

APPENDIX S

**Draft Report,
Potentially Responsible Party Search,
Conklin Dump Site,
Camp Dresser & McKee Inc.,
September 29, 1986**

DRAFT REPORT
POTENTIALLY RESPONSIBLE PARTY SEARCH
CONKLIN DUMP SITE

SEPTEMBER 29, 1986

R E M II

**PERFORMANCE OF REMEDIAL RESPONSE
ACTIVITIES AT UNCONTROLLED
HAZARDOUS WASTE SITES**

U.S. EPA CONTRACT NO. 68-01-6939

**CAMP DRESSER & MCKEE INC.
PRIME CONTRACTOR**

001859

EPA WORK ASSIGNMENT NUMBER: 334-24P2
EPA CONTRACT NUMBER: 68-01-6939
DOCUMENT CONTROL NUMBER: 356-ES1-RT-DHQ-1

CAMP, DRESSER & MCKEE, INC.
ICF/SRW ASSOCIATES INC.

DRAFT REPORT
RESPONSIBLE PARTY SEARCH
CONKLIN DUMP
BROOME COUNTY, NEW YORK

SEPTEMBER, 1986

Prepared by:

Orville M. Richardson

Orville M. Richardson
Senior Project Manager
ICF Incorporated

Approved by:

George A. Rief, P.E.

George A. Rief, P.E.
Regional Manager
Region II
Camp, Dresser & McKee, Inc.

001860

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1.0 INTRODUCTION

1.1 Project Approach

At the request of EPA Region II, a Potentially Responsible Party Search was conducted at the Conklin Dumps Site, located in the town of Conklin, Broome County, New York. A meeting was held with Region II EPA personnel to determine the specific objectives of the PRP search. Individual elements of the Conklin PRP Search included a preliminary investigation/file review of the New York State Department of Environmental Conservation (NYSDEC), the Broome County Department of Health (BCDOH), and the Conklin Water Department (Section 2.1); individual interviews with Oscar Ulco and Kenneth Webb (Section 2.2); a generator survey (Section 2.3); and a title search (Section 2.4).

The above activities were carried out by visiting Albany and Broome County, interviewing individuals, looking up specific records, and conducting telephone interviews. A subcontractor was hired to conduct the title search. Following compilation of the information gathered and potentially responsible parties were identified (Section 2.5). It is emphasized that the parties identified herein are potentially responsible parties. They may be responsible for the pollutants emanating from the Conklin Landfills, but further evidence is necessary to provide conclusive proof.

1.2 Background

The Town of Conklin operated two separate landfills from 1964 to 1977. The landfills are located very close to each other in the Town of Conklin south of Powers Road, approximately one mile north of the Kirkwood Interchange of Interstate 81. Figure 2 shows the location of the two dumps.

The landfill property was owned by the Webb family prior to its use as a landfill. In 1960, the Town of Conklin bought 80 acres from the Webb family, including the property on which the landfills were eventually located. Conklin had a quarry operation at the site until 1964, at which time they began using the quarry as a landfill. By 1969, the lower landfill was full, and a second (upper) landfill was created. The upper landfill accepted wastes until it ceased operations in 1977, as ordered by the NYSDEC.

1.2.1 Lower Landfill

The lower landfill consists of three linear trenches situated adjacent to the D & H Railroad. Two secondary trenches run perpendicular to the main trench which is situated parallel to the rail line. The lower landfill is underlain by highly permeable sand and gravel which promotes recharge of leachate to the underlying ground water. The flow of ground water in the vicinity of the lower

landfill is reported to be in an easterly direction towards Route 7 and the Susquehanna River at an estimated rate of 3 to 30 ft. per day (1,100 to 11,000 ft. per yr.).⁽¹⁾

Samples of leachate from the lower landfill were found to contain relatively high concentrations of copper, iron, manganese, and mercury, as well as trace levels of toluene, methylene chloride, and 1,2-dichloropropane.⁽²⁾

1.2.2 Upper Landfill

A large portion of the waste deposited in the upper landfill was placed in six unlined cells and organized into three rows of two cells each. The cells were excavated through glacial till, clay, siltstone, and shale to a depth of about 18 ft. The waste was compacted and covered with a thin soil layer on a daily basis. In order to prevent surface drainage and ground water seepage from entering the landfill from the hillside above, a trench was dug to a depth of about 20 ft. around the western, northern, and eastern sides of the landfill. Water collected in the trench was directed to a tributary of Carlin Creek located immediately downgradient of the upper landfill. During the latter stages of landfill operations, the trench was filled with waste and covered with soil.⁽³⁾

The upper landfill is underlain by low permeability glacial till. Ground water flowing beneath the landfill may be discharged locally into Carlin Creek. The ground water flow rate is approximately 8×10^{-5} ft./day (0.03 ft./yr.).

Chemical analysis of leachate emanating from the sides of the upper landfill revealed relatively high concentrations of sulfate, chloride, chromium, iron, manganese, mercury, and zinc.⁽⁴⁾ Also present in the leachate samples were relatively high concentrations of organic compounds such as benzene, toluene, methylene chloride, trichloroethylene, and vinyl chloride.⁽²⁾

(1) O'Brien and Gere Engineers Inc. Reports: "Hydrogeologic Investigation Proposed Broome County Industrial Park, Conklin, New York", March, 1984, and "Phase II Hydrogeologic Investigation - Broome Industrial Park, Conklin, New York", February, 1985. Both are on file with NYSDEC.

(2) Refer to the reference in Appendix C.

(3) Refer to the reference in Appendix G.

2.0 PRELIMINARY INVESTIGATION AND INTERVIEWS

2.1 Preliminary Investigation - State and Local Agencies

2.1.1 New York State Department of Environmental Conservation (NYSDEC)

A visit to the NYSDEC office in Albany New York yielded very few pieces of relevant information. Mr. Joseph Forti, the NYSDEC lawyer in all the dealings between the NYSDEC and the Town of Conklin was interviewed. Mr. Forti reported that the NYSDEC Kirkwood office handled the Conklin landfill up until 1-1/2 to 2 years ago. The site was closed by a NYSDEC order in 1975. A fire at the Kirkwood NYSDEC office in 1981 destroyed all of the records relevant to Conklin. When NYSDEC Albany took over the case, Kirkwood NYSDEC forwarded all of the files to Albany. Because of the fire, there was not much to forward. Background information was obtained from a Draft Environmental Impact Statement for a proposed Industrial Park which surrounds both landfills. (4)

Mr. Forti reported that the NYSDEC will shortly enter into a consent agreement with the Town of Conklin to perform a Remedial Investigation/Feasibility Study at the landfills. Broome County would like to develop an industrial park on the 600 acres surrounding the landfills, and are therefore willing to help pay for the cleanup of the landfills.

Mr. Forti also stated that he was aware of a Mr. Webb who lived beside the landfill and whose family had at one time owned the landfill property. He had not heard of any industries who had dumped in either of the landfills, nor was he aware of who the haulers were. His focus seemed to be the consent agreement and beginning the cleanup process.

NOTE: Although Mr. Forti and the Draft Environmental Impact Statement for the site both asserted that the landfill was closed in 1975, two newspaper articles and the interview with Mr. Ulco (a former landfill operator) stated that the landfill was in operation through 1977. The 1977 date is therefore assumed to be correct.

2.1.2 Broome County Department of Health (DOH)

The visit to the Broome County DOH turned up several pieces of information. A newspaper article from September 22, 1976 listed Oscar Ulco as the operator of the landfill. Another newspaper article from November 3, 1976 indicated J. N. Giammarino of Binghamton was the new operator of the landfill, the contract being for one year.

(4) Refer to Appendix G.

A November 30, 1977 letter from Broome County DOH to Mr. Giammarino listed the Giammarino address as 26 Pierce Street in Binghamton, and noted a leachate problem at the landfill.

In conversation with Mr. Ron Slotkin of the DOH, it was reported that Conklin had used the lower property as a quarry prior to being a landfill. He indicated that Graydon Tampkins, the Conklin Superintendent of Water, may have additional information.

2.1.3 Conklin Water Department

An interview was conducted with Mr. Graydon Tampkins, Superintendent of the Conklin Water Department. Mr. Tampkins has been involved with the Conklin Landfill since the early 1970s when the town was considering putting in another landfill. He spoke from memory, and produced no supporting documents.

Mr. Tampkins said that the lower landfill was initially used as a quarry. During its operation as a landfill, there was no operator on duty. Town Highway Department personnel would unlock it in the morning and lock it at night.

The upper landfill had two operators; Oscar Ulco for 4 yrs., and J. N. Giammarino for 1 yr. Mr. Ulco was apparently a very careful operator and never allowed industrial wastes to be dumped at the site, although some local construction companies were allowed to dump debris into the landfill.

2.2 Individual Interviews

2.2.1 Oscar Ulco

A telephone interview with Oscar Ulco, former landfill operator, revealed some further information. Mr. Ulco operated the upper landfill from October, 1971 through October, 1976. The landfill consisted of several trenches into which garbage was placed. Ground water was diverted around the landfill through the use of diversion ditches, thus minimizing leachate generation.

Haulers during Mr. Ulco's tenure as operator included Suburban Sanitary, Joe's Disposal Service, and Gary Portz. No industrial wastes were disposed of at the site, although some businesses sent their wastes (cardboard boxes, etc.) to the landfill.

When Giammarino (the next operator) took over, he filled in the diversion ditches with solid waste and was shut down by within a year due to leachate problems.

2.2.2 Kenneth G. Webb

A telephone interview with Kenneth G. Webb, whose family owned the property before it was used as a landfill, provided further information. The Webb family owned the landfill property up until the Town of Conklin brought it in the late 1950's. The Webbs had farmed the land prior to selling it to the Town of Conklin.

Mr. Webb worked for Oscar Ulco when he ran the upper landfill. The haulers that he remembered using the landfill included: Suburban Sanitary from Kirkwood, Joe's Disposal Service from Montrose, Conklin Disposal, Gary Portz, and Malicheck from Casper Creek. Malicheck hauled for Binghamton Container. The only other industry that Mr. Webb knew of which disposed of wastes at the landfill was Vindale, a company that built house trailers.

Mr. Webb stated that he occasionally saw unauthorized trucks dumping in the lower landfill (run by the Town of Conklin), but did not know who they were or what they were dumping. He also reported that Suburban Sanitary disposed of bulk liquids in the landfill.

2.3 Generator Survey

An interview with Mr. Kenneth G. Webb, a former employee of the upper landfill operator, identified two industries which disposed of wastes at the Conklin Landfill, Binghamton Container and Vindale.

Binghamton Container Company, located at 1240 Conklin Road, Binghamton, New York, is a division of Chesapeake Corporation of Virginia. They are manufacturers of corrugated containers and displays, falling into SIC Codes 2653 and 3993. SIC Code 2653 is titled corrugated and solid fiber boxes, while 3993 is titled signs and advertising displays. Industries in these categories do not typically generate large amounts of hazardous wastes or use hazardous chemicals as raw materials. However, they do use industrial glues which contain some solvent type materials, and Binghamton Container can therefore be considered a possible generator.

Little is known about Vindale other than what Mr. Webb said in his interview. He described the company as a house trailer builder, and stated that they disposed of wood, fabric, empty glue buckets, etc. Industrial glue would contain numerous solvent type materials, and Vindale can therefore be considered a possible generator.

A Broome County Industrial Directory was obtained from the Broome County Chamber of Commerce. Likewise, a listing of the businesses in Broome County was obtained from MacRae's Industrial Guide. Both of these directories list numerous businesses in the County, many of which probably use solvents as raw materials or produce waste streams containing solvents. However, there is no evidence linking any of them with either of the Conklin Landfills.

In the course of conducting the interviews, several haulers of municipal solid waste were identified. These included Conklin Disposal, Gary Portz, Suburban Sanitary Service, Joe's Disposal Service, and Malicheck. None of these haulers were specifically identified as hauling hazardous wastes to the Conklin Landfills. It is possible, however, that hazardous materials were hauled mixed with municipal solid wastes, and the above haulers may therefore have carted hazardous wastes to the landfills inadvertently or otherwise.

Telephone numbers for the generators and haulers are as follows: (5)

Binghamton Container Company	607/775-1550
Vindale	Unknown
Conklin Disposal	607/724-2507
Gary Portz	607/724-2507
Suburban Sanitary Service	607/775-3535
Joe's Disposal Service	717/879-2984
Malicheck	Unknown

Note that Conklin Disposal and Gary Portz have the same telephone number and may be the same company.

2.4 Title Search

The title search was subcontracted to Monroe Abstract and Title Corporation of Binghamton, New York. Their full report is included as Appendix B.

The history of the property, from Broome County records, is as follows:

Floyd Webb and Alice Webb conveyed 170 acres less 5 acres to George R. Webb by deed dated March 27, 1920 and recorded in Liber 233 of Deeds, Page 170.

George R. Webb conveyed to George R. Webb and Ada M. Webb 170 acres less 5 acres and less the parcel described in Liber 390 of Deeds, Page 90 by deed recorded August 1, 1947 in Liber 613 of Deeds, Page 510.

George R. Webb and Ada M. Webb conveyed 79.97 acres to the Town of Conklin by deed recorded November 14, 1960 in Liber 1028 of Deeds, Page 572.

The Town of Conklin presently owns the landfill property.

2.5 Potentially Responsible Party Identification

Parties identified by information obtained during this PRP search who may be responsible for depositing hazardous waste at the Conklin Landfill include the landfill owner, the landfill operators, the waste haulers, and possible waste

- (5) Broome County Chamber of Commerce, "Directory of Industry, Broome County, New York", October, 1985.

generators. Parties identified during this search and their involvement with the site are as follows:

<u>Party</u>	<u>Site Involvement</u>
Town of Conklin	Property Owner/Landfill Operator
Oscar Ulco	Landfill Operator
J. N. Giammarino	Landfill Operator
Conklin Disposal	Waste Hauler
Gary Portz	Waste Hauler
Suburban Sanitary Service	Waste Hauler
Joe's Disposal Service	Waste Hauler
Malicheck	Waste Hauler
Binghamton Container	Possible Industrial Disposer
Vindale	Possible Industrial Disposer

3.0 POTENTIAL NEXT STEPS

Several actions present themselves as the next steps to be taken in the PRP search process:

1. Call the J. N. Giammarino Construction Company, determine who the person in charge of the site was during the time Giammarino had the contract to operate the upper landfill, and interview that person.
2. Obtain information on the waste stream of the Binghamton Container Company, if available.
3. Obtain information regarding the Vindale Company referred to by Mr. Webb as having disposed of materials at the site.
4. Interview each of the waste haulers and obtain available information on the commercial and industrial activities from which they collected wastes to be hauled to the Conklin Landfills.
5. Obtain available information on the waste streams of the industries identified by the waste haulers.

Why weren't these steps taken -
Was it because time & \$\$ went out.
very little info was obtained

ERP INTERVIEW

INTERVIEWER: Mr. Joseph Forti, New York State Department of
Environmental Conservation
518/457-3296
Albany, New York

INTERVIEWER: Richard McCracken, ICF

CIRCUMSTANCES: 8/25/86 - 1:30 PM
Interview occurred at the NYSDEC Albany office. Discussion
centered on enforcement actions at Conklin Landfill.

INTERVIEW SUMMARY:

The DEC will shortly enter into a consent order with the Town of Conklin to perform an RI/FS at the landfills and clean them up. Broome County would like to build an industrial park on the 600 acres surrounding the landfill. They have had O'Brien and Gene do a hydrogeologic study of the area to determine the extent of contamination. "Unofficially" Mr. Forti said the County is willing to pay \$1.5 million to clean up the landfills. The County has apparently made a commitment to the Town of Conklin to pay for the cleanup once the consent agreement is signed.

Mr. Forti has been involved with the site as an enforcement action for the past 1-1/2 to 2 yrs. Prior to that, the Kirkwood office of DEC had jurisdiction over the site. Larry Lepak is the contact at the Kirkwood office, but he has sent all of his information to Albany.

Mr. Forti was aware of a Mr. Webb, who lives beside the landfill. He thought that Mr. Webb's family had owned the landfill property before it was sold to Conklin and Mr. Webb had been an operator at the landfill. Mr. Forti did not know his first name or telephone number.

The EPA Region II contact for the consent agreement is Lynn Wright. She has been kept informed of the negotiations between the DEC and the Town of Conklin, and should have a copy of the Consent Agreement as it is presently written.

Mr. Forti did not know why the landfill had closed in 1975. In fact, he was surprised to hear it may have been forced to close by DEC since enforcement closure of a landfill was a difficult process back in 1975. All of the records for the Kirkwood DEC office were destroyed in a fire in 1981, so it is difficult to verify information.

ERP INTERVIEW

INTERVIEWEE: Mr. Ronald Slotkin, Broome County Department of Health
607/772-2887
Binghamton, New York

INTERVIEWER: Richard McCracken, ICF

CIRCUMSTANCES: 8/26/86 - 2:00 PM
Interview occurred at the Broome County DOH offices.
Discussion regarding Conklin landfills.

INTERVIEW SUMMARY:

Mr. Slotkin has been acquainted with the site since April, 1986. No one presently with the County DOH has any experience with the Conklin Dumps Site dating further back.

The lower landfill was used as a quarry by the town prior to its being used as a dump. The usage of the upper property prior to its being used as a landfill is unknown.

Mr. Slotkin is in the process of setting up a computer program which will classify industries in the County and their associated waste streams. Once written, this program will allow tracing of contaminated ground water back to its source.

Mr. Slotkin referred me to Graydon Tampkins, the Conklin Superintendent of Water, as a source who has been with the town for quite a while and may have more information.

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PRP INTERVIEW

INTERVIEWEE: Graydon Tampkins, Conklin Superintendent of Water
607/775-3454
Conklin, NY

INTERVIEWER: Richard McCracken, ICF

CIRCUMSTANCES: 8/27/86 - 9:00 AM
Interview occurred at Conklin Town Hall. Discussion
regarding Conklin Landfills.

INTERVIEW SUMMARY:

Mr. Tampkins has been involved off and on with the Conklin Landfill since the early 1970's when the town was considering putting another landfill near the present two. The third landfill was never constructed. The upper landfill had two separate operators; Oscar Ulco and J. N. Giammarino (a construction company). Ulco operated the dump for four years, while Giammarino operated the landfill for the last year of its use. Haulers of municipal solid waste for the Town of Conklin included Conklin Disposal, Gary Portz, and Suburban Sanitary Service of Kirkwood.

The lower landfill was used by the town of Conklin as a quarry prior to its being turned into a town dump. This first of two landfills never had an operator. The town highway department would unlock the dump in the morning, lock it at night, and occasionally cover the garbage with soil.

Mr. Tampkins stated that no industries were allowed to dump in the landfill, although some local construction companies dumped debris there. Oscar Ulco was apparently a very careful operator, and never allowed barrels or industrial wastes to be dumped at the site.

No permits were issued (or needed) to dump at the site. No citizen complaints were ever received regarding dumping at the landfill.

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ERP INTERVIEW

INTERVIEWEE: Oscar Ulco
607/775-2907
Conklin, NY

INTERVIEWER: Richard McCracken, ICF

CIRCUMSTANCES: 8/27/86 - 11:30 AM
Interview conducted by telephone regarding his operation of the Upper Conklin landfill.

INTERVIEW SUMMARY:

Mr. Ulco operated the upper landfill from October, 1971 through October, 1976. The landfill itself consisted of several trenches into which the garbage was placed. Mr. Ulco dug a diversion ditch upgradient of the trenches to collect ground water and divert it around the deposited municipal solid waste. This prevented the generation of leachate, which was not a problem during the time Mr. Ulco operated the landfill. He also sloped the top of the disposal trenches such that rainwater ran off the top rather than infiltrating the garbage.

Haulers during Mr. Ulco's tenure as operator included Suburban Sanitary, Joe's Disposal Service, and Gary Portz. Only municipal solid waste and waste from local businesses (cardboard boxes, etc.) were accepted during the October, 1971 to October, 1976 time period. Several times haulers tried to bring in barrels or industrial wastes, but Mr. Ulco would not let them. He covered the waste each day and checked the cover each morning. Never did he see any evidence that wastes had been dumped overnight. The landfill was kept locked during non-operating hours, further discouraging off-hour dumping.

When the next operator (Giammarino) took over, he filled in the diversion ditches with garbage which led to a leachate problem and the landfill was shut down within a year.

FRP INTERVIEW

INTERVIEWEE: Kenneth G. Webb
607/775-1503
Conklin, New York

INTERVIEWER: Richard McCracken, ICF

CIRCUMSTANCES: 9/4/86 - 12:45 PM
Interview conducted by telephone regarding operation of the
Conklin Landfills.

INTERVIEW SUMMARY:

Mr. Webb's family owned the landfill property up until the Town of Conklin bought it in the 1950's. The land was farmed when owned by the Webbs.

The lower property was initially used as a quarry by the Town of Conklin, after which landfilling operations commenced. The upper property was used as a landfill only.

Mr. Webb worked for Oscar Ulco when he operated the upper landfill. Haulers at that time included Suburban from Kirkwood, Joe's Disposal Service from Montrose, Conklin Disposal, Gary Portz, and Malicheck from Casper Creek.

Suburban occasionally brought in bulk liquids, the composition of which Mr. Webb was uncertain. Malicheck hauled from Binghamton Container, and Mr. Webb was also uncertain of the material being dumped.

The only industry that Mr. Webb knew of which disposed of wastes at the landfill was Vindale, a company that built house trailers. They brought in wood, fabric, empty glue buckets, etc.

Mr. Webb lives next to the landfill and has never seen or heard any evidence of suspicious dumping. When the town was running the lower landfill, he would occasionally see unauthorized trucks dumping there, but he could not identify them. The town left the gate open all day and no attendant on duty, so it was easy for anyone to dump in the landfill.

Mr. Webb also said the reason for the final shutdown of the landfill was leachate generation. This occurred within a year after Ulco left as the landfill operator.

SEP 8 1986



MONROE ABSTRACT & TITLE CORPORATION

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SCHENECTADY
ACUSE

September 5, 1986

SRW Associates, Inc.
2793 Noblestown Road
Pittsburgh, PA 15205

Attn: Archie M. Richardson, Jr., PE
Vice President

RE: Town of Conklin
Landfill Sites
Site No. 356
Work Assignment No. 334-2472
Project: EPA Contract No.
68-01-6939

Dear Mr. Richardson:

In reply to your letter of August 29, on the above captioned matter, we have performed the following:

A. Searched the Grantor Indices in the Broome County Clerk's Office from January 1, 1940 to November 14, 1960 against the names George Webb and Ada Webb and searched from November 14, 1960 to September 4, 1986 at 8:59 A.M. against the Town of Conklin.

B. Examined the Broome County Tax Map Records which indicates that the Town of Conklin owns Parcel shown as Tax Map Number 4-11-S2 containing 79.97 acres. (copy enclosed)

C. Obtained copies of the following deeds:

1) George R. Webb and Ada M. Webb to George R. Webb and Ada M. Webb, husband and wife, as tenants by the entirety, Liber 613 of Deeds, page 510.

2) George R. Webb and Ada Webb to The Broome County Humane Society and Relief Association, Liber 390 of Deeds, page 90, (parcel excepted).

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3) George R. Webb and Ada M. Webb to Oswell H. Blais and Doris A. Blais, husband and wife, Liber 613 of Deeds, page 491, (1.41 acres conveyed).

4) George R. Webb and Ada M. Webb to Town of Conklin, Liber 1028 of Deeds, page 522, (79.97 acres).

5) Appropriation by the State of New York Liber 1051 of Deeds, page 699 description and map.

6. The Town of Conklin to the County of Broome, Liber 1513 of Deeds, page 129.

7. The Town of Conklin to the County of Broome, Liber 1531 of Deeds, page 113 (Fee and Easement).

All of the above copies are enclosed herewith.

The history of the property as appears from the Broome County Records is as follows:

Floyd Webb and Alice Webb conveyed 170 acres less 5 acres to George R. Webb by deed dated March 27, 1920 and recorded in Liber 233 of Deeds, page 170.

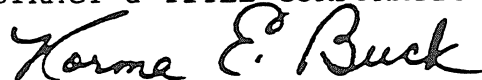
George R. Webb conveyed to George R. Webb and Ada M. Webb 170 acres less 5 acres and less the parcel described in Liber 390 of Deeds, page 90 by deed recorded August 1, 1947 in Liber 613 of Deeds, page 510.

George R. Webb and Ada M. Webb conveyed 79.97 acres to the Town of Conklin by deed recorded November 14, 1960 in Liber 1028 of Deeds, page 572.

We also enclose herewith our bill on the above captioned matter.

Very truly yours,

MONROE ABSTRACT & TITLE CORPORATION



Norma E. Buck
Vice President

NEB/mmK

enc.

001875

Together with the appurtenances and all the estate and rights of the part 103 of the first part in and to said premises,

To have and to hold the premises herein granted unto the part 103 of the second part, and the survivor of them, and ~~their heirs and assigns~~ the heirs and assigns of the survivor of them, forever,

And said George R. Webb

covenant as follows:

First. That the part 103 of the second part shall quietly enjoy the said premises,

Second. That said George R. Webb

will forever Warrant the title to said premises.

In Witness Whereof, the part 103 of the first part has hereunto set their hand and seal the day and year first above written.

In Presence of

George R. Webb

L.S.

Wm. M. Webb

L.S.

L.S.

L.S.

Warrant

George R. Webb and Ada L. Webb, his wife,

George R. Webb and Ada L. Webb, husband and wife, as accused by the grand jury.

Dated August 1, 1934

Sate of New York
County of Orange

RECORDED ON THE
4th day of August, 1934
at Westwood, N. Y.
in Book 612, pages
520 and 521
J. E. [Signature]

County of Orange
On this 1st day of August, 1934, for my office, personally appeared before me, the undersigned, personally appeared George R. Webb and Ada L. Webb, to me personally known and known to me to be the same person as described in and who executed the within instrument, and he acknowledged to me that the Y executed the same.

Frank E. [Signature]
FRANK E. THOMAS
Notary Public, State of New York
Residing in Orange County, N.Y.
My Commission Expires June 1, 1935

This Indenture,

NSA 613-491

Made the 26th day of September, Nineteen Hundred and forty-six,

Between George R. Webb and Ada M. Webb, his wife, of Conklin, New York, R.D. 1,

parties of the first part, and

Dewell R. Blais and Doris A. Blais, husband and wife, as tenants by the entirety, of

parties of the second part,

Witnesseth, that the parties of the first part, in consideration of

the sum of One Dollar

to-wit: 1.00 lawful money of the United States, and other good and valuable considerations paid by the parties of the second part, do hereby grant and release unto the parties of the second part, and the survivor of them, and their heirs and assigns of the survivor of them, forever,

All that tract or parcel of land, situate in the town of Conklin, county of Broome and state of New York, in Lot Number twenty-three (23) of the Thomas Patent, and bounded and described as follows: beginning at an iron stake in the west line of Conklin Road at its intersection with the boundary line between lands of George R. Webb and wife on the north and Clelland on the south; thence along said boundary line north eighty-four (84) degrees 00 minutes west (as the compass points in 1946) six hundred seventy-four and eight-tenths (674.8) feet to an iron stake in the east right of way line of the D.L. & W.R.R.; thence along said right of way line north one (1) degree fifty-two (52) minutes west ninety and eighty-five hundredths (90.85) feet to an iron stake; thence south eighty-three (83) degrees fifty-nine (59) minutes east six hundred ninety-two and six-tenths (692.6) feet to an iron stake in the west line of Conklin Road; thence along the west line of the road south nine (9) degrees twenty-five (25) minutes west ninety (90) feet to the point of beginning; containing one and forty-one hundredths (1.41) acres, more or less; being a part of the premises described in a certain deed from George R. Webb and wife, to George R. Webb and Ada M. Webb, husband and wife, as tenants by the entirety, by deed dated August 1st, 1946.

001879

Together with the appurtenances and all the estate and rights of the part 1st of the first part in and to said premises,

To have and to hold the premises herein granted unto the part 1st of the second part, and the survivor of them, and their heirs and assigns forever, the heirs and assigns of the survivor of them, forever,

And said George R. Webb and Ada M. Webb

covenant as follows:

First. That the part 1st of the second part shall quietly enjoy the said premises;

Second. That said George R. Webb and Ada M. Webb

will forever WARRANT the title to said premises.

In Witness Whereof, the part 1st of the first part do hereby set their hands and seal, the day and year first above written.

In Presence of

Marshall H. English

George R. Webb

L.S.

Marshall H. English

Ada M. Webb

L.S.

L.S.

L.S.

the said property which was conveyed to said
 Healed and wife by deed dated March 5, 1924, and recorded
 in the Kings County Clerk's Office in Book of Deeds No. 3
 at page 404; and the said property which was conveyed
 to said Harriet M. Townsend and
 by deed dated October 28, 1922, and recorded
 in the Kings County Clerk's Office in Book of Deeds No.
 at page 351, and on the west by the highway be-
 tween Binghamton to Conklin. Excepting therefrom
 which were conveyed to Frank E. Morgan
 by deed dated February 5, 1927, ac-
 corded to the Kings County Clerk's Office in Book
 of Deeds No. 376 at page 433. This conveyance is in
 and accepted subject to the unpaid principal in
 sum of four thousand dollars (\$4,000.00) in the
 3232 given by the parties of the first part to the
 First Company of Binghamton bearing date May 11
 and recorded in the Kings County Clerk's Office
 in Book of Mortgage No. 185 at page 499, which together
 the unpaid balance from the date hereof the said
 of the second part thereby assumes and agrees to
 be part of the consideration of this conveyance

Together with the appurtenances and all the estate and rights of the parties of the first part, in and to said premises. To have
 the above premises ^{hereby granted} ~~conveyed~~ to the said part of the second part, its ^{successors} ~~heirs and assigns~~ forever.

And the said part of the first part, do covenant with the said part of the second part of the second part

FIRST: That the said part of the first part shall convey the same to the said part of the second part

free simple and his good right to convey the same.

SECOND: That the part of the second part shall quietly enjoy the said premises.

THIRD: That the said premises are free from encumbrances.

FOURTH: That the part of the first part will execute or procure any further necessary assistance to the title to said premises.

FIFTH: That the said part of the first part will forever WARRANT the Title

In Witness Whereof, the said parties of the first part have hereunto set their hands and seals the day and year first

In presence of

George R. Webb
 Ada M. Webb

Internal Revenue Stamp Canceled
 STATE OF NEW YORK.

COUNTY OF BROOKLYN
 City of Binghamton
 On this 2nd day of January 1929
 nine hundred and twenty nine, the subscriber, personally appeared
 George R. Webb and Ada M. Webb, his wife
 to me personally known and known to me to be the same persons described in and who executed the
 same and acknowledged to me that they executed the same.
 J. A. Thompson
 Notary

Together with the appurtenances and all the estate and rights of the part of the first part in and to said premises,

To have and to hold the premises herein granted unto the party of the second part, its successors and assigns forever.

And said GEORGE R. WEBB and ADA M. WEBB

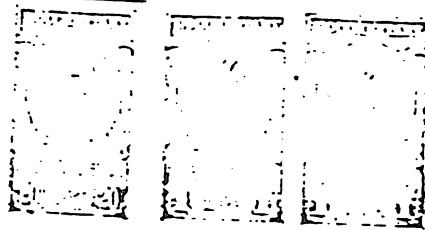
First, That the party of the second part shall quietly enjoy the said premises; covenant as follows:

Second, That said GEORGE R. WEBB and ADA M. WEBB

will forever Warrant the title to said premises.

In Witness Whereof, the parties of the first part have hereunto set their hands and seals the day and year first above written.

In Presence of



George R. Webb
Ada M. Webb

State of New York } On this 14th day of November
 County of Broome } Nineteen Hundred and Sixty
 before me, the subscriber, personally appeared

GEORGE R. WEBB and ADA M. WEBB

to me personally known and known to me to be the same persons described in and who executed the within Instrument, and they severally acknowledged to me that they executed the same.

Herbert H. Ray
 Notary Public

ALL THAT TRACT OR PARCEL OF LAND situate on the westerly side of Conklin Road in the Town of Conklin, County of Broome and State of New York bounded and described as follows:

Beginning at an iron pin set in the westerly bounds of Conklin Road said point being located 540.00 feet northerly from its intersection with the line between property of Clelland Osgood on the south and Oswald and Doris A. Blais on the north and running; THENCE north 83 degrees 54 minutes west (as referred to the magnetic meridian of August 1946) along the northerly line of lot # 6 as shown on a map entitled "Subdivision of Lands of George R. Webb" a distance of 781.60 feet to an iron pin set in the easterly bounds of property of the Delaware, Lackawanna, and Western Railroad Co.; THENCE north 1 degree 40 minutes west along the said easterly bounds of the Delaware, Lackawanna and Western Railroad Co. a distance of 50.46 feet to an iron pin; THENCE south 83 degrees 54 minutes east a distance of 791.33 feet to an iron pin set in the westerly bounds of Conklin Road; THENCE south 9 degrees 25 minutes west along the westerly bounds of Conklin Road a distance of 50.09 feet to the point or place of beginning.

CONTAINING 0.90 acre of land be the same more or less.

Being a portion of the same premises conveyed by George R. Webb and Ada M. Webb to George R. Webb and Ada M. Webb, husband and wife, as tenants by the entirety, by deed dated August 1, 1946, and recorded in the Broome County Clerk's Office August 4, 1946 in Book 613 of Deeds at page 510.

There is also conveyed ALL THE RIGHT TITLE AND INTEREST of the grantors in and to the right of way and crossing over the lands of the Delaware, Lackawanna and Western Railroad Company and its successors, which said right of way and crossing is located 786 feet more or less from the westerly bounds of Conklin Road and is adjacent to and on the west of the above described 0.90 acre easement and right of way.

1928 PAGE 572

This Indenture,

Made the 14th day of November
Nineteen Hundred and Sixty

BROOME COUNTY, N.Y.
Recorded on the 14 day of
Nov 1960 at 3330 feet
P. M. 11:15 AM of 1960
on page 572 and examined
F. Clyde Eggleston Clerk

Between GEORGE R. WEBB and ADA M. WEBB of the Town of Conklin,
Broome County, New York (P.O. Address: R.D. 1, Conklin, New York)

parties of the first part, and

THE TOWN OF CONKLIN, a municipal corporation situated in the County
of Broome and State of New York,

Witnesseth that the parties of the first part, in consideration of
party of the second part,

One - - - - - Dollar (\$1.00)
lawful money of the United States, and other good and valuable consideration
paid by the party of the second part, do hereby grant and release unto the
party of the second part, its successors and assigns forever, all
THAT TRACT OR PARCEL OF LAND situate on the westerly side of Conklin
Road in the Town of Conklin, County of Broome and State of New York
bounded and described as follows:

Beginning at an iron pin set in the westerly bounds of the
Delaware, Lackawanna and Western Railroad Co. at its intersection with
the division line between lands of Custer and Mary C. Bozon on the
south and George R. Webb on the north and running:

THENCE north 84 degrees 02 minutes west (as referred to the magnetic
meridian of August 1946) along the said division line a distance of
3697.36 feet to an iron pin;

THENCE north 5 degrees 41 minutes east along lands of George R. Webb
and Heirs of Alfred Smith a distance of 958.78 feet to an iron pin;

THENCE south 83 degrees 57 minutes east along lands of Onofrio and
Helen Desimone a distance of 3569.24 feet to an iron pin set in the
westerly bounds of the Delaware, Lackawanna and Western Railroad Co.;

THENCE south 1 degree 58 minutes east along the westerly bounds of the
Delaware, Lackawanna and Western Railroad Co. a distance of 960.84
feet to the point or place of beginning.

CONTAINING 79.97 acres of land be the same more or less.

Together with a permanent easement and right-of-way bounded
and described as follows:

THE

George B. Webb and Ada M. Webb, his wife,

Oswald H. Blais and Doris A. Blais, husband and wife, as tenants by the entirety,

Sold, September 26, 1946.

Franklin/ New York County of Broome ss.

RECORDED ON THE 4 day of October, 1946 at 11:15 a.m. in Liber 612, p. 12220.

Notary Public

State of New York } ss.
County of Broome }
On this 26th day of September, 1946, before me, the undersigned, personally appeared George B. Webb and Ada M. Webb, acknowledged to me that they executed the within instrument, and they acknowledged to me personally known and known to me to be the same persons described in and who executed the within instrument, and they acknowledged to me that they executed the same.

Michael H. English
Notary Public

#5

NEW YORK STATE DEPARTMENT OF PUBLIC WORKS
BUREAU OF RIGHTS OF WAY AND CLAIMS

BROOME COUNTY, ss

Recorded on the 8 day of

1962 at 10:00 o'clock

7:00 P.M. in Liber 1251 of

on page 99 and examined

Howard (Ward) Clerk

APPROPRIATION OF PROPERTY BY THE PEOPLE OF THE STATE OF NEW YORK

PROJECT:

DESCRIPTIONS AND MAPS

MAP NOS.

PARCEL NOS.

271

326,330

CONKLIN
R.D. 421
BROOME COUNTY

NOTICE OF APPROPRIATION

Pursuant to the statute set forth in the above descriptions and maps

TO:

GEORGE R. WEBB
DA M. WEBB

R.D. 1
Conklin, N.Y.

TOWN OF CONKLIN

Conklin
Broome County, N.Y.

TAKE NOTICE that on the 24 day of January, 1962, there was filed in the office of the Department of State a certified copy of each of the above designated descriptions and maps of property; and that on the 8 day of AUG 8 1962, 1962, there was filed in the office of the clerk of the county, in which such property is situated, a copy of each of such descriptions and maps.

TAKE FURTHER NOTICE that title to the property, easements, interests or rights described in said descriptions and maps vested in The People of the State of New York upon such filing in the office of said county clerk.

SUPERINTENDENT OF PUBLIC WORKS
OF THE STATE OF NEW YORK

Dated: AUG 8 1962



By: [Signature] Director, Bureau of Rights of Way and Claims

001887

W. KERNON

ROBERT J. NALL
R MARCQUERITE R
NALL
(Regarded Owner)

TOWN OF CONKLIN
(Reported Owner)

640 E. 5th St. Bklyn
JOS. M. W. BUND
(Eugene D. Daniels)

СЛУДРУНОГ. СЛУДИН

NOTATION

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Highway Boundary?

501755.E

PARCEL No 326
AREA = 11,5435 SQ. FT. -
0.2651st AC

GEORGE R. WEBB & ADA M. WEBB
(Reported Owners)

PARCEL NO 130
AREA - 8075 SQ FT
A2004 AC.

Point of Origin

68515

501.302

№ 03-004.

363.8'

OSWALD K.
DOBIS A.
Repacked

四

TRUE NORTH

001589

All that piece or parcel of property hereinafter designated as Parcel No. 326, situate in the Town of Conklin, County of Broome, State of New York. Being part of the property designated as Lot No. 4-11 on Master Map of the Broome County Tax Map, as shown on the accompanying map and described as follows:

Parcel No. 326

Beginning at a point being an iron on the Westerly boundary of the existing Conklin State Highway No. 421, at the intersection of the said boundary with the division line between the property of Leland A. Dix and Virginia A. Dix (reputed owners) on the North and the property of George M. Webb and Ada M. Webb (reputed owners) on the South, said point being 251 feet distant Westerly measured at right angles, from station 278+54 of the hereinafter described survey base line of the proposed reconstruction of a part of the Conklin State Highway No. 421; thence Westerly along said division line 111 feet to a point 36.4 feet distant Westerly measured at right angles from station 278+55 of said base line; thence S.01°25'E. 69 feet to a point 42 feet distant Westerly measured at right angles from station 285+50 of said base line; thence S.03°30'E. 122 feet to a point on the division line between the property of George M. Webb and Ada M. Webb (reputed owners) on the North and the property of Oswald H. Blais and Doris A. Blais (reputed owners) on the South, the last mentioned point being 38.6 feet distant Westerly measured at right angles from station 286+72 of the said base line; thence Easterly along said division line 141 feet to an iron at its intersection with the Westerly boundary of said existing highway, the last mentioned point being 25 feet distant Westerly measured at right angles from station 286+71 of the said base line; thence Northerly along the said highway boundary 817 feet to the point of beginning; being 115431 Square Feet = 0.265 acres more or less.

Permanent Easement for Drainage

A permanent easement to be exercised in, on and over the property above delineated and hereinafter described for the purpose of constructing, reconstructing and maintaining thereon a drainage ditch and drainage structures, together with appurtenances, in and to all that piece or parcel of property hereinafter designated as Parcel No. 330, situate in the Town of Conklin, County of Broome, State of New York, as shown on the accompanying map and described as follows:

Parcel No. 330

Beginning at a point within the lands of George M. Webb and Ada M. Webb (reputed owners) said point being 40.9 feet distant Westerly measured at right angles from station 285+55 of the hereinafter described survey base line of the proposed reconstruction of a part of the Conklin State Highway No. 421; thence through the property of George M. Webb and Ada M. Webb (reputed owners) the following courses and distances; S.88°07'W. 363.1 feet to a point 404 feet distant Westerly measured at right angles from station 285+55 of said base line; thence S.01°53'E. 25 feet to a point 404 feet distant Westerly measured at right angles from station 286+13 of said base line; thence N.88°07'E. 363.8 feet to a point 40.2 feet distant Westerly measured at right angles from station 286+13 of said base line; thence N.03°30'W. 25 feet to the point of beginning; being 90751 Square Feet = 0.208 acres more or less.

RESERVING, however, to the owner of the property, the right and privilege of using this property providing the exercise of such right and privilege does not, in the opinion of the superintendent of public works, or other authorized representative acting for the people of the state of New York or its assigns, interfere with or prevent the use and exercise of the rights hereinbefore described.

The above mentioned survey base line is a portion of the survey base line for the said proposed reconstruction of a part of the Conklin State Highway No. 421, County of Broome, as shown on a map and plan on file in the office of the State Department of Public Works and described as follows:

Beginning at station 261+10 back = 261+07.22 ahead; thence S.01°53'E. 2847.78 feet to station 289+55 back = 289+54.99 ahead.

All bearings referred to True North.

I hereby certify that this is an accurate description and map made from an accurate survey prepared under my direction.

Date Sept 12 1941


JOSEPH C. FREDERICK
District Engineer, District No. 9



NEW YORK STATE DEPARTMENT OF PUBLIC WORKS
DESCRIPTION AND MAP FOR THE APPROPRIATION OF PROPERTY

CONKLIN STATE HIGHWAY NO. 421 BROOME COUNTY

Map No. 271
Parcel No. 326,330

Total Area = 206.18 Ac. ±
WQ 47314079

GEORGE R. WEBB AND ADA M. WEBB
(Respected Owner)

Descriptions and map of property showing (1) Parcel No. 326 to be acquired in fee, and (2) Parcel No. 330 in and to which an easement as hereinabove defined is to be acquired, each of which the superintendent of public works deems necessary to be acquired by appropriation in the name of the people of the state of New York for purposes connected with the highway system of the state of New York pursuant to Section 30 of the Highway Law.

There is excepted from this appropriation all the right, title and interest, if any, of the United States of America in or to said property.

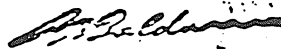
Pursuant to statute set forth above, and in accordance with the official order of the superintendent of public works, the above descriptions and map are hereby officially approved; and said descriptions and the original tracing of this map are hereby officially filed in the office of the department of public works.

Date January 12 1942



P. G. BALDWIN
Director, Bureau of Rights of Way and Claims

I have compared the foregoing copy of descriptions and map with the original thereof, as filed in the office of the department of public works and I do hereby certify the same to be a true and correct copy of said original and of the whole thereof.



001892

This Indenture,

Made the 22nd day of October

01513

Nineteen Hundred and Eighty-five

Between THE TOWN OF CONKLIN

Municipal pursuant to
a corporation organized under the laws of the State of New York, with
offices at the Town Hall, Town of Conklin, Conklin Road, Conklin,
New York 13748

partly of the first part, and
THE COUNTY OF BROOME, a municipal corporation organized
pursuant to the laws of the State of New York, with offices located
at 1 Governmental Plaza, Binghamton, New York 13901

partly of the second part,
that the party of the first part, in consideration of

ONE Dollar (\$1.00)
lawful money of the United States, and other good and valuable consideration
paid by the party of the second part, does hereby remise, release and quitclaim
unto the party of the second part, its successors and assigns forever, ~~the~~

ALL THAT TRACT OR PARCEL OF LAND situate in the Town of Conklin,
Broome County, New York described in Schedule "A" attached hereto.

01513-129

001893

SCHEDULE "A"

All those pieces or parcels of land hereinafter designated as Parcel No's. 1, 2E, 3E, 4E, and 5E, situate in the Town of Conklin, County of Broome, State of New York, as shown on the accompanying map and described as follows:

Parcel No. 1 (FEE)

BEGINNING at a point on the proposed Easterly boundary of the proposed Primary Access Road, County Highway No. 322, at the intersection of said boundary with the division line between the property owned by The Town of Conklin (reputed owner) on the North and the property owned by Serafini Construction Co., Inc. (reputed owner) on the South, said point being 60+ feet distance Easterly, measured at right angles, from station 65+80 of the hereinafter described Highway Centerline for the construction of a portion of the said proposed Primary Access Road, County Highway No. 322 said Point of Beginning being Westerly measured along said division line, a distance of 1,893+ feet from a point at its intersection with the Westerly right-of-way boundary of the Delaware and Hudson Railroad; thence Westerly, along said division line, a distance of 120+ feet to a point 60+ feet distant Westerly, measured at right angles, from station 65+83 of said centerline; thence through the property owned by said Town of Conklin (reputed owner) on a curve to the right, having a radius of 4,252+ feet, an arc distance of 95+ feet to a point at its intersection with the division line between the property owned by said Town of Conklin (reputed owner) on the South and the property owned by Onofrio Desimone and Helen Desimone (reputed owners) on the North, the last mentioned point being 60+ feet distant Westerly, measured at right angles, from station 75+30 of said centerline; thence Easterly along the last mentioned division line, a distance of 122+ feet to a point at its intersection with said proposed Easterly boundary of said proposed County Highway; the last mentioned point being 60+ feet distant Easterly, measured at right angles, from station 75+55 of said centerline; thence Southerly through the property owned by said Town of Conklin (reputed owner) on a curve to the left having a radius of 4,132+ feet, an arc distance of 95+ feet to the POINT OF BEGINNING; being 2.6475 acres, more or less.

Parcel No. 2E (PE FOR SLOPE & ROADSIDE DRAINAGE)

BEGINNING at a point on the proposed Westerly boundary of the proposed Primary Access Road, County Highway No. 322, at the intersection of said boundary with the division line between the property owned by The Town of Conklin (reputed owner) on the North and the property owned by Serafini Construction Co., Inc. (reputed owner) on the South, said point being 60+ feet distant Westerly, measured at right angles, from station 65+83 of the hereinafter described Highway Centerline for the construction of a portion of proposed Primary Access Road, County Highway No. 322 said Point of Beginning being Westerly measured along said division line, a distance of 2,013+ feet from a point at its intersection with the Westerly right-of-way boundary of the Delaware and Hudson Railroad; thence Westerly, along said division line, a distance of 10+ feet to a point 70+ feet distant Westerly, measured at right angles, from station 65+83 of said centerline; thence Northerly through the property owned by said Town of Conklin (reputed owner) the following six (6) courses and distances: (1) North 20 degrees 05 minutes 05 seconds West, a distance of 123+ feet to a point 100+ feet distant Westerly, measured at right angles from station 67+00 of said centerline; (2) thence North 01 degree 06 minutes 05 seconds East, a distance of 103+ feet to a point 9+ feet distant Westerly, measured at right angles, from station 69+01 of said centerline; (3) thence North 05 degrees 15 minutes 06 seconds East, a distance of 103+ feet to a point 75+ feet distant Westerly, measured at right angles, from station 69+00 of said centerline; (4) thence North 00 degrees 27 minutes 52 seconds West, a distance of 305+ feet to a point 75+ feet distant Westerly, measured at right angles, from station 72+00 of said centerline; (5) thence North 14 degrees 00 minutes 56 seconds West, a distance of 105+ feet to a point 105+ feet distant Westerly, measured at right angles, from station 73+00 of said centerline; (6) thence North 07 degrees 14 minutes 05 seconds East, a distance of 229+ feet to a point at its intersection with the division line between the property owned by said Town of Conklin (reputed owner) on the South and the property owned by Onofrio Desimone and Helen Desimone (reputed owners) on the North, the last mentioned point being 95+ feet distant Easterly, measured at right angles, from station 75+24 of said centerline; thence Easterly along the last mentioned division line, a distance of 35+ feet to a point at its intersection with said proposed Westerly boundary of said proposed County Highway; the last mentioned point being 60+ feet distant Westerly, measured at right angles, from station 75+30 of said centerline; thence Southerly along the last mentioned boundary on a curve to the left having a radius of 4,252+ feet, an arc distance of 95+ feet to the POINT OF BEGINNING; being 6.5672 acre, more or less.

Together with the appurtenances and all the estate and rights of the party of the first part in and to said premises.

Do hereby and to hold the premises herein granted unto the party of the second part, its successors and assigns forever.

In Presence of

In Witness Whereof, the party of the first part has caused its corporate seal to be hereunto affixed, and these presents to be signed by its duly authorized officer this 22nd day of October Nineteen Hundred and Eighty-five

THE TOWN OF CONKLIN

By Dorothy E. Steere
Supervisor
Carol Osterhout
Town Clerk

State of New York
County of Broome
before me personally came

On this 22nd day of
Nineteen Hundred and

to me personally known, who, being by me duly sworn, did depose and say that he resides in _____ that he is _____ of the corporation described in, and which executed, the within instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation; and that he signed _____ name thereto by like order.

STATE OF NEW YORK: SS.:
COUNTY OF BROOME :

On this 22nd day of October 1985, before me personally came Dorothy Steere, Supervisor, and Carol Osterhout, Town Clerk of the Town of Conklin, and being duly and severally sworn, deposes and says: Dorothy Steere that she is the Supervisor of said Town and Carol Osterhout that she is the Town Clerk of said Town, that they reside in the Town of Conklin, in the County of Broome and State of New York; that they are acquainted with the seal of said municipal corporation and that the seal fixed to the said instrument is such corporate seal, and was fixed to said instrument by resolution of the Town Board of the Town of Conklin and that they signed their names to said instrument as Supervisor and Town Clerk of said Town by like authority and acknowledged the execution thereof.

William L. Curran
Notary Public

WILLIAM L. CURRAN
NOTARY PUBLIC
BROOME COUNTY, N.Y.
No. 26

1985-10-23

001895



BROOME COUNTY CLERK ss
RECORDS OFFICE
RECORDING PAGE

Reserve This Space For Use of Recording Office

Type of Instrument

Deed

Recorded on the 14 day of Feb 19 86
at 4:21 o'clock P. in Liber 1513 of
Deeds page 129, examined and charged as
follows:

Recording Charge

E

Filing Charge

Cross Reference

Inst./Receipt

Full

Prac.

RS

E

Transfer for Stamps Attached

Del. S

E

Date

2-14-86

V. L. O

4271

Mortgage Amount

\$

Exempt Yes ☐ No ☐

Received Tax on Above Mortgage

Basic

\$

Additional

\$

Subtotal

\$

Special

\$

Total

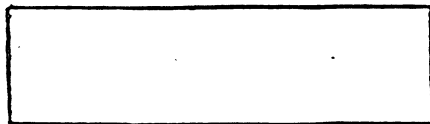
\$

CB

Richard A. Bogen

Richard A. Bogen
Broome County Clerk

RECORD AND RETURN TO:



(THIS PAGE IS A PART OF THE INSTRUMENT)

1513-131

001896



This Indenture,

05275

Made the 13 day of May

Nineteen Hundred and Eighty-Six

Between

THE TOWN OF CONKLIN, a municipal

a corporation organized under the laws of the State of New York, having its principal offices on Conklin Road, Conklin, New York 13748,

party of the first part, and

COUNTY OF BROOME, a municipal corporation, organized under the laws of the State of New York, having its principal offices in the Broome County Office Building, Government Plaza, Binghamton, New York 13902,

Witnesseth that the party of the first part, in consideration of

ONE AND 00/100—Dollar (\$1.00)
lawful money of the United States, and other good and valuable consideration
paid by the party of the second part, does hereby grant and release unto the
party of the second part, its heirs, successors and assigns forever, all

SEE ATTACHED:

1531-113

001897

~~Convey~~ with the appurtenances and all the estate and rights of the party of the first part in and to said premises.

To have and to hold the premises herein granted unto the party of the second part, its heirs, successors and assigns forever.

And the party of the first part covenants as follows:

First That the party of the second part shall quietly enjoy the said premises;

Second That the party of the first part will forever warrant the title to said premises.

In Presence of

Do Witness That, the party of the first part has caused its corporate seal to be hereunto affixed, and these presents to be signed by its duly authorized officer this 13 day of May Nineteen Hundred and Eighty-Six

TOWN OF CONKLIN

Carol O. Osterhout

By Dorothy E. Steere
Supervisor

State of New York
County of Broome }
before me personally came

On this 13 day of May
Nineteen Hundred and Eighty-Six
Dorothy Steere

to me personally known, who, being by me duly sworn, did depose and say that she resides in Conklin, New York that s he is the Supervisor of the Town of Conklin the corporation described in, and which executed, the within instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation; and that he signed name thereto by like order.

William L. Goodback
Notary Public

WILLIAM L. GOODBACK
Notary Public, State of New York
Qualified in Broome County
My Commission Expires Jan. 31, 1929

002

118



BROOME COUNTY CLERK: SS
Records Office
Recording Page

Type of Instrument: W.C.

Recording Charges: W.C.

Cross Reference: _____

TOTAL W.C.

EXCH. W.C.

Transfer Tax Stamps Attached

AMT. \$ E

DATE 5/2/86

T.T. # 6002

Recorded on the 93 day of May 1986
at 2:30 o'clock P.M. in Liber 158 of
Book on page 113, examined
and charged as follows:

Mortgage Amount: \$ _____

Exempt: Yes ☐ No ☐

Received Tax on Above Mortgage:

Basic \$ _____

Additional \$ _____

Subtotal \$ _____

Special \$ _____

Total \$ _____

MT # _____

Richard A. Hogan

Richard A. Hogan
Broome County Clerk

(This page is a part of the instrument.)

001899 419

001899

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE 7/17/85

SUBJECT Conklin Dumps Site

FROM Karen Sudy

TO Memo to the File

I spoke to Mr. Robert Denz of the Broome County Health Department concerning land area irrigated by supply wells drawing from the aquifer of concern within a 3-mile radius. To the best of Mr. Denz's knowledge, no land in that area is being irrigated. Mr. Denz referred me to the Cooperative Extension Coordinator for confirmation of that statement. I spoke with Mr. David Bradstreet from the Cooperative Extension Coordinator's office and he confirmed the statement that no land in that area is being irrigated.

001300

STATE	704213
-------	--------

1. HAZARDOUS MATERIALS (Check one) <input type="checkbox"/> A SOLID <input type="checkbox"/> B POWDER/FINES <input type="checkbox"/> C SLUDGE <input checked="" type="checkbox"/> D OTHER <u>Drums</u>		2. WASTE QUANTITY AND DATE (Approximate) (Specify Date) TONS <u>unknown</u> CUBIC YARDS <u>unknown</u> NO. OF DRUMS <u>unknown</u>		3. WASTE CHARACTERISTICS (Check all that apply) <input checked="" type="checkbox"/> A TOXIC <input type="checkbox"/> B CORROSIVE <input type="checkbox"/> C RADIOACTIVE <input checked="" type="checkbox"/> D PERSISTENT <input type="checkbox"/> E SOLUBLE <input type="checkbox"/> F INFECTIOUS <input type="checkbox"/> G FLAMMABLE <input type="checkbox"/> H IGNITABLE <input type="checkbox"/> I HIGHLY VOLATILE <input type="checkbox"/> J EXPLOSIVE <input type="checkbox"/> K REACTIVE <input type="checkbox"/> L INCOMPATIBLE <input type="checkbox"/> M NOT APPLICABLE	
--	--	--	--	--	--

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLE	SLEUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSO	PESTICIDES			
OCO	OTHER ORGANIC CHEMICALS	unknown		Found in groundwaters
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS (As Cr Hg)	unknown		Found in groundwaters

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/ DISPOSAL METHOD	05 CONCENTRATION
	Arsenic		Found in on-site groundwaters	
	Chromium		"	
	Mercury		"	
	Toluene		"	
	Ethylbenzene		"	
	Vinyl Chloride		"	
	1,1 Dichloroethane		"	
	1,2 Dichloropropane		"	
	Methylene Chloride		"	

CATEGORY	D1 FEEDSTOCK NAME	D2 CAS NUMBER	CATEGORY	D1 FEEDSTOCK NAME	D2 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

- ①. Hydrogeologic Investigation Report, Proposed Broome County Industrial Park, 1984, O'Brien and Gere Engineers
- ②. Phase II, Hydrogeologic Inv., Proposed Broome Co. Ind. Park, 1985
O'Brien and Gere Engineers



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

1. IDENTIFICATION
01 STATE NY 02 SITE NUMBER 704013

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 2058
02 ☒ OBSERVED (DATE August 1983 and Nov. 1983)
04 NARRATIVE DESCRIPTION Sampling Groundwater Contamination confirmed. See O'Brien and Gere Reports

01 ☒ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 0
02 ☒ OBSERVED (DATE 1980)
04 NARRATIVE DESCRIPTION Carlin Creek and wetlands (des. graded) within 1000 ft. of each landfill. Carlin Creek trib. to Susq. River, which is seasonal. Leachate observed impacting wetland along Rte. 7. Leachate draining toward Carlin Creek

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____)
04 NARRATIVE DESCRIPTION No Data

01 ☐ D. FIRE EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____)
04 NARRATIVE DESCRIPTION No Data

01 ☒ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____)
04 NARRATIVE DESCRIPTION Leachate OBSERVED. AROUND LANDFILLS.

01 ☐ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____)
04 NARRATIVE DESCRIPTION Unknown. (Stained by Leachate in several areas).

01 ☒ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 2058
02 ☒ OBSERVED (DATE _____)
04 NARRATIVE DESCRIPTION High Arsenic and low trace levels of organic chemicals found in private wells along Rte. 7. Carlin Creek may recharge Aquifer by Carlin Water District Well.

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____)
04 NARRATIVE DESCRIPTION N.A.

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____)
04 NARRATIVE DESCRIPTION N.A.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY 7046.3

E. HAZARDOUS CONDITIONS AND INCIDENTS

☒ J. DAMAGE TO FLORA
NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☒ POTENTIAL

☐ ALLEGED

Plants in wetlands may be susceptible

01 ☒ K. DAMAGE TO FAUNA

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☒ POTENTIAL

☐ ALLEGED

Animal populations in wetland habitat may be at risk.

01 ☒ L. CONTAMINATION OF FOOD CHAIN

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

Unknown

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

(Leakage, Punctures, Seepage, Leaking Drums)

03 POPULATION POTENTIALLY AFFECTED

02 ☐ OBSERVED (DATE _____)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

To Leachate outbreaks around landfills. Access to site is possible.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

Potential contamination source for affected private wells. Leachate outbreaks off-site.

O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs

NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

N.A.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS

04 TOTAL POPULATION POTENTIALLY AFFECTED: _____

V. COMMENTS

Leachate represents threat to Carlin Creek and protected wetlands. Public and private water supplies at risk from confirmed groundwater contamination.

V. SOURCES OF INFORMATION (See Section 1.1.1. for instructions on how to fill out this section)

- ① Hydrogeologic Inv. of Prop. Broome Co. Ind. Park, 1984, O'Brien and Se
- ② Phase II, Hyd. Inv. of Prop. Broome Co. Ind. Park, 1985, O'Brien and Gersing
- ③ Broome County Dept. Health/NYS Dept. Health - Syracuse Reg.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE NY 02 SITE NUMBER 704013

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC	<u>NA</u>			
<input type="checkbox"/> C. AIR	<u>?</u>			
<input type="checkbox"/> D. RCRA	<u>?</u>			
<input type="checkbox"/> E. RCRA INTERIM STATUS	<u>?</u>			
<input type="checkbox"/> F. SPOD PLAN				
<input type="checkbox"/> G. STATE <u>State</u>				
<input type="checkbox"/> H. LOCAL <u>Local</u>				
<input type="checkbox"/> I. OTHER <u>Other</u>				
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL (check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/ PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	06 AREA OF SITE
<input checked="" type="checkbox"/> F. LANDFILL	<u>UNKNOWN</u>		<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/ RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER <u>Other</u>	
<input type="checkbox"/> I. OTHER <u>Other</u>				

7. COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (check all that apply)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DUKING, LINERS, BARRIERS, ETC.

Drums reported to be buried. Landfills closed.
Wastes adequately covered. Leachate
generation around both landfills. Wastes landfilled
below water table. Permeable cover on lower landfill.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☐ NO

02 COMMENTS

Leachate on surface of ground. Access to site
on foot is easily possible.

VI. SOURCES OF INFORMATION (check all that apply)

- ① Hydrogeologic Inv. Reports, OBrient Corp, 1984 + 1985
- ② Site Inspection Observations



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

IDENTIFICATION

STATE AND SITE NUMBER

NY 704013

I. DRINKING WATER SUPPLY

TYPE OF DRINKING SUPPLY			B2 STATUS			B3 DISTANCE TO SITE	
	SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED	A	B
COMMUNITY	A <input type="checkbox"/>	B <input checked="" type="checkbox"/>	A <input checked="" type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	A _____ (mi.)	B _____ (mi.)
NON-COMMUNITY	C <input type="checkbox"/>	D <input checked="" type="checkbox"/>	D <input checked="" type="checkbox"/>	E <input type="checkbox"/>	F <input type="checkbox"/>		

III. GROUNDWATER

D1 GROUNDWATER USE A VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING

☒ B. DRINKING

(OTHER SOURCE OF DRINKING)

COMMERCIAL/INDUSTRIAL IRRIGATION
(SEE OTHER WATER SOURCES SECTION)

☐ C. COMMERCIAL/INDUSTRIAL IRRIGATION
(SEE OTHER SOURCES SECTION)

☐ D. NOT USED, UNUSABLE

D2 POPULATION SERVED BY GROUND WATER	2058	D3 DISTANCE TO NEAREST DRINKING WATER WELL	4800 FT. (mi.)
--------------------------------------	------	--	----------------

D4 DEPTH TO GROUND WATER	D5 DIRECTION OF GROUNDWATER FLOW	D6 DEPTH TO AQUIFER OF CONCERN	D7 POTENTIAL YIELD OF AQUIFER	D8 SOLE SOURCE AQUIFER
4 - 23 (ft.)	EAST - Northwest	4 - 23 (ft.)	Unknown (gpm)	<input type="checkbox"/> YES <input type="checkbox"/> NO

D9 DESCRIPTION OF WELLS (Pumping capacity, depth, and location relative to observation and discharge)

Private wells along Route 7. Most in overburden aquifer. (NO Alt. Source). Conklin W.D. wells developed in glacial overburden, approximately 1-1 1/2 miles northwest of Site.

E1 RECHARGE AREA

☒ YES
☐ NO

COMMENTS Barlin Creek identified as potential recharge area.

E2 DISCHARGE AREA

☐ YES
☒ NO

COMMENTS

IV. SURFACE WATER

F1 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION
DRINKING WATER SOURCE

☒ B. IRRIGATION ECONOMICALLY
IMPORTANT RESOURCES
Recreational

☐ C. COMMERCIAL/INDUSTRIAL

☐ D. NOT CURRENTLY USED

F2 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Carlin Creek (Trib to Susq)	<input checked="" type="checkbox"/>	300 FT.
Susquehanna River	<input type="checkbox"/>	1-1 1/2 miles (mi.)
On-Site Designated wetlands	<input checked="" type="checkbox"/>	300-800 FT.

V. DEMOGRAPHIC AND PROPERTY INFORMATION

G1 TOTAL POPULATION WITHIN			G2 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE	
A _____ NO. OF PERSONS	B. 2058 NO. OF PERSONS	C. _____ NO. OF PERSONS	1/4 (mi.)

G3 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	G4 DISTANCE TO NEAREST OFF-SITE BUILDING
_____	1/4 (mi.)

G5 POPULATION WITHIN VICINITY OF SITE (Provide approximate cross-section of nature of landscape within vicinity of site. If site is rural, provide approximate acreage)

Subdivisions along RTE 7, directly adjacent and across from lower landfills. Conklin (W) located approx. 1/2-1 mile from sites.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

IDENTIFICATION
STATE/CONTAINER NUMBER
NY 1704613

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (cm/sec)

☐ A. 10^{-8} - 10^{-9} cm/sec ☐ B. 10^{-6} - 10^{-8} cm/sec ☐ C. 10^{-4} - 10^{-3} cm/sec ☒ D. GREATER THAN 10^{-3} cm/sec
VARIES FROM 10^{-1} TO 10^{-5} cm/sec on most of site.

02 PERMEABILITY OF BEDROCK (cm/sec)

☐ A. IMPERMEABLE ☐ B. RELATIVELY IMPERMEABLE ☐ C. RELATIVELY PERMEABLE ☐ D. VERY PERMEABLE
(10^{-8} - 10^{-6} cm/sec) (10^{-4} - 10^{-2} cm/sec) (10^{-2} - 10^{-1} cm/sec) (10^{-1} - 10^0 cm/sec)

03 DEPTH TO BEDROCK

60-114 (ft)

04 DEPTH OF CONTAMINATED SOIL (cm)

30 (ft)

05 SOIL PH

06 NET PRECIPITATION

12 (in)

07 ONE YEAR 24 HOUR RAINFALL

25 (in)

08 SLOPE

SITE SLOPE
4 %

DIRECTION OF SITE SLOPE

EAST

TERRAIN AVERAGE SLOPE

4 %

09 FLOOD POTENTIAL

SITE IS IN _____ YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (ft)

ESTUARINE

A. _____ (ft)

OTHER

300-800 FT.

B. _____ (ft)

12 DISTANCE TO CRITICAL HAZARD (ft)

ENDANGERED SPECIES

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS, NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. _____ (ft)

B. 2/4 (ft)

C. _____ (ft)

D. _____ (ft)

DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Site consists of an upper and lower landfill developed on upgradient area from surrounding residential areas. Lower landfill developed over glacial outwash with very high permeabilities. 10^{-1} - 10^{-2} cm/sec in close proximity (800 ft.) to residential areas using private water wells.

VII. SOURCES OF INFORMATION (Cite specific documents, reports, etc.)

- ① 1984 and 1985 Hydro. Inv. of Prop. Broome Co. Industry at Park, O'Brien and Gere Engineers.
- ② HRS MANUAL
- ③ SITE OBSERVATIONS



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE NY 02 SITE NUMBER 70403

SAMPLES TAKEN

None During Inspection. Past Sampling Available

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	720	O'Brien and Gere Engineers (2) Broome County Health Dept.	
SURFACE WATER	75	O'Brien and Gere Engineers.	
WASTE			
AIR			
RUNOFF			
SPEL			
SOL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
	None

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS NYS DEC Region 7; NYSDEC Albany; Broome Co. IDA

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (See Appendix A for instructions)

- 1984 and 1985 Hydro. Reports, O'Brien and Gere
- Follow-up Mtgs. with Broome County officials.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 7040.3

II. CURRENT OWNERS:

CURRENT OWNERS				PARENT COMPANY			
01 NAME	02 D-B NUMBER	03 NAME	04 D-B NUMBER	01 NAME	02 D-B NUMBER	03 NAME	04 D-B NUMBER
Town of Conklin							
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 STREET ADDRESS (P.O. Box, RFD #, etc.)	06 SIC CODE				
Rte. 6							
05 CITY	06 STATE	07 ZIP CODE	08 CITY	09 STATE	10 ZIP CODE	11 CITY	12 STATE
Conklin	NY						
01 NAME	02 D-B NUMBER	03 NAME	04 D-B NUMBER	01 NAME	02 D-B NUMBER	03 NAME	04 D-B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 STREET ADDRESS (P.O. Box, RFD #, etc.)	06 SIC CODE				
05 CITY	06 STATE	07 ZIP CODE	08 CITY	09 STATE	10 ZIP CODE	11 CITY	12 STATE
01 NAME	02 D-B NUMBER	03 NAME	04 D-B NUMBER	01 NAME	02 D-B NUMBER	03 NAME	04 D-B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 STREET ADDRESS (P.O. Box, RFD #, etc.)	06 SIC CODE				
05 CITY	06 STATE	07 ZIP CODE	08 CITY	09 STATE	10 ZIP CODE	11 CITY	12 STATE
01 NAME	02 D-B NUMBER	03 NAME	04 D-B NUMBER	01 NAME	02 D-B NUMBER	03 NAME	04 D-B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 STREET ADDRESS (P.O. Box, RFD #, etc.)	06 SIC CODE				
05 CITY	06 STATE	07 ZIP CODE	08 CITY	09 STATE	10 ZIP CODE	11 CITY	12 STATE

III. PREVIOUS OWNERS:

PREVIOUS OWNERS				IV. REALTY OWNERS:			
01 NAME	02 D-B NUMBER	03 NAME	04 D-B NUMBER	01 NAME	02 D-B NUMBER	03 NAME	04 D-B NUMBER
Town of Conklin							
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 STREET ADDRESS (P.O. Box, RFD #, etc.)	06 SIC CODE				
Rte. 6							
05 CITY	06 STATE	07 ZIP CODE	08 CITY	09 STATE	10 ZIP CODE	11 CITY	12 STATE
Conklin	NY						
01 NAME	02 D-B NUMBER	03 NAME	04 D-B NUMBER	01 NAME	02 D-B NUMBER	03 NAME	04 D-B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 STREET ADDRESS (P.O. Box, RFD #, etc.)	06 SIC CODE				
05 CITY	06 STATE	07 ZIP CODE	08 CITY	09 STATE	10 ZIP CODE	11 CITY	12 STATE
01 NAME	02 D-B NUMBER	03 NAME	04 D-B NUMBER	01 NAME	02 D-B NUMBER	03 NAME	04 D-B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 STREET ADDRESS (P.O. Box, RFD #, etc.)	06 SIC CODE				
05 CITY	06 STATE	07 ZIP CODE	08 CITY	09 STATE	10 ZIP CODE	11 CITY	12 STATE

V. SOURCES OF INFORMATION

① NYS Registry of Inactive Haz. Waste Disposal Sites
Vol. 7, 1984

② 1984 and 1985 Hydro. Inv. Reports (O'Brien and Gere Eng.)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

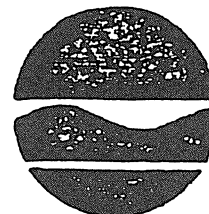
1. IDENTIFICATION

01 STATE 02 SITE NAME

NY 704013

PAST RESPONSE ACTIVITIES

01 <input checked="" type="checkbox"/> A. WATER SUPPLY CLOSED	02 DATE _____	03 AGENCY _____
04 DESCRIPTION Private water supplies in vicinity of landfill have high arsenic levels. Owners advised accordingly by Brown Co. Health Dept.		
01 <input type="checkbox"/> B. TEMPORARY WATER SUPPLY PROVIDED	02 DATE _____	03 AGENCY _____
04 DESCRIPTION _____		
01 <input type="checkbox"/> C. PERMANENT WATER SUPPLY PROVIDED	02 DATE _____	03 AGENCY _____
04 DESCRIPTION _____		
01 <input type="checkbox"/> D. SPILLED MATERIAL REMOVED	02 DATE _____	03 AGENCY _____
04 DESCRIPTION _____		
01 <input type="checkbox"/> E. CONTAMINATED SOIL REMOVED	02 DATE _____	03 AGENCY _____
04 DESCRIPTION _____		
01 <input type="checkbox"/> F. WASTE REPACKAGED	02 DATE _____	03 AGENCY _____
04 DESCRIPTION _____		
01 <input type="checkbox"/> G. WASTE DISPOSED ELSEWHERE	02 DATE _____	03 AGENCY _____
04 DESCRIPTION _____		
01 <input type="checkbox"/> H. ON SITE BURIAL	02 DATE _____	03 AGENCY _____
04 DESCRIPTION _____		
01 <input type="checkbox"/> I. IN SITU CHEMICAL TREATMENT	02 DATE _____	03 AGENCY _____
04 DESCRIPTION _____		
01 <input type="checkbox"/> J. IN SITU BIOLOGICAL TREATMENT	02 DATE _____	03 AGENCY _____
04 DESCRIPTION _____		
01 <input type="checkbox"/> K. IN SITU PHYSICAL TREATMENT	02 DATE _____	03 AGENCY _____
04 DESCRIPTION _____		
01 <input type="checkbox"/> L. ENCAPSULATION	02 DATE _____	03 AGENCY _____
04 DESCRIPTION _____		
01 <input type="checkbox"/> M. EMERGENCY WASTE TREATMENT	02 DATE _____	03 AGENCY _____
04 DESCRIPTION _____		
01 <input type="checkbox"/> N. CUTOFF WALLS	02 DATE _____	03 AGENCY _____
04 DESCRIPTION _____		
01 <input type="checkbox"/> O. EMERGENCY DUKING/SURFACE WATER DIVERSION	02 DATE _____	03 AGENCY _____
04 DESCRIPTION _____		
01 <input type="checkbox"/> P. CUTOFF TRENCHES SUMP	02 DATE _____	03 AGENCY _____
04 DESCRIPTION _____		
01 <input type="checkbox"/> Q. SUBSURFACE CUTOFF WALL	02 DATE _____	03 AGENCY _____
04 DESCRIPTION _____		



Henry G. Williams
Commissioner

June 6, 1985

Ms. Melonie Sviatyla
Broome County Health Department
One Wall Street
Binghamton, NY 13901

Re: Water Supplies
Conklin T., Broome County

Dear Ms. Sviatyla:

This letter will serve to confirm our discussions of June 3, 1985 regarding public and private water supplies in the vicinity of the Conklin Dumps, Conklin T., Broome County. Based on our discussions it is my understanding that:

- 1.) The Conklin Water District wells are developed in the glacial outwash (overburden).
- 2.) The Conklin W.D. is interconnected with the Binghamton Water Supply.
- 3.) Approximately 50 private wells (in the overburden aquifer) exist in the vicinity of the landfill. A waterline extension would be needed to provide an alternate water source to these individuals.

Please advise me in writing, if any of the above is incorrect.
Thank you for your assistance.

Sincerely,

Raymond E. Lupe, P.E.
Bureau of Hazardous Site Control
Division of Solid and Hazardous Waste
Western Investigation Section

bcc: C. Goddard
L. Lepak
W. Demick
NPL File
File

RL:jaf

001910



RECEIVED

Kathleen A. Gaffney, M.D., Commissioner of Health
Robert W. Denz, P.E., Director, Environmental Health Services

Carl S. Young, County Executive

June 11, 1985

Mr. R. Lupe, P. E.
Bureau of Hazardous Site Control
Division of Solid and Hazardous Waste
Western Investigation Section
NYSDEC
50 Wolf Road
Albany, New York 12233-0001

Re: Town of Conklin Dumps

Dear Mr. Lupe:

In response to your letter of June 6, 1985 concerning the water supply situation in the Town of Conklin, I would like to make the following comments:

1. Regarding Question #2: The Town of Conklin and Binghamton Water Supplies are not interconnected.
2. Regarding Question #3: Of the 50 or so residential wells in the vicinity of the landfill, about 10-15 are drilled in bedrock. Previously, we have found arsenic in these deep bedrock wells which may be attributed to the type of bedrock geology present in this locality. Nonetheless, a water line extension down Conklin Avenue (Route 7) would be needed to provide an alternate source of water to the residences.

If you have any questions concerning these comments or require additional information, please feel free to call me.

Sincerely yours,

Melonie H. Sviatyla
Assistant Public Health Engineer

MMS:mbf

cc: Robert W. Denz, P. E.

001911

BROOME COUNTY

COMMUNITY WATER SYSTEM

POPULATION SOURCE

Municipal Community

1	Afton Village (Chenango Co. Page 22)		Wells (Springs)
2	Applewood Acres		Wells
3	Binghamton City	280	Wells
4	Chenango Water District #1	60000	Susquehanna River, Wells
5	Chenango Water District #3	2072	Wells
6	Chenango Water District #7	680	Wells
7	Chenango Water District #14	NA	Wells
8	Chenango Water District #14 (Woodland Park)	272	Wells
9	Conklin Water District #2	225	Wells
10	Deposit Village	1868	Wells in center of town
11	Endicott Municipal Water Works	189	Wells
12	Hillcrest Water District #1	45000	Wells
13	Johnson City Water Works	3356	Wells
14	Keeler Avenue Water Association	17125	Wells
15	Kirkwood Water District #4	104	Wells (also - 1/2 of River)
16	Lisle Village	256	Wells (Springs)
17	Masler Water Supply	500	Wells
18	Pennview (Chenango Water District #10)	90	Wells
19	River Road Water Association	35	Wells
20	Riverside Co-op Water Association	40	Wells
21	Runacre Estates (Chenango Water District #11)	110	Wells
22	Vestal Water District #1	180	Wells
23	Vestal Water District #4	8760	Wells
24	Vestal Water District #5	3700	Wells
25	Whitney Point Village	900	Wells
26	Windsor Village	1100	Wells
		1400	Wells

Non-Municipal Community

27	Binghamton Mobile Estates	250	Wells
28	Blue Ridge Mobile Home Park	75	Wells
29	Blue Stone Mobile Home Park	30	Wells
30	Bolebruchs Mobile Home Park	25	Wells
31	Country Court Mobile Home Park	NA	Wells
32	Country Estates Mobile Home Court	170	Wells
33	Country Manor	60	Wells
34	D & G Trailer Park	25	Wells
35	Deluxe Mobile Park	60	Wells
36	Edison Road Mobile Court	150	Wells
37	Fenton Mobile Estates	210	Wells
38	Forest Manor Residential Development	200	Wells
39	Forestview Mobile Homes Park	150	Wells
40	Fountain Bleu Court	360	Wells
41	Glendale Court	120	Wells
42	Green Valley Mobile Lodge	80	Wells
43	Haist Mobile Home Park	36	Wells
44	Hayes Service Court	150	Wells
45	Heaths Trailer Park	46	Wells
46	Hickory Ridge Trailer Park	NA	Wells
47	Hillside Park	NA	Wells
48	Hust Trailer Park	NA	Wells
49	Kirkwood Trailer Park	40	Wells
50	Lakeside Lodge	NA	Wells
51	Lillian Diamond Trailer Park	NA	Wells
52	Maine Mobile Court	NA	Wells
53	Manns Mobile Community	NA	Wells
54	Maple Run Mobile Home Park	NA	Wells
55	MBM Mobile Home Court	NA	Wells
56	Meadows Mobile Home Park	NA	Wells
57	Mount Estrick Terrace	NA	Wells
58	Mount Mobile Home Community	63	Wells
59	Mountain View Mobile Home Park	NA	Wells
60	Nanticoke Valley Mobile Court	270	Wells
61	Oceanus Falls Court	NA	Wells
62	Orshals	1000	Wells
63	Pennview Apartments	68	Wells
64	Perts Mobile Home Park	NA	Wells
65	Pride Manor Mobile Home Park	NA	Wells
66	Rush Trailer Park	NA	Wells
67	Shady Maple Trailer Park	60	Wells
68	Tuscarora Mobile Village	40	Wells
69	Twin Acre Terrace	34	Wells
70	Valley Vista	NA	Wells
71	Village Court	NA	Wells
72	Virginia City Mobile Home Court	NA	Wells
73	Wal Mar	24	Wells
74	Westview Trailer Park	NA	Wells
75	Whispering Pines Mobile Home Court	NA	Wells
76	Wooded Estates	NA	Wells

ARTICLE XII

Section 1204. Waste Disposal and Storage of Materials

Dumping of waste materials or other similar substances is prohibited in all districts within the Town except in those areas designated by the Town Board. A license to operate a waste disposal site shall be obtained from the Town Board annually contingent upon meeting all requirements and specifications of the Town Board and Part 19 of the New York Sanitary Code. Said license shall be effective from January 1 through December 31, and the license fee shall be a yearly rate regardless of the date when the license is issued during the year.

Materials other than those normal to the authorized use of lands and buildings, shall not be stored outdoors on the premises in any district except for construction on the premises concerned within a period of one year from the date of such storage, unless a permit is granted therefore by the Board of Appeals. The storage of such materials shall not be allowed to become unsightly or contribute a menace to public health or safety.

Preliminary Inspection of Land fill site

Sept. 22, 1976, The Country Courier

Boyer reported that two engineers inspected the land fill recently. Boyer said the engineers expressed satisfaction with the condition of the fill. The land fill is operated, under contract, by Oscar Ulco.

The engineers recommended steps be taken to insure proper water drainage to prevent pollution. Ulco has constructed a ditch to divert water from the land fill and built a shoulder to prevent water from running over the surface of trenches in which garbage is buried.

The present contract expires Oct. 31. The town will be putting the contract to bid perhaps at its next meeting Sept. 28.

Ulco said the amount of garbage being brought to the fill is increasing from both private and commercial sources.

The land fill is open from 8 to 4 p. m., Monday, Tuesday and Thursday, and from 8 to 11 a. m., Saturday, for private residents.

Ulco said that as trenches are being covered, a level field with enough slope for water runoff is developing. It was suggested that perhaps the boy scouts could make a project of planting trees or the field could be seeded.

Ulco said with proper use there is enough land at the site for another 25 years.

001914

November 3, 1976, The Country Courier

Conklin landfill bid \$47,000

The Conklin town board last Friday night accepted a bid of \$47,000 to operate the town's land fill for one year. The contract which became effective Nov. 1, went to J.N. Giammarino of 26 Pierce St., Binghamton.

Giammarino's bid was one of two bids opened at the town board meeting last Tuesday night. The other bid for \$42,000 was submitted by Gorick Construction Co. was rejected because the bid specifications did not contain enough information.

The town's engineers, McFarland and Johnson, said in a letter to the board that the Gorick bid was unacceptable because there were "no plans for a full and complete operation," and there was no list of equipment required.

The board accepted the Giammarino bid with a vote of 4-1. Councilman Grant Boyer voted no. He said after the vote that the town should get out of the land fill business. "I hope next year we are not voting to approve another land fill contract," Boyer told the board.

The land fill which is off Conklin Road had been operated under contract by Oscar Ulco. Ulco did not submit a bid because he said he wants to take winters off. He operated the land fill last year with a \$47,000 contract. He worked for 26 years in excavating, and he said he would return to private contracting.

Ulco has received high praise from the Broome County Department of Health for the operation of the land fill. The Health Department, which conducted surprise checks, would insure that the land fill would be kept clean. Ulco said

001915



Broome County Health Department
20 Wall Street
Binghamton, New York 13901
(607) 772-2101

Edwin L. Crawford, County Executive

Cameron F. McRae, M.D.
Commissioner of Health
A. Stewart Payne
Administrator

November 30, 1977

Mr. Jim Giammarino
26 Pierce Avenue
Binghamton, N.Y. 13903

Dear Mr. Giammarino:

The regular monthly inspection was made of your refuse disposal site located off Conklin Road by personnel of this Department on November 18, 1977.

On that date and at the time of observation, 10 o'clock, the following violations of the Broome County Sanitary Code were noted:

(4) Leachate Observed At the Site

Leachate appearing at the surface of the ground at the site is a source of odor and may contaminate adjacent streams or water courses. You are directed to take immediate action to contain this leachate and to provide sufficient cover or grading to prevent contamination of nearby waters.

(5) Leaching into a Water Course

Liquid effluent which has passed through the refuse was observed flowing into a water course. This is, of course, a violation of the Water Pollution Control Laws as well as Part 19 of the Sanitary Code and steps should be taken immediately to correct this condition and prevent recurrence. This may often be accomplished by re-grading or providing sufficient cover over the refuse. However, if the problem should prove more difficult, please get in touch with us regarding specific measures you may take.

Your attention to these matters will be appreciated. Another inspection will be made at a later date and we will keep in touch with you on your progress toward correction. Your continued cooperation toward making this a good operation is appreciated.

Very truly yours,

Roland M. Austin, P.E.
Director
Environmental Health Services

001916

RMA/amb

cc: Mr. George S. Archie, Jr., and Town Board, Town of Conklin, 1134 Conklin Road, Conklin, N.Y. 13748.

Facility name: Conklin

Location: Conklin, Broome County, New York

EPA Region: Region II

Person(s) in charge of the facility: Ray Lupe

NYS Department of Environmental Conservation

50 Wolf Road, Albany, NY

Name of Reviewer: Karen Sudv Date: 7/16/85

General description of the facility:
 (For example: landfill, surface impoundment, pile, container, types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

Two abandoned landfills in the Town of Conklin. The site was
formerly used by the Town of Conklin and local industries. Drums
of unknown wastes were taken to the site. Large designated
wetlands on-site. Leachate problems noted around landfills.
Ground water contamination with arsenic, chromium, mercury, and
organic chemicals confirmed. Public and Private water supplies
at risk

Scores: $S_{\text{E}} = 33.93$ ($S_{\text{gw}} = 58.16$; $S_{\text{sw}} = 7.97$; $S_{\text{a}} = \text{N/A}$)
 $S_{\text{FE}} = \text{N/A}$
 $S_{\text{DC}} = \text{N/A}$

FIGURE 1
HRS COVER SHEET

Handwritten:
 1-1-85
 J. J. [unclear]

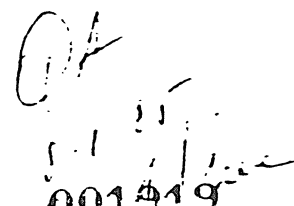
Ground Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	0 <u>45</u>	1	<u>45</u>	45	3.1	
If observed release is given a score of 45, proceed to line 4 . If observed release is given a score of 0, proceed to line 2 .						
2 Route Characteristics					3.2	
Depth to Aquifer of Concern	0 1 2 3	2		6		
Net Precipitation	0 1 2 3	1		3		
Permeability of the Unsaturated Zone	0 1 2 3	1		3		
Physical State	0 1 2 3	1		3		
Total Route Characteristics Score				15		
3 Containment	0 1 2 3	1		3	3.3	
4 Waste Characteristics					3.4	
Toxicity/Persistence	0 3 6 9 12 15 <u>18</u>	1	<u>18</u>	18		
Hazardous Waste Quantity	0 <u>1</u> 2 3 4 5 6 7 8	1	<u>1</u>	8		
Total Waste Characteristics Score				<u>19</u>	26	
5 Targets					3.5	
Ground Water Use	0 1 2 <u>3</u>	3	<u>9</u>	9		
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 <u>30</u> 32 35 40	1	<u>30</u>	40		
Total Targets Score				<u>39</u>	49	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			<u>3525</u>	57,330		
7 Divide line 6 by 57,330 and multiply by 100			$S_{gw} = 58.12$			

FIGURE 2
GROUND WATER ROUTE WORK SHEET

001918

Surface Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	0 45	1	0	45	4.1	
If observed release is given a value of 45, proceed to line 4 . If observed release is given a value of 0, proceed to line 2 .						
2 Route Characteristics					4.2	
Facility Slope and Intervening Terrain	0 1 2 3	1	0	3		
1-yr. 24-hr. Rainfall	0 1 2 3	1	2	3		
Distance to Nearest Surface Water	0 1 2 3	2	4	6		
Physical State	0 1 2 3	1	3	3		
Total Route Characteristics Score			9	15		
3 Containment	0 1 2 3	1	3	3	4.3	
4 Waste Characteristics					4.4	
Toxicity/Persistence	0 3 6 9 12 15 18	1	18	18		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	1	8		
Total Waste Characteristics Score			19	26		
5 Targets					4.5	
Surface Water Use	0 1 2 3	3	6	9		
Distance to a Sensitive Environment	0 1 2 3	2	4	6		
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40		
Total Targets Score			10	55		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			5130	64,350		
7 Divide line 6 by 64,350 and multiply by 100			S _{sw} = 7.97			

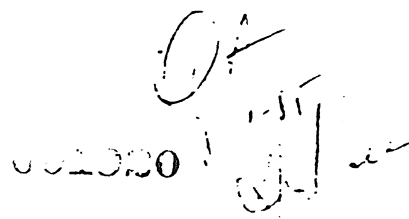
**FIGURE 7
SURFACE WATER ROUTE WORK SHEET**


 001419

NOT EVALUATED.

Air Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	0 45	1	0	45	5.1	
Date and Location:						
Sampling Protocol:						
If line 1 is 0, the $S_a = 0$. Enter on line 5 . If line 1 is 45, then proceed to line 2 .						
2 Waste Characteristics					5.2	
Reactivity and Incompatibility	0 1 2 3	1		3		
Toxicity	0 1 2 3	3		9		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8		
Total Waste Characteristics Score				20		
3 Targets					5.3	
Population Within 4-Mile Radius	{ 0 9 12 15 18 21 24 27 30	1		30		
Distance to Sensitive Environment	0 1 2 3	2		6		
Land Use	0 1 2 3	1		3		
Total Targets Score				39		
4 Multiply 1 x 2 x 3				35.100		
5 Divide line 4 by 35.100 and multiply by 100			$S_a = 0.0$			

FIGURE 9
AIR ROUTE WORK SHEET


 002020

	s	s ²
Groundwater Route Score (S _{gw})	58.16	3382.59
Surface Water Route Score (S _{sw})	7.97	63.52
Air Route Score (S _a)	0.00	0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		3446.11
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		58.70
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		33.93

FIGURE 10
WORKSHEET FOR COMPUTING S_M

QA
s 1.15
A. J. Lee

Fire and Explosion Work Sheet: N/A									
Rating Factor	Assigned Value (Circle One)				Multi- plier	Score	Max. Score	Ref. (Section)	
1 Containment	1	3			1		3	7.1	
2 Waste Characteristics								7.2	
Direct Evidence	0	3			1		3		
Ignitability	0	1	2	3	1		3		
Reactivity	0	1	2	3	1		3		
Incompatibility	0	1	2	3	1		3		
Hazardous Waste Quantity	0	1	2	3	4	5	6	7	8
Total Waste Characteristics Score							20		
3 Targets								7.3	
Distance to Nearest Population	0	1	2	3	4	5	1	5	
Distance to Nearest Building	0	1	2	3			1	3	
Distance to Sensitive Environment	0	1	2	3			1	3	
Land Use	0	1	2	3			1	3	
Population Within 2-Mile Radius	0	1	2	3	4	5	1	5	
Buildings Within 2-Mile Radius	0	1	2	3	4	5	1	5	
Total Targets Score							24		
4 Multiply 1 x 2 x 3							1,440		
5 Divide line 4 by 1,440 and multiply by 100								SFE =	

**FIGURE 11
FIRE AND EXPLOSION WORK SHEET**

001322

Direct Contact Work Sheet N/A						
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)	
1 Observed Incident	0 45	1		45	8.1	
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2						
2 Accessibility	0 1 2 3	1		3	8.2	
3 Containment	0 15	1		15	8.3	
4 Waste Characteristics Toxicity	0 1 2 3	5		15	8.4	
5 Targets					8.5	
Population Within a 1-Mile Radius	0 1 2 3 4 5	4		20		
Distance to a Critical Habitat	0 1 2 3	4		12		
Total Targets Score				32		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5				21,600		
7 Divide line 6 by 21,600 and multiply by 100			SDC =			

FIGURE 12
DIRECT CONTACT WORK SHEET

001923

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference. Include the location of the document.

FACILITY NAME: Conklin Dumps

LOCATION: Conklin, Broome County, NY

DATE SCORED: 7/16/85

PERSON SCORING: Karen Sudy

PRIMARY SOURCE(S) OF INFORMATION (e.g., EPA region, state, FIT, etc.):

FACTORS NOT SCORED DUE TO INSUFFICIENT INFORMATION:

COMMENTS OR QUALIFICATIONS:

001324

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (3 maximum):

mercury	benzene
chromium	1,1-dichloroethane
vinyl chloride	

Ref. 2a (Tables 4 & 5)
value = 45 (Ref.1)

Rationale for attributing the contaminants to the facility:

These contaminants and others were found in wells screened in refuse, as well as in adjacent wells screened in alluvium and outwash sand and gravel. Other wells screened in the same aquifer showed no contamination.

Ref. 2a (pp 22-25, Fig. 3 & Tables 4 & 5)

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

The aquifer of concern consists of alluvium and outwash sands and gravel, which overlie till in the vicinity of the site. These materials extend from the ground surface to depths of at least 60 feet near the site.

Ref. 2a, 2b, 3, 12 & 13

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

N/A

Depth from the ground surface to the lowest point of waste disposal/storage:

N/A

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

N/A

Mean annual lake or seasonal evaporation (list months for seasonal):

N/A

Net precipitation (subtract the above figures):

N/A

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

N/A

Permeability associated with soil type:

N/A

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

N/A

OK
8-1-85
J. Lee

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

N/A

Method with highest score:

N/A

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

chromium	vinyl chloride
mercury	1,1-dichloroethane
benzene	

Ref. 2a (Tables 4 & 5, Fig. 3 & Appendix A)

Compound with highest score:

mercury (toxicity=3, persistence=3)

Ref. 10

Value = 18 (Ref. 1)

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Although both landfills may contain a total of over 10 million cubic feet of waste, the amount of material that is hazardous is not known.

Ref. 2a (pp3-4)

Basis of estimating and/or computing waste quantity:

The quantity of hazardous material is not known. However, contaminants were detected in samples of ground water from wells screened in refuse. Therefore, a value of 1 has been assigned to this factor, signifying a quantity of hazardous waste greater than 0.

Ref. 11

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:
Private and municipal wells draw drinking water from the aquifer of concern within 3 miles of the site. No alternate sources of supply are available.

Ref. 2a (p 38), 3, 4, 14 & 15

Value = 3 (Ref. 1)

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

The nearest well drawing drinking water from the aquifer of concern is the Villano/Buchinski private well, located on the west side of Route 7 north of the access road leading to the landfill area.

Ref. 2a (Fig. 3 & Table 8) & 2b (pp 27 & 32)

Distance to above well or building:

The Villano/Buchinski well is located approximately 700 feet ENE of on-site monitoring well #5, which is contaminated with mercury.

Ref. 2a (Fig. 3)

Value = 4 (Ref.1)

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

Conklin Water District Well #2 - 1868 people
private wells - 133 people (35 wells times 3.8 people per well)
Other private, multi-user wells exist in the area but the population associated with them is not known.

Ref. 3 & 4

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

None known.

Ref. 8

Total population served by ground water within a 3-mile radius:

wells: $1868 + 133 = 2001$ people

irrigated land: 0

total: 2001 people

Value = 3

Matrix value (4 by 3) = 30

Ref. 1

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

Rationale for attributing the contaminants to the facility:

N/A

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Surface contamination has been documented at only one point — in a leachate seep in the upper landfill. Since it is not apparent that hazardous materials exist everywhere in the landfills, the slope of the facility as it affects migration by surface water must be given a value of 0 degrees. Ref. 2a (p 23, Fig. 3 & Tables 4 & 5)

Name/description of nearest downslope surface water:

The nearest downslope surface water is the Susquehanna River.

Ref. 6

Average slope of terrain between facility and above-cited surface water body in percent:

The average slope of the intervening terrain between the point of known surface contamination and the Susquehanna River, along the surface water pathway, is approximately 1.3%. This value was calculated using an elevation of 900 feet for the contamination, 850 feet for the river, and a distance between the two of 4000 feet.

Ref. 2a (Figs. 1 & 2) & 6 Matrix Value (each less than 3%) = 0 (Ref. 1)
Is the facility located either totally or partially in surface water?

No

Ref. 2a (Fig. 1) & 6

Is the facility completely surrounded by areas of higher elevation?

No

Ref. 6

1-Year 24-Hour Rainfall in Inches

2.5"

Value = 2

Ref. 1

Distance to Nearest Downslope Surface Water

The Susquehanna River is located approximately 4000 feet east from the point of documented surface contamination at the Conklin landfills.

Ref. 2a (p 23 & Fig. 2) & 6

Value = 2 (Ref. 1)

Physical State of Waste

Benzene and toluene occur commonly as liquids and have been found in a leachate seep in the upper landfill.

Ref. 2a (Table 5)

Value = 3 (Ref. 1)

* * *

3 CONTAINMENT

Containment:

Method(s) of waste or leachate containment evaluated:

Unlined landfills, no leachate diversion systems, inadequate cover.

Ref. 2a (Executive Summary, pp 3-4, Fig. 3 & Appendix A)

Method with highest score:

Unlined landfill, no leachate diversion system, inadequate cover.

Value = 3 (Ref. 1)

QA
1-1-81
001330
JLW

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

mercury
chromium
benzene
toluene

Ref. 2a (Fig. 3, Tables 4 & 5 & p 23)

Compound with highest score:

mercury (toxicity =3; persistence =3)

Ref 10

Value = 18 (Ref. 1)

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

See Groundwater Section.

Basis of estimating and/or computing waste quantity:

The quantity of hazardous material available to the surface water route is not known. However, contaminants were detected in a sample of leachate from the upper landfill; therefore a value of 1 has been assigned to this factor, signifying a quantity of waste greater than 0.

Ref. 2a (Fig. 3 & Tables 4 & 5) & 11

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

The Susquehanna River is used for fishing in the vicinity of the site.

Ref. 9

Value = 2 (Ref. 1)

Is there tidal influence?

N/A

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

N/A

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Over 5 acres of wetlands are located at the site, between the upper and lower landfills. The nearest wetland area is located along the surface water pathway approximately 600 feet from a contaminated leachate seep in the upper landfill.

Ref. 2a (Fig. 1 & 2 & Tables 4 & 5)

Value = 2 (Ref. 1)

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

N/A

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

No surface water intakes are known to exist within three miles downstream of the facility.

Ref. 3

Value = 0 (Ref. 1)

Computation of land area irrigated by above-cited intake(s) and
conversion to population (1.5 people per acre):

N/A

Total population served:

N/A

Name/description of nearest of above water bodies:

N/A

Distance to above-cited intakes, measured in stream miles.

N/A

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

N/A

Date and location of detection of contaminants

No analyses of ambient air were conducted at this site.

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Most incompatible pair of compounds:

001934

Toxicity

Most toxic compound:

Hazardous Waste Quantity

Total quantity of hazardous waste:

Basis of estimating and/or computing waste quantity:

* * *

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Distance to critical habitat of an endangered species, if 1 mile or less:

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register of Historic Places and National Natural Landmarks) within the view of the site?

001936

NOT EVALUATED
FIRE AND EXPLOSION

1 CONTAINMENT

Hazardous substances present:

Type of containment, if applicable:

2 WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

Ignitability

Compound used:

Reactivity

Most reactive compound:

Incompatibility

Most incompatible pair of compounds:

Q4
1-1-11
J. J. Lee
0001307

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

Basis of estimating and/or computing waste quantity:

3 TARGETS

Distance to Nearest Population

Distance to Nearest Building

Distance to Sensitive Environment

Distance to wetlands:

Distance to critical habitat:

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

Population Within 2-Mile Radius

Buildings Within 2-Mile Radius

QA
1-1-11
W. Lee
001333

NOT EVALUATED
DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

2 ACCESSIBILITY

Describe type of barrier(s):

3 CONTAINMENT

Type of containment, if applicable:

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Compound with highest score:

GA
8-1-85
H. J. Lee

5 TARGETS

Population within one-mile radius

Distance to critical habitat (of endangered species)

QA
1-1-85
[Signature]
[Signature]

REFERENCES

If the entire reference is not available for public review in the EPA regional files on this site, indicate where the reference may be found:

Reference Number	Description of the Reference
1	Uncontrolled Hazardous Waste Site Ranking System; A Users Manual. National Oil and Hazardous Substances Contingency Plan, Appendix A (40 CFR 300)(47 FR 31219), July 16, 1982.
2a	Hydrologic Investigation, Proposed Broome County Industrial Park, Conklin, NY. O'Brien & Gere Engineers, Inc., March 1984.
2b	Phase II: Hydrogeologic Investigation, Broome Industrial Park, Conklin, NY. O'Brien & Gere Engineers, Inc., February 1985.
3	Atlas of Eleven Selected Aquifers in New York, USGS Water Resources Investigations Open-File Report 82-553, 1982.
4	Letter from Ray Lupe (NYSDEC) to Melonie Sviatyla (Broome County Health Department), June 6, 1984.
5	DELETED
6	USGS Topographic Map, Binghamton East 7½' Quadrangle, 1968.
7	Site Inspection Report (EPA Form 2070-13), Conklin Landfills.
8	Memorandum from Karen Sudy (EPA) to file, dated July 17, 1985.
9	New York State Fishing Regulations, October 1984.
10	Sax, N. I., Dangerous Properties of Industrial Materials, 4th ed., Van Nostrand Reinhold Co., New York, 1975.
11	Supplemental Instructions for the Hazard Ranking System, EPA internal memorandum dated July 29, 1982.
12	Soil Survey of Broome County, New York, USDA, 1971.
13	Stratified Drift Aquifers in the Susquehanna River Basin, New York, 1982.
14	Telephone conversation record, Tony Mastrangelo (Broome County Health Department) and William Schneider (EPA), July 23, 1985.
15	Telephone conversation record, Don Gay (Binghamton Water and Sewer Department) and Anthony Lee (MITRE Corp.), August 1, 1985.

OK
1-1-11
AJL

RECORD OF COMMUNICATION

☐ OTHER (SPECIFY)

☐ FIELD TRIP ☐ CONFERENCE

File #

TO: Mr. [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

FROM: Mr. [illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible] [illegible]

(Record of item checked above)

DATE 8-1-85

TIME 3:00 PM

SUBJECT

Intermittent Connections exist Between Birmingham Center Supply System & [illegible] System

SUMMARY OF COMMUNICATION

I asked [illegible] whether the Birmingham Center Supply System was connected to the [illegible] System. He told me that the only connection from Birmingham to [illegible] was the railroad yard and that no other connections existed.

I told him that the reason I was checking on this was because the [illegible] investigation report E-92 had received from the Brown County Health Department.

Adler

INFORMATION COPIES

TO: H2S Documentation as a classification reference.

APPENDIX G

Excerpt from Draft Environmental Impact Statement
Obtained from NYSDEC

8. NOISE

A study of existing noise sources and levels in and around the site is currently underway. In general, existing noise sources in the project area are associated with vehicular traffic along Route 7, rail traffic on the D&H rail line, and vehicular traffic across the Susquehanna River on Interstate 81. Overall noise levels in and around the site are low because of its rural and rather undeveloped location.

9. ENDANGERED OR UNIQUE SPECIES

The site contains no endangered plant, animal, or bird species.

10. ABANDONED LANDFILLS *

On a neighboring property which will not be developed as part of the Industrial Park, the Town of Conklin operated two municipal landfills on the site of the proposed Corporate Park (see Figure 7). O'Brien and Gere Engineers, Inc., completed a study of both landfills to determine the existence of or potential for contamination of local groundwater supplies and surface water by landfill leachate. A number of groundwater monitoring wells were installed at strategic locations in and around each landfill as part of the study. The locations of these wells are shown in Figures 9 and 11. The results of chemical analysis of the groundwater samples taken from these wells are given in Tables 7 and 8.

A. Lower Landfill

The lower, or eastern-most, landfill was operated by the Town from 1964 to 1969 and consists of three linear trenches situated adjacent to the D&H railroad. Two secondary trenches (the first approximately 450 feet by 50 feet and the second approximately 750 feet by 100 feet) run perpendicular to the main trench (approximately 950 feet by 50 feet) situated parallel to the rail line. Each trench was excavated from gravel to a depth of about 20 feet, filled, and covered to grade so that the approximate total volume of the lower landfill is 2,900,000 cubic feet.

Preliminary indications are that the lower landfill was filled with municipal solid waste (msw) only. Since the landfill was operated with a minimum of daily on-site supervision, the possibility exists

that some industrial and/or chemical wastes were also deposited there. A thin soil cover was applied on top of the refuse by Town crewmen at the end of each day of operation. The waste was not compacted on a regular basis.

The lower landfill is underlain by highly permeable sand and gravel which promote recharge of leachate to the underlying groundwater. The flow of groundwater in the vicinity of the lower landfill is in an easterly direction towards Route 7 and the Susquehanna River at an estimated rate of three to 30 ft. per day (1,100 to 11,000 ft. per yr.).

Leachate emanates periodically from the landfill and is particularly noticeable in wetland BE-6 during spring and fall flooding. O'Brien and Gere Engineers, Inc., estimated that up to 900,000 gallons of lower landfill leachate per year may be generated by precipitation's infiltrating the landfill surface. Between 15,000 to 150,000 gallons of leachate may be generated by groundwater flowing through the base of the landfill. Because of the high permeability of the underlying sand and gravel, this leachate will tend to recharge the groundwater rather than be discharged at the surface as landfill seeps.

The leachate of the lower landfill contains relatively high concentrations of copper, iron, manganese, and mercury which are common for municipal landfill leachate (see Table 9). Although trace levels of toluene, methylene, chloride, and 1,2-dichloropropene were found in the leachate samples from Wells 13 and 15, the low levels do not provide conclusive evidence that industrial waste is present in the lower landfill.

Seventeen homeowner wells located on Route 7 downgradient of the lower landfill were sampled as part of the O'Brien and Gere Engineers, Inc., study. Chemical analysis of the samples taken from these wells revealed that NYS DEC Class GA groundwater standards were exceeded for arsenic in three wells, manganese in seven wells, and iron in

five wells. The arsenic level in one of the homeowner wells exceeded the New York State Department of Health (NYS DOH) drinking standard of 0.05 mg/l. As a result, the homeowner was advised by the Broome County Health Department to stop drinking his well water. No other residents were so advised. Although the iron and manganese levels may be attributed to the lower landfill, the source of the arsenic levels has not been clearly identified.

Methane gas monitoring of the lower landfill revealed that at the present time, methane gas generation does not pose any adverse environmental impacts. The landfill is, however, partially buried below the water table where further decomposition of refuse can occur which may result in the future generation of methane gas. Because the lower landfill has been inactive for over 14 years, most of the landfill settlement has occurred. Some additional settlement can be expected since the water table is above the base of the landfill.

From the findings described above, O'Brien and Gere Engineers, Inc., recommended that a low permeability clay cap or cover be installed over the lower landfill to minimize the amount of leachate generated by rainfall infiltration. The consultant also recommended that the homeowner wells also along Route 7 be replaced. These proposed mitigation measures are discussed more fully in Chapter V.

B. Upper Landfill

The upper, or western-most, landfill was operated by the Town from 1969 to 1975 as a replacement for the lower landfill. Operations ceased in 1975 upon a closure order issued by NYS DEC. At that time, the NYS DEC ordered that all embankments in the landfill be stabilized and that the entire area be covered with at least three feet of soil and be seeded with grasses.

A large portion of the waste deposited in the upper landfill was placed in six unlined cells and organized into three rows of two cells each. The cells were excavated through glacial till, clay, siltstone,

and shale to a depth of about 18 feet. The waste was compacted and covered with a thin soil layer on a daily basis. In order to prevent surface drainage and groundwater seepage from entering the landfill from the hillside above, a trench was dug to a depth of about 20 feet around the western, northern, and eastern sides of the landfill. Water collected in the trench was directed to a tributary of Carlin Creek located immediately downgradient of the upper landfill. During the later stages of landfill operations, the trench was filled with waste and covered with soil.

After the six original cells were filled, waste was piled on top of each cell, compacted, and covered daily with soil obtained from an adjacent hillside. Eventually, enough waste was piled on top of the cells so that after compacting and final soil cover, a berm was created that stood about 12 feet above the original contour.

Some waste was also deposited in the hillside excavation and covered. The entire upper landfill area, including the cell and trench system to the north and the excavated hillside to the south, measures about 500 feet by 550 feet. Assuming an average depth of 30 feet, the total filled volume of the upper landfill is approximately 6,250,000 cubic feet.

Accurate records are not available for the type of waste material deposited in the upper landfill. Most indications are that the majority of waste in the landfill is MSW although there are unconfirmed reports that industrial and chemical waste was deposited there periodically. Several leachate surface flows emanate from the bermed portion of the landfill. During periods of heavy rain, the leachate follows a channel downslope to the Carlin Creek tributary.

The upper landfill is underlain by low permeability glacial till. Groundwater flowing beneath the landfill may be discharged locally into Carlin Creek. However, most of the groundwater flows east toward the Susquehanna River at a rate of about 8×10^{-5} ft./day (0.03 ft./yr.).

Chemical analysis performed by O'Brien and Gere Engineers, Inc., of leachate emanating from the sides of the upper landfill uncovered relatively high concentrations of sulfate chloride, chromium, iron, manganese, mercury, and zinc in excess of NYS DEC Class GA groundwater standards (see Table 13). These results are not uncommon for municipal landfill leachate. Also present in the leachate were relatively high concentrations of organic compounds such as benzene, toluene, methylene chloride, trichloroethylene, and vinyl chloride, indicating that some industrial waste may be present in the landfill. Fortunately, the low permeability of the high silt and clay content of the underlying soils are favorable for the attenuation of the landfill leachate.

Groundwater sampled from Wells 2, 14, and 16 located within or immediately below the upper landfill contains concentrations of arsenic, cadmium, manganese, mercury, benzene, and vinyl chloride in excess of NYS DEC Class GA groundwater standards. In addition, organic concentrations of methylene chloride, toluene, 1,1-dichloroethane, and 1,2-dichloropropene were detected at levels exceeding NYS DOH drinking water standards in Wells 3, 4, and 11 located immediately downgradient of the upper landfill (see Table 7). Because of the low groundwater flow rates (0.03 ft./yr.) and high silt and clay content of the glacial till, groundwater quality in the immediate vicinity of the upper landfill should not have a significant impact on downgradient groundwater or surface water supplies.

Up to 1.8 million gallons per year of leachate may be generated at the upper landfill through precipitation's infiltrating the landfill surface. In contrast, only 1,000 gallons per year of leachate may be generated there by groundwater's flowing through the base of the refuse. Because of the low permeability of the underlying glacial till, this leachate may tend to accumulate in the landfill and overflow at the lowest point as a landfill seep. These seeps may be transported as surface run-off and have a potential impact on water quality in Carlin Creek.

Methane gas monitoring of the upper landfill indicated that methane gas concentrations were below combustible levels. As a result, methane gas generation does not pose any adverse environmental impacts at the present time. Future gas generation can be anticipated because the refuse is partially buried below the water table. Most of the settlement in the upper landfill has probably already occurred because of the fact that the landfill has been inactive for over eight years. Because of the high water table, however, some additional decomposition and settlement of the upper landfill can be expected.

From the findings given above, O'Brien and Gere Engineers, Inc., recommended that a low permeability clay cap be installed over the upper landfill to reduce leachate generation. Mitigation of the upper landfill is discussed more fully in Chapter V. Well #1, located upgradient of the upper landfill, was sampled to determine background groundwater quality. Overall, the sample was generally of good quality and indicative of uncontaminated groundwater flowing beneath the site (see Tables 8 and 9).

C. Determination by New York State DEC *

Based upon a review of the March, 1984, and February, 1985, hydrogeological reports, the New York State Department of Environmental Conservation (DEC) has determined that the Conklin landfills pose a threat to the environment and should be reclassified to a Class (2) site. A Class (2) site requires the completion of a Remedial Investigation and Feasibility Study (RI/FS) to delineate the appropriate course of remediation.

In this regard, although the landfill area will be separated from the Park for development purposes and will be viewed as a neighboring property, a remediation study, to be funded by Broome County, will be carried out under a NYSDEC Order on Consent by the owners of the landfill, either the Town of Conklin or Broome County. Upon its completion, the appropriate remediation action will be identified to the appropriate parties to the agreement.