

March 30, 1989

Mr. Ben Singh
U.S. Environmental Protection Agency
Region II
26 Federal Plaza
New York, NY 10278

Reference: EPA Contract No. 68-01-7038; Work Assignment No. R02-01-64;
Corning Glass Works, Main Plant; EPA I.D. No. NYD004971503;
CAPT LOIS Inspection

Dear Mr. Singh:

This letter summarizes the findings of a Corrective Action Prior to Loss of Interim Status (CAPT LOIS) inspection conducted at Corning Glass Works, Main Plant, Corning, New York. The final report is attached. The CAPT LOIS inspection is to evaluate the solid waste management units (SWMUs) and other areas of concern to determine the need for corrective action.

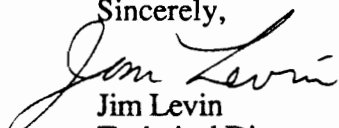
The earliest operations at Corning Glass date back to the 1870s. Because of the age of the facility, all of the manufacturing operations and waste management practices are not precisely known. The site formerly consisted of three factories named A, B, and C. Factory A was used to manufacture pyrexware and microwave dishes, and Factory B was used to manufacture pressed glass products. Both Factories A and B are inactive and have been demolished. The only active glass manufacturing at the site is the manufacturing of thermometer tubing at Factory C. In addition, the facility currently has a trade shop and power plant also located at the site. The trade shop is a machine shop and vehicle maintenance shop.

The only hazardous wastes currently generated at the site are dusts which contain EP toxic levels of lead and arsenic (D008) from the active glass tank and mixhouse, and a small quantity of spent solvents (D001). Previously, mold plating operations generated a chrome sludge (D007) and electro-conductive coating of microwave dishware generated corrosive wastes (D002). Non-hazardous waste oil is currently generated at the trade shop and power plant and is shipped off-site for reclamation.

During the file review and site visit, 5 active and 13 inactive solid waste management units were identified. There are no known or suspected releases from these units to require corrective action prior to loss of interim status. All units which treated or stored hazardous wastes have been closed under the supervision of NYSDEC. Currently, there are no active hazardous waste management units at the site which store wastes for greater than 90-days.

If you have any questions regarding this letter and report, please call the undersigned.

Sincerely,


Jim Levin
Technical Director

enc.

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FINAL REPORT
CORRECTIVE ACTION PRIOR TO LOSS OF
INTERIM STATUS INSPECTION
CORNING GLASS WORKS, MAIN PLANT
CORNING, NEW YORK
EPA I.D. No. NYD004971503

Prepared for:

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EPA Contract No. 68-01-7038
Work Assignment No. R02-01-64

March 1989

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CORNING, NEW YORK

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1.0 INTRODUCTION

A.T. Kearney, Incorporated (ATK) received Work Assignment No. R02-01-64 from the U.S. EPA, under Contract No. 68-01-7038, to conduct corrective action prior to loss of interim status (CAPT LOIS) inspections in the State of New York. ATK has directed DPRA Incorporated (DPRA) to provide the necessary assistance under this work assignment.

A CAPT LOIS inspection is organized similarly to a RCRA Facility Assessment (RFA). A CAPT LOIS inspection consists of (1) a file review, similar to a preliminary review, and (2) a site visit, similar to a visual site inspection. For this reason, a CAPT LOIS inspection sometimes is referred to as a "limited RFA."

DPRA conducted a CAPT LOIS inspection at the Corning Glass Works, Main Plant, Corning, New York. As the first phase of the inspection, DPRA conducted a file review at the offices of the U.S. EPA Region II and the New York State Department of Environmental Conservation (NYSDEC) offices. As part of the file review, DPRA identified Solid Waste Management Units (SWMUs) and any other areas of concern (AOCs) located at the facility. As the second phase of the inspection, DPRA conducted a site visit at Corning Glass Works on March 8, 1989. DPRA conducted the site visit to verify the information in the file materials, identify any additional SWMUs and AOCs, and observe any evidence of releases from the SWMUs or AOCs. Based on the results of the site visit, DPRA has prepared and submitted this report to the U.S. EPA to reflect the actual conditions at the Corning Glass Works. This report describes the facility and discusses the findings of the file review and site visit.

Pertinent information regarding the facility is presented below:

Facility Name:	Corning Glass Works, Main Plant
U.S. EPA ID No.	NYD004971503
Address:	Corning Glass Corning, New York 14831

Facility Contact: Mr. Blake Manuel
Sr. Environmental Control Engineer

Telephone: (607) 974-6204

2.0 FACILITY DESCRIPTION

The Corning Glass Works, Main Plant is located in Corning, New York on the south bank of the Chemung River. The location of the site is shown in Figure 1. The earliest operations at the site date back to the 1870s. Because of the age of the facility, all of the manufacturing operations and waste management practices are not precisely known. At its peak of operations the site had four glass "tanks" which are furnaces used to melt the glass for forming. In addition, the plant had several hand shops where glass was hand blown. The main plant was divided into three factories named A, B, and C (See Figure 2). Of these three factories, only Factory C is still in operation. Both Factories A and B are no longer active and have been recently demolished. Factory A was used to manufacture pyrexware and microwave dishes and the B Factory was used to manufacture pressed glass products. The only active glass manufacturing at the main plant is the manufacturing of thermometer tubing in the C Factory. A trade shop and power plant are also located at the Main Plant. The trade shop is a machine shop and vehicle maintenance shop used to service other Corning Glass operations in and around the Corning area. All other operations at the Main Plant are non-manufacturing (Ref. 32).

Operations at the site which have generated hazardous wastes are glass mixing, glass melting, electro-conductive coating, chrome plating, and chemical laboratories (Ref. 12). Also, spent solvents (D001) are generated from routine plant maintenance. Approximately one 55-gallon drum of spent solvents is currently generated at the site per year (Ref. 32). Glass mixing, which is the mixing of raw products to make glass, and off-gases from glass melting tanks generate dust which is EP toxic for lead and arsenic (D008). Glass mixing and melting are the only hazardous waste generating manufacturing processes remaining at the site. electro-conductive coating was associated with the manufacturing of microwave dishes which was discontinued at the site in 1984 (Ref. 32). The electro-conductive coating was a tin-oxide coating that was applied to the glassware to create heat during microwave cooking. This process generated corrosive liquids (D002) from hydrochloric acid used in the coating process (Ref 12). The plant also had a chrome plating shop

Figure 1. Facility Location Map for Corning Glass Company

(Modified from Ref. 33)

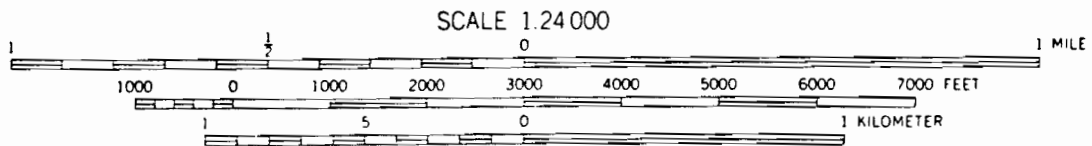
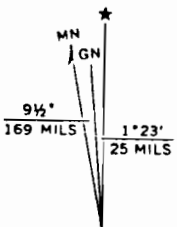
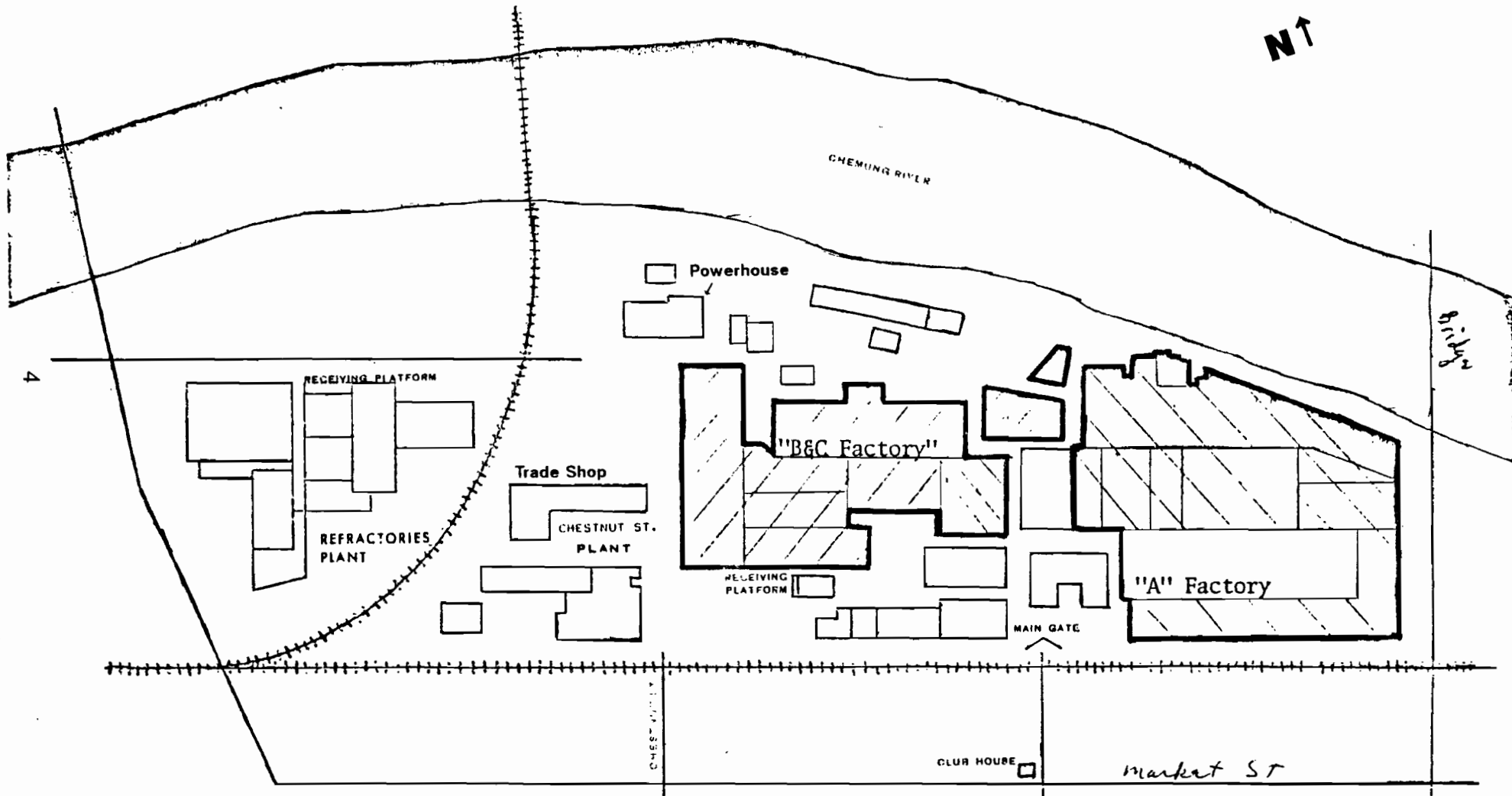


Figure 2. Factory Location Map
Corning Glass Works, Main Plant
(Modified from Ref. 32)



Approximate scale: 1" = 225'

located in Factory A to plate molds used in glass pressing operations. The chrome plating shop had a chrome treatment system which discharged to a SPDES outfall until approximately 1983 (Ref. 32). The treatment system generated a sludge listed for chrome content (D007). Reportedly, all listed hazardous wastes were/are shipped off-site for recovery or disposal and no hazardous wastes have ever been treated or disposed of on-site (Ref. 32).

In addition to hazardous wastes, non-hazardous waste oils are generated. During the glass manufacturing operations, quench water which was contaminated with hydraulic and lubricating oils was separated prior to discharge out the SPDES outfall (Ref. 7). This waste stream is not currently generated at the site. Small quantities of waste-oils are currently generated in the Power Shop and Trade Shop. Waste oil currently generated at the site is drummed in 55-gallon drums and shipped off-site. Facility personnel estimated that about eight drums are generated annually (Ref. 32). The site also formerly operated a solid waste incinerator for steam generation (Ref. 13).

In August 1980, Corning Glass, Main Plant filed a Notification of Hazardous Waste Activity (Ref. 1) as a treatment, storage, and disposal facility (TSDF). A Part A Application (Ref. 3) was filed in November of 1980 listing 24,655-gallons of container storage and a proposed vitrification system which was never built (Ref. 32). Due to the decrease in manufacturing activities at the Main Plant, the facility closed all of its RCRA-regulated units under NYSDEC (Ref. 31) and currently seeks generator only status. At present, there are no greater than 90-day storage areas at the site and no hazardous waste treatment or disposal units at the site. Prior to closure of the greater than 90-day storage areas, the facility was an interim status TSD facility.

3.0 SOLID WASTE MANAGEMENT UNITS

During the file review and site visit, fifteen solid waste management units (SWMUs) were identified at Corning Glass, Main Plant. Of these units only 5 are currently active. The units are:

Active Units

- o West Baghouse (SWMU 1)
- o Waste Oil Accumulation Drum (SWMU 2)
- o Solvent Accumulation Drum (SWMU 3)
- o Powerhouse Oil/Water Separator (SWMU 4)
- o Less Than 90-Day Storage Area (SWMU 5)

Inactive Units

- o North Baghouse (SWMU 6)
- o West Mixhouse Dust Collector (SWMU 7)
- o Hazardous Waste Hopper Storage Area (SWMU 8)
- o Hazardous Chemical Storage Area (SWMU 9)
- o Hazardous Liquid Storage Tank (SWMU 10)
- o Chrome Treatment System (SWMU 11)
- o Pyrex Glass Treatment System (SWMU 12)
- o Facet Emulsified Oil System (SWMU 13)
- o 2A Oil/Water Separator (SWMU 14)
- o 5A Oil/Water Separator (SWMU 15)
- o Old Powerhouse Oil/Water Separator (SWMU 16)
- o Electrostatic Precipitator (SWMU 17)
- o Main Plant Incinerator (SWMU 18)

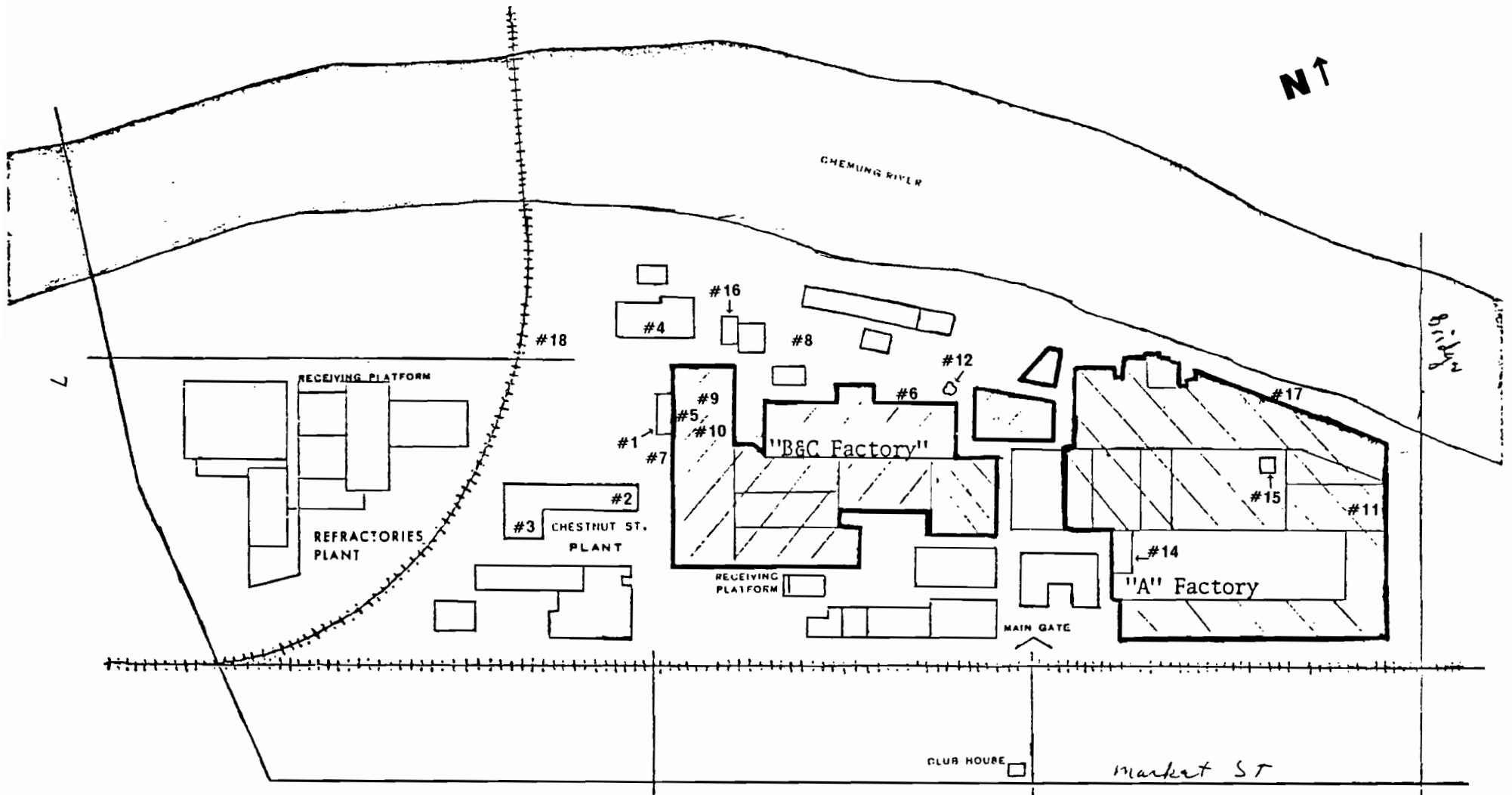
The location of these units is shown on Figure 3.

3.1 WEST BAGHOUSE (SWMU 1) (Photograph 3)

Description:

The West Baghouse is located on the west side of Building 36 in Factory C. The baghouse is designed to collect particulates from the active 2A tank and dust from the mixhouse. The baghouse was built in 1974 (Ref. 32), and consists of four chambers and a cooling chamber. The cooling chamber is presently used as a settling chamber for large particulates prior to entering the baghouse. The particulates can be emptied from the cooling chamber to an open polyflex bag located below the unit. Dust from the baghouse

Figure 3. SWMU Location Map
Corning Glass Works, Main Plant
(Modified from Ref. 32)



Location of SWMU #13 is unknown

Approximate scale: 1" = 225'

chambers is collected in polyflex bags which are located below the elevated chambers. Both the cooling chamber and baghouse chambers are steel and elevated above-ground.

Status:

This unit is not RCRA-regulated and is currently active. The unit is permitted by NYSDEC as an air contamination source (Ref. 32).

Waste Type:

This unit is used to manage air emissions from tank 2A and the mixhouse. The waste is considered EP toxic for lead and arsenic. The waste is manifested as D008 (Ref. 32).

Waste Management:

Hazardous dusts from this unit are accumulated in polyflex bags prior to shipment off-site. The bags are approximately three feet on a side and four feet high and are stored on wooden pallets in an enclosed room with a concrete floor. The bags from the baghouse chambers are completely sealed so that dust cannot escape to the environment (Photograph 12). The polyflex bag from the cooling chamber is located outdoors and is not sealed (Photograph 4). The bags are stored either in the enclosed room below the baghouse or in the less than 90-day hazardous storage area prior to disposal off-site.

Known and Suspected Releases:

During the inspection, facility personnel stated that no spills have occurred in the area to the best of their knowledge. No evidence of release was observed during the inspection.

**3.2 SATELLITE DRUM ACCUMULATION AREAS (SWMUs 2 and 3)
(Photographs 1 and 2)**

Description:

The Corning Glass, Main Plant currently maintains two satellite drum accumulation areas. One unit is the Waste Oil Accumulation Drum (SWMU 2) and the other is the Solvent

Accumulation Drum (SWMU 3). Both of these units are associated with the trade shop operations and are 55-gallon drums which are completely contained indoors on concrete flooring. The Solvent Accumulation drum is kept in a room with other flammable materials and the Waste Oil Drum is kept with drummed product used in the trade shops (Ref. 32).

Status:

These units are currently active and are not regulated under RCRA.

Waste Type:

The Waste Oil Accumulation Drum is used to store non-hazardous waste oils and the Solvent Accumulation Drum is used to store spent solvents (D001).

Waste Management:

Both of these units are used to accumulate wastes in 55-gallon drums and are located indoors. The waste oils collected in the Waste Oil Accumulation Drum are shipped off-site when the drum becomes full. Facility personnel estimated that the trade shop generates about three drums per year (Ref. 32). The Solvent Accumulation Drum is kept with other flammable materials (primarily paints) in the trade shop. When the drum is full it transferred to the Less Than 90-Day Storage Area (SWMU 5) and shipped off-site as D001 waste.

Known and Suspected Releases:

During the inspection, facility personnel stated that no spills have occurred in either of these areas to the best of their knowledge. No evidence of release was observed during the inspection.

3.3 POWERHOUSE OIL/WATER SEPARATOR (SWMU 4)

(Photograph 7)

Unit Description:

This unit was installed in 1988 to treat steam condensate in the powerhouse (Ref. 32). The unit is comprised of two sections. The upper section is a rectangular tank which is approximately two feet long, one foot wide, and one foot deep. The upper section has baffles to aid gravity separation of oil from water. The oil from the unit accumulates in the lower section which is a closed rectangular tank. The tank is approximately one foot wide by two feet long, and three feet deep. Both of the units are constructed of steel and are located above-ground.

Status:

This unit is currently active and does not manage hazardous waste.

Waste Type:

This unit is used to accumulate non-hazardous waste oil.

Waste Management:

This unit is designed to gravity separate oil from water discharged to a SPDES outfall. The unit treats steam condensate generated in the power plant which is mixed with oil for lubrication purposes. The oil accumulates in a closed above-ground accumulation tank which is drummed when full and shipped off-site as non-hazardous waste oil. Facility personnel estimated that approximately two drums are shipped off-site per year from this unit (Ref. 32).

Known and Suspected Releases:

During the inspection, facility personnel stated that no spills have occurred in the area to the best of their knowledge. No evidence of release was observed during the inspection.

3.4 LESS THAN 90-DAY STORAGE AREA

(Photograph 13)

Unit Description:

The Less Than 90-day storage Area is located in Building 36 in Factory C. This area is an indoor drum storage area which stores any hazardous wastes generated at the site in 55-gallon drums or polyflex bags. The room is approximately 100 feet by 40 feet with a concrete floor and cinder block walls. At the time of the site visit, there were no waste drums or polyflex bags stored in this area. Currently, the room is being used to store decontaminated waste hoppers. The Hazardous Chemical Storage Area (SWMU 9) and the Hazardous Liquid Storage Tank (SWMU 10) were previously located in this room.

Status:

The unit is an active less than 90-day hazardous waste storage area.

Waste Type:

The Less Than 90-day Storage Area receives any hazardous wastes generated at the facility. Currently, the unit manages approximately one drum a year of spent solvents (D001) and dust from the 2A glass tank and mixing house stored in polyflex bags (D008).

Waste Management:

The area is contained completely indoors over a concrete floor. At the time of the VSI, only decontaminated waste hoppers were being stored in the room. All hazardous wastes stored in this room are stored for a period of less than 90 days.

Known and Suspected Releases:

During the inspection, facility personnel stated that no spills have occurred in this area to the best of their knowledge. No evidence of release was observed during the site inspection. This area was certified clean under the closure for the Hazardous Chemical Storage Area (SWMU 9) and Hazardous Liquid Storage Tank (SWMU 10).

3.5 INACTIVE HAZARDOUS DUST MANAGEMENT UNITS (SWMUs 6, 7, and 8)
(Photograph 9)

Description:

Corning Glass, Main Plant formerly managed three SWMUs for management of dust generated from glass tanks and mixhouses. These units include the North Baghouse (SWMU 6), the West Mixhouse Dust Collector (SWMU 7), and the Hazardous Waste Hopper Storage Area (SWMU 8). The North Baghouse was a three-chamber baghouse that was installed in approximately 1974 and demolished in 1988. The West Mixhouse Dust Collector was installed in approximately 1970 and demolished in approximately 1987 (Ref. 32). The construction of these units was reportedly similar to the construction of the active West Baghouse (SWMU 1; Ref. 32). Both units were constructed of steel and were located completely above-ground in Factory B.

The Hazardous Waste Hopper Storage Area was an outdoor unit located north of Factory B. The unit was a 20 to 30 cubic yard steel roll-off bin for storage of dust generated at the West and North Baghouses and the West Mixhouse Dust Collector (SWMUs 1, 6, and 7). The unit was placed partially over a concrete pad and partially over bare soil (Ref. 32) This unit was used for approximately three years prior to closure under NYSDEC in 1988 (Refs. 31 and 32).

Status:

All of these units are inactive and have been demolished. The North Baghouse and West Mixhouse were not RCRA-regulated units. The Hopper Storage Area was a RCRA-regulated unit which has been closed under the supervision of NYSDEC (Refs. 29 and 31).

Waste Type:

These units managed dust from the mixhouses and off-gases from the glass tanks. This waste contained EP toxic levels of lead and arsenic and was manifested as D008.

Waste Management:

The North Baghouse was used to collect dust generated in Factory C. The West Mix House Dust Collector was used to collect dust from the mixhouse formerly located in Building 38. The Hazardous Waste Hopper Storage Area (SWMU 8) collected D008 dust from various locations at the plant prior to shipment off-site for disposal (unit stored dust for greater than 90-days). The bin has been removed from the site, the surface soils were removed, and soil samples were taken as part of closure under NYSDEC. All soils tested before and after excavation as part of closure were non-toxic as defined by EP toxicity limits (Refs. 29 and 31).

Known and Suspected Releases:

During the inspection, facility personnel stated that no spills have occurred from the North Baghouse and West Mix House. No evidence of release from either of these units was observed in the area where the units were formerly located. The Hazardous Waste Hopper Storage Area has been closed under NYSDEC (Ref. 29).

3.6 INACTIVE ELECTRO-CONDUCTING COATING WASTE MANAGEMENT UNITS (SWMUs 8 and 9) (Photograph 13)

Description:

Two hazardous waste storage units associated with the electro-conducting coating placed on microwave dishes were formerly located at the site. This process was performed in Factory A from approximately 1980 to 1985. These units are the Hazardous Chemical Storage Area (SWMU 9) and the Hazardous Liquid Storage Tank (SWMU 10). Both units underwent formal closure under NYSDEC in 1988 and were located in the same room as the Less Than 90-Day Storage Area (SWMU 5).

The Hazardous Chemical Storage Area was used for the storage of corrosive liquids in drums. Approximately 60 to 70 55-gallon drums were allowed to accumulate in this room prior to shipment off-site (Ref. 32). The room is approximately 100 feet by 40 feet with a

concrete floor and cinder block walls. The room also stored spent filters, which were also corrosive, in open plastic bins lined with bags. The bins were approximately two feet wide, four feet long, and three feet deep (See Photograph 13). The filters were drummed in this room prior to off-site shipment. The bins were stored over an acid-resistant curbed pad.

The Hazardous Liquid Storage Tank was located in the same room as the Hazardous Chemical Storage Area. The unit was used as a holding tank prior to drumming the wastes for disposal. The tank was an elevated 600-gallon steel tank which has been removed from the site.

Status:

Both of these units were regulated under RCRA and have been closed under a NYSDEC-approved closure plan. The closure included washing all flooring and containers and shipping contaminated washwater and associated cleaning supplies off-site. Wipe samples were taken to verify clean closure (Ref. 31).

Waste Type:

The units were used to store a corrosive mixture of stannic chloride and tin oxide (D002) generated in the coating of microwave dishware (Ref. 32).

Waste Management:

The electro-conductive coating waste management units were used to manage waste associated with the Anderson 200 Air Filter, which is essentially a scrubber with filters. The liquid from this unit was discharged to the Hazardous Liquid Storage Tank prior to drumming. The filters were transported in lined open plastic bins which were stored over an acid-resistant pad. Both the liquid from the storage tank and the filters were placed in 55-gallon drums in this room and stored for greater than 90-days (Ref. 32).

Known and Suspected Releases:

During the inspection, facility personnel stated that no spills have occurred in the area to the best of their knowledge and no evidence of release was observed during the site visit. The areas were closed under the supervision of NYSDEC.

3.7 CHROME TREATMENT SYSTEM (SWMU 11)

(Not Photographed)

Description:

The Chrome Treatment System was located in Building 9 in Factory A. The date this unit began operation is unknown, but dates back prior to the 1970's (Ref. 32). The unit was shut down in 1983 and closed under the supervision of NYSDEC (Refs. 18, 19, and 29). The entire unit was located indoors, above-ground, and discharged to the SPDES outfall 002. The primary components of the system were a 588-gallon chrome reduction tank, a 70-gallon bisulfite tank, and a filter system (Ref. 19).

Status:

This unit was a RCRA-regulated unit that has been inactive since 1983, and was certified closed under supervision of NYSDEC in September 1985 (Ref. 29).

Waste Type:

The chrome treatment unit was used to precipitate chrome from plating solutions. The system generated a sludge and spent filters which were disposed of off-site as hazardous due to chrome (D007).

Waste Management:

The unit was used to precipitate chrome from waste water generated in mold plating operations prior to discharge to a SPDES outfall. Reportedly, all of the units associated with the treatment system were located above-ground indoors (Ref. 32). Following the

normal treatment of all chrome-contaminated liquids, all equipment was dismantled and shipped off-site (Ref. 18).

Known and Suspected Releases:

During the inspection, facility personnel stated that no spills have occurred in the area to the best of their knowledge. The unit was demolished at the time of the site visit and could not be visually inspected. The areas were closed under the supervision of NYSDEC (Ref. 18).

3.8 PYREX GLASS TREATMENT SYSTEM (SWMU 12)

(Not Photographed)

Description:

The Pyrex Glass Treatment System was located north of Factory B. This unit was installed in the mid-1970s to treat water used in glass grinding and polishing operations prior to discharge out SPDES outfall 004. The unit was used to treat pyrex-glass-associated waste water that did not contain the hazardous metals (arsenic, lead, chrome, and cadmium) found in other glass manufacturing processes (Ref. 32). The unit consisted of a Clarifier and a Rotary Drum. The clarifier was partially in ground and was approximately 14 feet in diameter and 20 feet high. The rotary drum was above-ground and approximately four feet in diameter (Ref. 32).

Status:

The unit managed non-hazardous wastes and was removed from the site in 1988 (Ref. 32).

Waste Type:

The unit separated glass particulates (cullet) and any other solids generated during grinding and polishing operations of pyrex glass prior to SPDES discharge. The separated solids from pyrex glass were non-hazardous (Ref. 32).

Waste Management:

This unit was designed to separate solids from waste water generated in the polishing and grinding of pyrex glass prior to SPDES discharge. The unit consisted of a clarifier for settling and a rotary drum for drying. Most of the cullet was recycled; however, some non-hazardous solids were shipped to a Subtitle D landfill from this unit (Ref. 32).

Known and Suspected Releases:

During the inspection, facility personnel stated that no spills have occurred in the area to the best of their knowledge. No evidence of release was observed during the inspection.

3.9 FACET EMULSIFIED OIL SYSTEM (SWMU 13) (Not Photographed)

Description:

The emulsified oil system was installed to remove emulsified oil from the shear spray generated at the 5A tank manufacturing area. The spray water contained emulsified oil and was discharged to SPDES outfall 003 (Ref.4). No other information is available on this unit.

Status:

This unit managed non-hazardous waste and was removed in 1988 (Ref. 32).

Waste Type:

The unit was designed to remove non-hazardous emulsified oil from waste water prior to SPDES discharge (Ref. 32).

Waste Management:

This unit was installed to remove emulsified oil from shear spray at the 5A tank. The oil generated was non-hazardous and shipped off-site (Ref. 32). No other information is available on this unit.

Known and Suspected Releases:

During the inspection, facility personnel stated that no spills have occurred in the area to the best of their knowledge. The unit was demolished at the time of the site visit and could not be visually inspected.

3.10 INACTIVE OIL/WATER SEPARATORS (SWMUs 14, 15, and 16) (Photograph 8)

Description:

Corning Glass, Main Plant had three API-type oil/water separators to gravity separate oil from process water prior to discharge out SPDES outfalls. These units are the 2A Oil/Water Separator (SWMU 14), 5A Oil/Water Separator (SWMU 15), and the Old Powerhouse Oil/Water Separator (SWMU 16). All of these units are inactive and have been demolished.

The 2A and 5A Oil/Water Separators were associated with the glass tanks. The units separated oil from quench water which may have contacted oil and grease during the glass forming process. Both the 2A and 5A Oil/Water Separators were open topped above-ground steel tanks. The 2A tank was approximately 14 feet wide, 60 feet long, and 10 feet deep, and the 5A tank was U-shaped measuring approximately 28 feet wide, 70 feet long and 10 feet deep (Ref. 32). Both units discharged treated water to SPDES Outfall 003.

The Old Powerhouse Oil/Water Separator was used to treat steam condensate prior to discharge out the SPDES outfall 005. The unit was installed in the mid-1970s and was replaced by a smaller unit, Powerhouse Oil/Water Separator (SWMU 4), in 1988 due to decreased power demands at the plant (Ref. 32). The unit was approximately 8 feet in diameter and 10 feet high, and was completely above-ground.

Status:

All of the Inactive Oil/Water Separators were demolished. The 2A and 5A Separators have been inactive since 1984, and the Powerhouse Separator was replaced in 1988 (Ref 32).

Waste Management:

All of the Oil/Water Separators were above-ground steel tanks used to gravity separate oil. The waste oil generated from all three of the separators was non-hazardous and shipped off-site (Ref. 32).

Known and Suspected Releases:

During the inspection, facility personnel stated that no spills have occurred in either of these areas to their best of their knowledge. The units were demolished prior to the site visit and could not be visually inspected.

3.11 ELECTROSTATIC PRECIPITATOR (SWMU 17) (Not Photographed)

Description:

The Electrostatic Precipitator was installed to control emissions from the 5A tank (ref. 6). The unit was installed in the mid-1970s and removed in approximately 1985 (Ref. 32). No other information is available on this unit.

Status:

This unit has been removed from the site.

Waste Type:

This waste generated in this unit was non-hazardous; however, the wastes did contain some arsenic below EP toxicity levels (Ref. 32).

Waste Management:

This unit was used to collect non-hazardous dust from the 5A tank. The dust was shipped off-site to a Subtitle D landfill (Ref. 32).

Known or Suspected Releases:

During the inspection, facility personnel stated that no spills have occurred in either of these areas to the best of their knowledge. The units were demolished at the time of the site visit and could not be visually inspected.

3.12 MAIN PLANT INCINERATOR (SWMU 18)

(Photograph 6)

Description:

The Main Plant Incinerator was formerly located just north of the present Main Plant property boundary. The incinerator was permitted by NYSDEC and burned only non-hazardous wastes. The unit was installed to generate steam in 1982 (Refs. 13 and 32).

Status:

The unit was removed from the site in 1985 (Ref. 32).

Waste Type:

The unit was used to burn solid wastes such as pallets, paper, and cardboard. The unit also received solid waste shredded and compacted into bales from Monroe County, New York (Ref. 13).

Waste Management:

This unit was used to generate heat from solid wastes generated at the Corning Glass plants located in the Corning area and also received solid wastes from the county (Ref. 13). The unit was permitted by the NYSDEC who monitored opacity from the stack. The opacity of the off-gases was limited to 20% under NYSDEC Permit number EP-CT311. The ash from the incinerator was transported by Corning in State-permitted vehicles and disposed of at the Steuben County Landfill (Ref. 13).

Known and Suspected Releases:

This unit was cited on numerous occasions when opacity was observed to be in excess of 20% (Ref. 13). Prior to the site visit this unit was removed and could not be observed.

4.0 SUMMARY AND CONCLUSIONS

Corning Glass Works was an interim status TSD facility prior to closing their chrome treatment system and greater than 90-day hazardous waste management units. Since closure in 1988 of the RCRA-regulated storage areas, there have been no hazardous waste management units on-site that store hazardous wastes for greater than 90-days, or that treat or dispose of hazardous wastes at the site (Ref. 32). During the file review and visual site inspection, DPRA identified 18 solid waste management units (SWMUs). Only five of these units are presently active. These include the West Baghouse (SWMU 1), Waste Oil and Solvent Accumulation Drums (SWMUs 2 and 3), Powerhouse Oil/Water Separator (SWMU 4), and Less Than 90-Day Storage Area (SWMU 5). The West Baghouse is an enclosed, state-permitted baghouse. The Accumulation Drums, Oil/Water Separator, and Storage Area are all located indoors over concrete floors. No evidence of known or suspected releases from these units was found in preparing this report.

DPRA identified 13 inactive solid waste management units (SWMUs 6 through 18). All of these units have been dismantled and have been removed from the site. All units which stored hazardous wastes for a period of greater than 90 days were closed under the supervision of NYSDEC. These units were the Hazardous Waste Hopper Storage Area (SWMU 8), Hazardous Chemical Storage Area (SWMU 9), and Hazardous Liquid Storage Tank (SWMU 10). In addition, the Chrome Treatment System (SWMU 11) was closed under NYSDEC as a RCRA-regulated hazardous waste treatment unit. The areas potentially affected by these units were sampled and certified clean by an independent engineer. The remaining inactive units (SWMUs 6, 7, and 12 - 18) were not formally closed under any regulatory authority and were not able to be visually inspected during the site visit since the units had been removed from the site.

Interviews with Corning Glass Works personnel, and reviews of regulatory file materials did not indicate any releases from these units with the exception of the Main Plant Incinerator (SWMU 18).

The Main Plant Incinerator was cited for opacity levels above Corning's State-permitted levels. Also, the site has historically had problems meeting SPDES guidelines at their outfalls. This has not been a problem since manufacturing activities have dropped off at the site.

In conclusion, no corrective action is suggested at this site prior to loss of interim status since all RCRA-regulated units have been closed under the supervision of the state and there were no evidence of releases of hazardous constituents observed from the active or inactive units during the site visit. A major portion of the facility is currently inactive and has been dismantled and could not be observed.

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23. Corning Glass Main Plant Industrial Recon. Inspection Report, December 11, 1985.

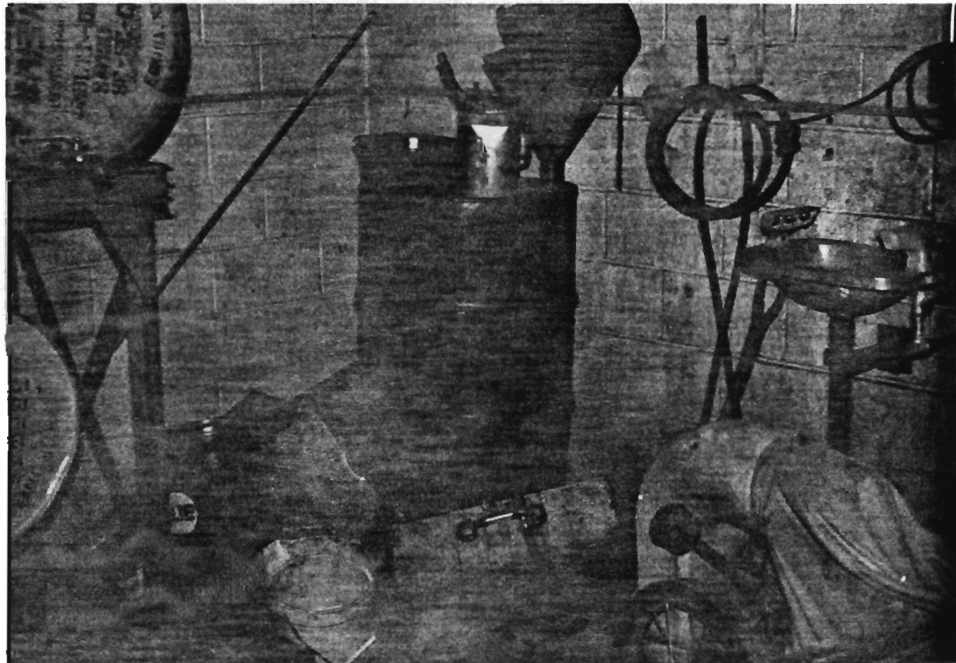
24. Corning Glass Works Main Plant New York State Department of Environmental Conservation Inspection Report, March 25, 1986.
25. Corning Glass Works Main Plant New York State Department of Environmental Conservation Inspection Report, March 5, 1987.
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31. Richard W. McClung, Galson & Galson Consulting Engineers, Letter to James S. Moran, New York State Department of Environmental Conservation, December 28, 1988.
32. DPRA Incorporated, CAPT LOIS Site Inspection, March 8, 1989.
33. USGS Quadrangle, Corning, New York, 1969.

APPENDIX A

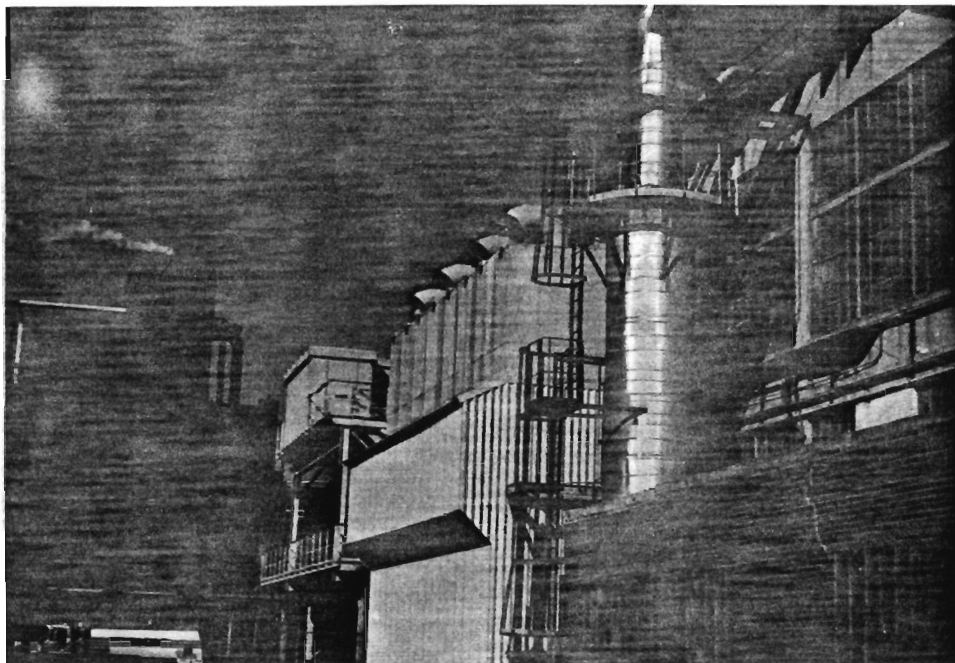
PHOTOGRAPHS TAKEN DURING THE SITE VISIT
CORNING GLASS, MAIN PLANT



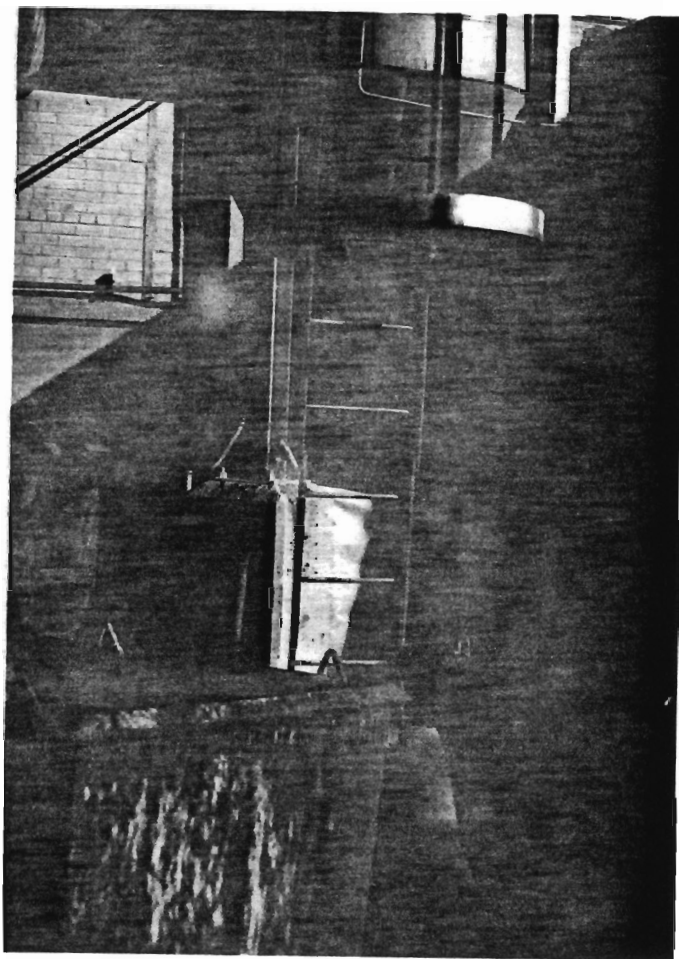
Photograph 1. View of the Solvent Accumulation Drum (SWMU 3). The unit is located in a flammable storage room and therefore the camera flash could not be operated in the room.



Photograph 2. View of the Solvent Accumulation Drum (SWMU 3) located in the Trade Shop.



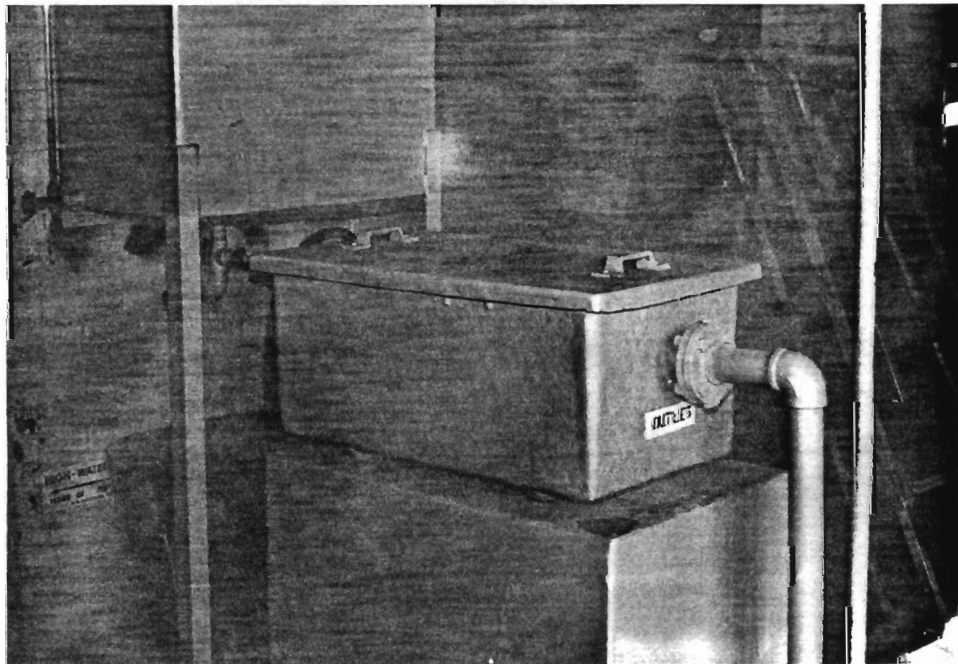
Photograph 3. Photograph of the West Baghouse (SWMU 1) looking northeast. The cylindrical tower in the foreground is the cooling chamber.



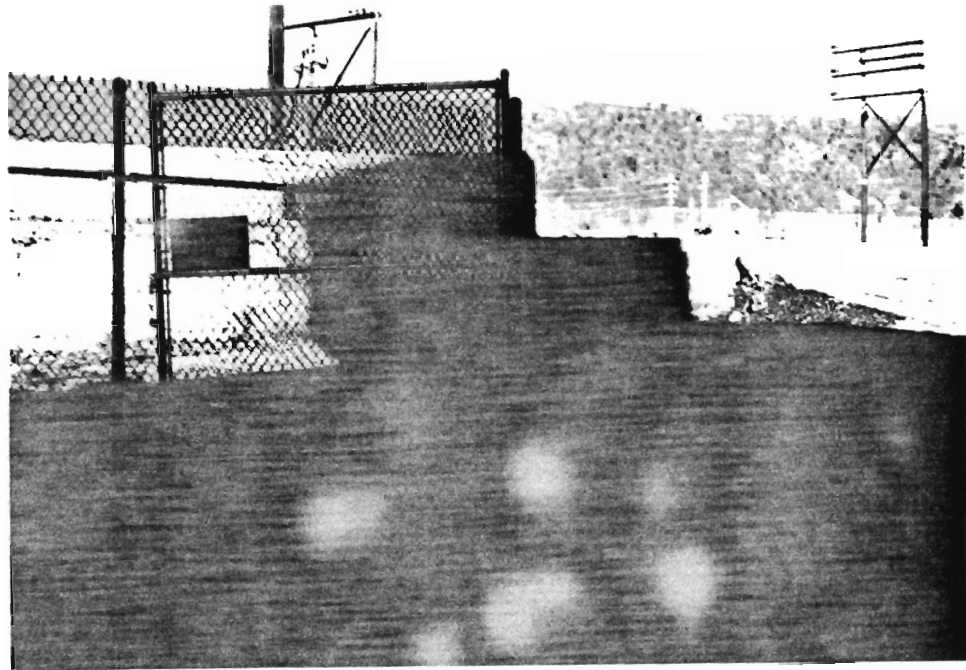
Photograph 4/5. Photograph of the polyflex bag located below the cooling chamber of the West Baghouse (SWMU 1). (Note: photograph shot twice due to suspected problem with photograph 4.)



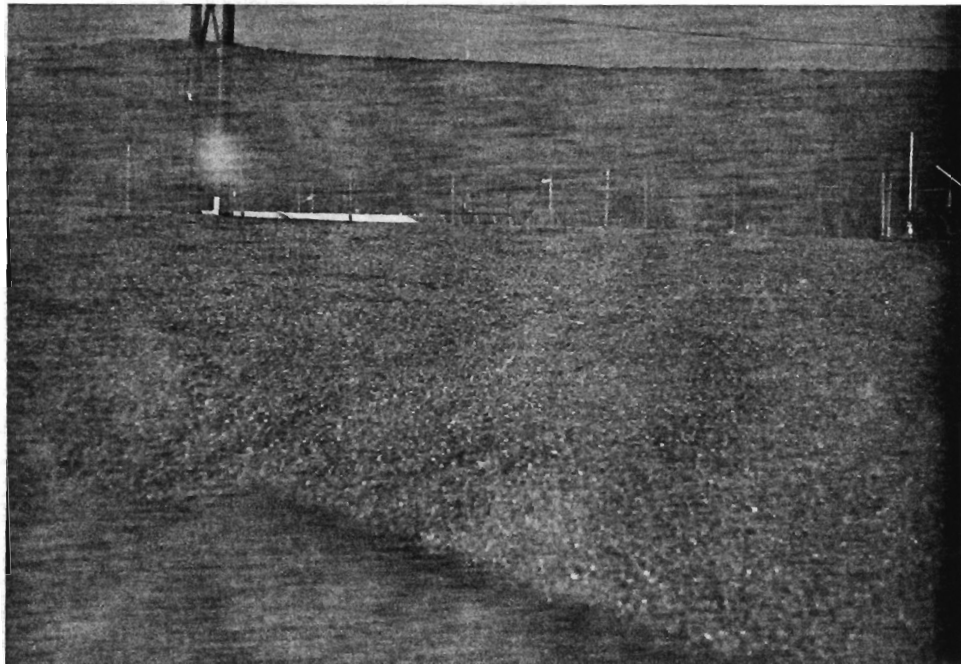
Photograph 6. Former location of the Incinerator (SWMU 18) looking northwest.



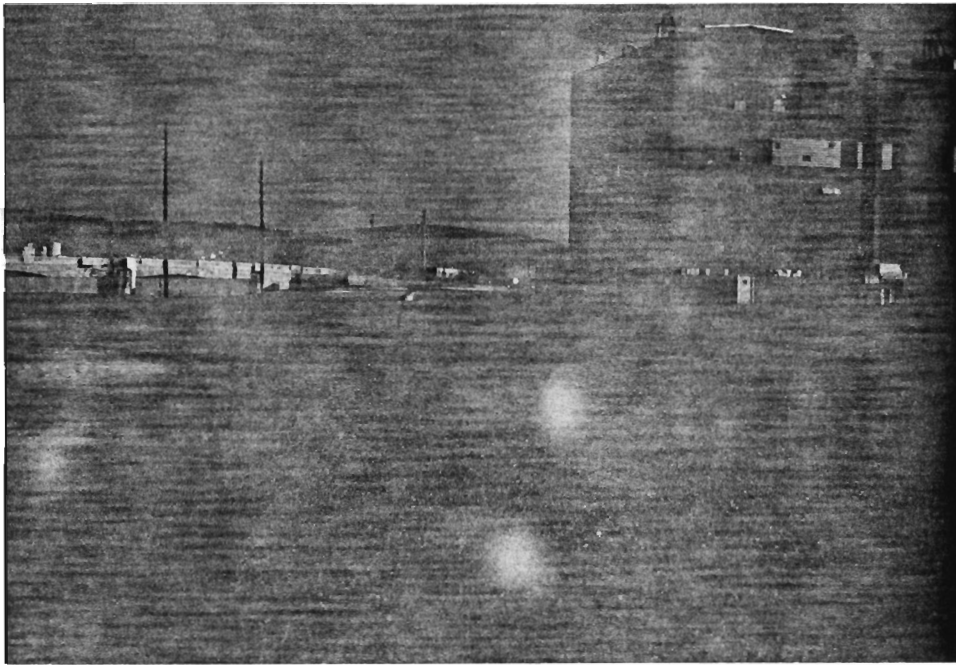
Photograph 7. Photograph of the Powerhouse Oil/Water Separator (SWMU 4). The upper tank is used for settling and the lower tank is used for accumulation.



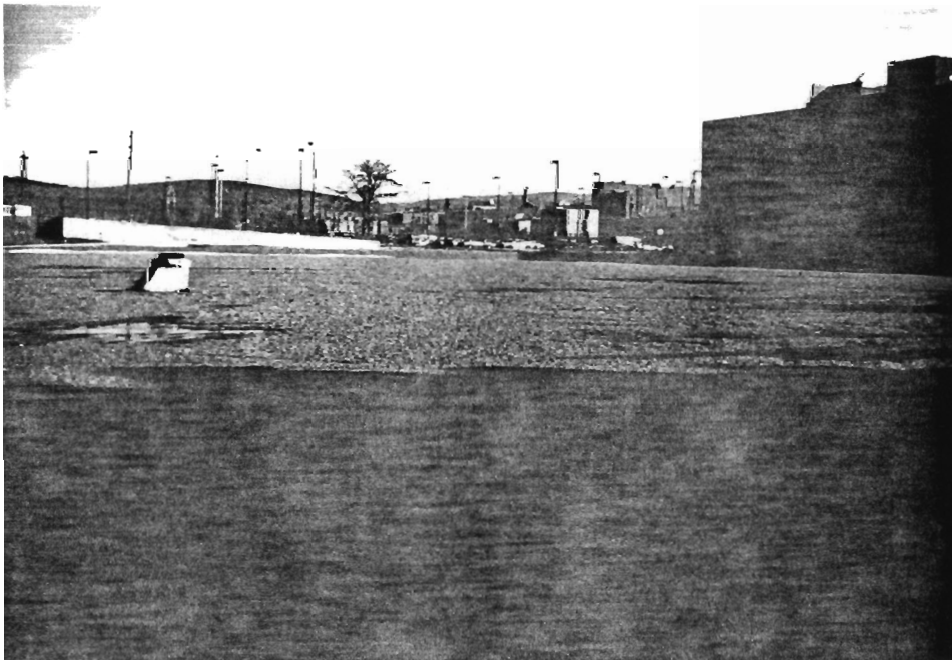
Photograph 8. Former location of the Old Powerhouse Separator (SWMU 16) looking north-east.



Photograph 9. Former location of the Hazardous Waste Hopper Storage Area (SWMU 8).



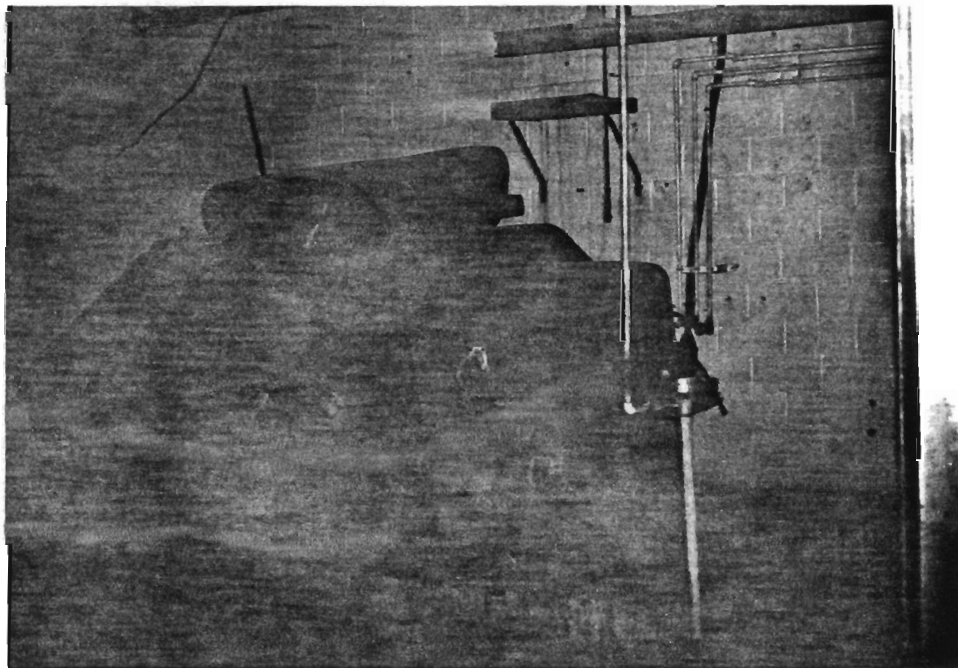
Photograph 10. Former location of Factory B looking southwest.



Photograph 11. Former location of Factory A looking southwest.



Photograph 12. Photograph of polyflex bag located in the West Baghouse (SWMU 1) accumulating D008 wastes.



Photograph 13. Decontaminated plastic bins located in the Less Than 90-day Storage Area (SWMU 5).

APPENDIX B

SITE INSPECTION FIELD NOTES
CORNING GLASS, MAIN PLANT

INDEX

Property of Barbara Hendricks
DPRA Incorporated
Address 245 E 6th St. Ste 813
St. Paul Mn 55102
Telephone (612) 227-6500

Corning Glass - Draw Plant
Corning, NY

March 8, 1989

CAPT LOIS INSPECTION

This Book is manufactured of a High Grade 50% Rag Ledger Paper having a Water Resistant Surface, and is sewed with Nylon Water-proof Thread.

Corning Glass Mem Plant

1:15 pm

Blake Mem	, Corning
Wall Lab	, Corning
Craig Larson	, DPRA
Bubblin	, DPRA

Facility Design

- used to make call of
- Pipes come at the 1st
- factory smoking column
- pipes
- micrometer dial, wear
- Hammer in tubing (was
- + still in road level)
- numerous 10-12' slopes
- 12' blow
- B factory - pressed glass
- (wall)
- C factory still has
- Hammer in tubing

2

This is the original facility
- first building 1870
especially glass line

only manufacturing left is
Remonier H. Inc. - C Factory
- Bldg 36
Powell house on site
- removed boilers
- only at 25% of previous
capacity

Trucks stop for support

Conservation Science products

Offices in many of the buildings
that were used for

Used to be 25 glass production

tank - now there is 1

tank - furnace

(3)
Current Waste Management Practices

- 30c tank elements
- Inbig operation (fumes)
- West baghouse
- collect tank +
mixhouse
- 4 chamber baghouse
- Mix house - mix raw materials
- raw material in bags
- Steel drums
- lead + arsenic oxide
- sand

raw
materials

baghouse dust - 81 Tons for
Pb + As
approved for P004, P005, P006 &
P010, P008
collected in polyprop bag
& shipped off site

Stored in storage area
accumulation area
4 bags - one for each
chamber

(4)

Waste oils

- None from Ft. Powelase
- periodic generation
- Truck Stop - 1-55 gal.
- drum every 4 or 5 months

Paints

- 1 55-gal drum of thinner
- every year

Dequesen

- 35-gal drum
- serviced by Safety Klean

Did clean out as buildings were demolished

West bungalow

- put in 1974
- still active

(A) North bay house
 - back of building 27
 - demolished 1988
 - installed ~ 1974
 - same type of waste as
 West bay house
 D004, D005, D006, D008,
 D010
 - one section
 C Traction
 - 3 chambers

B - West Bay house
 - 4 chambers
 - west wall of Bldg 36

C - NE corner of 27
 West mixhouse
 - old mixhouse
 - sewer to mixhouse
 - particulates from the mixhouse
 in Bldg 38
 - demolished - 1987
 - installed ~ 1976
 - maybe date 60's

same wastes as baghouses

- D - Hagaders Dust Hoppers
- used to collect dust in
hoppers - then switched to
keep (1985)
 - roll off - 20 or 30 yd³
 - not mixed
 - half concrete, half soil
 - lead soils lining
closer

- E - Anderson 2000 Filter
- 2nd floor of building 36
 - used to coat bottom of
piping same microwave
sides w/ Tin oxide
 - generated corrosive wastes
 - filter - scrubber - generated
DOOS wastewater
 - really a generation
collected over in 600 gal
storage tank -
was on the first floor

(7)

in the hazardous waste storage area - not in use now but still in same place as when used.

- filters also hazardous
- collected in hoppers & took to hazardous waste storage area

F - EC coating used: filtered storage in hazardous waste storage area - 2 - 2 1/2 yds plastic hoppers - lined w/ bags - hazardous waste storage - just floor below E. bldg 36

EC - electroconductive

- spray on bottom of pan gets hot in microwave
- stored several filters from Andersen job

G - EC coating hazardous liquid storage area
emptied 6/88 - got tank

(8)

inside SS gold drums -
drums stored in the hazardous
waste storage area

- Stannic chloride & tin
oxide - Corrosive

same location as E, F

- 1980-1985 for EC coating

#

processes

Shut down '84

Clean up '85

H - Cr Treatment Facility

- in east side of Bldg 9

- first floor

- reduced Cr, filter, &
discharge the effluent

- generated sludge & filter
media

- discharged through 002

- filtered & soil off-site

- D007

- Start up - 1970 (1) before

Shut down - ~~1980~~ (?) 1983

removed - 1984

by Decontamination

(9)

- precipitated Cr from wastewater
- all tanks above ground, & indoors.
- no releases from units
- did exceed SPPES limitation (pile material)

F - is the hazardous waste storage that will ~~is~~ being removed (currently empty)

- 4 - oil separation tanks
 - gravity settling tank
 - cool, cullid, pergal to fresh
 - hazardous some water cullid - crushed glass

Bldg 57 - JA

Bldg 8 - #5A

- cullid recycled

- basement of bldg
 - SA tank - ¹⁴ 25 ft x ¹⁰ 60 ft x 10 ft
 depth

- plate steel on concrete pad
 flooring metal
 - open on the top

2A tank - U-shaped
 28 x 70 x 10 ft deep

- plate steel above
 flooring
 baffle

5 - Facet out emulsified oil system
 - for shear spray water treatment
 - in SA tank

Shear Spray - water w/
 emulsified oil unit

Spray water oil or shear
 - for oil phase goes to
 eye from tank to a
 press

(11)

Shen spray water used
as lubricant

- all shut down by 1982
water soluble oils

A Facility - exact location
unknown

K - Solids Classifier + Vacuum Filtration

- grinding + polishing in Bldg
S - (Py glass)

all pipe glass - kids,
Pb, tin, etc

- solid non-hazardous

- Bldg 3, 5, 27 + from
main shop

- removed 1988

- mid 70's 1975-77

for installation

- Bldg 15-20

Noting down - 4 ft diameter

Classifier - 14 ft x 20 ft

Core sil on bottom

L - 8 feet diameter
10 feet high
above ground
water through filter

(15)

Underground -
Polay Pump filter
Shipped to Mrs. Lagardans
landfill

L - new Face ^{out system} Outfall
- now called OOS
- permitted discharge
- now gone
- replaced w/ a smaller
newer system
- was an oil/water separator
- removed 1988
- installed mid 70's

M - new oil/water separator
- discharges to POTW
- collect oil in drum
- oil from steel catalase
- steam heated w/ oil mist
- recycled steam goes
through 3 filters
- installed 1988
- steam to the POTW
no recycle of H₂O

Waste Thinner Accumulation Area

- one 55-gal drum
- concrete floor
- windows
- Bldg # 65

Truck Shop Accumulation Area

- Waste Oil Collection
- 1 55 gal drum
- windows
- no drums
- ~~oil~~

Cooling Tower for Baghouse

- air comes through now
- need to be used for cooling tower for baghouse

- N - Electrostatic Precipitator
for the 5th bank
collected non-hazardous dust
- As - but at $< \epsilon$ PTOx
levels
- 1985 removed
- installed 1974-75

- O - incinerator
- installed 1982
- removed - 1986
- demolished
- incinerator sold
- paper, municipal
refuse
- operational problems
- permitted by the state

~~P - Bayhouse RAR~~

To the best of their knowledge
no landfills in the
facility
no other units

(14)

no releases or spill reports
- excursions on outfalls -
covered under SPDES

Outfalls 003,004,005
- also are fed by
city storm water
- flows under the plant

SWMus to see

- ✓ (1) denitrified areas
- ✓ (2) west baghouse
- ✓ (3) west baghouse poly tarp
- ✓ (4) Hay waste Storage Area
- ✓ (5) bobcat truck (Hay waste area)
- ✓ (6) Hoppers (Hay waste area)
- ✓ (7) Powerhouse bit/water separator
- ✓ (8) Incinerator
- ✓ (9) Waste oil accumulation
& Tank Stop.
- ✓ (10) Paint Stop accumulation

Copy of Photos to Blake Manual

In circuit

- across the fence
- property not divided for plants
- Replication plant next to this on west / coming facility

Oil Water Separator

2 ft x 3 ft x 2 ft deep

baffled

down to POTW

covered w/ removable lid

- steel

sitting on a 3 foot high platform

Chamber

- oil collects in the bottom

oil drains to a

chamber - manually

- SS. get chamber of oil every 2-3 months

Hazardous waste Storage Area

- Concrete covered w/ brick
- closed under approval
- closure plan
- cut up 600 gal
- Steel tank - cleaned
- cleaned hoppers

3:45

Final
inspection

INDEX

CAPT LOIS Inspector
March 8, 1989

Corning Glass, Corning,
New York.

Property of _____

Address _____

Telephone _____

This Book is manufactured of a High Grade
50% Rag Paper having a Water Resisting Surface,
and is sewed with Nylon Waterproof Thread.

Arrived at facility at approximately
1:00 PM met with

Barbara Handrichs, PPRT
Craig Lassin, DPRA
Walter Jones, Corning
Blake Maurer, Corning

Products

originally made all of
the pyrex ware, micro
wave dish line, thermometer
tubing (still being manufactured)
hand blown glass and
preserved glass.

Oldest building around 1870

Only surviving plant in
C. factory, building 36
which manufacture
thermometer tubing. Plant
still survives
operating at about 25%
capacity. Rest of buildings

F

A

T

T.
51
ar

②

the office and do not
generate any wastes
of concern.

Current Waste Management

30C Thermometer lubricating
operation. Waste bag
house. Services both
the tank and the
mix house

Tank, is a furnace,
Mix house, used to
mix raw materials
prior to melting. Raw
materials include
Pb and As.

Bayhouse dust in dust
for Pb and As (P0004,
P0005, P0006, P00010)

Bayhouse stream waste
in bags for lead

(3)

than 90-days, 90-days
begins after bag removed
from accumulation
point (bag house).

Waste Oil are shipped
off-site. Have truck shop
which generates a 55 gallon
drum every 4-5 months.

Paint cleaners use PDB
wastes generate about
a drum a year.

Have safety clean degreaser
which service unit about
once every 6 weeks.

CEST assisted in demolition
of main plant for
disposal of chemicals.

Wet bag house installed
in 1974.

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Post Waste Management Units.

North Bayhouse (A)

- N of Bldg 27
- demolished 1988, installed in 1974
- handled glass tanks in B-factory, managed same type of materials as W-bayhouse
- 3 chamber

West Bayhouse (B)

- W of Bldg 36
- 4 chamber bayhouse
- installed 1974 (currently Active)

West Warehouse Post Collector (C)

- NE corner of 27
- Emissions from particulates from mix process which were raised in Bldg 38
- Demolished about 2 years ago. Installed approx 1970.

F

A

T

T
5
at

(5)

o same waste listing as
baghouse

Hazardous Dust Hopper (D)

- o collection area for materials from units A, B, C. Placed in hopper up to approx. 3 years.
- o 20-30 yds roll off
- o located $\frac{1}{2}$ dieneamoy and $\frac{1}{2}$ gravel.
- o Closed under DEC in 1988.

Andersen 200 Air Filter (E)

- o located 2nd floor of Bldg 36
- o Coated bottom of dishes w/ Tin Oxide coating and acid which generated corrosive waste
- o essentially a scrubber which discharged to a tank

F

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ar

(6)

o Corning resubmitted
closure and did
not include this
unit since they
considered it a
generation point.

EC Coating used filter (F)
storage

- o Bldg. 36 first floor
- o used for microwave
coating (EC Electro
conductive, Tin Oxide
- o Used to store filter
trans Anderson 200
- o 2 - 2 1/2 yd³ heppus

EC Coating hazardous liquid (G)
storage

- o Holding tank which was
drained into 55-gal
drum. Would haul
off site when 60 or
70 drums were

F

A

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ar

(7)

street

- o liquid from Anderson unit
- o tanks and drums located in same area
- EC units operation from (H) ~~1979~~ to approximately 1980 to 1984.

Cr Treatment facility

- o located east side of Bldg 6
- o treatment facility to convert Cr from plating shop
- o did generate some sludge (primarily filters) filters listed for Cr.
- o Started ~~in 1970s~~ prior to 1970s shut down in 1983
- o discharged to outfall 002. ~~equipment removed~~
- o Closure in 1984.
- o entire unit located

F

A

T

T
5
at

(8)

incubors above ground
• no releases to unit
beside permitted to
SPDES

Treatment for OWS

- in bldg & had an oil separation system.
- gravity separation of oil and water. Also had filter for removal of colloid (revised in process).
- 2 tanks. 1/2 inch carbon steel
approx 5A 20 feet by 60 feet
8 feet deep.
- approx 2A 40 feet by 5
feet in size
of 5A, approx
20 by 10 feet.
- Facet emulsified oil system.
to remove water of
emulsified oil from
shen spray. Used
as a lubricate for

(9)

glass shut. Assume it
2 different systems
from SA tank. Would
have been shut down
in 1982.

1A tank

2A tank

4A tank

5A tank

} Glass tanks
Process

Retreat to ODY

- had a clarifier for grinding and polishing of glass. Pyrex glass does not use metals and then free working. Silica removed to suitable landfill
- Use for removing waste (includ metal) (ing)
- decommissioned 1988, installed mid 1990s
- Clarifier 121 feet dia by 20 feet. to come located

underground. Tend to rotary down filter for drying.

Powertehouse

- permitted SPDES outfall
- heat oil system
- located in building 45
- Oil/Water separator
- torn down last summer
- 15 to 20 inches
- 6 feet diameter 10 feet high
- above ground tank.

Powertehouse Oil/Water Separator

- discharges to POTW
- treats steam condensate which is treated w/ oil for lubrication (installed last year)
- other constant discharge not recycled.

Electrostatic Precipitator

- used to service 5A tank.
- collected non hazardous

F

A

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ar

(11)

dust from pyrex
◦ removed 1985, installed 1975

◦ Incinerator/Waste heat Boiler
◦ burned paper & wood
◦ operated from 1982 to 1986
◦ sold and moved off-site
◦ Air permitted by DEC

◦ To best of knowledge no
landfills ever located at
site

No
◦ All releases to list of
knowledge ~~will have~~
~~been~~ ^{Have been}
excursions on SPOES
outfalls.

Shuman's electrical (actives)

- West Bayhouse
- Bayhouse ~~from~~ storage area
- purchase of water sig
- less than 90-day drum
storage area

F

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T
51
at

Waste oil tank

~~Demolished~~

Paint Storage Area

Finished introductory meeting
at 3:00

P-1 paint storage area,
2 55 gallon drums
stored for paint
wastes

P-2 waste oil collection,
1 55 gallon drum
located indoors. No
drums in evidence
at release

P-3 west bay house

P-4 hyper prior to
bay house - 2 55 gallon drums
found in bay house

P-5 rest of P-1

F

A

T

T
51
at

P.6 Former location of
memoria 722

P.7 Powerhouse oil/water
separator. Capacity
separator using baffles.
oil drains to tank
located w/ unit
when full drained
and shipped off-site
(1 drum every 6 to
8 months)

P.8 Former location of
powerhouse oil/water sep.

P.9 Hydrogen storage area
(no longer in this location)

P.10 Former location of
B battery, May 52
in back yard

P.11 Former location of
A factory

P-12 - West pyreneol,
molar photography

P-13 - 50 filter storage
hoppers. Were stored
in this room when
in use. Room also
used for any hazardous
waste generated on-site.
Room has been de-
contaminated.

Finished site tour at
3:00 PM