PERIODIC REVIEW REPORT

Oswego Castings
Site 7-38-033

State Superfund
New York State
Department of Environmental Conservation

625 Broadway
Albany, New York 12233

Prepared by:

Payson Long, Project Manager

April 2011

Table of Content

1.0 EXECUTIVE SUMMARY

SITE HISTORY and REMEDIAL PROGRAM

The Oswego Casting Site is located in the town of Oswego, Oswego County, New York (Appendix A). The Oswego Casting site was responsible for discharges of PCB contaminated waste oil and on-site disposal through accidental spills or poor waste management led to the contamination of soil and groundwater. A Record of Decision (ROD) Operable Unit (OU) 1was issued for the site on March 28, 1997 and OU-2 was issued for the site on March 30, 2000. The selected remedy for OU-1 consisted of: Excavation of 4,100 Cubic Yards of soils and sediments. The selected remedy for OU-2 consisted of: The construction of a 6inch thick reinforced Concrete pad, the lining of a wetland, and the imposition of deed restriction on the concrete pad and the floor of the saw mill.
Conducting this Periodic Review Report (PRR) has lead to the determination that the site requires additional maintenance and investigation to return to compliance with the requirements as presented in the ROD and DER-10.

REMEDY EVALUATION

- Concrete cap –Intact
- Groundwater monitoring-Sampled in 2008 and is scheduled to be sampled in 2011 (a more regular sampling schedule needs to be implemented)
- Institutional controls-need to be implemented but the intent is being meet
- Site Management Plan-needs to be created

2.0 SITE OVERVIEW

The Oswego Castings Site, Site No. 7-38-033, is located on Mitchell Street in the City of Oswego, Oswego County, New York as shown on Figure 1. The Oswego Casting site is currently a Class 2 inactive hazardous waste disposal site. The site occupies approximately 10 acres of the 23 acres formerly owned by B&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. The area that remains contaminated is directly behind (north of) the foundry building, including the yard area between the outbuildings and the area beneath the sawmill in the main building. Also requiring remediation is the facility's former cooling water pond, located west of the buildings. Beyond the areas described above, approximately 13 acres of the Site are wooded, and have no history of manufacturing or disposal activity. The remaining lands, approximately 8.5 acres, the former landfill area is bounded on the east by a wetland. An abandoned 4 inch diameter pipe, which appears to have discharged process related water, exited from the manufacturing building and discharged into the wetland area. In addition, another line exited the building to an underground septic tank which in turn discharged into the process line to the wetland. The facility's former cooling water pond is located to the west of the developed area. These areas are identified on Appendix B.

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 2 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 inactive hazardous waste disposal site are both located southwest of the site on East Seneca Street.

2.1 OBJECTIVES OF THE PERIODIC REVIEW

The periodic review process is used for determining if a remedy continues to be properly managed, as set forth in the Site Management Plan (SMP). The objectives of the periodic review (PR) for sites in the State Superfund Program (SSP) are as follows:

- Determine if the remedy remains in place, is performing properly and effectively, and is protective of public health and the environment;
- Evaluate compliance with the decision document(s) and, if available, the SMP;
- Evaluate all treatment units, and recommend repairs or changes, if necessary;
- Evaluate the condition of the remedy;
- Certify, if appropriate, that the intent of institutional controls (IC) continues to be met, and that engineering controls (EC) remain in place, are effective and protective of public health and the environment; and,
- Evaluate costs.

2.2 Operational/Disposal History

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. Before they were banned in 1977, PCBs were used in high temperature hydraulic fluids and casting agents because of their desirable heat resistant properties.

2.3 Remedial History

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&K Metals (formerly known as Oberdorfer Foundries) entered into an Order on Consent with the NYSDEC for implementation of an *RI/FS.* The RI was performed on behalf of B&K Metals by Stearns and Wheler from July 1993 to February 1996.

Subsequent to completion of the RI, B&K Metals presented financial evidence that it was a non-operating corporation with limited and diminishing assets, which prevented it from completing its full obligations under the RI/FS order. At the same time, B&K presented to the NYSDEC a potential site purchaser with interest in a purchase of the Site under the State's Voluntary Cleanup Program. B&K Metals and the Potential Site Purchaser then agreed to perform certain site Interim Remedial Measures (IRMs) from B&K's sale proceeds from the sale of the Site to the Potential Purchaser. In October of1996, B&K Metals entered into a second Order on Consent with the NYSDEC which terminated its obligations under the RI/FS Order, allowed for the completion of the IRMs, allowed for partial recovery of the NYSDEC's response costs, and released it from further liability for this Site. IRMs completed as part of this agreement included moving 240 cubic yards of soil from the west gate and 150 cubic yards of soil from the loading dock area to the landfill area, to be addressed during the remediation of that area. The NYSDEC then assumed responsibility for implementation of the FS pursuant to a referral to the State Superfund. A FS Report was completed in February 1997. Based upon the results of the FS, the NYSDEC selected excavation with off-site land disposal as the preferred remediation option, as indicated in the Record of Decision (ROD) completed in March 1997. NYSDEC prepared the contract documents, publicly bid the contract, and awarded the remediation contract to the low bidder, Site Remediation Services (SRS). The notice to proceed was issued on July 15, 1998. The following work included under this contract, was completed in the fall of 1998, and is shown on Appendix B:

- Excavation of surface and subsurface soils and foundry wastes from the core sand disposal area for off-site disposal.
- 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.

During the excavation of the landfill area, testing showed more contaminated soil than anticipated. Two change orders authorized SRS to perform additional work including excavation, disposal, testing, and backfill as a result of expanding the excavation south and east, as well as increased depth of excavation. During construction, PCBs in the water in the cooling water pond were above the established discharge levels for the project. Since the contractor was not prepared to treat the entire volume of the pond water, remediation of the pond was therefore deferred to Operational Unit No. 2.

Per IGP-8 site closure will be considered, when;

- Monitoring results demonstrate contaminant concentrations along the centerline of the plume have sufficiently decreased,
- The contaminant plume length has been demonstrated to be stable or shrinking; and,
- Contaminant levels in the sentinel wells have not exceeded groundwater cleanup levels at any time during the monitoring program.

3.0 EVALUATE REMEDY PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS

3.1 OPERATION AND MAINTENANCE PLAN COMPLIANCE REPORT

3.1.1 O&M Plan Compliance Report

This site inspection is consistent with the unwritten O&M plan. According to DER-10 the O&M plan needs to be updated to a Site Management Plan (SMP). The SMP will contain all the component of the O&M plan with the additional sections of the Long Term Monitoring Plan (LTM) and the IC/EC Plan.

3.1.2 Evaluation of O&M Activities

On June 24, 2008 a crew from DEC from DER was on-site conducting Groundwater monitoring as well as a site inspection. The crew consisted of Payson Long, project manager; Carl Hoffman; Gerald Pratt; and Ian Smith, seasonal intern.

The site inspection consisted of inspecting the concrete slab located immediately adjacent to the north of the main building and the gravel area located immediately adjacent to the north of the concrete slab.

Pictures of the inspection are located in appendix E.

The concrete slab showed normal wear. It is generally considered to be acceptable. Minor cracking was noted and needs to be monitored. It was also noted that the expansion joint caulk was wearing and should be monitored for further deterioration.

In the gravel area the gravel cover was noted to be thin. The thinning of the gravel cover was to the point where the synthetic liner was exposed to the surface. The maintaining of the synthetic liner is critical due to the liners breakdown with the exposure to ultraviolet light. The exposed areas of the synthetic liner need to be re-filled and re-graded with gravel with fines compacted in three lifts to the depth of one foot. The gravel was removed by the current occupant and the heavy truck and machine traffic. The restoration of the gravel cover was completed by NYS DEC via callout contractor. A photo report of the regarding activities is in appendix D The current occupant, Great Lake Veneer Company will be informed that any further damage to the remedy will be their responsibility.

3.2 MONITORING PLAN COMPLIANCE REPORT

3.2.1 Confirm Compliance with Monitoring Plan

The unwritten monitoring plan consists of bi-annual groundwater monitoring event and a site inspection to be completed at the time of the monitoring event. This is insufficient. A Site Management Plan (SMP) needs to be developed detailing the Groundwater monitoring periodicity, parameters, and instructions. The SMP also needs to detail the laboratory analysis and method for determining the effectiveness of the remedy.

3.2.2 Confirm that Performance Standards are being met

On June 24, 2008 a crew from DEC from DER was on-site conducting Groundwater monitoring as well as a site inspection under the current plan. The crew consisted of Payson Long, Project Manager; Carl Hoffman, Gerald Pratt, and Ian Smith, Seasonal Intern.

The monitoring wells were sampled in accordance with the O&M plan and were consistent with DER-10. The procedure for the collection of the Groundwater sample was as follows:

The initial water level was measured as well as the total depth of the monitoring well. The volume of the water column in gallons was calculated via equation 3-1. The volume was then multiplied by 3 and the total purge volume was recorded.

Equation 3-1: $$V_{(Gal)} = \left(\frac{\pi d_{(ft)}^2}{4} \right) \left(TD_{(ft)} - DTW_{(ft)} \right) \left(7.480519 \, {gal}/{ft^3} \right)$$

The well was pumped using a whale pump and dedicated tubing. A 5gallon bucket was use to measure the purge water volume. The purge water was disposed on-site within the aquifer. Once the calculated volume of purge water was exceeded, the flow of the whale pump was restricted and two 1000 ml Ambers were collected.

Sampling results are in Appendix C

3.3 IC/EC CERTIFICATION PLAN REPORT

3.3.1 IC/EC Requirements and Compliance

Currently no institutional controls are in-place. DEC is currently in negotiations with the site owner to place the ICs on the site. A memo requesting Office of general consul is located in Appendix F. Since there is currently no ICs in-place at the site, this PRR may not be certified. However, a check of the intent that the ICs are being met can be checked.

The engineering controls were put in-place as per the ROD. However due to the industrial use of the site the Remedy is being degraded. The current site occupants are utilizing the site in a manner that the remedy needs to be upgraded. If after the remedial upgrades are complete and the site occupants are still causing damage to the remedy the will be held accountable.

Site work to re-grade the lot and drilling of additional wells has been completed May 14-16, 2010. This work will bring the PRR into compliance.

A Groundwater Sampling event has been scheduled for the second quarter 2011.

3.3.2 IC/EC Certification Forms

See Appendix G

4.0 EVALUATE COSTS

4.1 SUMMARY OF COSTS

Year	Month	Contractor Aztech		Laboratory Adirondack		Monthly Total
		Payment	CAP Number	Payment	CAP Number	
2010	March	$314.45	8			$314.45
	April					
	May	$166.51	13			$133.51
	June	$42,517.80	16	$141.91	24	$42,659.71
	July	$63.51	20			$63.51
	August	$142.72	22			$142.72
	September	$353.91	25			$353.91
Total		$43558.90		141.91	Grand Total	$43,700.81

5.0 CONCLUSIONS AND RECOMMENDATIONS

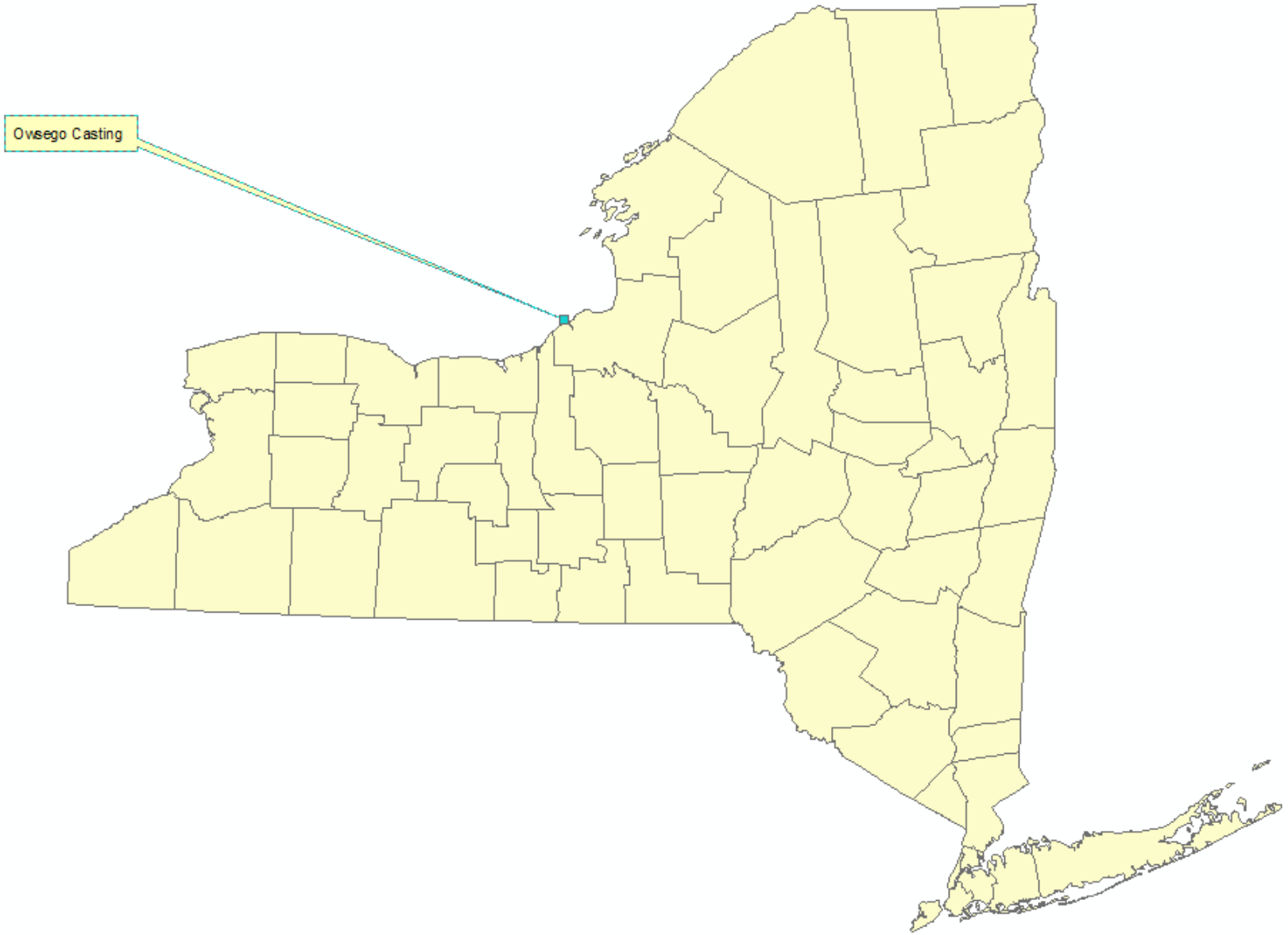
5.1 CONCLUSIONS

The Site remedial actions are protective of human health and the environment.

5.2 RECOMMENDATIONS

Continue sampling Groundwater on a five-Quarter basis. An annual inspect the concrete cap must occur. A Site Management Plan Needs to be created for this site. Institutional Controls need to be implemented for this site. Once these two components are in place the site may be reclassified from a 2 to 4.

Appendix A


Owsego Casting

Appendix B

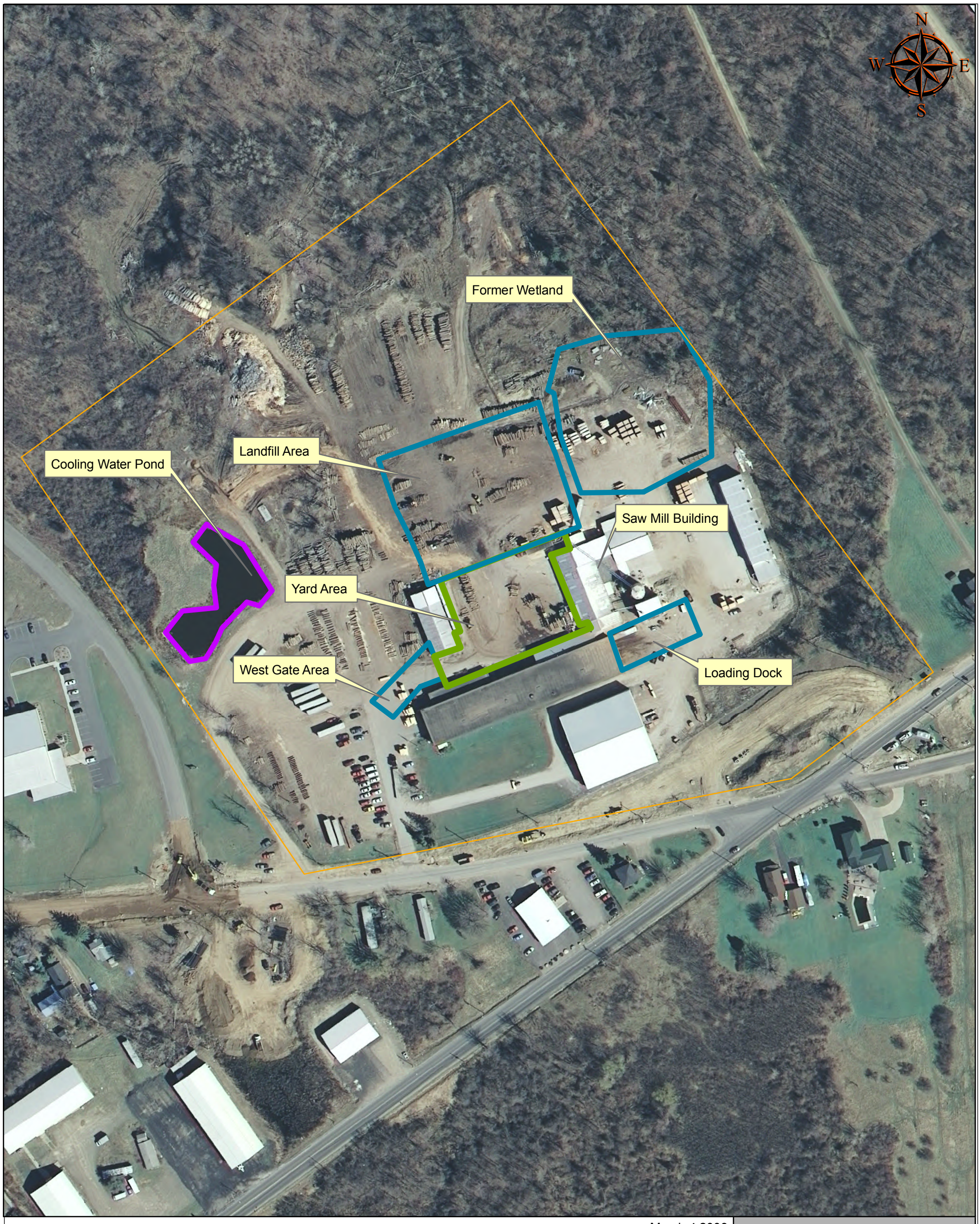


Figure 2

Oswego Casting Site

Site Number 7-38-033

Site Inspection conducted June 24, 2008

37 Mitchell Street
Owsego, NY 13126

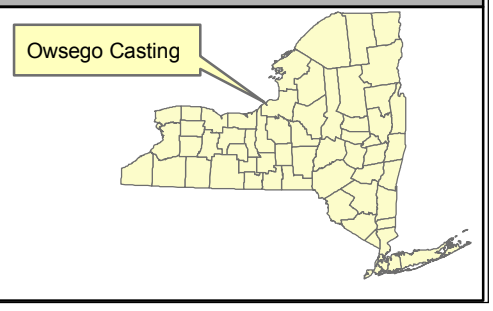
March 4,2009

0 75 150 300 450 600 Feet

C:\Documents and Settings\pdlong\My Documents\GIS Projects\Oswego Casting.mxd

Legend

- Excavation Work Completed for Operable Unit 1
- Concrete Pad Area Completed for Operable Unit 2
- Cooling Water Pond Excavated During Operable Unit 2
- Site Boundary



Appendix C

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau A
625 Broadway, 11th Floor
Albany, New York 12233-7015
Phone: (518) 402-9625 • **Fax:** (518) 402-9020 / (518) 402-9627
Website: www.dec.ny.gov

Alexander B. Grannis
Commissioner

Division of Environmental Remediation Laboratory
Analytical Report

The case narrative and analytical reports - PCB's - for the Oswego Castings site are attached.

Case Narrative

Site Name: Oswego Castings Date received: 07/25/08

For sample delivery group(s): 207-01

All QA/QC associated with this sample delivery group were within acceptable method criteria.

PCB's By AROCLORS ORGANICS ANALYSIS DATA SHEET

Site Name: Oswego Castings
Field ID No.: MW-1

Site Code: 738033
SDG No.: 207-01

Matrix: (soil/water) Water
Lab Sample ID: 708-207-001

Sample wt/vol: 1000 (g/ml)
Lab File ID: 08F0898.D

% Moisture: NA decanted:(Y/N)
Date Received: 07/25/08

Extraction: (SepF/Cont/Sonc/ASE) SepF
Date Extracted: 07/31/08

Concentrated Extract Volume: 1000 (uL)
Date Analyzed: 07/31/08

Injection Volume: 2 (uL)
Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: 6
Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
12674-11-2	Aroclor-1016	0.2	U
11104-28-2	Aroclor-1221	0.2	U
11141-16-5	Aroclor-1232	0.2	U
53469-21-9	Aroclor-1242	258	E
12672-29-6	Aroclor-1248	0.2	U
11097-69-1	Aroclor-1254	0.2	U
11096-82-5	Aroclor-1260	0.2	U

PCB's By AROCLORS ORGANICS ANALYSIS DATA SHEET

Site Name: Oswego Castings
Field ID No.: MW-1

Site Code: 738033
SDG No.: 207-01

Matrix: (soil/water) Water
Lab Sample ID: 708-207-001DL

Sample wt/vol: 1000 (g/ml)
Lab File ID: 08F0910.D

% Moisture: NA decanted:(Y/N)
Date Received: 07/25/08

Extraction: (SepF/Cont/Sonc/ASE) SepF
Date Extracted: 07/31/08

Concentrated Extract Volume: 1000 (uL)
Date Analyzed: 08/13/08

Injection Volume: 2 (uL)
Dilution Factor: 1000

GPC Cleanup: (Y/N) N pH: 6
Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	204	DL
12672-29-6	Aroclor-1248	200	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	200	U

PCB's By AROCLORS ORGANICS ANALYSIS DATA SHEET

Site Name: Oswego Castings
Field ID No.: MW-3

Site Code: 738033
SDG No.: 207-01

Matrix: (soil/water) Water
Lab Sample ID: 708-207-002

Sample wt/vol: 990 (g/ml)
Lab File ID: 08F0899.D

% Moisture: NA decanted:(Y/N)
Date Received: 07/25/08

Extraction: (SepF/Cont/Sonc/ASE) SepF
Date Extracted: 07/31/08

Concentrated Extract Volume: 1000 (uL)
Date Analyzed: 07/31/08

Injection Volume: 2 (uL)
Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: 6
Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
12674-11-2	Aroclor-1016	0.2	U
11104-28-2	Aroclor-1221	0.2	U
11141-16-5	Aroclor-1232	0.2	U
53469-21-9	Aroclor-1242	13	E
12672-29-6	Aroclor-1248	0.2	U
11097-69-1	Aroclor-1254	0.2	U
11096-82-5	Aroclor-1260	0.2	U

PCB's By AROCLORS ORGANICS ANALYSIS DATA SHEET

Site Name: Oswego Castings
Field ID No.: MW-3

Site Code: 738033
SDG No.: 207-01

Matrix: (soil/water) Water
Lab Sample ID: 708-207-002DL

Sample wt/vol: 990 (g/ml)
Lab File ID: 08F0899.D

% Moisture: NA decanted:(Y/N)
Date Received: 07/25/08

Extraction: (SepF/Cont/Sonc/ASE) SepF
Date Extracted: 07/31/08

Concentrated Extract Volume: 1000 (uL)
Date Analyzed: 08/13/08

Injection Volume: 2 (uL)
Dilution Factor: 25

GPC Cleanup: (Y/N) N pH: 6
Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
12674-11-2	Aroclor-1016	5.0	U
11104-28-2	Aroclor-1221	5.0	U
11141-16-5	Aroclor-1232	5.0	U
53469-21-9	Aroclor-1242	8.36	DL
12672-29-6	Aroclor-1248	5.0	U
11097-69-1	Aroclor-1254	5.0	U
11096-82-5	Aroclor-1260	5.0	U

PCB's By AROCLORS ORGANICS ANALYSIS DATA SHEET

Site Name: Oswego Castings
Field ID No.: MW-4

Site Code: 738033
SDG No.: 207-01

Matrix: (soil/water) Water
Lab Sample ID: 708-207-003

Sample wt/vol: 980 (g/ml)
Lab File ID: 08F0900.D

% Moisture: NA decanted:(Y/N)
Date Received: 07/25/08

Extraction: (SepF/Cont/Sonc/ASE) SepF
Date Extracted: 07/31/08

Concentrated Extract Volume: 1000 (uL)
Date Analyzed: 07/31/08

Injection Volume: 2 (uL)
Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: 6
Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
12674-11-2	Aroclor-1016	0.2	U
11104-28-2	Aroclor-1221	0.2	U
11141-16-5	Aroclor-1232	0.2	U
53469-21-9	Aroclor-1242	44	E
12672-29-6	Aroclor-1248	0.2	U
11097-69-1	Aroclor-1254	0.2	U
11096-82-5	Aroclor-1260	0.2	U

PCB's By AROCLORS ORGANICS ANALYSIS DATA SHEET

Site Name: Oswego Castings
Field ID No.: MW-4
Site Code: 738033
SDG No.: 207-01
Matrix: (soil/water) Water
Lab Sample ID: 708-207-003DL
Sample wt/vol: 980 (g/ml)
Lab File ID: 08F0912.D
% Moisture: NA decanted:(Y/N)
Date Received: 07/25/08
Extraction: (SepF/Cont/Sonc/ASE) SepF
Date Extracted: 07/31/08
Concentrated Extract Volume: 1000 (uL)
Date Analyzed: 08/13/08
Injection Volume: 2 (uL)
Dilution Factor: 100
GPC Cleanup: (Y/N) N pH: 6
Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
12674-11-2	Aroclor-1016	20	U
11104-28-2	Aroclor-1221	20	U
11141-16-5	Aroclor-1232	20	U
53469-21-9	Aroclor-1242	28.8	DL
12672-29-6	Aroclor-1248	20	U
11097-69-1	Aroclor-1254	20	U
11096-82-5	Aroclor-1260	20	U

PCB's By AROCLORS ORGANICS ANALYSIS DATA SHEET

Site Name: Oswego Castings
Field ID No.: DUP
Site Code: 738033
SDG No.: 207-01
Matrix: (soil/water) Water
Lab Sample ID: 708-207-004
Sample wt/vol: 980 (g/ml)
Lab File ID: 08F0901.D
% Moisture: NA decanted:(Y/N)
Date Received: 07/25/08
Extraction: (SepF/Cont/Sonc/ASE) SepF
Date Extracted: 07/31/08
Concentrated Extract Volume: 1000 (uL)
Date Analyzed: 08/01/08
Injection Volume: 2 (uL)
Dilution Factor: 1
GPC Cleanup: (Y/N) N pH: 6
Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
12674-11-2	Aroclor-1016	0.2	U
11104-28-2	Aroclor-1221	0.2	U
11141-16-5	Aroclor-1232	0.2	U
53469-21-9	Aroclor-1242	13.2	E
12672-29-6	Aroclor-1248	0.2	U
11097-69-1	Aroclor-1254	0.2	U
11096-82-5	Aroclor-1260	0.2	U

PCB's By AROCLORS ORGANICS ANALYSIS DATA SHEET

Site Name: Oswego Castings

Field ID No.: DUP

Site Code: 738033

SDG No.: 207-01

Matrix: (soil/water) Water

Lab Sample ID: 708-207-004DL

Sample wt/vol: 980 (g/ml)

Lab File ID: 08F0913.D

% Moisture: NA decanted:(Y/N)

Date Received: 07/25/08

Extraction: (SepF/Cont/Sonc/ASE) SepF

Date Extracted: 07/31/08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/13/08

Injection Volume: 2 (uL)

Dilution Factor: 25

GPC Cleanup: (Y/N) N pH: 6

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
12674-11-2	Aroclor-1016	5.0	U
11104-28-2	Aroclor-1221	5.0	U
11141-16-5	Aroclor-1232	5.0	U
53469-21-9	Aroclor-1242	8.97	DL
12672-29-6	Aroclor-1248	5.0	U
11097-69-1	Aroclor-1254	5.0	U
11096-82-5	Aroclor-1260	5.0	U

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau A
625 Broadway, 11th Floor
Albany, New York 12233-7015
Phone: (518) 402-9625 • **Fax:** (518) 402-9020 / (518) 402-9627
Website: www.dec.ny.gov

Alexander B. Grannis
Commissioner

Division of Environmental Remediation Laboratory
Analytical Report

The case narrative and analytical reports - Pesticides - for the Oswego Castings site are attached.

Case Narrative

Site Name: Oswego Castings Date received: 07/25/08

For sample delivery group(s): 207-01

All QA/QC associated with this sample delivery group were within acceptable method criteria.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Site Name: OSWEGO CASTINGS | Field ID: MW-1

Site Code: 738033 | SDG No.: 207-01

Matrix: (soil/water) Water | Lab Sample ID: 708-207-001

Sample wt/vol: 1000 (g/mL) mL | Lab File ID: 08H0513.D

% Moisture: 0 decanted:(Y/N) N | Date Received: 07/25/08

Extraction: (SepF/Cont/Sonc) SepF | Date Extracted: 08/01/08

Concentrated Extract Volume: 4000uL | Date Analyzed: 08/14/08

Injection Volume: 2uL | Dilution Factor: 1

GPC Cleanup: (Y/N) Y pH: 6 | Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS	Q
319-84-6	alpha-BHC	0.02ug/L	U
58-89-9	gamma-BHC	0.02ug/L	U
76-44-8	Heptachlor	0.02ug/L	U
309-00-2	Aldrin	0.02ug/L	U
319-85-7	beta-BHC	0.02ug/L	U
319-86-8	delta-BHC	0.02ug/L	U
1024-57-3	Heptachlor Epoxide	0.02ug/L	U
959-98-8	Endosulfan I	0.02ug/L	U
5103-74-2	gamma-Chlordane	0.02ug/L	U
5103-71-9	alpha-Chlordane	0.02ug/L	U
72-55-9	4,4'-DDE	0.04ug/L	U
60-57-1	Dieldrin	0.04ug/L	U
72-20-8	Endrin	0.04ug/L	U
33213-65-9	Endosulfan II	0.04ug/L	U
72-54-8	4,4'-DDD	0.04ug/L	U
50-29-3	4,4'-DDT	0.04ug/L	U
7421-36-3	Endrin aldehyde	0.04ug/L	U
1031-07-8	Endosulfan Sulfate	0.04ug/L	U
72-43-5	Methoxychlor	0.2ug/L	U
53494-70-5	Endrin Ketone	0.04ug/L	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Site Name: OSWEGO CASTINGS | Field ID: MW-3

Site Code: 738033 | SDG No.: 207-01

Matrix: (soil/water) Water | Lab Sample ID: 708-207-002

Sample wt/vol: 990 (g/mL) mL | Lab File ID: 08H0509.D

% Moisture: 0 decanted:(Y/N) N | Date Received: 07/25/08

Extraction: (SepF/Cont/Sonc) SepF | Date Extracted: 08/01/08

Concentrated Extract Volume: 4000uL | Date Analyzed: 08/14/08

Injection Volume: 2uL | Dilution Factor: 1

GPC Cleanup: (Y/N) Y pH: 6 | Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS	Q
319-84-6	alpha-BHC	0.02ug/L	U
58-89-9	gamma-BHC	0.02ug/L	U
76-44-8	Heptachlor	0.02ug/L	U
309-00-2	Aldrin	0.02ug/L	U
319-85-7	beta-BHC	0.02ug/L	U
319-86-8	delta-BHC	0.02ug/L	U
1024-57-3	Heptachlor Epoxide	0.02ug/L	U
959-98-8	Endosulfan I	0.02ug/L	U
5103-74-2	gamma-Chlordane	0.02ug/L	U
5103-71-9	alpha-Chlordane	0.02ug/L	U
72-55-9	4,4'-DDE	0.04ug/L	U
60-57-1	Dieldrin	0.04ug/L	U
72-20-8	Endrin	0.04ug/L	U
33213-65-9	Endosulfan II	0.04ug/L	U
72-54-8	4,4'-DDD	0.04ug/L	U
50-29-3	4,4'-DDT	0.04ug/L	U
7421-36-3	Endrin aldehyde	0.04ug/L	U
1031-07-8	Endosulfan Sulfate	0.04ug/L	U
72-43-5	Methoxychlor	0.2ug/L	U
53494-70-5	Endrin Ketone	0.04ug/L	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Site Name: OSWEGO CASTINGS | Field ID: MW-4

Site Code: 738033 | SDG No.: 207-01

Matrix: (soil/water) Water | Lab Sample ID: 708-207-003

Sample wt/vol: 990 (g/mL) mL | Lab File ID: 08H0511.D

% Moisture: 0 decanted:(Y/N) N | Date Received: 07/25/08

Extraction: (SepF/Cont/Sonc) SepF | Date Extracted: 08/01/08

Concentrated Extract Volume: 4000uL | Date Analyzed: 08/14/08

Injection Volume: 2uL | Dilution Factor: 1

GPC Cleanup: (Y/N) Y pH: 6 | Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS	Q
319-84-6	alpha-BHC	0.02ug/L	U
58-89-9	gamma-BHC	0.02ug/L	U
76-44-8	Heptachlor	0.02ug/L	U
309-00-2	Aldrin	0.02ug/L	U
319-85-7	beta-BHC	0.02ug/L	U
319-86-8	delta-BHC	0.02ug/L	U
1024-57-3	Heptachlor Epoxide	0.02ug/L	U
959-98-8	Endosulfan I	0.02ug/L	U
5103-74-2	gamma-Chlordane	0.02ug/L	U
5103-71-9	alpha-Chlordane	0.02ug/L	U
72-55-9	4,4'-DDE	0.04ug/L	U
60-57-1	Dieldrin	0.04ug/L	U
72-20-8	Endrin	0.04ug/L	U
33213-65-9	Endosulfan II	0.04ug/L	U
72-54-8	4,4'-DDD	0.04ug/L	U
50-29-3	4,4'-DDT	0.04ug/L	U
7421-36-3	Endrin aldehyde	0.04ug/L	U
1031-07-8	Endosulfan Sulfate	0.04ug/L	U
72-43-5	Methoxychlor	0.2ug/L	U
53494-70-5	Endrin Ketone	0.04ug/L	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Site Name: OSWEGO CASTINGS | Field ID: DUP

Site Code: 738033 | SDG No.: 207-01

Matrix: (soil/water) Water | Lab Sample ID: 708-207-004

Sample wt/vol: 995 (g/mL) mL | Lab File ID: 08H0510.D

% Moisture: 0 decanted:(Y/N) N | Date Received: 07/25/08

Extraction: (SepF/Cont/Sonc) SepF | Date Extracted: 08/01/08

Concentrated Extract Volume: 4000uL | Date Analyzed: 08/14/08

Injection Volume: 2uL | Dilution Factor: 1

GPC Cleanup: (Y/N) Y pH: 6 | Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS	Q
319-84-6	alpha-BHC	0.02ug/L	U
58-89-9	gamma-BHC	0.02ug/L	U
76-44-8	Heptachlor	0.02ug/L	U
309-00-2	Aldrin	0.02ug/L	U
319-85-7	beta-BHC	0.02ug/L	U
319-86-8	delta-BHC	0.02ug/L	U
1024-57-3	Heptachlor Epoxide	0.02ug/L	U
959-98-8	Endosulfan I	0.02ug/L	U
5103-74-2	gamma-Chlordane	0.02ug/L	U
5103-71-9	alpha-Chlordane	0.02ug/L	U
72-55-9	4,4'-DDE	0.04ug/L	U
60-57-1	Dieldrin	0.04ug/L	U
72-20-8	Endrin	0.04ug/L	U
33213-65-9	Endosulfan II	0.04ug/L	U
72-54-8	4,4'-DDD	0.04ug/L	U
50-29-3	4,4'-DDT	0.04ug/L	U
7421-36-3	Endrin aldehyde	0.04ug/L	U
1031-07-8	Endosulfan Sulfate	0.04ug/L	U
72-43-5	Methoxychlor	0.2ug/L	U
53494-70-5	Endrin Ketone	0.04ug/L	U

Appendix D

Appendix E

Oswego Casting Sampling event July 2008		
		Oswego Casting is located on Mitchell Street in Oswego, NY. Weather onsite was 75degrees and rainy. Personnel onsite: Payson Long, Gerald Pratt, Carl Hoffman, And Ian Smith.
MW-1 looking towards MW-2. MW-1 was in generally good condition.		

MW-2

MW-2 was damage during mowing operations. MW-2 Needs to be replaced.

MW-3

MW-3 was in good condition. The brush around the Monitoring well needs to be trimmed.

MW-4

MW-4 had the Cap lodged in it. Prior to sampling we retrieved the cap. Other than the cap the well was in good condition. the surrounding area is in need of housekeeping.

Slab inspection generally in good condition.		
		A few minor stress cracks.
A hole cut in the Slab it did not look to be damaging the cap.		

		Deep Score on the slab from machinery operation.
Thin stone cover in the yard. Soil was mixed in with wood chips making the surface was soft.		
		Ponding water on the cap the whole capped area needs to be regraded.
The stone cover is less than the shovel blade down the synthetic liner. The Capped area needs to be regraded.		

A green substance is leaking from the Dumpster. The General manager reports the substance as wax.

This wax is leaking from both ends of the dumpster.

This is a garbage plate from Garafolos House of Sausage. This garbage plate consists of 2 sausage patties, A mound of French Fries, and You serve Chili. For dessert there was a large glass of Alka-Seltzer.

153 East Bridge Street
Oswego, NY 13126
(315) 342-6824

Figure 1

Oswego Casting Site

Site Number 7-38-033

Site Inspection conducted June 24, 2008

37 Mitchell Street
Owsego, NY 13126

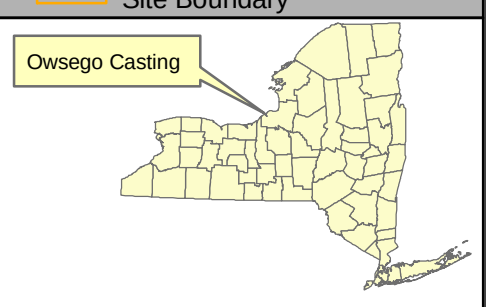
November 4,2009

0 75 150 300 450 600 Feet

C:\Documents and Settings\pdlong\My Documents\GIS Projects\Oswego Casting.mxd

Legend

- Area of the Stone and Fabric
- Concrete Pad Area
- Current Monitoring wells
- Proposed Monitoring Wells
- Area where stone needs to be replaced
- Site Boundary



Appendix F

New York State Department of Environmental Conservation
Division of Environmental Remediation, 12th Floor
625 Broadway, Albany, New York 12233-7011
Phone: (518) 402-9706 - **Fax:** (518) 402-9020
Website: www.dec.state.ny.us

Joe Martens
Acting Commissioner

MEMORANDUM

TO: Benjamin Conlon, Esq.

FROM: Susan Edwards, Section Chief/RHWRE
Payson Long, Project Manager
THRU: Michael Cruden, Director, Remedial Bureau E

SUBJECT: DER Referral for Legal Assistance
Oswego Castings
738033 OU: 00

DATE: 1/25/2011

The Division of Environmental Remediation (DER) requests your assistance in completing the following project for the subject site:

Environmental Easement -

This project has been created in the DER's Unified Information System (UIS) with the following requested start and end dates:

Requested Start Date:	Requested End Date
5/10/10	11/30/10

Attached is a site record which sets forth additional information relative to the site. The project manager is Payson Long.

ec: D. Desnoyers
R. Schick
P. Long

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
Site Briefing Information

Site Code	738033	**Site Name**	Oswego Castings		
Classification	02	**Address**	Mitchell Street		
Region	7	**City**	Oswego	**Zip**	13126
Latitude	43.47	**Town**	Oswego	**Project Manager**	Payson Long
Longitude	-76.48	**County**	Oswego		
Site Type	Structure			**Estimated Size**	2.5000

Site Description

Oswego Castings is an abandoned foundry located in Oswego. Core sands with PCB levels as high as 3370 ppm were disposed on-site. PCBs were also detected in an on-site pond and in a drainage basin which discharges to a wetland and, eventually, flows to Lake Ontario. PCB contamination was also noted on the interior surfaces of the buildings. The core sand dumping area was notably devoid of vegetation and there were chemical odors present. A Consent Order for a Remedial Investigation/Feasibility Study (RI/FS) was signed with the PRP. The RI was completed in February of 1996. The presence of PCBs was reconfirmed in the core sand dumping area, and also in the adjacent wetlands, in surface soils near the loading dock, and the rear gate. PCBs were also detected in the groundwater beneath the core sand dumping area. An on-site septic tank contained relatively high levels of PCBs and volatile organic compounds. The PRP was unable to complete the FS due to a lack of funds. The NYSDEC completed the FS in March of 1997 using the State Superfund (SSF). A Record of Decision (ROD) was signed in the spring of 1997. The remedy selected in the ROD is for the excavation and off-site disposal of contaminated soils and sediments. The remedy design was completed in 1997, and construction was completed in October of 1998. During construction, additional PCB contamination was discovered beneath an on-site building. Contamination in the yard area, under the sawmill, and in the pond and nearby wetlands are being addressed as Operable Unit-2. The selected remedy in the PRAP includes containing contaminated soil on site under a concrete pad. Contaminated sediment in the ponds and contiguous wetland areas have been consolidated into the former casting water pond and covered on site under a concrete pad. The foundry roof was cleaned as an IRM to eliminate the source of PCB to the pond. The ROD was signed on March 31, 2000. The construction for Operable Unit-2 was completed in late 2001. Site management continues.

Contaminants of Concern (Including Materials Disposed)	**Quantity Disposed**
PCB-AROCLOR 1248	UNKNOWN

Analytical Data Available for : Surface Water, Soil, Sediment

Applicable Standards Exceeded for:

Site Environmental Assessment

PCBs have been detected in the soil at the site, beneath the site buildings and in several wetland areas on the site. 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 the site under a concrete pad. Contaminated sediment in the ponds and contiguous wetland areas have been consolidated into the former casting water pond and covered. Site management continues.

Site Health Assessment

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.

Remedy Description and Cost

Remedy Description for Operable Unit 00

The Remedy at the site for the OU 00 Site Management is to conduct an annual inspection of the Concrete Pad and Stoned buffer zone and sample the Monitoring wells.

Total Cost	$1,838,023
Capital Cost	$1,800,960
OM&M Cost	$4,757

Issues / Recommendations

In May 2010 the Stone Buffer Zone was regraded with new stone and landscape fabric.

In April 2010 MW-2 was replaced and MW-5, 6, and 7 were added.

An environmental easement needs to be put in place on the site:

1. limiting the use to industrial and commercial only.
2. prevents the owners from tampering with the remedial action.
3. prevents the owner from using the groundwater
4. grants access to the Department and its' agents for purposes of maintaining the remedy.

Appendix G

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
PERIODIC REVIEW DATA COLLECTION FORM (PRDCF)
4/28/2011

SITE DESCRIPTION

REMEDIAL PROGRAM: HW

SITE NO.: 738033

CITY/TOWN: Oswego
COUNTY: Oswego

SITE NAME: Oswego Castings
SITE ADDRESS: Mitchell Street
ZIP CODE: 13126

SITE-USE RESTRICTION: Not Specified

SITE MANAGEMENT PLAN INCLUDES:

SITE MANAGEMENT PLAN INCLUDES:	YES	NO	N/A
Institutional/Engineering Control (IC/EC) Certification Plan	☐	✓	☐
Monitoring Plan	☐	✓	☐
Operation and Maintenance (O&M) Plan	☐	✓	☐

PERIODIC REVIEW FREQUENCY:

DATE OF THIS PERIODIC REVIEW: April 29, 2011

DESCRIPTION OF INSTITUTIONAL CONTROLS BEING CERTIFIED

OBERDORFER FOUNDRIES, INC
0375 MITCHELL ST
Legacy Restriction
S_B_L Image: 136.-17
Unspecified

DESCRIPTION OF ENGINEERING CONTROLS BEING CERTIFIED

DESCRIPTION OF REMEDY ELEMENTS SUBJECT TO THE MONITORING PLAN

PR Determines monitoring of below elements is:			Satisfactory	Unsatisfactory	May be discontinued
OU 00	Other - Concrete Cap	Soil-Cap/Cover	✓	☐	☐
OU 00	Monitoring	Groundwater	✓	☐	☐

OU 01	Soil Cover	Soil-Cap/Cover	✓	☐	☐
OU 01	Plume Management Monitoring	Groundwater	✓	☐	☐
OU 01	Other	Groundwater-Groundwater Extraction	✓	☐	☐
OU 02	6 NYCRR Part 360 Cap	Soil-Cap/Cover	✓	☐	☐
OU 02	Plume Management Monitoring	Groundwater	✓	☐	☐

DESCRIPTION OF REMEDY ELEMENTS SUBJECT TO THE O&M PLAN

PR Determines monitoring of below elements is:			**Satisfactory**	**Unsatisfactory**	**May be discontinued**
OU 00	Other - Concrete Cap	Soil-Cap/Cover	✓	☐	☐
OU 00	Monitoring	Groundwater	✓	☐	☐
OU 01	Soil Cover	Soil-Cap/Cover	✓	☐	☐
OU 01	Plume Management Monitoring	Groundwater	✓	☐	☐
OU 01	Other	Groundwater-Groundwater Extraction	✓	☐	☐
OU 02	6 NYCRR Part 360 Cap	Soil-Cap/Cover	✓	☐	☐
OU 02	Plume Management Monitoring	Groundwater	✓	☐	☐

DESCRIPTION OF ANY CORRECTIVE ACTION WORK NEEDED

Corrective Action Work Plan Approved: **Corrective Action Work Plan Implementation Complete:**

A Site Management Plan Needs to be created for this site. Institutional Controls need to be implemented for this site. Once these two components are in place the site may be reclassified from a 2 to 4.

Note: List Problems and Severity as found in Reference 5 "Site Management Problems and Severity Identification Guidelines."

PERIODIC REVIEW REPORT APPROVAL AND ACCEPTANCE OF IC/EC CERTIFICATION

Date PRR Approved and IC/EC Certification Accepted:

PR Frequency: ✓ **Continues every __1__ years** ☐ **New Period**