

Department of Environmental Conservation

Division of Hazardous Waste Remediation

Independent Cement Corporation

Inactive Hazardous Waste Site
Site Number 4-11-002
Columbia County, New York

New York State Superfund Record of Decision



March 1995

New York State Department of Environmental Conservation
GEORGE E. PATAKI, Governor
MICHAEL D. ZAGATA, Commissioner

DECLARATION STATEMENT - RECORD OF DECISION

Independent Cement Corporation Inactive Hazardous Waste Site Town of Greenport, Columbia County, New York Site No. 411002

Statement of Purpose and Basis

The Record of Decision (ROD) presents the selected remedial action for the Independent Cement Corporation inactive hazardous waste disposal site which was chosen in accordance with the New York State Environmental Conservation Law (ECL). The remedial program selected is not inconsistent with the National Oil and Hazardous Substances Pollution Contingency Plan of March 8, 1990 (40CFR300).

This decision is based upon the Administrative Record of the New York State Department of Environmental Conservation (NYSDEC) for the Independent Cement Corporation Inactive Hazardous Waste Site and upon public input to the Proposed Remedial Action Plan (PRAP) presented by the NYSDEC. A bibliography of the documents included as a part of the Administrative Record is included in Appendix B of the ROD.

Assessment of the Site

Actual or threatened release of hazardous waste constituents from this site, if not addressed by implementing the response action selected in this ROD, presents a current or potential threat to public health and the environment.

Description of Remedy

Based upon the results of the Remedial Investigation (RI) for the Independent Cement Corporation the NYSDEC has required the removal of PCB contaminated material and soils from two separate former PCB transformer storage locations. The components of the remedy are as follows:

- The excavation of all soils with PCB contamination levels above 1 ppm, to a maximum depth of one foot.
- All excavated soils will be disposed of in a regulated landfill.


New York State Department of Health Acceptance

The New York State Department of Health concurs with the remedy selected for this site as being protective of human health.

Declaration

The selected remedy is protective of human health and the environment, complies with State and Federal requirements that are legally applicable or relevant and appropriate to the remedial action to the extent practicable, and is cost effective. This remedy utilizes permanent solutions and alternative treatment or resource recovery technologies, to the maximum extent practicable, and satisfies the statutory preference for remedies that reduce toxicity, mobility, or volume as a principal element.

3/21/95
Date



Michael J. O'Toole
Director
Division of Hazardous Waste Remediation

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RECORD OF DECISION

INDEPENDENT CEMENT CORPORATION

Town of Greenport, Columbia County, New York

Site No. 411002

Date of Issuance: March 17, 1995

SECTION 1: SITE LOCATION AND DESCRIPTION

The Independent Cement Corporation (411002) site is a 10 acre site located in the Town of Greenport, Columbia County (see Figure 1). NYS Route 9 is the site's eastern boundary and the Hudson River is the western boundary. The site is located in a semi-rural area with low population density. There are no other hazardous waste sites in the area.

SECTION 2: SITE HISTORY

2.1: Operational/Disposal History

1977 - ICC purchased the former Universal Atlas Cement Corporation property. Many types of petroleum products and cutting oils were stored on site in drums and tanks.

1977 - 1981 ICC operated the site as a transfer facility for bulk and bagged cement.

1981 - present The site has remained vacant.

July 1986 - Leaky petroleum barrels were discovered at the plant site by Greenport Water Department personnel. During the cleanup, six locations subsequently known as Areas A - F (see Figure 2) were identified as having petroleum products. Approximately 387 containers were removed from the site. All of these containers held petroleum products of some type although some also had antifreeze and solvents in addition to the oil and greases.

2.2: Remedial History

July 1986 - The following remedial action required by the NYSDEC was done at the site by contractors hired by ICC.

Area A - Forty 55 gallon drums and eighteen 125 lb containers containing cutting oil, oil sludges, water and lubricating oil were removed. The containers were not damaged or leaking and were removed for future use. The drum contents were vacuumed out and removed by tanker trailer. The top four inches of soil were removed (24 - 30 cubic yards) and landfilled.

Area B - Twenty six drums of used lubricating oils were removed from a 30 ft by 30 ft area. Five of the drums were only half full and either leaked or were spilled. The drum contents were pumped to a tanker truck and the drums crushed and eventually disposed of.

Area C - Seventy drums of waste oils were found at this 60 ft by 30 ft location. Five of the drums were believed to be leaking based on the presence of stained soil. The contents were vacuumed into a tanker truck and the drums eventually removed and disposed of properly..

Area D - Forty drums of grinding oils and cement additives found at this location were transported to the ICC Catskill facility for future use. Two of the drums were thought to have minor leaks.

Area E - Four of the seven drums of oils and solvents at Area E were transported to and used at the ICC Catskill facility. The remaining three were vacuumed into a tanker truck and the empty drums eventually properly disposed of. None of the drums appeared to be leaking. Absorbent pads were used on the concrete floor to clean up earlier spillage and then disposed of.

Area F - 70 of the 86 drums of lube oil, grease, truck cleaner and antifreeze were taken to the ICC facility at Catskill. The remaining 16 drums were vacuumed into a tanker truck and the empty drums eventually removed. Absorbent pads were used on the concrete floor to clean up earlier spillage and then disposed of properly.

February 1988 - Independent Cement Corporation signed a penalty order on consent for \$50,000 for the illegal storage and discharge of petroleum products.

August 1988 - The site was classified as a Class 2 in the Registry of Inactive Hazardous Waste Disposal Sites. All onsite PCB transformers were drained, staged and eventually removed.

December 1993 - ICC signed a RI/FS consent order with the NYSDEC. This consent order accepted prior investigatory work done by ICC which was not done under state supervision.

August 1994 - The remedial investigation was accepted by the NYSDEC. The investigation showed that the only contamination requiring remediation was soils at two former PCB transformer storage locations (See Figures 2, 3, and 4).

October 1994 - The NYSDEC accepted a work plan outlining work to be done at the two former transformer storage areas.

March 1995 - Remedial work at the Independent Cement Site, as identified in the Remedial Investigation, is currently underway.

SECTION 3: CURRENT STATUS

3.1: Summary of the Remedial Investigation

The purpose of the RI was to define the nature and extent of any contamination resulting from previous activities at the site.

The RI was conducted in 2 phases. The first phase was conducted in the fall of 1991 and the second phase during winter 1993 and spring 1994. A report entitled *Final Remedial Investigation Report*, June 1994, describes the field activities and findings of the RI in detail. The RI activities consisted of the following:

- * A total of 51 samples were taken during a soil gas survey.
- * The site's geologic stratigraphy was defined and sub-surface sampling was done by drilling 66 soil borings.
- * Ten monitoring wells and nine piezometers were installed in the overburden and bedrock during the investigation.
- * Three rounds of groundwater samples were taken and analyzed.
- * Surface water samples were taken at two sites.
- * Sixteen surface soil samples were collected at the four former PCB transformer areas.

The analytical data obtained from the RI was compared to Applicable Standards, Criteria, and Guidance (SCGs) in determining remedial alternatives. Groundwater, drinking water and surface water SCGs identified for the Independent Cement Corporation site were based on NYSDEC Ambient Water Quality Standards and Guidance Values and Part V of NYS Sanitary Code. For the evaluation and interpretation of soil and sediment analytical results, NYSDEC soil cleanup guidelines for the protection of groundwater, background conditions, and risk-based remediation criteria were used to develop remediation goals for soil.

Based upon the results of the remedial investigation in comparison to the SCGs and potential public health and environmental exposure rates, certain areas and media of the site required remediation.

Contamination exceeded environmental standards in two areas at the Independent Cement Site. In Area C, near the western boundary of the site benzene, barium and total chromium were found in groundwater at 1.2 parts per billion (ppb), 1910 ppb, and 122 ppb respectively. These are above the groundwater standards for these compounds which are 0.7 ppb, 1000 ppb and 50 ppb respectively. Area C is a fill area where hazardous constituents are localized and very difficult to recover due to the depth of the contaminants and the impermeable nature of the fill. Since the hazardous constituents levels are low and located in an industrial area, buried in relatively impermeable fill and possibly not recoverable because of their approximate 36 ft of depth, no remediation is required in Area C.

ICC had previously stored PCB transformers in four locations. Remedial investigations showed that two of the locations had surface PCB contamination in excess of state remediation guidelines. Because these contaminants could potentially impact human health, removal is the most appropriate alternative.

3.2 Interim Remedial Measures:

An Interim Remedial Measure (IRM) is underway at the site based on findings from the RI. The IRM consists of eliminating the health threat at transformer storage areas 3 and 4. Area 3 is a concrete storage pad, approximately 27 by 15 feet in area where PCB levels were found as high as 4.35 ppm. The concrete pad will be demolished by pneumatic jackhammer and stockpiled. After the concrete is removed six inches of soil under the pad will be scraped and removed. Following the excavation operations confirmatory sampling will be done to insure that the contamination is removed. If contamination above 1 ppm is found a second six inch lift of soil will be removed. At one foot below ground surface NYSDEC guidelines for PCBs in soil change to 10 ppm. Because the site PCB contamination is a result of surface spills, the PCB concentrations in surface soils are low and PCBs are relatively immobile, no further confirmatory sampling will need to be done below six inches and no excavation below one foot below ground surface will be required. The excavation will be backfilled to existing grade using clean fill. The concrete and excavated soils will be properly disposed of at a permitted facility.

Because of the large surface area in Area 4, an 11 sample grid with 25 foot centers will be used. A sample will be taken at the node of each of the grids. Any sample with PCB contamination above 1 ppm will have six inches of soil removed within an entire 25 ft by 25 ft area using the sample point as the center of the area. Following excavation, confirmatory sampling will be done to ensure that contamination has been removed. If contamination above 1 ppm is found a second six inch lift of soil will be removed. At one foot below ground surface NYSDEC guidelines for PCBs in soil change to 10 ppm. Because the site PCB contamination is a result of surface spills, the PCB concentrations in surface soils are low and PCBs are relatively immobile, no further confirmatory sampling will need to be done below six inches and no excavation below one foot below ground surface will be required. The excavation will be backfilled to existing grade using clean fill. The excavated soils will be properly disposed of at a permitted facility.

3.3 Summary of Human Exposure Pathways:

The removal of the low level PCB soils effectively eliminates any possible human contact with hazardous constituents at this site. The amount of groundwater contamination on site is minimal and is not migrating. It poses no threat to offsite receptors.

3.4 Summary of Environmental Exposure Pathways:

Possible exposure pathways would be direct contact or ingestion. Both of these pathways will no longer be a concern after the removal of the PCB soils located at the former transformer storage areas.

SECTION 4: ENFORCEMENT STATUS

The following is the chronological enforcement history of this site.

Orders on Consent

<u>Date</u>	<u>Index</u>	<u>Subject</u>
March 7, 1988	R403938609	Penalty Order on Consent
December 28, 1993	A402939301	RI/FS

The NYSDEC and the Independent Cement Corporation entered into a Consent Order on December 28, 1993. The Order obligates the responsible parties to implement a Remedial Investigation and Feasibility Study remedial program.

SECTION 5: SUMMARY OF THE REMEDIATION GOALS

Goals for the remedial program have been established through the remedy selection process stated in 6NYCRR 375-1.10. These goals are established under the guideline of meeting all standards, criteria, and guidance (SCGs) and protecting human health and the environment.

At a minimum, the remedy selected will eliminate or mitigate all significant threats to the public health and to the environment presented by the hazardous waste disposed at the site through the proper application of scientific and engineering principles.

The goal selected for this site is to eliminate the potential for direct human or animal contact with the contaminated soils on site.

SECTION 6: SUMMARY OF THE PREFERRED REMEDY

Upon successful completion of the IRMs described above the remediation goal will be satisfied. Therefore, the selected remedy for this site is No Further Action.

SECTION 7: COMMUNITY ACCEPTANCE

Concerns of the community regarding this IRM and delisting as outlined in this Record of Decision have been evaluated. A "Responsiveness Summary" has been prepared that summarizes public comment that was received and how the NYSDEC addressed the concern raised. The final remedy selected is the same as selected in the Proposed Remedial Action Plan.

APPENDIX A
RESPONSIVENESS SUMMARY

The following concern was expressed at the public meeting held at the Greenport Town Hall on February 22, 1995.

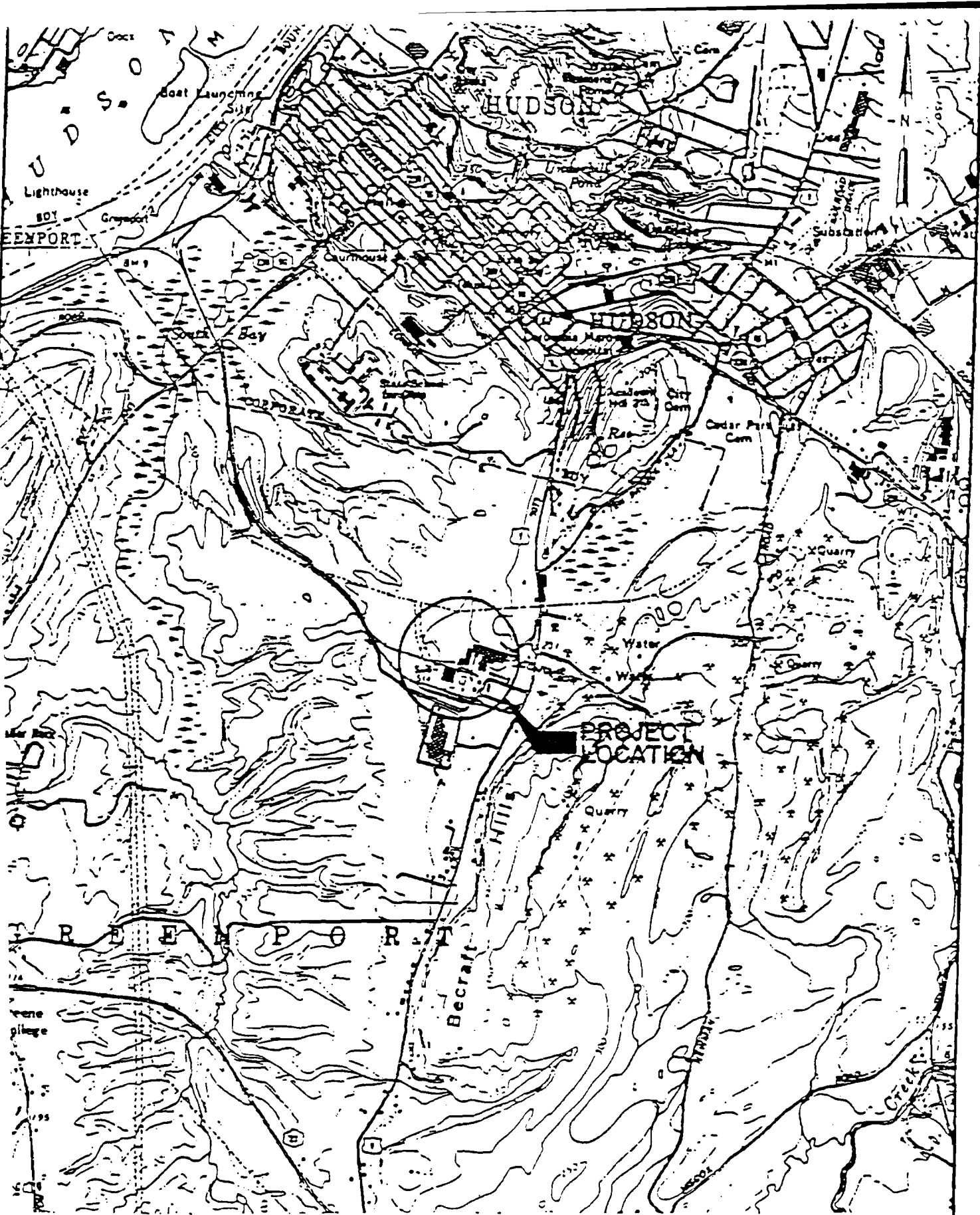
Question - Will the groundwater contamination remaining on site pose a problem to the area aquifer?

Answer - The small amount of contaminated groundwater will not pose any problem to the local aquifer. The contamination is very small in area and is approximately 30 ft below ground surface in industrial fill and will not migrate due to the relative impermeability of the fill material. In response to this concern the statement under Section 3.3 on page 7 was strengthened.

APPENDIX B
ADMINISTRATIVE RECORD

- * "Field Investigation Report, Soil and Groundwater Contamination, Hudson Plant, Independent Cement Corporation," August 28, 1987
- * Penalty Order on Consent, Index # R4-0393-86-09, March 7, 1988, for illegal storage and discharge of petroleum products.
- * "Historical Data Inventory and Natural Resource Assessment," August 1991.
- * "Interim Summary Remedial Investigation Report, Volumes I and II," November 1992.
- * "Remedial Investigation Work Plan/Quality Assurance Project Plan Supplement," February 1993.
- * Order on Consent, Index # A4-0293-93-01, December 28, 1993, for RI/FS.
- * "Inactive Hazardous Waste Disposal Sites in New York State: Site List by Counties; Volume 4" April 1994, p. 37 and 38.
- * "Final Remedial Investigation Report, Volumes I and II," June 1994.
- * "Remedial Action Work Plan/Quality Assurance Work Plan; Former PCB Transformer Areas No. 3 and No. 4.," December 1994.
- * "Notice of Public Meeting" distributed to the Columbia County Independent and Hudson Register Star, March 13, 1995.

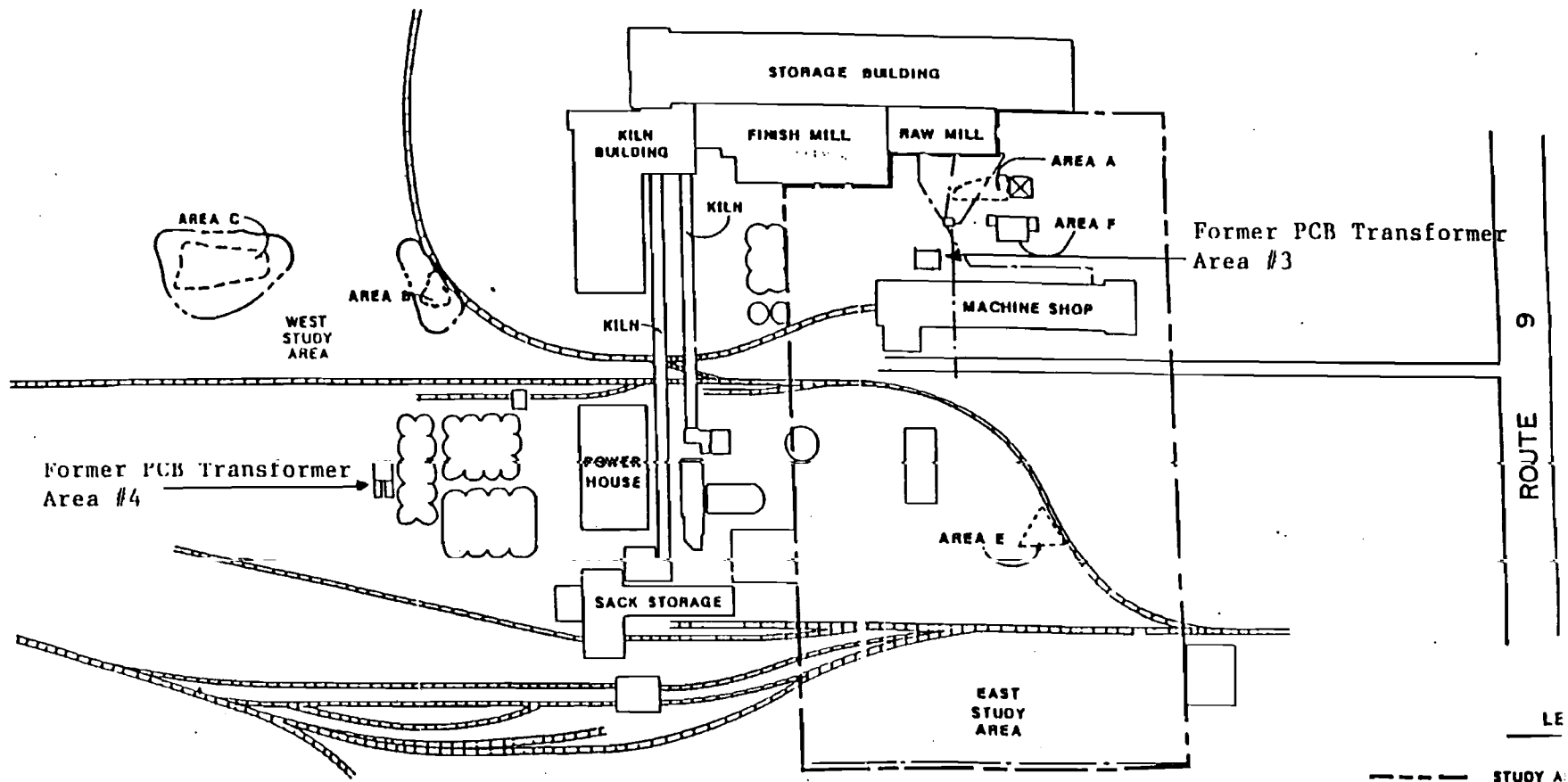
SECTION OF FIGURES



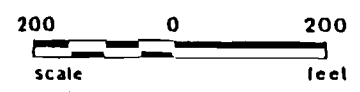
SOURCE: HUDSON NORTH & HUDSON SOUTH 7.5 MINUTE QUAD

SCALE: 1" = 2000'

Figure 1	INDEPENDENT CEMENT CORPORATION HUDSON, NEW YORK LOCATION MAP	
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ALL STRUCTURES WITH THE EXCEPTION OF THE MACHINE SHOP, POWER HOUSE AND WESTERN SILOS, HAVE BEEN DEMOLISHED. SHOWN FOR REFERENCE PURPOSES ONLY. ALL LOCATIONS ARE APPROXIMATE.



ECKENFELDER, 1990

INDEPENDENT CEMENT CORPORATION
HUDSON, NEW YORK
SITE MAP

Figure 2

FORMER PCB TRANSFORMER
AREA No. 3

LIMITS OF PROPOSED
EXCAVATION

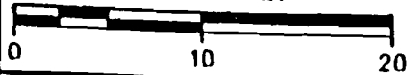
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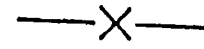
X 202.2

FORMER MACHINE SHOP

SCALE IN FEET



LEGEND



EXISTING FENCE



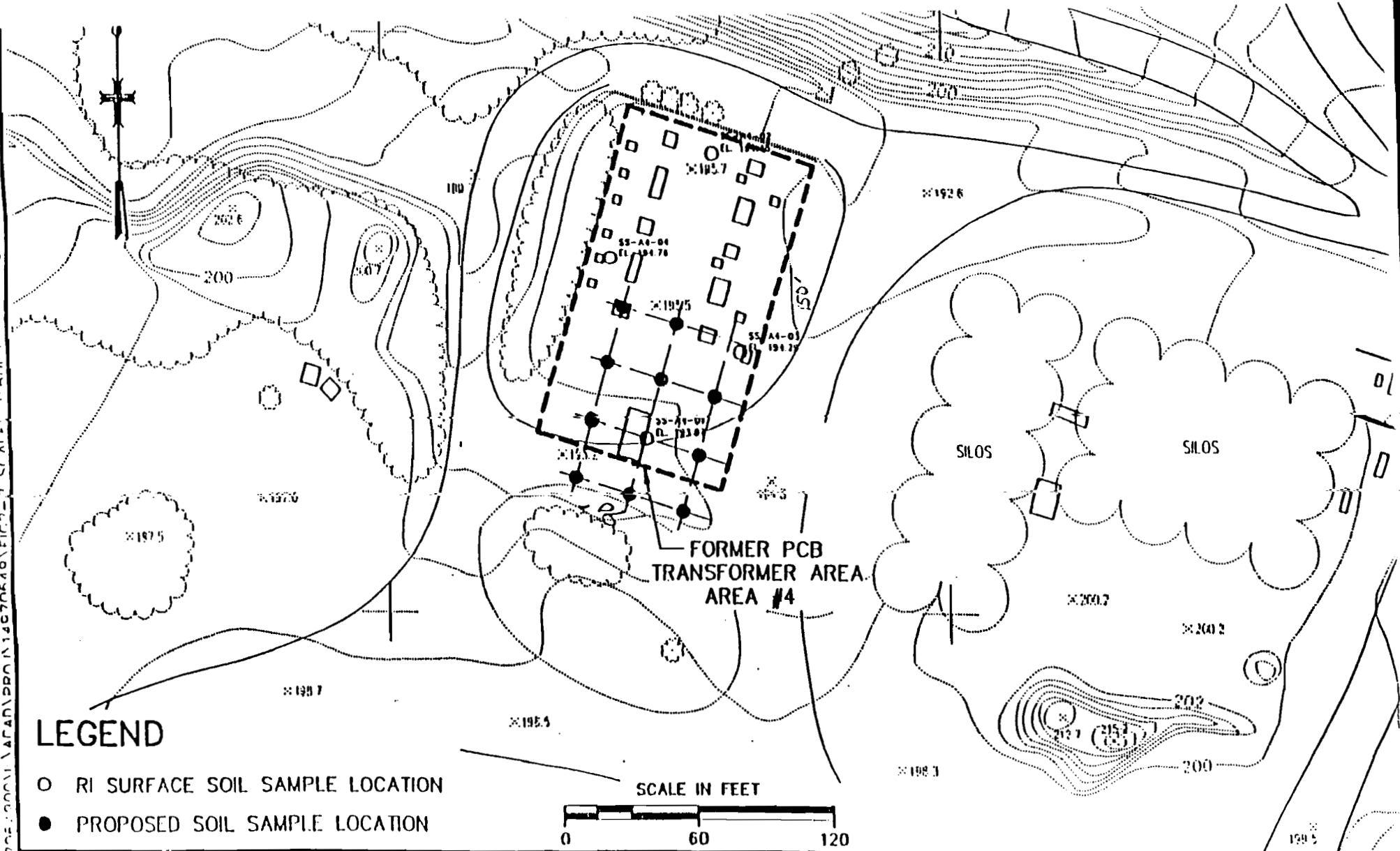
PROPOSED CONFIRMATORY
SOIL SAMPLE LOCATIONS

Figure 3

INDEPENDENT CEMENT CORPORATION
HUDSON, NEW YORK
FOCUSED REMEDIAL ACTION

FORMER PCB TRANSFORMER AREA No. 3

3706 146702 00001 \ARAD\DRG\14670640\FIG. 2 SCALE: 1:50, 11/7/8 1004 AT 14.00



LEGEND

- RI SURFACE SOIL SAMPLE LOCATION
- PROPOSED SOIL SAMPLE LOCATION

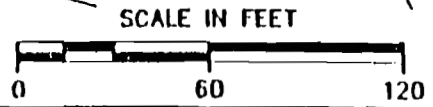


Figure 4

INDEPENDENT CEMENT CORPORATION
HUDSON, NEW YORK
FOCUSED REMEDIAL ACTION

FORMER PCB TRANSFORMER AREA No. 4