mg/kg	Soil mg/kg		20230655
Aroclor-1016	< 0.1	0.1 - 1	> 1	0.00020	0.00061
Aroclor-1221	< 0.1	0.1 - 1	> 1	0.00022	0.00061
Aroclor-1232	< 0.1	0.1 - 1	> 1	0.00015	0.00061
Aroclor-1242	< 0.1	0.1 - 1	> 1	0.00009	0.00061
Aroclor-1248	< 0.1	0.1 - 1	> 1	0.00015	0.09300
Aroclor-1254	< 0.1	0.1 - 1	> 1	0.00018	0.00061
Aroclor-1260	< 0.1	0.1 - 1	> 1	0.00017	0.00950
Total Aroclor(SUM)	< 0.1	0.1 - 1	> 1	0.00022	0.10000

ESOPUS #07 - Aroclors

Aroclors	NYS DEC Threshold Value Class A	NYS DEC Threshold Value Class B	NYS DEC Threshold Value Class C	MDL (Units: mg/kg)	Unamended Sediment (Units: mg/kg)
ASI ID #	Soil mg/kg	Soil mg/kg	Soil mg/kg		20230656
Aroclor-1016	< 0.1	0.1 - 1	> 1	0.00018	0.00056
Aroclor-1221	< 0.1	0.1 - 1	> 1	0.00020	0.00056
Aroclor-1232	< 0.1	0.1 - 1	> 1	0.00014	0.00056
Aroclor-1242	< 0.1	0.1 - 1	> 1	0.00008	0.00056
Aroclor-1248	< 0.1	0.1 - 1	> 1	0.00014	0.00056
Aroclor-1254	< 0.1	0.1 - 1	> 1	0.00017	0.01900
Aroclor-1260	< 0.1	0.1 - 1	> 1	0.00016	0.00056
Total Aroclor(SUM)	< 0.1	0.1 - 1	> 1	0.00020	0.01900

ESOPUS #08 - Aroclors

Aroclors	NYS DEC Threshold Value Class A	NYS DEC Threshold Value Class B	NYS DEC Threshold Value Class C	MDL (Units: mg/kg)	Unamended Sediment (Units: mg/kg)
ASI ID #	Soil mg/kg	Soil mg/kg	Soil mg/kg		20230657
Aroclor-1016	< 0.1	0.1 - 1	> 1	0.00028	0.00088
Aroclor-1221	< 0.1	0.1 - 1	> 1	0.00031	0.00088
Aroclor-1232	< 0.1	0.1 - 1	> 1	0.00021	0.00088
Aroclor-1242	< 0.1	0.1 - 1	> 1	0.00013	0.00088
Aroclor-1248	< 0.1	0.1 - 1	> 1	0.00021	0.00088
Aroclor-1254	< 0.1	0.1 - 1	> 1	0.00026	0.00088
Aroclor-1260	< 0.1	0.1 - 1	> 1	0.00025	0.00210
Total Aroclor(SUM)	< 0.1	0.1 - 1	> 1	0.00031	0.00210

ESOPUS #09 - Aroclors

Aroclors	NYS DEC Threshold Value Class A	NYS DEC Threshold Value Class B	NYS DEC Threshold Value Class C	MDL (Units: mg/kg)	Unamended Sediment (Units: mg/kg)
ASI ID #	Soil mg/kg	Soil mg/kg	Soil mg/kg		20230658
Aroclor-1016	< 0.1	0.1 - 1	> 1	0.00030	0.00092
Aroclor-1221	< 0.1	0.1 - 1	> 1	0.00033	0.00092
Aroclor-1232	< 0.1	0.1 - 1	> 1	0.00023	0.00092
Aroclor-1242	< 0.1	0.1 - 1	> 1	0.00013	0.04800
Aroclor-1248	< 0.1	0.1 - 1	> 1	0.00022	0.00092
Aroclor-1254	< 0.1	0.1 - 1	> 1	0.00028	0.00092
Aroclor-1260	< 0.1	0.1 - 1	> 1	0.00026	0.00470
Total Aroclor(SUM)	< 0.1	0.1 - 1	> 1	0.00033	0.05300

ESOPUS #10 - Aroclors

Aroclors	NYS DEC Threshold Value Class A	NYS DEC Threshold Value Class B	NYS DEC Threshold Value Class C	MDL (Units: mg/kg)	Unamended Sediment (Units: mg/kg)
ASI ID #	Soil mg/kg	Soil mg/kg	Soil mg/kg		20230659
Aroclor-1016	< 0.1	0.1 - 1	> 1	0.00028	0.00087
Aroclor-1221	< 0.1	0.1 - 1	> 1	0.00031	0.00087
Aroclor-1232	< 0.1	0.1 - 1	> 1	0.00021	0.00087
Aroclor-1242	< 0.1	0.1 - 1	> 1	0.00013	0.11000
Aroclor-1248	< 0.1	0.1 - 1	> 1	0.00021	0.00087
Aroclor-1254	< 0.1	0.1 - 1	> 1	0.00026	0.00087
Aroclor-1260	< 0.1	0.1 - 1	> 1	0.00025	0.01200
Total Aroclor(SUM)	< 0.1	0.1 - 1	> 1	0.00031	0.12000

ESOPUS #11 - Aroclors

Aroclors	NYS DEC Threshold Value Class A	NYS DEC Threshold Value Class B	NYS DEC Threshold Value Class C	MDL (Units: mg/kg)	Unamended Sediment (Units: mg/kg)
ASI ID #	Soil mg/kg	Soil mg/kg	Soil mg/kg		20230660
Aroclor-1016	< 0.1	0.1 - 1	> 1	0.00031	0.00096
Aroclor-1221	< 0.1	0.1 - 1	> 1	0.00034	0.00096
Aroclor-1232	< 0.1	0.1 - 1	> 1	0.00024	0.00096
Aroclor-1242	< 0.1	0.1 - 1	> 1	0.00014	0.04100
Aroclor-1248	< 0.1	0.1 - 1	> 1	0.00023	0.00096
Aroclor-1254	< 0.1	0.1 - 1	> 1	0.00029	0.02500
Aroclor-1260	< 0.1	0.1 - 1	> 1	0.00027	0.00096
Total Aroclor(SUM)	< 0.1	0.1 - 1	> 1	0.00034	0.06600

ESOPUS #12 - Aroclors

Aroclors	NYS DEC Threshold Value Class A	NYS DEC Threshold Value Class B	NYS DEC Threshold Value Class C	MDL (Units: mg/kg)	Unamended Sediment (Units: mg/kg)
ASI ID #	Soil mg/kg	Soil mg/kg	Soil mg/kg		20230661
Aroclor-1016	< 0.1	0.1 - 1	> 1	0.00030	0.00092
Aroclor-1221	< 0.1	0.1 - 1	> 1	0.00033	0.00092
Aroclor-1232	< 0.1	0.1 - 1	> 1	0.00023	0.00092
Aroclor-1242	< 0.1	0.1 - 1	> 1	0.00013	0.04100
Aroclor-1248	< 0.1	0.1 - 1	> 1	0.00022	0.00092
Aroclor-1254	< 0.1	0.1 - 1	> 1	0.00028	0.01700
Aroclor-1260	< 0.1	0.1 - 1	> 1	0.00026	0.00092
Total Aroclor(SUM)	< 0.1	0.1 - 1	> 1	0.00033	0.05800

ESOPUS #13 - Aroclors

Aroclors	NYS DEC Threshold Value Class A	NYS DEC Threshold Value Class B	NYS DEC Threshold Value Class C	MDL (Units: mg/kg)	Unamended Sediment (Units: mg/kg)
ASI ID #	Soil mg/kg	Soil mg/kg	Soil mg/kg		20230662
Aroclor-1016	< 0.1	0.1 - 1	> 1	0.00031	0.00096
Aroclor-1221	< 0.1	0.1 - 1	> 1	0.00034	0.00096
Aroclor-1232	< 0.1	0.1 - 1	> 1	0.00023	0.00096
Aroclor-1242	< 0.1	0.1 - 1	> 1	0.00014	0.22000
Aroclor-1248	< 0.1	0.1 - 1	> 1	0.00023	0.00096
Aroclor-1254	< 0.1	0.1 - 1	> 1	0.00029	0.05900
Aroclor-1260	< 0.1	0.1 - 1	> 1	0.00027	0.00096
Total Aroclor(SUM)	< 0.1	0.1 - 1	> 1	0.00034	0.28000

ESOPUS #14 - Aroclors

Aroclors	NYS DEC Threshold Value Class A	NYS DEC Threshold Value Class B	NYS DEC Threshold Value Class C	MDL (Units: mg/kg)	Unamended Sediment (Units: mg/kg)
ASI ID #	Soil mg/kg	Soil mg/kg	Soil mg/kg		20230663
Aroclor-1016	< 0.1	0.1 - 1	> 1	0.00021	0.00066
Aroclor-1221	< 0.1	0.1 - 1	> 1	0.00024	0.00066
Aroclor-1232	< 0.1	0.1 - 1	> 1	0.00016	0.00066
Aroclor-1242	< 0.1	0.1 - 1	> 1	0.00010	0.13000
Aroclor-1248	< 0.1	0.1 - 1	> 1	0.00016	0.00066
Aroclor-1254	< 0.1	0.1 - 1	> 1	0.00020	0.00066
Aroclor-1260	< 0.1	0.1 - 1	> 1	0.00019	0.01800
Total Aroclor(SUM)	< 0.1	0.1 - 1	> 1	0.00024	0.15000

							NYSDEC Soil Clean-Up Objectives
	20230694	20230695	20230696	20230697	20230698	Total (PPM)	Unrestricted (PPM)
	Comp A (mg/kg)	Comb B (mg/kg)	Comp C (mg/kg)	Comp D (mg/kg)	Comp E (mg/kg)		
Arsenic	2.1	2.7	2.9	7.5	7.4	4.52	13
Barium	23	39	38	110	120	66	350
Beryllium	0.26	0.34	0.37	0.82	0.89	0.536	7.2
Cadmium	0.13	0.34	0.2	0.87	1.6	0.628	2.5
Chromium, hexavalent	0.53	0.61	0.66	0.89	0.8	0.698	1
Chromium, trivalent	10	16	13	34	52	25	30
Copper	6.6	15	12	35	41	21.92	50
Total cyanide	0.25	0.23	0.31	0.87	0.61	0.454	27
Lead	34	58	23	44	64	44.6	63
Manganese	180	240	360	1100	1100	596	1600
Total mercury	0.028	0.11	0.038	0.12	0.16	0.0912	18
Nickel	14	16	18	28	32	21.6	30
Selenium	0.35	0.14	0.67	0.43	0.42	0.402	3.9
Silver	0.07	0.14	0.13	0.19	0.33	0.172	2
Zinc	47	75	63	130	170	97	109
245 TP Acid Silvex	0.027	0.03	0.033	0.044	0.04	0.0348	3.8
44 dde	0.000055	0.0024	0.00096	0.00055	0.0049	0.001773	0.0033
44 ddt	0.000055	0.0053	0.00026	0.000091	0.00042	0.0012252	0.0033
44 ddd	0.00043	0.0023	0.0003	0.00021	0.00088	0.000824	0.0033
Aldrin	0.000055	0.000063	0.000068	0.000091	0.00042	0.0001394	0.005
Alpha bhc	0.000055	0.000063	0.000068	0.000091	0.00042	0.0001394	0.02
Beta bhc	0.000055	0.000063	0.000068	0.000091	0.00042	0.0001394	0.036
Chlordane alpha	0.000055	0.000063	0.000068	0.000091	0.00042	0.0001394	0.094
Delta bhc	0.000055	0.000063	0.000068	0.000091	0.00042	0.0001394	0.04
Dibenzofuran	0.044	0.14	0.11	0.14	0.13	0.1128	7
Dieldrin	0.000055	0.000063	0.000068	0.000091	0.00042	0.0001394	0.005
Endosulfan	0.000055	0.000063	0.000068	0.000091	0.00042	0.0001394	2.4
Endosulfan II	0.000055	0.000063	0.000068	0.000091	0.00042	0.0001394	2.4
Endosulfan sulfate	0.000055	0.000063	0.000068	0.000091	0.00042	0.0001394	2.4
Endrin	0.000055	0.00087	0.000068	0.00066	0.0025	0.0008306	0.014
Heptachlor	0.000055	0.000063	0.000068	0.000091	0.00042	0.0001394	0.042
Lindane	0.000055	0.000063	0.000068	0.000091	0.00042	0.0001394	0.1
Acenaphthene	0.0043	0.066	0.022	0.029	0.027	0.02966	20
Acenaphthylene	0.0062	0.034	0.0059	0.017	0.0091	0.01444	100
Anthracene	0.017	0.27	0.012	0.024	0.016	0.0678	100
Benz(a)anthracene f	0.058	0.49	0.049	0.077	0.054	0.1456	1
Benzo(a)pyrene	0.046	0.27	0.056	0.097	0.051	0.104	1
Benzo(b)fluoranthene f	0.056	0.37	0.074	0.11	0.069	0.1358	1
Benzo(g,h,i)perylene f	0.038	0.23	0.044	0.069	0.051	0.0864	100
Benzo(k)fluoranthene f	0.018	0.13	0.028	0.04	0.022	0.0476	0.8
Chrysene	0.061	0.48	0.068	0.1	0.071	0.156	1
Dibenz(a,h)anthracene f	0.0097	0.077	0.022	0.02	0.027	0.03114	0.33
Fluoranthene	0.11	1.1	0.11	0.15	0.099	0.3138	100
Fluorene	0.0055	0.11	0.0056	0.012	0.027	0.03202	30
Indeno(1,2,3-cd)pyrene f	0.034	0.21	0.037	0.055	0.035	0.0742	0.5
m-Cresol f	0.044	0.074	0.11	0.14	0.044	0.0824	0.33
Naphthalene f	0.009	0.14	0.022	0.0092	0.027	0.04144	12
o-Cresol f	0.044	0.074	0.11	0.14	0.13	0.0996	0.33
p-Cresol	0.044	0.074	0.11	0.14	0.044	0.0824	0.33
Pentachlorophenol	0.23	0.38	0.56	0.74	0.68	0.518	0.8
Phenanthrene	0.062	1.3	0.043	0.07	0.042	0.3034	100
Phenol	0.044	0.074	0.11	0.14	0.13	0.0996	0.33
Pyrene f	0.1	0.82	0.099	0.14	0.093	0.2504	100
1,1,1-Trichloroethane	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	0.68
1,1-Dichloroethane	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	0.27
1,1-Dichloroethene	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	0.33
1,2-Dichlorobenzene	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	1.1
1,2-Dichloroethane	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	0.02
cis -1,2-Dichloroethene	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	0.25
trans-1,2-Dichloroethene	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	0.19
1,3-Dichlorobenzene	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	2.4
1,4-Dichlorobenzene	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	1.8
1,4-Dioxane	1.3	1.4	1.4	2	1.8	1.58	0.1
Acetone	0.0069	0.035	0.036	0.049	0.045	0.03438	0.05
Benzene	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	0.06
n-Butylbenzene	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	12
Carbon tetrachloride	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	0.76
Chlorobenzene	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	101
Chloroform	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	0.37
Ethylbenzene	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	1
Hexachlorobenzene	0.009	0.015	0.022	0.029	0.027	0.0204	0.33
Methyl ethyl ketone	0.031	0.035	0.036	0.049	0.045	0.0392	0.12
Methyl tert-butyl ether f	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	0.93
Methylene chloride	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	0.05
n - Propylbenzene	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	3.9
Sec-Butylbenzene	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	11
Tert-Butylbenzene	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	5.9
Tetrachloroethene	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	1.3
Toluene	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	0.7
Trichloroethene	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	0.47
1,2,4-Trimethylbenzene f	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	3.6
1,3,5-Trimethylbenzene	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	8.4

							NYSDEC Soil Clean-Up Objectives
	20230694	20230695	20230696	20230697	20230698	Total (PPM)	Unrestricted (PPM)
	Comp A (mg/kg)	Comb B (mg/kg)	Comp C (mg/kg)	Comp D (mg/kg)	Comp E (mg/kg)		
Vinyl chloride	0.0063	0.0071	0.0071	0.0098	0.0089	0.00784	0.02
Xylene (mixed)	0.013	0.014	0.014	0.02	0.018	0.0158	0.26