NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
Site Classification Report

DATE: 4/25/2012

Site Code: 738033 **Site Name:** Oswego Castings
City: Oswego **Town:** Oswego (c)
Region: 7 **County:** Oswego
Current Classification: 02 **Proposed Classification:** 04
Estimated Size (acres): 10.00 **Disposal Area:** Structure
Significant Threat: Previously **Site Type:**
Priority ranking Score: **Project Manager:** Payson Long

Summary of Approvals

Originator/Supervisor: Susan Edwards **02/14/2012**

RHWRE: Harry Warner:

BEEI of NYSDOH: **02/17/2012**

CO Bureau Director: Michael Cruden, Director, Remedial Bureau E: **02/14/2012**

Assistant Division Director: Robert W. Schick, P.E.: **04/02/2012**

Basis for Classification Change

Hazardous waste disposal at this site was addressed by implementation of the remedy identified for the site by one or more Records of Decision. All construction of the components of the site-wide remedy was completed no later than 2000. The Final Engineering Report(s) (FER) (or its equivalent) confirms that the remedy has been constructed consistent with the requirements in the ROD(s). The FER(s) (or its equivalent) is/are in edocs. Management of contamination remaining at the site, including any required monitoring, is and has been controlled pursuant to a Site Management Plan (SMP) (or its equivalent). A copy of the SMP (or its equivalent) is in edocs. Institutional controls were required to ensure the protectiveness of the site. The required control, in the form of an Environmental Notice, is in place. A significant threat to public health and the environment no longer exists at the site. The site is properly remediated and requires site management, therefore, it qualifies for Class 4 status on the Registry of Inactive Hazardous Waste disposal sites.

Site Description - Last Review: 01/17/2012

Location: The Oswego Castings Site is located on Mitchell Street in the City of Oswego, Oswego County, New York.

Site Features: The site occupies approximately 10 acres of the 23 acres formerly owned by B and K Metals, Inc. The property includes three former manufacturing buildings: a 29,110 square foot main foundry building and two smaller outbuildings. In addition, a saw mill has been constructed in a portion of the main building.

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The facility's former cooling water pond is located west of the buildings. Beyond the areas described above, approximately 13 acres of the parcel are wooded, and have no history of manufacturing or disposal activity.

Current Zoning/Use(s): The land where the site is located is presently zoned industrial, as is the area immediately surrounding the site. The area surrounding the site is sparsely populated. Residential properties are located to the south across Mitchell Street. NYSDEC regulated wetlands are located north and west of the site. Lake Ontario is located approximately one half mile north of the site. In addition, the Pollution Abatement Services (PAS) site, a class 4 inactive hazardous waste disposal site (Site No. 7-38-001) and the Niagara Mohawk Fire Training School site (Site No. 7-38-030), a class C (delisted) inactive hazardous waste disposal site, are both located southwest of the site on East Seneca Street.

Historical Use(s): Oswego Castings, Inc., a subsidiary of Oberdorfer Foundries, Inc., operated an aluminum die casting facility at the Site from 1956 to 1986, after which time foundry operations were discontinued and the equipment removed. PCB contaminated core sands and foundry waste were disposed of behind the manufacturing buildings during the operation of the foundry. In addition, PCBs were present in waste water discharged to a process line/septic tank discharge line. It is believed that the PCBs were introduced into the process from leaks in hydraulic equipment and from binders or coatings applied to core sand surfaces. PCBs also appear to have been deposited on the roof of the foundry building by roof mounted blowers.

After the facility closed, PCBs were detected on the Site during an environmental assessment conducted by a prospective purchaser. To further investigate the environmental conditions of the Site, Oberdorfer began a sampling and analysis program in June of 1988. During that time PCBs were detected in the landfill materials, surface water, sediments, and surface soils. Because of the presence of PCBs above the hazardous waste classification of 50 ppm, and the significant threat to public health and the environment resulting from this disposal, the facility was designated as a Class 2 Inactive Hazardous Waste Site in June of 1989.

In July of 1993, B and K Metals (formerly known as Oberdorfer Foundries) entered into an Order on Consent with the NYSDEC for implementation of a Remedial Investigation/Feasibility Study (RI/FS). The RI was performed on behalf of B and K Metals by Stearns and Wheeler from July 1993 to February 1996. In 1997, a Recrod of Decision was issued for operable unit 1 (OU-1) which called for the excavation of 4,100 cy of soil and sediment, excavation of foundry sands, excavation of wetland sediments, removal of the septic tank and placement of crushed stone over the landfill. In March 2000 a ROD for OU-2 required constrruction of a concrete pad over the yard area ans floor of the saw mill.

Site Geology and Hydrogeology: Native overburden soils on the site are primarily unconsolidated glacial sediments or till. The permeability, or ability to transport water, is low in these materials and higher in the landfill materials. Groundwater occurs at shallow depths across the site, and was observed to vary from ground surface to 3 to 4 feet below ground surface. During the construction phase of the OU-1 remedy evidence that water had been in contact with the soil (mottling) was noted in the landfill at depths of 1 to 4 feet but no groundwater was observed unitl a depth of 8 feet. It appears that the shallow groundwater in the fill material was the result of storm water soaking the soil in the poorly drained landfill area during the wet season. Run-off from the land to the south is diverted away from the site to the west. Only the storm water which falls in the yard area would be able to flow into the impacted soil. While a seasonal perched water table was documented in the fill material, no significant groundwater flow from the water table within the till,

upward, into or through the impacted soil is expected.

Based on groundwater elevation data, the local groundwater flow is from the south and north, with convergence towards the landfill area. From there, discharge is to the east into the wetland, where the ground elevation is about 7 feet lower than the surface of the core sand disposal area. The groundwater in the area in general is of low volume and flow, with the natural water table subject to the regional flow pattern toward Lake Ontario.

Contaminants of Concern (Including Materials Disposed)	**Quantity Disposed**	
OU 00		
PCB-AROCLOR 1248	0.00	lb
PCB-AROCLOR 1254	0.00	lb
PCB-AROCLOR 1248	0.00	lb
PCB-AROCLOR 1254	0.00	lb
OU 01		
PCB-AROCLOR 1248	0.00	

Analytical Data Available for : Surface Water, Soil, Sediment

Applicable Standards Exceeded for: Drinking Water

Site Environmental Assessment- Last Review: 01/17/2012

Nature and Extent of Contamination:

Prior to remediation: The purpose of the RI was to define the nature and extent of any contamination resulting from previous activities at the site. The RI was performed in 1994-95 and included the following activities: Site survey; soil and waste test pit investigation; sediment sampling; groundwater monitoring; septic tank investigation; and fish and wildlife impact analysis.

Groundwater: Groundwater samples from monitoring wells located within and northeast of the core sand area indicated that the PCBs in soils were migrating to the groundwater. Four wells located in the vicinity of the core sand disposal area contained PCBs above the groundwater standard of 0.1 ppb and levels ranged from less than 0.05 ppb to 4.6 ppb. A single well located in the wetland area down gradient from the outfall contained PCBs at 11 ppb. Two wells located in the vicinity of the septic tank also show impacts to groundwater. The well located down gradient of the tank contained PCBs at 1.2 ppb; the other well, located up gradient of the tank, contained total VOCs up to 217 ppb, but no PCBs.

Soils: PCBs were detected in surface soils surrounding the landfill area. Surface soils in this area contain PCBs, from less than 1 ppm to 800 ppm, with impacted soils extending up to 150 feet from the core sand disposal area. Two locations in the proximity of the former manufacturing building were also impacted by PCBs: the west gate area and the loading dock area. In the west gate area, PCBs were detected in surface soils from 20 ppm to 740 ppm. In addition, a NYSDEC sample detected PCBs at 1900 ppm in sample SS-217. In the loading dock area, PCBs were detected in surface soils from 0.51 ppm to 20 ppm. Contamination in these areas probably occurred from spills and was limited to surface soils.

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Surface Water and Sediment: PCBs were not detected in surface water from the cooling water pond above the detection level of 0.5 ppb, however, this detection level is above the surface water standard of 0.001 ppb. Surface water samples were not collected from the wetland area adjacent to the site because of the lack of sufficient water depth.
Elevated levels of PCBs, as related to the NYSDEC Sediment Criteria Guidance, were identified in the sediments in the wetland. Concentrations ranged from 280 ppm near the process line/septic line outfall, to 0.68 ppm at the furthest downstream sample location about 300 feet from the outfall. Two samples collected near the outfall each to a depth of 1 foot indicated that PCB contamination was limited to surface sediments (0-12"). A small drainage swale runs from the loading dock area into the wetland. PCBs were detected in the drainage swale at concentrations up to 160 ppm. It was estimated that there was a total of 1000 cubic yards of contaminated sediments in the wetland and drainage swale containing PCBs from 1 ppm to 280 ppm, assuming a 1 foot contaminant depth.
Sediments from the cooling water pond located northeast of the main building were sampled in 1988 and in 1990 as part of the pre-RI investigations. In these samples PCB levels range from non-detect to 24 ppm. Two sediment samples were collected during the RI of the pond sediments and pond outlet sediments with PCB detections of 0.61 ppm and 0.14 ppm respectively. The maximum estimated volume of potentially contaminated pond sediments was 200 cubic yards assuming a 6 inch depth.

Septic Tank: A former process line exited from the main foundry building which formerly discharged into the wetland to the east of the landfill. Another line exited the building into a 3000 gallon underground septic tank. The outlet from this tank connected into the process line as it discharged to the wetland. The sludge present in the septic tank was sampled during the RI and contained PCBs at 1700 ppm and total VOCs at 464 ppm.

Waste Materials: Waste materials on the site consisted of the core sands and foundry wastes within the landfill. The depth of these materials ranged from 1 foot to 5 feet below ground surface, making up a volume of approximately 1500 cubic yards. The core sand materials contained relatively high levels of PCBs with levels detected from 190 ppm to 1,200 ppm. VOCs and semi-VOCs were also detected in the core sand materials, but at relatively low levels with maximum detections of 0.058 ppm and 2.7 ppm, respectively. Several inorganic constituents were detected above NYSDEC SCGs. These included aluminum (8,620 ppm to 223,000 ppm), chromium (23.2 ppm to 30 ppm) and copper (654 ppm to 1,660 ppm).
The majority of the landfill consisted of miscellaneous foundry wastes. These materials primarily consisted of brown sandy fill with areas of miscellaneous debris, encountered to a maximum depth of approximately 7 feet. The foundry wastes made up a volume of approximately 5,600 cubic yards. PCBs were present in this material, but at lower levels than the core sand waste, with levels ranging from < 1 ppm to 140 ppm. However, the majority of this material contained PCBs below 1 ppm, with PCBs present at greater than 10 ppm in only about 500 cubic yards. Combining the core sand and foundry wastes, the total volume of landfill materials with PCBs above 10 ppm was approximately 2,000 cubic yards.

Post-Remediation: The readily removable materials have been excavated and disposed off site. The remaining contaminated soil in the yard area and under the buildings has been contained beneath a concrete pad. Contaminated sediment in the ponds and contiguous wetland areas have been consolidated into the former casting water pond and covered.

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Higher concentrations of PCB's remain under the site building near the saw mill and concrete pad. Several groundwater wells on the site continue to show PCB concentrations above NYSDEC groundwater standards. Currently there is an Environmental Notice in place for the site. The EN indicates that there are restrictions on the use of groundwater and use or excavation of soil at the site. Long term monitoring of the engineering controls is ongoing.

Site Health Assessment - Last Update: 08/08/2007

Exposures are not expected because, after some contaminated soils and sediments were removed from the site, capping and institutional controls will prevent access to residual soil contamination. Annual certification of the maintenance of the integrity of the concrete cap is required. In addition, contaminated interior surfaces in the manufacturing plant and the flat roof of the main building were remediated. Although site access is not restricted by fencing, trespassing is not likely due to the active status of industrial activity on the site.

	Start		End	
OU 00				
OGC Docket - Environmental Easement	1/28/11	ACT	7/28/11	TRM
OGC Docket - Environmental Notice	11/28/11	ACT	5/28/12	PLN
Periodic Review	12/4/08	ACT	5/19/11	ACT
Site Management	3/31/00	ACT	3/31/76	PLN
Site Management	1/1/01	ACT	1/2/05	ACT
OU 01				
OGC Docket - Other	4/1/06	ACT	3/31/08	TRM
Reclass Pkg.	1/11/12	ACT	4/25/12	ACT
Remedial Action	7/1/98	ACT	10/1/98	ACT
Remedial Design	3/1/97	ACT	1/1/98	ACT
Remedial Investigation	7/1/93	ACT	3/1/97	ACT
OU 01B				
Remedial Action	1/1/97	ACT	2/1/97	ACT
Remedial Design	9/1/96	ACT	10/1/96	ACT
OU 02				
Remedial Action	7/16/01	ACT	11/28/01	ACT
Remedial Design	3/30/00	ACT	3/9/01	ACT
Remedial Investigation	5/1/99	ACT	3/31/00	ACT
OU 02A				
Remedial Action	3/31/00	ACT	4/17/00	ACT
Remedial Design	11/1/99	ACT	12/31/99	ACT

Remedy Description and Cost

Remedy Description for Operable Unit 01

OU-1 ROD -March 1997:

- Excavation of 4,100 cubic yards of soils and sediments.
- Excavation of surface and subsurface soils and foundry wastes from the core sand disposal area for off-site disposal.

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- Excavation of wetland sediments for off-site disposal.
- Removal of septic tank and tank contents for off-site disposal.
- Installation of a crushed stone cover over the landfill area.

Remedy was completed in October 1998

Total Cost $350,000

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Remedy Description for Operable Unit 01A

Removal of septic tank.

Total Cost

DATE: 4/25/2012

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Remedy Description for Operable Unit 01B

300 to 600 cubic yards of soil contaminated with PCB's was excavated from the west gate and loading dock areas followed by temporary staging of the soil on site. Soils from this IRM were addressed as part of the final remedy.

Total Cost $25,000

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Remedy Description for Operable Unit 02

OU-2 Yard and Building - March 2000: - The construction portion of the remedy was completed in Novemebr 2001 and consited of the construction of a 6-inch thick reinforced concrete pad, the lining of a wetland. The imposition of a deed restriction was unable to be attained to restrict the concrete pad and the floor of the saw mill. In November 2011, an environmental notice was filed
1. limiting the use to industrial and commercial only.
2. preventing the owners from tampering with the remedial action.
3. preventing the owner from using the groundwater
4. granting access to the Department and its' agents for purposes of maintaining the remedy.

Total Cost $350,000

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Remedy Description for Operable Unit 02A

Residual PCB contamination has been discovered in the cooling pond waters, on the roof of the main plant building and in soils beeneath the saw mill plant building. Roof materials (stone) will be removed, the surface sealed, and new stone placed as an IRM. This should address low land discharge via the roof drains to the cooling water pond. Contaminated soils will be excavated and disposal off-site.

Total Cost

OU 00	**Site Management Plan Approval: 03/31/2000**	**Status: ACT**

OU 00	**Site Management Plan Approval: 01/01/2001**	**Status: ACT**

DATE: 4/25/2012

Site Code: 738033 **Site Name:** Oswego Castings

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Form
4/25/2012

SITE DESCRIPTION

SITE NO. 738033

SITE NAME Oswego Castings

SITE ADDRESS: Mitchell Street ZIP CODE: 13126

CITY/TOWN: Oswego

COUNTY: Oswego

ALLOWABLE USE:

SITE MANAGEMENT DESCRIPTION

SITE MANAGEMENT PLAN INCLUDES:	YES	NO
IC/EC Certification Plan	▣	□
Monitoring Plan Operation and Maintenance (O&M) Plan	▣	□
	□	▣

Periodic Review Frequency: once a year

Periodic Review Report Submittal Date:

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Site Classification Report

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Description of Institutional Control

OBERDORFER FOUNDRIES, INC
PO BOX 4811
0375 MITCHELL ST
Deed Restriction
Block: 0001
Lot: 001
Sublot: 000
Section: 111
Subsection: 069
S_B_L Image: 11106900010010000000
Unspecified

Environmental Notice
Block: 0001
Lot: 001
Sublot: 000
Section: 111
Subsection: 069
S_B_L Image: 11106900010010000000
IC/EC Plan
Monitoring Plan
Site Management Plan

Description of Engineering Control

OBERDORFER FOUNDRIES, INC
PO BOX 4811
0375 MITCHELL ST
Environmental Notice - Institutional Control Instrument
Block: 0001
Lot: 001
Sublot: 000
Section: 111
Subsection: 069
S_B_L Image: 11106900010010000000
Cover System

NEW YORK
state department of
HEALTH

Nirav R. Shah, M.D., M.P.H.
Commissioner

Sue Kelly
Executive Deputy Commissioner

February 17, 2012

Mr. Michael Cruden
Division of Environmental Remediation
NYS Dept. of Environmental Conservation
625 Broadway – 12th Floor
Albany, NY 12233-7011

Re: Site Classification Report
Oswego Castings Site #738033
Oswego (T), Oswego County

Dear Mr. Cruden:

Staff reviewed the Classification Package for the Oswego Castings site located in the town of Oswego, Oswego County. Remedial measures completed at the site include the excavation and removal of approximately 4,100 cubic yards of contaminated soil, foundry sands, wetland sediments, and a 3,000 gallon underground septic tank. The remaining contaminated soil in the yard area and under the buildings on-site has been capped with a concrete pad to prevent contact.

Potential exposure to residual groundwater contamination is being handled through site management, which consists of long-term groundwater monitoring that will continue until the groundwater quality meets drinking water standards. Restrictions are also in place to prohibit excavation of soil at the site. The use of the site will be limited to industrial or commercial purposes only.

Based on this information, I concur with the recommendation to reclassify the Oswego Castings site from a Class 2 to a Class 4 site on the Registry of Inactive Hazardous Waste Disposal sites.

If you have any questions, please contact me at 518-402-7860.

Sincerely,

Steven Bates, Acting Director
Bureau of Environmental Exposure Investigation

ec: A. Salame-Alfie, Ph.D.
K. Anders/G. Laccetti/file
J. Strepelis - CRO
N. Roy - OCHD
K. Lewandowski – NYSDEC
S. Edwards/P. Long - NYSDEC
H. Warner - NYSDEC Region 7

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Oswego Castings
Site No. 738033
Mitchell Street
Oswego County, NY
Tax Map: 111.69-01-01.000

ENVIRONMENTAL NOTICE

THIS ENVIRONMENTAL NOTICE is made the 22nd day of November 2011, by the New York State Department of Environmental Conservation (Department), having an office for the transaction of business at 625 Broadway, Albany, New York 12233.

WHEREAS, that parcel of real property located at the address of 375 Mitchell Street in the City of Oswego County of Oswego and State of New York, known and designated on the tax map of the County Clerk of Oswego as tax map parcel numbers: Section 69 Block 1 Lot 01, from Great Lakes Veneer Corp, the property being more particularly described in the metes and bounds and tax map and attached hereto as Appendix "A" to this notice and made a part hereof, and hereinafter referred to as "the Property" and is the subject of a remedial program performed by the Department; and

WHEREAS, the Department approved a cleanup to address contamination disposed at the Property and such cleanup was conditioned upon certain limitations.

NOW, THEREFORE, the Department provides notice that:

FIRST, the part of lands subject to this Environmental Notice is as shown on a map attached to this Notice as Appendix "B" and made a part hereof.

SECOND, unless prior written approval by the Department or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as "the Relevant Agency," is first obtained, where contamination remains at the Property subject to the provisions of the Operation and Maintenance ("O&M"), Plan there shall be no disturbance or excavation of the Property which threatens the integrity of the engineering controls or which results or may result in a significantly increased threat of harm or damage at any site as a result of exposure to soils. A violation of this provision is a violation of 6 NYCRR 375-1.1 1(b)(2).

THIRD, no person shall disturb, remove, or otherwise interfere with the installation, use, operation, and maintenance of engineering controls required for the Remedy, including but not limited to those engineering controls described in the O&M Plan and listed below, unless in each instance they first obtain a written waiver of such prohibition from the Department or Relevant Agency.

FOURTH, the remedy was designed to be protective for Commercial or Industrial uses. Therefore, any use for purposes other than Commercial or Industrial uses without the express written waiver of such prohibition by the Relevant Agency may result in a significantly increased threat of harm or damage at the site.

FIFTH, no person shall use the groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from the Department or Relevant Agency. Use of the groundwater without appropriate treatment may result in a significantly increased threat of harm or damage at the site.

SIXTH, it is a violation of 6 NYCRR 375-1.11(b) to use the Property in a manner inconsistent with this environmental notice.

IN WITNESS WHEREOF, the undersigned has executed this instrument the day written below.

By: _____
Dale A. Desnoyers, Director
Division of Environmental Remediation

STATE OF NEW YORK) ss:
COUNTY OF ALBANY)

On the 22nd day of November, in the year 2011, before me, Dale A. Desnoyers, the undersigned, personally appeared, and is personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public – State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 20__

Oswego Castings
Site No.: 738033
Mitchell Street
Oswego County, NY
Tax Map: 111.69 -01 -01.000

APPENDIX A
METES AND BOUNDS DESCRIPTION

METES AND BOUNDS DESCRIPTION

ALL THAT CERTAIN PLOT, tract or parcel of land situate in Lot 35 of the 18th Township of Scriba's Patent in the second ward of the City of Oswego, County of Oswego, and State of New York, being more particularly bounded as follows:

BEGINNING at a point in the centerline of E. Seneca Street at the intersection of said centerline with an Easterly Corporation Line of the City of Oswego; running thence the following courses and distances:

1) Along the centerline of E. Seneca Street, South 58°-20' West a distance of 282.0 feet to a point in the centerline of Mitchell Street, thence

2) Along the same, South 28°-13' West a distance of 551.82 feet along the centerline of Mitchell Street to an angle point, thence

3) Along the same, South 88°- 48' West a distance of 250.0 feet along the centerline of Mitchell street to a point, thence

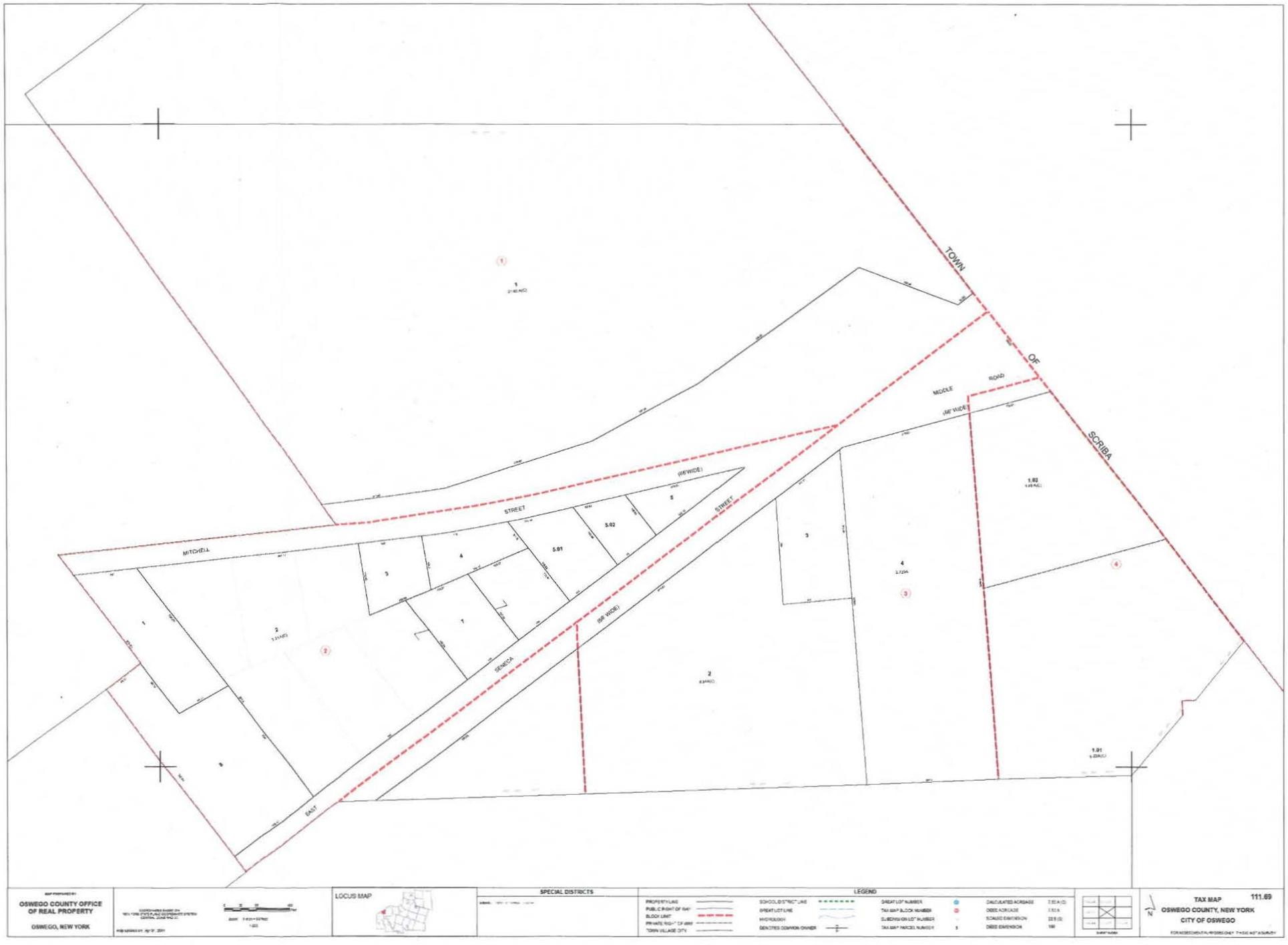
4) Along the same, North 32°- 0' West a distance of 777.0 feet to a point, thence

5) Along the same, North 58°- 0' East a distance of 1000.0 feet to a point in an easterly Corporation Line of the City of Oswego, thence

6) Along the same, South 32°- 0' East a distance of 1133.0 feet along an Easterly Corporation Line of the City of Oswego to a point in the centerline of Seneca Street and the point of beginning.

Containing 23.2389 acres of land more or less inclusive of the highway.

APPENDIX "B" TAX MAP
Oswego Castings, Site No. 738033



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