PRELIMINARY
RCRA FACILITY ASSESSMENT
CORNING VITRO CORPORATION
PRESSWARE PLANT
CORNING, NEW YORK
Work Assignment: R02040
(Ref. No. 1-635-393)

Prepared for:
U.S. Environmental Protection Agency

Contract: 68-W9-0003

TRC
TRC Environmental Corporation

TRC formerly Alliance Technologies Corporation
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December 1, 1993

Mr. Paul Counterman, P.E.
Chief, Bureau of Western Hazardous Waste Programs
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233

Reference: Contract No. 68-W9-0003, TES-6
Work Assignment No. R02040
Preliminary RCRA Facility Assessment
New York State
(Ref. 1-635-393)

Subject: Deliverable: Preliminary RCRA Facility Assessment for Corning Vitro Corporation - Pressware Plant - EPA ID No. NYD000824409.

Dear Mr. Counterman:

At the request of the U.S. Environmental Protection Agency, enclosed for your review is one copy of the Preliminary RCRA Facility Assessment Report for the above referenced facility. Comments and additional information should be submitted to Mr. John G. Nevius, U.S. EPA Work Assignment Manager. Due to contractual requirements between EPA and TRC, it is requested that your review be submitted by January 15, 1994. Any efforts by NYSDEC to meet this date would be greatly appreciated.

Mr. Nevius' address is as follows:

Mr. John G. Nevius
Work Assignment Manager
U.S. Environmental Protection Agency
Air and Waste Management Branch
(2AWM-HWF-Room 1037)
26 Federal Plaza
New York, NY 10278

Questions concerning this submission should be directed to Mr. Nevius at (212) 246-9578.

Very truly yours,

Michael F. Clark, P.E.

cc: John G. Nevius/EPA Work Assignment Manager (w/o)
Douglas Sullivan/TRC TES-6 Regional Manager (w/o)
Dixon Rollins/Region 8-Hazardous Substance Engineer (w)
TES ZPMO

PRELIMINARY
RCRA FACILITY ASSESSMENT
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U.S. ENVIRONMENTAL PROTECTION AGENCY
Air and Waste Management Division
26 Federal Plaza
New York, New York 10278

Work Assignment No.:	R02040
EPA Region:	II
EPA Site/Facility I.D. No.:	NYD000824409
Contract No.:	68-W9-0003 (TES-6)
TRC Document No.:	NY-R40.R27
TRC Project No.:	1-635-393-3-2000-0
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Subcontractor No.:	N/A
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Date Prepared:	November 29, 1993

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1.0 INTRODUCTION

TRC Environmental Corporation (TRC - formerly Alliance Technologies Corporation) was requested by the U.S. Environmental Protection Agency (EPA) under EPA Contract No. 68-W9-0003 (TES-6), Work Assignment No. R02040, to perform a Preliminary RCRA Facility Assessment (RFA) of the Corning Vitro Corporation Pressware Plant, in Corning, New York (EPA I.D. No. NYD000824409). Tasks were performed in accordance with the Preliminary RFA Scope of Work provided by EPA on June 8, 1993, and TRC's Work Plan, dated July 14, 1993.

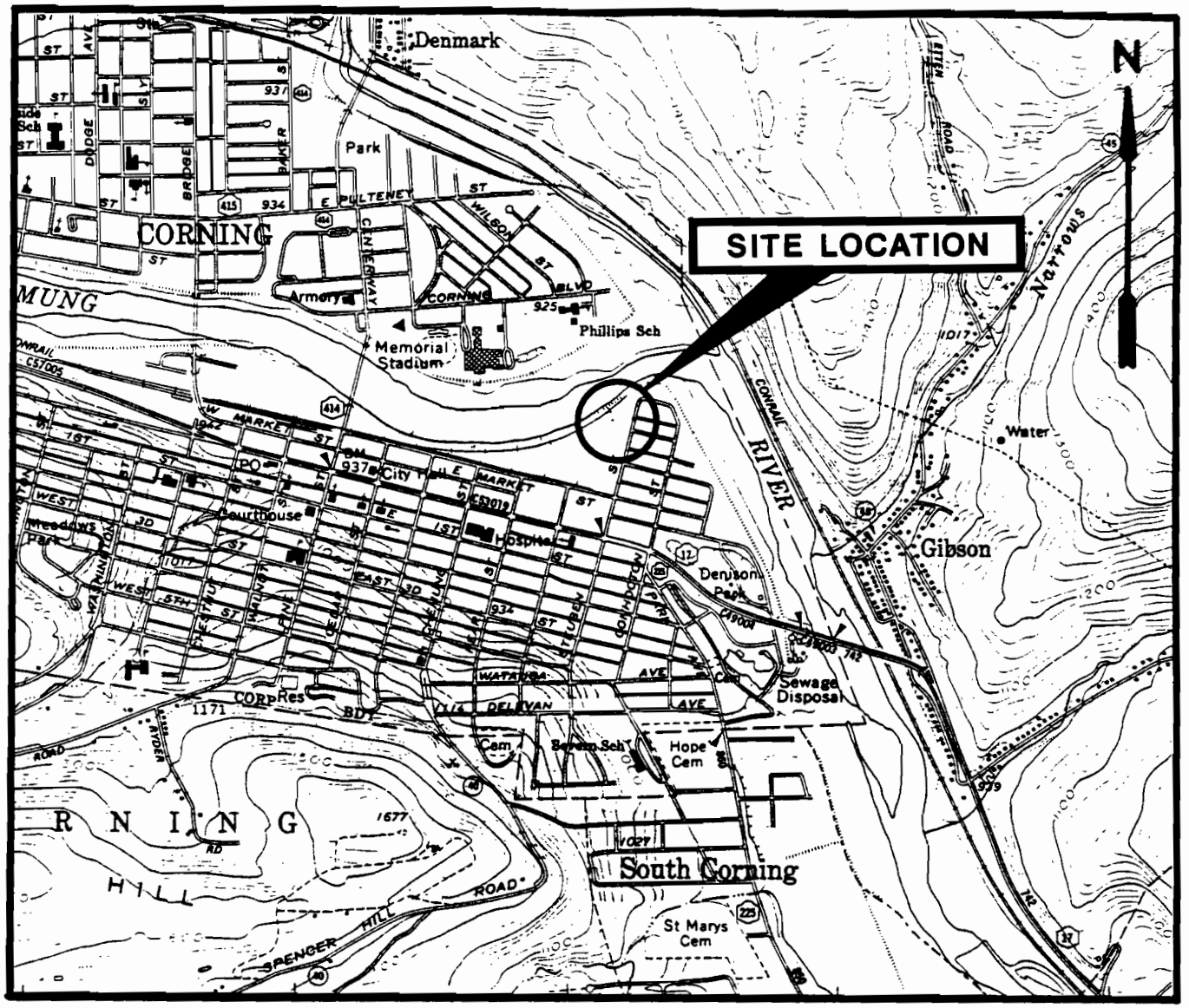
The purpose of the Preliminary RFA is to identify, gather information on, and evaluate the potential for releases to the environment from areas of concern (AOCs), including solid waste management units (SWMUs), hazardous waste management units (HWMUs), and areas where releases may have occurred in the past. In addition, the Preliminary RFA will provide information for EPA use in the ranking of this facility using the National Corrective Action Prioritization System (NCAPS).

Background information for this Preliminary RFA Report was obtained through file searches conducted at the New York State Department of Environmental Conservation (NYSDEC), Albany, New York, Bureau of Hazardous Waste Facility Compliance, Bureau of Wastewater Facilities Design, and the Bureau of Air Application, Review and Permitting.

2.0 FACILITY DESCRIPTION

The Corning Vitro Corporation Pressware Plant (Pressware Plant) is located on Steuben Street, in the Town of Corning, New York, adjacent to the Corning, Inc. Fallbrook Plant. The facility occupies 400,000 square feet and manufactures dinnerware and cooking ware.

The Pressware plant is located between Steuben Street, and the Fallbrook Plant near Tioga Avenue. The Chemung River flows northeasterly along the facility's northern property border (CDM, 1990). Figure 1, the Site Location Map, identifies the location of the facility on a USGS map. The facility is located in an industrial, commercial and residential neighborhood. Across Tioga Avenue is a library and two apartment buildings. Two schools and associated school fields are located across the river (TRC, 1993).



SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

QUADRANGLE LOCATION

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP QUADRANGLE, CORNING, N.Y.

TRC	TRC Environmental Corporation 18 Worlds Fair Drive Somerset, N.J. 08873
CORNING VITRO CORP. PRESSWARE PLANT STEUBEN STREET, CORNING, N.Y.	
SITE LOCATION MAP	
Date: 9-9-93	Proj.# 1-635-393 | Fig. 1
WORK ASSIGNMENT NO. R02040	

TRC identified seven Areas of Concern (AOCs) during the file review and the VSI. These areas, including their spacial location, containment features, years of use, stored and release status, are described below and are summarized in Table 1. A Corrective Action Prior to Loss of Interim Status (CAPT LOIS) Inspection was conducted in 1989. Several SWMUs were identified during this inspection (CDM, 1990). During TRC's VSI, these SWMUs were verified. The Site Sketch (Figure 2) illustrates the relative locations of the AOCs.

AOC #1, the Hazardous Waste Accumulation Area, (identified as SWMU #1 in the CAPT LOIS report), has been active since 1987. The area is located within the plant, adjacent to the south-eastern wall. The floor of the accumulation area is concrete with a sloped entry and cinderblock walls. The dimensions of the area are approximately 20 feet by 20 feet (CDM, 1990). The Hazardous Waste Accumulation Area was certified by James G. Trencansky, of Corning Inc., to have stored waste for less than 90 days since May 1987 (Trencansky, 1990).

Wastes from satellite accumulation areas are transferred to the accumulation area (AOC #1). The 55-gallon drums are stored on wooden pallets and incompatible wastes are segregated. Wastes stored in the accumulation area at the time of the VSI included ammonium hydroxide waste from the blueprint machine, ferric chloride etch waste (D002), nickel nitrate waste solution (D001), mineral solvent waste (D001), and waste enamel (D006, D007, D008) (TRC, 1993).

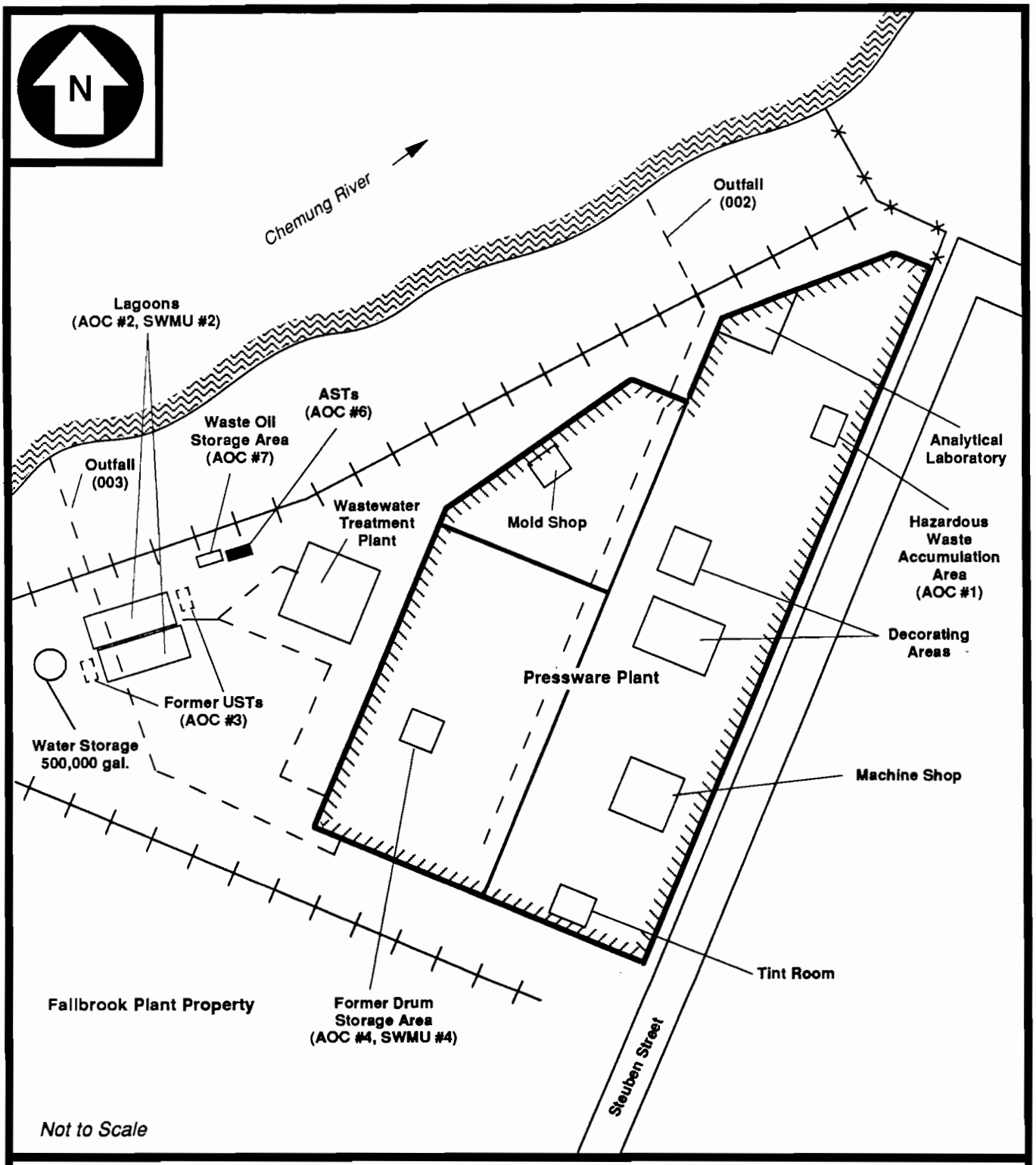
AOC #2, Lagoons, (identified as SWMU #2 in the CAPT LOIS report) are located on the western side of the plant building. There are two lagoons, with a combined surface area of 60,000 square feet. The lagoons are lined with a membrane liner and are enclosed by a locked, chain-link fence. The lagoons have been active since 1975, collecting non-hazardous contact cooling water containing glass fines (CDM, 1990).

Water from glass rinsing operations and cooling hot glass is routed to the lagoons. After solids have settled, water is discharged to the river via a SPDES permit which is discussed further in Section 3.0. Formerly, hydraulic oil from the machines was skimmed from the lagoon surface and stored in aboveground storage tanks. However, these ASTs are currently not in use because the plant now uses glycol instead of hydraulic oil. The settled sludge is disposed of in a solid waste landfill (CDM, 1990). The sludge was last removed in 1984 (TRC, 1993).

AOC #3, Former Underground Storage Tanks, (identified as SWMU #3 in the CAPT LOIS report), includes two steel underground storage tanks which were installed around 1960 and removed in December 1988. These USTs each had a capacity of 550-gallons and were located at the end of each of the lagoons (AOC #2). Waste hydraulic oil skimmed from the lagoons was stored in the tanks. Removal of the tanks

TABLE 1. AREAS OF CONCERN

AOC No.	Area of Concern (AOC)	AOC Description	Operational Dates	Release Status	Reference	Medium/ Compound Detected	Off-site Migration Potential
1	Hazardous Waste Accumulation Area (SWMU #1)	20′ x 20′ interior room with concrete floor and cinderblock walls	1987 - present	no release	CDM, 1990 TRC, 1993	none	low; hazardous wastes are well contained.
2	Lagoons (SWMU #2)	60,000 square feet surface area west of facility	1975 - present	potential release	CDM, 1990 TRC, 1993	none	unknown; contents of lagoon discharged to river.
3	Former Underground Storage Tanks (SWMU #3)	Two USTs were located adjacent to lagoons	1960-1988	no release	CDM, 1990	none	low; USTs were removed.
4	Former Drum Storage Area (SWMU #4)	20' x 20' area inside plant on ground floor	unknown-1990	potential release	CDM, 1990 TRC, 1993	1,1,1-TCA rinse - 1.0 µg/L	unknown; area clean closed in 1990
5	Satellite Hazardous Waste Accumulation Areas	Located inside plant near generation areas	unknown - present	no release	TRC, 1993	none	low; hazardous wastes are well contained.
6	Aboveground Storage Tanks	Two gasoline and diesel ASTs west of facility	unknown - present	potential release	TRC, 1993	none	unknown; slight oil sheen observed nearby.
7	Waste Oil Storage Area	West of facility adjacent to AOC #6	unknown - present	no release	TRC, 1993	none	unknown.



SITE SKETCH

CORNING VITRO CORPORATION- PRESSWARE PLANT
CORNING, NEW YORK

TRC

Figure 2.

MS75/1/N

was inspected and observed by NYSDEC. No evidence of releases was found (CDM, 1990).

AOC #4, Former Drum Storage Area, (identified as SWMU #4 in the CAPT LOIS report), is located on the ground floor of the Pressware Plant with no outside access. The area is approximately 20 feet by 20 feet. While in use, a chain link fence surrounded three sides of the area. The fourth side was a painted concrete block wall. This wall separated the storage room from the water softener room. A containment dike surrounded the area (Corning, 1990c; CDM, 1990).

In 1987, the drum storage area was relocated to AOC #1 and AOC #4 was converted to a machine shop. At that time, cinder block walls were constructed. The area now has walls on three sides and the fourth side of the room is open. Several cracks in the concrete floor leave the integrity questionable. No hazardous waste has been stored at AOC #4 since 1987 (Corning, 1990c). The area is currently being used for equipment storage (TRC, 1993). This area went through closure in 1990 and was officially closed in 1991 (TRC, 1993).

The maximum inventory of waste at any given time in the former drum storage area was thirty-five 55-gallon drums, in addition to other smaller miscellaneous containers. There is no history of spills in this area (Corning, 1990c).

AOC #5 includes several Satellite Hazardous Waste Accumulation Areas. These areas are located throughout the facility where waste is generated and then transported for storage to AOC #1, Hazardous Waste Storage Area. The following is a description of the individual accumulation areas and the wastes observed during TRC's VSI:

- Decorating Area: one 55-gallon drum of waste enamel solids labeled D006, D007 and D008.

- Mold Shop Area: one 55-gallon drum of chromic acid solution, one 55-gallon drum of chromic acid contaminated filters and one 55-gallon drum of waste opticlear (D001) (TRC, 1993).

AOC #6 includes two aboveground tanks for gasoline and diesel fuel storage. These ASTs are located west of the Pressware Plant, near the lagoons. Although the tanks appeared to be in good condition, an oil sheen was observed on a puddle approximately two feet from the ASTs, indicating a possible release (TRC, 1993).

AOC #7 is an area used to store drums of waste oil adjacent to the gasoline and diesel storage area (AOC #6). At the time of the VSI, approximately eight 55-gallon drums were observed. The drums were stored on pallets and stacked two high. Drums

stored in this area were not labeled, however, Corning personnel indicated that the drums contained waste oil (TRC, 1993).

3.0 FACILITY HISTORY/ACTIVITIES

The Corning Vitro Corporation - Pressware Plant was built in 1938 on the site of the Fallbrook Railyard. The plant manufactures Corelle dinnerware and cookware and currently employs 500 people.

All dinnerware and cookware produced at the pressware plant is made of opaque glass. The manufacturing process starts with the mixing and melting of sand and previously manufactured glass (cullet) in a 150 million gallon, electrically fired hot glass tank. The sand consists of oxides of aluminum, silicon, boron, calcium, sodium, potassium and fluorine. Liquid glass from the tank is poured into a press for shaping and is then allowed to cool. The glassware passes through a kiln for annealing which strengthens the final product. It is then decorated using enamel which contains solvents and traces of metals such as lead, cadmium and thorium and is re-fired.

Hazardous wastes are generated by the following processes:

- chromic acid and solids contaminated with chromic acid from the preparation, cleaning and coating of glass molds;
- solvents such as mineral spirits and isopropyl alcohol and solids contaminated with waste enamel from the decoration process;
- ferric chloride which is used for etching; and
- nickel which is used for a proprietary process (TRC, 1993).

On November 6, 1985, the facility requested that the transfer, storage and disposal portion of their facility be closed, which would reduce the allowed time hazardous waste could be stored in the Hazardous Waste Storage Area. The closure was non-imminent, therefore no decontaminating of process equipment, exhaust systems or production areas would be conducted. The facility understood that these procedures would need to be completed in the future in order to completely close the plant (Corning, 1985). The facility formally requested a Part B denial/Part A withdrawal for the plant (Corning, 1986).

The exact status of the facility was in question by the NYSDEC and EPA in 1989 and NYSDEC requested the facility to prepare and implement the closure plan prior to the issuance of regulatory fees (NYSDEC, 1989).

An inspection of the facility was conducted on June 18, 1990, by NYSDEC. It was believed that the facility was operating as a generator of hazardous waste, and therefore was in violation of 6NYCRR Part 372.2(b)(2)(ii), which requires the generator to confirm by written communication that the designated transporter is authorized to deliver waste to the facility on the manifest. It also required that copies of the contingency plan be submitted (NYSDEC, 1990). The facility responded on July 25, 1990, with appropriate transportation permits and contingency plan notifications (Corning, 1990b).

The Former Drum Storage Area (AOC #4) went through the closure process in 1990. Three wipe samples were collected from the floor. Two concrete chips samples were collected from the concrete floor in areas where it was cracked (Corning, 1990c). The analytical results indicated quantifiable but negligible, amounts of cadmium, chromium and polychlorinated biphenyls (PCBs) in the wipe samples. Quantities of lead were identified in each of the three samples that were slightly higher than those described for cadmium and chromium. Corning indicated that the lead was present due to lead based paint formerly used to coat the floor in this area. NYSDEC determined that the wipe sample results were not significant enough to warrant further investigation or decontamination in this area (Corning, 1990c).

The analysis of the two chip samples identified measurable concentrations for all parameters tested. Of these, slightly elevated results were obtained for chromium and lead. A background concrete sample collected at the same time showed approximately the same concentration of chromium, and a concentration of lead approximately three times that in the confirmatory samples. Based on a comparison to this background sample, Corning personnel judged the results from the two concrete chip samples not to be cause for concern, additional investigation or decontamination (Corning, 1990c).

The rinse water was analyzed for 1,1,1-trichloroethane and ignitability only. The ignitability was reported as greater than sixty (60) degrees celsius, and 1.0 µg/L of 1,1,1-trichloroethane was identified. Corning personnel and the NYSDEC agreed that the results from this sample presented no cause for concern. However, based on these results, the wash water was considered hazardous and was disposed of with other similar wastes (Corning, 1990c).

The independent professional engineer's certification for closure of this facility was received by NYSDEC in May 1991. NYSDEC thus considered the facility officially closed, and their authority to operate as a Treatment, Storage, and Disposal Facility (TSDF) was terminated (NYSDEC, 1992).

Sludge from the two lagoons (AOC #2) was analyzed in 1982 and considered to be non-hazardous. Sampling locations and analytical results are included in Appendix B (EPA, 1986).

The Pressware Plant discharges waste water and non-contact cooling water under SPDES permit number NY0003981 which will remain in effect until 1998. This permit is shared with the adjacent Fallbrook Plant and allows for effluent to be discharged to the Chemung River via outfalls 002 and 003. Contact and non-contact cooling water from the lagoons at the Pressware Plant is discharged to outfall 003. Non-contact cooling water from the Pressware Plant is also discharged at outfall 002. Parameters tested monthly include: temperature, pH, metals, oil and grease, total suspended solids, biological oxygen demand (BOD), and 1,1,1-trichloroethane. Daily maximum discharge limits for oil and grease and BOD are 50 mg/L and 45 mg/L respectively. Limits for metals are not discussed here since their discharge is mainly related to Fallbrook Plant processes. Reports provided by Corning Inc. did not indicate any exceeded parameters (Corning, 1993). It is not known if the SPEDES permit has been exceeded on other occasions.

The Pressware Plant has 14 air permits with NYSDEC. These permits regulate particulate emissions from the plant.

4.0 ENVIRONMENTAL SETTING

A well exists on site for process and non-contact cooling water. However, the facility receives its drinking water from the municipal water supply. The facility is not located over a single source aquifer and the distance to the Chemung River, the nearest surface water body is 50 feet. This water is classified as "C", recreational. The plant does not lie within the 100 year floodplain (Corning, 1987).

The facility has always been connected to the city sewer system for sanitary waste (TRC, 1993).

5.0 PRELIMINARY EVALUATION

Information regarding the five AOCs identified through the file review and VSI is summarized in Table 1, AOC Summary. The summary checklists are provided in Appendix A, analytical results indicating closure results are presented in Appendix B and documentation supporting the closure of the Former Drum Storage Area (AOC #4) is presented in Appendix C.

The analytical results from the closure of the Former Drum Storage Area (AOC #4) were reviewed by Corning Inc. and NYSDEC personnel and were considered

negligible, requiring no further decontamination or sampling. Sludge was also analyzed from the lagoons and the results indicated that it was non-hazardous. The lagoons are lined with a membrane, providing containment of the water and sludge from the soil beneath. The lagoons discharge the water into the adjacent river, under a current SPDES permit.

AOC #1, Hazardous Waste Accumulation Area, has a low potential for release, and has no evidence of a release. The area has a concrete floor and cinder block walls, providing secondary containment.

AOC #2, Former Underground Storage Tanks, were removed. However, no information found in the files support that they were adequately inspected, or that sampling was conducted. The potential for a release to have occurred is unknown.

AOC #3, Lagoons, have a moderate potential for release. They are lined and the sludge has been determined to be non-hazardous. The water discharged from the lagoons into the Chemung River is monitored under an SPDES permit.

AOC #4, Former Drum Storage Area, was closed in 1990. Analytical results showed that although contaminants were found, the concentrations were negligible. No sampling of the soil beneath the area was conducted.

AOC #6, Aboveground Storage Tanks, are used to store gasoline and diesel fuel. Although the ASTs appeared to be in good condition, a slight oily sheen was observed on a puddle approximately two feet from the tanks indicating a potential for release.

6.0 SUMMARY

The Corning Vitro Corporation - Pressware Plant manufactures pressed glass products that are used as dinnerware or cookware. The main raw material used in the process is sand. Wastes generated in the manufacturing process include enamels, solvents, chromic acid, ferric chloride and nickel.

Hazardous waste was originally stored in AOC #4, the Former Drum Storage Area, and moved to AOC #1, Hazardous Waste Accumulation Area, in 1987. A machine shop began operations in the Former Drum Storage Area, and currently the area is used for equipment storage. The AOC was cleaned and certified in 1990. Analytical results from three wipe samples and two concrete chip samples indicated quantifiable but negligible amounts of contamination.

REFERENCES

CDM, 1990. CAPT LOIS Report prepared by Versar, Inc., from Pam Hillis, CDM Federal Corporation, to Margaret Emile, U.S. EPA, December 13, 1990.

Corning, 1985. Letter and attached Closure Plan from Susan McLaren, Corning Inc., Energy and Environmental Control, to Randy McDermott, NYSDEC, Regulatory Fee Determination Unit, November 6, 1985.

Corning Inc., 1987. Certification of Answers to Request for Information Regarding Solid Waste Management Units prepared by Ronald Mathews, Corning Inc., Vice President of Manufacturing and Engineering, for U.S. EPA, Air and Waste Management Division, March 11, 1987.

Corning, 1990a. Letter from James G. Trencansky, regarding the Contingency Plan, to appropriate personnel. Copy of contingency plan attached. July 11, 1990.

Corning, 1990b. Letter for James G. Trencansky, Corning, to Dixon Rollins, NYSDEC, regarding transportation permits and contingency plan. July 25,1990.

Corning, 1990c. Hazardous Waste Storage Area Closure Plan.

Corning, 1990d. Letter from Karen Gross, Corning Inc. to Stephen Malsan, NYSDEC October 18, 1990.

Corning, 1993. Letter to TRC Environmental from Karen Gross enclosing information requested during site inspection October 11, 1993.

NYSDEC, 1989. Letter to Mr. Manual of Corning Inc., from James Sibbald Moran, P.E., of NYSDEC, May 28, 1989.

NYSDEC, 1990. Letter to Jim Trenconsky, Corning Glass Works, from Dioxin F. Rollins, P.E. NYSDEC, regarding Hazardous Waste Compliance Inspection. July 6, 1990.

NYSDEC, 1990. NYSDEC Inspection Form prepared by Darshan R. Patel, Asst. Chemical Engineer, for NYSDEC, Division of Hazardous Waste Substances Regulation, June 21, 1990.

NYSDEC, 1990. Letter to Ms. Gross, Corning Inc., from Salvatore Carlomagno, P.E., NYSDEC - November 30, 1990.

NYSDEC, 1991. NYSDEC Inspection form performed by Joseph Gavin, Environmental Engineer, for NYSDEC, Division of Hazardous Waste Regulation, November 7, 1991.

NYSDEC, 1992. Letter from Salvatore J. Carlomango, NYSDEC, Bureau of Hazardous Waste Regulation, to Karen Gross, Corning Inc., Sr. Environmental Control Engineer, re: Closure of Corning Inc., February 7, 1992.

NYSDEC, 1993. Letter to Ms. Karen Gross, Corning Inc., from Jane Schmitt, NYSDEC. RE: SPDES permit. July 29, 1993.

Sear-Brown Group, 1991. Partial Closure Certification prepared by Sear-Brown Group for Corning Inc., May 1991.

TRC, 1993. Logbook for Visual Site Inspection. Completed by C. Fortin, TRC Environmental Corporation. September 29, 1993.

Trencansky, 1990. Certification of Hazardous Waste Accumulation Area operating as a less than 90-day storage since May 1987, signed August 6, 1990.

APPENDIX A

COMPLETED PRELIMINARY REVIEW CHECKLIST

PRELIMINARY RCRA FACILTY ASSESSMENT

PRELIMINARY REVIEW CHECKLIST

WORK ASSIGNMENT NO. R02040

KEY

P	PROVIDED
NP	NOT PROVIDED
A	ACCEPTABLE
NA	NOT ACCEPTABLE
Y	YES
N	NO
OR	OBSERVED RELEASE (DIRECT EVIDENCE)
SR	SUSPECTED RELEASE (INDIRECT EVIDENCE)
PoR	POTENTIAL RELEASE (POSSIBLE FOR A RELEASE TO OCCUR)
NR	NO RELEASE HAS OCCURRED (DIRECT EVIDENCE)
SWMU	SOLID WASTE MANAGEMENT UNIT
AOC	AREA OF CONCERN

RFA COMPONENT 1: PRELIMINARY REVIEW (PR)

A. General Manufacturing process description: ✓P ___NP ___A ✓NA

Comments: not very detailed

B. General Facility waste generation description: ✓P ___NP ___A ___NA

Comments:

C. Environmental/hydrogeologic setting description: ___P ✓NP ___A ___NA

Comments:

D. SWMU identification list: ✓P ___NP ___A ___NA

Comments:

E. Was the SWMU subset of RCRA regulated units denoted? ___Y ___N ___A ___NA

Comments:

F. Were other AOC's (e.g. spills, leaks) listed? ___Y ✓N ___A ___NA

Comments:

G. Were potential off-site exposure pathways identified? (e.g. drinking water wells, irrigated farmland, swamps) ___Y ___N ___A ✓NA

Comments: From the map, a river is nearby. EPA checklist also guess some info. not specifically addressed in any documents.

H. Detailed SWMU or AOC information:

SWMU # j or AOC Drum Storage Area

1. Is the unit located on a facility map? ✓Y ___N ___A ___NA

Comments: Corrective Action GCL

2. Unit characteristics (e.g. design, liners, age, construction):
✓Y ___N ___A ___NA

Comments:

3. Waste characteristics (e.g. types, volumes, classification):
✓Y ___N ___A ___NA

Comments:

4. Waste migration pathways:

a. Air: ___CR ___SR ___PoR ✓NR

i. Is documentation provided? ___Y ✓N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___Y ___N

Comments:

b. Soil: ___CR ___SR ___PoR ✓NR

i. Is documentation provided? ✓Y ___N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ✓Y ___N

Comments: Closure Certification, data, + discussion

c. Ground water: ___CR ___SR ___PoR ✓NR

i. Is documentation provided? ___Y ✓N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___Y ___N

Comments:

d. Surface water: ___CR ___SR ___PoR ✓NR

i. Is documentation provided? ___Y ✓N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___Y ___N

Comments: _____

e. Subsurface gas: ___CR ___SR ___PoR ✓NR

i. Is documentation provided? ___Y ✓N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___Y ___N

Comments: _____

5. Conclusions/Recommendations:

a. ___ No conclusion or recommendation provided.

✓ Recommend no further action.

___ Recommend a sampling visit.

i. Was sampling performed as part of this RFA? __Y __N

ii. Will the sampling be conducted in a RFI? __Y __N

___ Recommend interim measures.

___ Recommend a RFI.

Comments: _____

b. Is the recommendation acceptable? ✓Y ___N

Comments: Area was well contained, and analytical results are well supported.

H. Detailed SWMU or AOC information:

SWMU # 2 or AOC Old Drum Storage Area

1. Is the unit located on a facility map? ✓Y ___N ___A ___NA

Comments: Unknown since 1987

2. Unit characteristics (e.g. design, liners, age, construction):
✓Y ___N ___A ___NA

Comments:

3. Waste characteristics (e.g. types, volumes, classification):
✓Y ___N ___A ___NA

Comments:

4. Waste migration pathways:

a. Air: ___CR ___SR ___PoR ✓NR

i. Is documentation provided? ___Y ✓N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___Y ___N

Comments:

b. Soil: ___CR ___SR ___PoR ✓NR

i. Is documentation provided? ___Y ✓N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___Y ___N

Comments:

c. Ground water: ___CR ___SR ___PoR ✓NR

i. Is documentation provided? ___Y ✓N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___Y ___N

Comments:

d. Surface water: ___CR ___SR ___PoR ✓NR

i. Is documentation provided? ___Y ✓N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___Y ___N

Comments: Uncertain location

e. Subsurface gas: ___CR ___SR ___PoR ✓NR

i. Is documentation provided? ___Y ✓N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___Y ___N

Comments:

5. Conclusions/Recommendations:

a. ✓ No conclusion or recommendation provided.

___ Recommend no further action.

___ Recommend a sampling visit.

i. Was sampling performed as part of this RFA? __Y __N

ii. Will the sampling be conducted in a RFI? __Y __N

___ Recommend interim measures.

___ Recommend a RFI.

Comments: There is no clear information in the files. The area appears well contained, but more information to be needed.

b. Is the recommendation acceptable? ✓Y ___N

Comments:

H. Detailed SWMU or AOC information:

SWMU # 3 or AOC Underground Storage Tanks

1. Is the unit located on a facility map? ✓ Y ___ N ___ A ___ NA

Comments: Active since ~1960. Removed in 1988.

2. Unit characteristics (e.g. design, liners, age, construction): ✓ Y ___ N ___ A ___ NA

Comments: ______

3. Waste characteristics (e.g. types, volumes, classification): ✓ Y ___ N ___ A ___ NA

Comments: ______

4. Waste migration pathways:

a. Air: ___ CR ___ SR ___ PoR ✓ NR

i. Is documentation provided? ___ Y ✓ N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___ Y ___ N

Comments: ______

b. Soil: ___ CR ___ SR ___ PoR ✓ NR

i. Is documentation provided? ___ Y ✓ N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___ Y ___ N

Comments: There is no closure information available on this area.

c. Ground water: ___ CR ___ SR ___ PoR ✓ NR

i. Is documentation provided? ___ Y ✓ N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___ Y ___ N

Comments: ______

d. Surface water: ___CR ___SR ___PoR ✓NR

i. Is documentation provided? ___Y ✓N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___Y ___N

Comments:_____

e. Subsurface gas: ___CR ___SR ___PoR ✓NR

i. Is documentation provided? ___Y ✓N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___Y ___N

Comments:_____

5. Conclusions/Recommendations:

a. ✓ No conclusion or recommendation provided.

___ Recommend no further action.

___ Recommend a sampling visit.

i. Was sampling performed as part of this RFA? __Y __N

ii. Will the sampling be conducted in a RFI? __Y __N

___ Recommend interim measures.

___ Recommend a RFI.

Comments: There is no information about the extent of this area or analytical testing done. More information is needed.

b. Is the recommendation acceptable? ✓Y ___N

Comments:_____

H. Detailed SWMU or AOC information:

SWMU # 4 or AOC Lagoons

1. Is the unit located on a facility map? ✓Y ___N ___A ___NA

Comments: Active

2. Unit characteristics (e.g. design, liners, age, construction):
✓Y ___N ___A ___NA

Comments:

3. Waste characteristics (e.g. types, volumes, classification):
✓Y ___N ___A ___NA

Comments:

4. Waste migration pathways:

a. Air: ___CR ___SR ___PoR ✓NR

i. Is documentation provided? ___Y ✓N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___Y ___N

Comments:

b. Soil: ___CR ___SR ___PoR ✓NR

i. Is documentation provided? ___Y ✓N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___Y ___N

Comments: Lagoons are lined.

c. Ground water: ___CR ___SR ___PoR ✓NR

i. Is documentation provided? ___Y ✓N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___Y ___N

Comments:

d. Surface water: ___CR ___SR ___PoR _✓_NR

i. Is documentation provided? _✓_Y ___N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? _✓_Y ___N

Comments: NPDES permit and compliance information was available.

e. Subsurface gas: ___CR ___SR ___PoR _✓_NR

i. Is documentation provided? ___Y _✓_N

ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? ___Y ___N

Comments:

5. Conclusions/Recommendations:

a. ___ No conclusion or recommendation provided.

_✓_ Recommend no further action.

___ Recommend a sampling visit.

i. Was sampling performed as part of this RFA? __Y __N

ii. Will the sampling be conducted in a RFI? __Y __N

___ Recommend interim measures.

___ Recommend a RFI.

Comments: All wastes are non-hazardous. Lagoon appears well contained. No evidence of non compliance.

b. Is the recommendation acceptable? _✓_Y ___N

Comments:

I. Did the PR identify any data gaps? ✓ Y ___ N ___ A ___ NA

a. If "Y", list the data gaps: Environmental Setting info, Closure Plans for 2 SWMUs.

Comments: ______

J. Other comments on the PR: ______

① The Closure Plan in the file does not contain a facility location map and [illegible] location it refers to SWMU 1.

② The map in the CAPT WIS report lists a third drum storage area that is not discussed.

RFA Component 2: Visual Site Inspection (VSI)

A. General description of VSI activities: ✓P __NP __A __NA

Comments: The entire plant and surrounding property was inspected.

B. Site safety plan including the monioring of vapor emissions (respirators, chemically resistant clothing, etc.): ✓P __NP __A __NA

Comments: _____

C. Facility inspection:

1. Was each SWMU noted in the PR examined? ✓Y __N

Comments: _____

2. Was each AOC noted in the PR examined? ✓Y __N

Comments: _____

3. Was the entire facility traversed in order to identify additional AOCs identify additinal SWMUs, complete data gaps from the PR, etc.? ✓Y __N __A __NA

Comments: _____

a. Were additional SWMUs and/or AOCs noted ? ✓Y __N

Comments: AOCs 6 & 7 were additional

4. Did the VSI include an inspection beyond the facility boundary? __Y ✓N

Comments: The entire property was traversed

5. SWMU # 1 or AOC # 1 Hazardous Waste Accumulation Area

a. Documentation of field observations in logbook: ✓P __NP __A __NA

i. Visual evidence of unit characteristics (integrity, location): ✓P __NP __A __NA

Comments: 20'x20' interior room with concrete floor and cinderblock walls

ii. Visual evidence of waste characteristics (e.g. labels): ✓P __NP __Not applicable

Comments: All 55-gallon drums labeled

iii. Visual evidence of pollutant migration pathways (e.g. erosion, run-off): __P ✓NP

Comments: _____

iv. Visual evidence of release (e.g. discolored soils, dead vegetation): __P ✓NP __Not applicable

Comments: _____

v. Visual evidence of exposure potential (e.g. swamp, drinking water wells): __P ✓NP __Not applicable

Comments: _____

b. Documentation of SWMU / AOC characteristics and potential migration pathways by photography? __Y ✓N

Comments: _____

5. SWMU # 2 or AOC #2 Lagoons

a. Documentation of field observations in logbook: ✓P __NP __A __NA

i. Visual evidence of unit characteristics (integrity, location): ✓P __NP __A __NA

Comments: 2 lagoons located west of facility - lined - receive waste water

ii. Visual evidence of waste characteristics (e.g. labels): __ P __ NP ✓ Not applicable

Comments: _____

iii. Visual evidence of pollutant migration pathways (e.g. erosion, run-off): ✓P __NP

Comments: contents discharge to river via SPDES outfall.

iv. Visual evidence of release (e.g. discolored soils, dead vegetation): __P ✓NP __Not applicable

Comments: _____

v. Visual evidence of exposure potential (e.g. swamp, drinking water wells): ✓P __NP __Not applicable

Comments: contents discharged to river

b. Documentation of SWMU / AOC characteristics and potential migration pathways by photography? __Y ✓N

Comments: _____

5. SWMU # 3 or AOC# 3 Former Underground Storage Tanks

a. Documentation of field observations in logbook: ✓ P __ NP __ A __ NA

i. Visual evidence of unit characteristics (integrity, location): ✓ P __ NP __ A __ NA

Comments: USTs were formerly located near the lagoons

ii. Visual evidence of waste characteristics (e.g. labels): __ P __ NP ✓ Not applicable

Comments: _____

iii. Visual evidence of pollutant migration pathways (e.g. erosion, run-off): __ P ✓ NP

Comments: _____

iv. Visual evidence of release (e.g. discolored soils, dead vegetation): __ P ✓ NP __ Not applicable

Comments: _____

v. Visual evidence of exposure potential (e.g. swamp, drinking water wells): __ P ✓ NP __ Not applicable

Comments: _____

b. Documentation of SWMU / AOC characteristics and potential migration pathways by photography? __ Y ✓ N

Comments: _____

5. SWU # 4 or AOC #4 Former Drum Storage Area

a. Documentation of field observations in logbook: ✓ P __ NP __ A __ NA

i. Visual evidence of unit characteristics (integrity, location): ✓ P __ NP __ A __ NA

Comments: Former Drum Storage Area located in facility - closed in 1990. Now a machine shop storeroom.

ii. Visual evidence of waste characteristics (e.g. labels): __ P __ NP ✓ Not applicable

Comments: _____

iii. Visual evidence of pollutant migration pathways (e.g. erosion, run-off): __ P ✓ NP

Comments: _____

iv. Visual evidence of release (e.g. discolored soils, dead vegetation): __ P ✓ NP __ Not applicable

Comments: _____

v. Visual evidence of exposure potential (e.g. swamp, drinking water wells): __ P ✓ NP __ Not applicable

Comments: _____

b. Documentation of SWU / AOC characteristics and potential migration pathways by photography? __ Y ✓ N

Comments: _____

5. SWMU # ___ or AOC #5 Satellite Hazardous Waste Accumulation Areas

a. Documentation of field observations in logbook: ✓ P __ NP __ A __ NA

i. Visual evidence of unit characteristics (integrity, location): ✓ P __ NP __ A __ NA

Comments: Satellite Areas in the mold shop and decorating observed

ii. Visual evidence of waste characteristics (e.g. labels): ✓ P ___ NP ___ Not applicable

Comments: All drums labeled.

iii. Visual evidence of pollutant migration pathways (e.g. erosion, run-off): __ P ✓ NP

Comments: _____

iv. Visual evidence of release (e.g. discolored soils, dead vegetation): __ P ✓ NP __ Not applicable

Comments: _____

v. Visual evidence of exposure potential (e.g. swamp, drinking water wells): __ P ✓ NP __ Not applicable

Comments: _____

b. Documentation of SWMU / AOC characteristics and potential migration pathways by photography? __ Y ✓ N

Comments: _____

5. SWMU # ___ or AOC # 6 Above Ground Storage Tanks

a. Documentation of field observations in logbook: ✓ P __ NP __ A __ NA

i. Visual evidence of unit characteristics (integrity, location): ✓ P __ NP __ A __ NA

Comments: ASTs for gasoline and diesel storage. Located near lagoons

ii. Visual evidence of waste characteristics (e.g. labels): __ P __ NP ✓ Not applicable

Comments: _____

iii. Visual evidence of pollutant migration pathways (e.g. erosion, run-off): __ P ✓ NP

Comments: _____

iv. Visual evidence of release (e.g. discolored soils, dead vegetation): ✓ P __ NP __ Not applicable

Comments: A slight oil sheen was observed on a nearby puddle.

v. Visual evidence of exposure potential (e.g. swamp, drinking water wells): __ P ✓ NP __ Not applicable

Comments: _____

b. Documentation of SWMU / AOC characteristics and potential migration pathways by photography? __ Y ✓ N

Comments: _____

5. SWMU # ___ or AOC #7 Waste Oil Storage Area

a. Documentation of field observations in logbook: ✓P __NP __A __NA

i. Visual evidence of unit characteristics (integrity, location): ✓P __NP __A __NA

Comments: located near the gasoline AST. 55-gallon drums stacked 2 high

ii. Visual evidence of waste characteristics (e.g. labels): ___ P ✓ NP ___ Not applicable

Comments: Barrels of waste oil not labeled.

iii. Visual evidence of pollutant migration pathways (e.g. erosion, run-off): __P ✓NP

Comments: ___

iv. Visual evidence of release (e.g. discolored soils, dead vegetation): __P ✓NP __Not applicable

Comments: ___

v. Visual evidence of exposure potential (e.g. swamp, drinking water wells): __P ✓NP __Not applicable

Comments: ___

b. Documentation of SWMU / AOC characteristics and potential migration pathways by photography? __Y ✓N

Comments: ___

6. Were the results of the VSI integrated with the PR to provide consistency, to complete any data gaps, and to provide the best recommendations? /Y __N

Comments: _____

D. Other comments on the VSI: _____

RFA REVIEW SUMMARY

A. List all SWMUs identified (inclusive of the PR and VSI):

# 1	Hazardous Waste Accumulation Area	#	
# 2	Lagoons	#	
# 3	Former USTs	#	
# 4	Former Drum Storage Area	#	
#		#	
#		#	
#		#	
#		#	
#		#	
#		#	
#		#	
#		#	
#		#	
#		#	
#		#	
#		#	
#		#	
#		#	
#		#	

B. List SWMUs known by reviewer but not included in the RFA:

#		#	
#		#	
#		#	
#		#	
#		#	

C. List ACCs identified in the RFA:

# 5	Satellite Accumulation Areas	#	
# 6	ASTs	#	
# 7	Waste Oil Storage Area	#	
#		#	
#		#	

D. List ACCs known by reviewer but not included in the RFA:

#		#	
#		#	
#		#	
#		#	
#		#	

E. List SWMUs / ACCs which must be reevaluated due to inaccuracies in the PR, VSI, or SV:

#		#	
#		#	
#		#	
#		#	
#		#	
#		#	
#		#	
#		#	
#		#	
#		#	

F. List SWMUs / AOCs which have been assessed accurately to require no further action:

# 4	Former Drum Storage Area	#	
#		#	
#		#	
#		#	
#		#	

G. List SWMUs / AOCs which have been assessed accurately to require an RFI:

#		#	
#		#	
#		#	
#		#	
#		#	

H. List SWMUs / AOCs which have been assessed accurately to require interim measures:

#		#	
#		#	
#		#	
#		#	
#		#	

I. Summarize any inconsistencies found between the PR, VSI, and SV:

J. Does the RFA summary report integrate the findings of the PR, VSI, and SV? __Y __

Comments: _____

K. Any additional / miscellaneous comments on the RFA: _____

APPENDIX B

ANALYTICAL DATA

TABLE No. 2
CONFIRMATORY ANALYTICAL RESULTS

Analysis/Analyte	Sample #/Type							
	A wipe	B wipe	C wipe	D chip	E chip	F Rinse	G Background chip	Paint Chip
1,1,1-Trichloroethane	N/A	N/A	N/A	3 ppb	3 ppb	1 ppb	2 ppb	N/A
Cadmium	0.0002 mg/wipe	0.0005 mg/wipe	0.0011 mg/wipe	0.62 ppm	0.86 ppm	N/A	0.51 ppm	7.1 ppm
Chromium	0.0030 mg/wipe	0.0071 mg/wipe	0.022 mg/wipe	32 ppm	23 ppm	N/A	22 ppm	45 ppm
Lead	0.02 mg/wipe	0.15 mg/wipe	0.23 mg/wipe	58 ppm	42 ppm	N/A	150 ppm	410 ppm
Ignitability	N/A	N/A	N/A	>60°C	>60°C	>60°C	>60°C	N/A
Corrosivity	6.7 SU	7.2 SU	7.3 SU	10.5 SU	11.2 SU	N/A	11.5 SU	N/A
PCBs, Total	<0.1 ug/wipe	1.0 ug/wipe	1.1 ug/wipe	2 ppm	2 ppm	N/A	<2 ppm	N/A

Notes
1) SU = Standard Units
2) N/A = Not Applicable

All original laboratory results are presented in Appendix B of this report.

4.2 Disposal Related Analysis

The approved closure plan stated that the collected decontamination water would be tested to determine if it was a RCRA hazardous waste. To make this determination the decontamination water was analyzed for the following parameters using the method indicated.

TABLE No. 3
ANALYTICAL METHODS
DISPOSAL RELATED SAMPLING

Analyte	Method
Cadmium	TCLP
Chromium	TCLP
Lead	TCLP
Ignitability	EPA 1010
Corrosivity	EPA 1110
PCB's	SW 846-8080/3510/3660

The following results were obtained from the analyses.

TABLE No. 4
DISPOSAL RELATED ANALYTICAL RESULTS

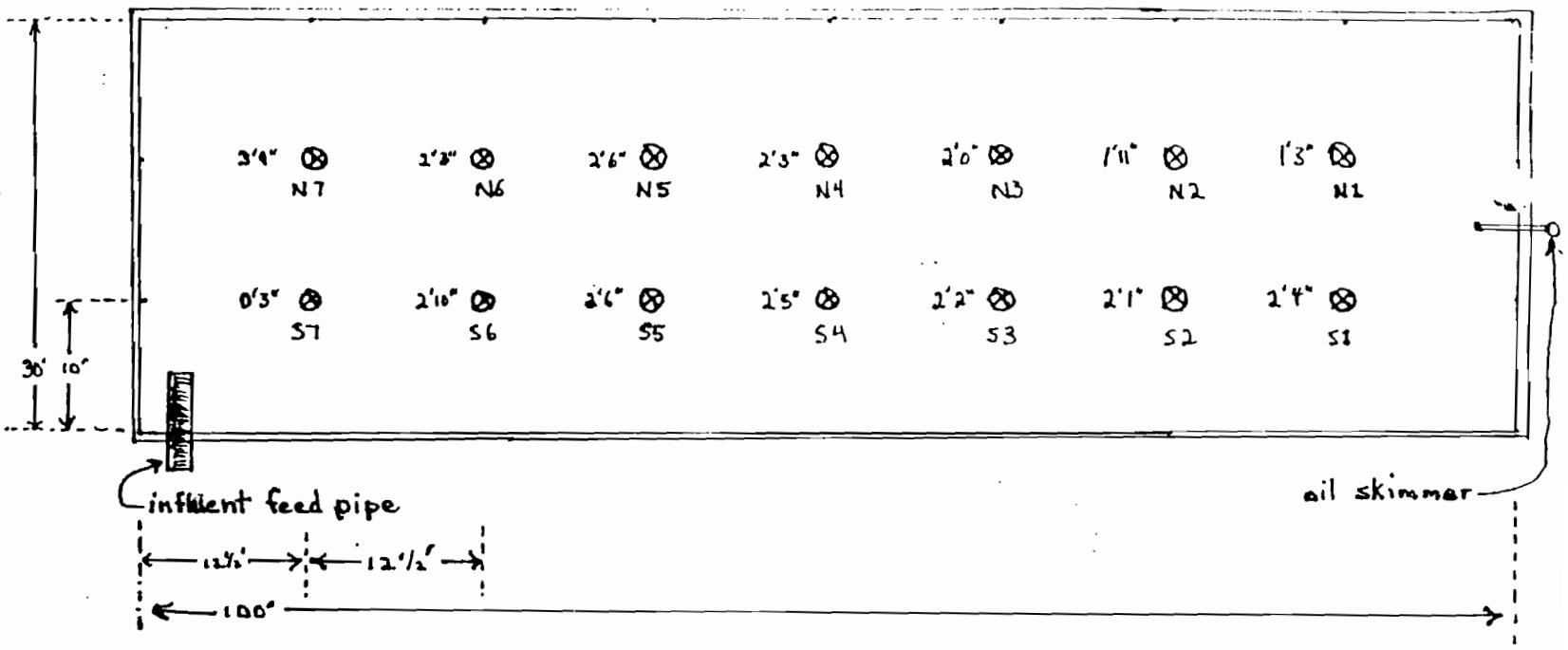
Analysis/Analyte	Sample
Cadmium	<0.1 mg/l
Chromium	<0.1 mg/l
Lead	<0.1 mg/l
Ignitability	Ignitable
Corrosivity	Non-corrosive
PCB's for each aroclor analyzed	<0.5 ug/l

All original laboratory results are presented in Appendix B of this report.

NORTH LAGOON

Sludge depths, sampling points, + landmarks

SCALE:
1 CM = 5 ft.



SAMPLE COMPOSITING TABLE:

DEPTH IN INCHES	SAMPLE #	AMOUNT TAKEN FOR COMPOSITE	DEPTH IN INCHES	SAMPLE #	AMOUNT TAKEN FOR COMPOSITE
18"	N1	1.67 G	28"	S1	3.11 G
23"	N2	2.85 G	25"	S2	2.77 G
24"	N3	2.66 G	26"	S3	2.88 G
27"	N4	3.00 G	29"	S4	3.22 G
30"	N5	3.33 G	30"	S5	3.33 G
27"	N6	3.00 G	34"	S6	3.77 G
45"	N7	5.00 G	3"	S7	0.33 G

*Note: The results document that the sludge is non hazardous. However, the data was not included with the sheets sent by the laboratory. 6/17/82 Friend Laboratory Inc.

PREPARED BY FRIEND LAB INC.

Approved by the Environmental Protection Agency for the:

Bacteriological examination of Potable Water
Metals by Atomic Absorption
Wet Chemistry
Volatile Organics
Pesticides, Herbicides

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Chemical and Bacterial analysis of:
WATER
STREAM POLLUTION
WASTEWATER
SLUDGE
SOIL
DAIRY PRODUCTS
FOODS *and* MORE

Key for Report

< = Less than
> = Greater than
Pt. Co. U. = Platinum Cobalt Units
PPM = Parts per Million
UG/L = Micrograms per Liter
MG/L = Milligrams per Liter
NTU = Nepheiometric Turbidity Unit
UMHOS = Micromnos per Centimeter

Plant Mgr. Mr. Robert Perry
Company Name Corning Glass Works
Address Fallbrook Plant
Tioga St.
Corning, New York 14830

Date Received: April 22. 1982

Analysis Performed:	SAMPLE SOURCES: EP Leachate procedure Weighted Comp. No. lagoon
pH	
B.O.D. 5 28 mg/L	
C.O.D. mg/L	
Total Hardness mg/L	
Kjeldahl Nitrogen mg/L	
Dissolved Solids mg/L	
Suspended Solids mg/L	
Total Solids mg/L	
Volatile Solids mg/L	
Lead ppm	< 5
Arsenic "	< 5
Barium "	< 5

CC:

Date 6 11 82

Approved by: Richard Friend
D. W. FRIEND, *Manager*

FORM 1048

APPENDIX C

CLOSURE DOCUMENTATION

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233

Thomas C. Jorling
Commissioner

February 7, 1992

Ms. Karen S. Gross
Sr. Environmental Control Engineer
Corning Incorporated
HPME01025AIO
Corning, NY 14831

Dear Ms. Gross:

RE: Closure of Corning Incorporated - Pressware Facility
EPA Identification Number: NYD000824409

This letter is to confirm the receipt of owner/operator and independent professional engineer's certification dated May, 1991, of RCRA closure for this facility. We now consider this facility officially closed. Your authority to operate as a Treatment, Storage, and Disposal Facility (TSDF) is terminated and you are released from the financial security requirements of Sections 373-2.8 and 373-3.8.

Please be advised that the United States Environmental Protection Agency has determined that the corrective action provisions of the Hazardous and Solid Waste Amendments (HSWA), Section 3008(h), apply to all TSDF's which have acquired interim status.

The New York State Department of Environmental Conservation has established a program to evaluate the corrective action measures necessary at closed and closing facilities within the State. Once the corrective action provisions of HSWA have been met by the facility or determined not to be necessary at the facility, the facility can have their interim status terminated.

If you have any questions regarding your closure or regulatory status, please contact Stephen Malsan at (518) 457-9361.

Sincerely,

Salvatore J. Carlomagno, P.E.
Chief, Regional Permit Section
Bureau of Haz. Waste Facility Compliance
Division of Haz. Substances Regulation

cc: J. Gorman
J. Desai
M. O'Neil
D. Rollins - Region 8
S. Malsan
G. Belcher

SJC:scy

(presswar.sgm)

Certification Statement

We, The Sear-Brown Group and Corning Incorporated, do hereby certify that the hazardous waste management units located at Corning Incorporated's Pressware facility and identified in the attached partial closure certification document have been closed in accordance with the specifications in the approved closure plan addressing these units, except where specifically noted.

The Sear-Brown Group
John W. Hayden, P.E., Ph.D.
Vice President
Civil and Environmental Divisions

5-16-91
date

Corning Incorporated
Karen S. Gross
Sr. Environmental Control Engineer

7 Aug 91
date