ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE II INVESTIGATION

Old Halfmoon Landfill Site No. 546013

Town of Halfmoon Saratoga County

DATE: January 1993

Report Appendices A-C



Prepared for:
New York State
Department of
Environmental Conservation

50 Wolf Road, Albany, New York 12233 Thomas C. Jorling, Commissioner

> Division of Hazarous Waste Remediation Michael J. O'Toole, Jr., P.E., *Director*

By: Lawler, Matusky & Skelly Engineers

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK PHASE II INVESTIGATIONS

Old Halfmoon Landfill Site Town of Halfmoon, Saratoga County NYSDEC I.D. No. 546013

Report Appendices A-C

Prepared for:

DIVISION OF HAZARDOUS WASTE REMEDIATION
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 Wolf Road
Albany, New York 12233-7010

Prepared by:

LAWLER, MATUSKY & SKELLY ENGINEERS

Environmental Science & Engineering Consultants One Blue Hill Plaza Pearl River, New York 10965

January 1993

APPENDIX A

1991 AND 1992 TEST TRENCH LOGS

REFERENCE 6

| | 1 | 1 | |
|------|----|---|--|
| PAGE | OF | | |

LAWLER, MATUSKY & SKELLY ENGINEERS CREW CHIEF REPORT

| | CREW CHIEF: JM Guzewich | 5. JOB NO: 576-044 |
|--------------|--|--|
| ÷ | CREW MEMBER(S): | 6. PROJ. MGR: Ed Markish |
| | SURVEY: Old Halfmoon Ldf1 | 7. VEHICLE USED: Cole Van |
| | Sert 420/Sed. / Leachate | 8. BOAT(S) USED: 12' Jon Boat |
| | Jon 1907 Star. / Leadrale | |
| | CREW CHIEF REPORT (COMPLETE AFTER SUI | |
| | 1. SURVEY START/END DATE | 12.3 / 12.6 |
| | 2. SURVEY START/END TIME | ~ 0600 / Z200 |
| | 3. DESCRIBE DETAILS IN SECTION C: | 3 |
| | (a) SAMPLING GEAR WORKING PROPERLY | \bigcirc |
| | (b) METERS FIELD CALIBRATED: (1) WAT | TER QUALITY |
| | | R MONITOR (HNU, OVA, CGI) |
| | (FIELD CALIB. MUST BE ATTACHED TO O | RIG. C.C. REPORT & SENT TO OA/OC) |
| | (c) WAS DOWNTIME INCURRED? #HRS? | Y |
| | (d) ANY INCIDENTS, ACCIDENTS, PERTI | NENT OBSER. |
| - | 4. WERE FOLLOWING REPORTS COMPLETED 8 | SIIBMITTED? |
| | (a) WEATHER CONDITIONS LISTED ON FI | |
| | (b) RADIO LOGS | THE DATA SHIELD |
| | (C) EQUIPMENT USAGE | (V) |
| | (d) BOAT/VEHICLE)LOGS | |
| | 5. BOAT USAGE | .CY |
| | | Edward Company |
| | (a) ENGINE HOURS | 10 |
| | (b) RADIO LOGS | TO |
| | (c) BOAT LOCATION | Mohauk River |
| (| 6. CHAIN OF CUSTODY COMPLETED. SAMPLE | ES SIGNED OVER. |
| | - fittering of PCB samples (2 | hid not hold a charge well e all |
| - | to sample locations while Ser | th was fiftering |
| - | - We had some problems (sending them to the wrong | W Fed-X switching coolers |
| = | | |
| _ | | |
| _ | | |
| _ | | |
| - - E: | SEND ORIGINAL CREW CHIEF REPORT TO Q SEND YELLOW COPY TO WAREHOUSE. RET | A/QC WITHIN 5 DAYS OF SURVEY COMPLETIC |

USE ADDITIONAL SHEET(S), IF NECESSARY.

Date: 12.6.91 Crew: JG SP Site: Old Halfmoon Landfill

LAWLER, MATUSKY & SKELLY ENGINEERS FIELD DATA SHEET FOR SURFACE WATER/LEACHATE

PH No: Orion # 4776 Therm. No: 914 Concl Velocity Meter No. DEC DRT 15C

| =560 / DEC =560 / Hydec | teter No. | nd Velocit y M | Co | | 044 | No: 576- | Job 1 | | | schate | Sedi Le | : SurfH20/ | Operation |
|---|--------------|---------------------------|--------------|-----------------------------------|----------|----------|-------|------|-------|--------|----------------|-----------------|-----------|
| | | BOTTLES | SAMPLE | | FLOW | * TURB. | COND. | | ТЕМР | TIME | TOTAL DEPTH | SAMPLE DEPTH | STATION |
| COMMENTS | BOT. Nos. | SAMPLE PARAMETERS | BOT. Nos. | SAMPLE PARAMETERS | MEAS. | (NTUs) | cm) | pН | (°C) | (ННММ) | (ft) | (ft) | No. |
| tion worked by | 01 | Cyonide | 02 | VOCS TILL+10 | ~~ | | | | | | | | |
| a location marky | 01 | COD | 01 | BNAS TEL+20 | 12/1000 | 77 | 007 | 6.8/ | , , , | 0710 | | | OHL- |
| + (99) where ! | 01 | TSS, TOS, pH, Sol | 01 | BE IUX PESTIMETUA | //// | 10 | 992 | 14.0 | 6.5° | 0410 | | | 2 |
| is flow into the bar script has slight . Leachete ordor , | 1 | Reac, Ignit, Corr | 01 | TAL metals EPTOX metals | | | | | | | | | |
| lected e base | 01 | Cyanide | 02 | VOCS TEL+10 | | | | | | | | | OHL- |
| r side of road | 01 | COD | 01 | BNAS TEL+20 | 128 46 | | | 6.61 | ٥ | Sym - | | | OIIC |
| 0 5/3 tube set- | 01 | TSS TOS p4 SpCond | 01 | TCL PEST/PCBS EPTOX PEST/Herbs | 128 46 | 30 | 815 | 6.7 | 4.9. | 0830 | _ | 877 | 5 |
| reable actor | 1 | Recy Ignit, Corr | 01 | TAL metals EPTOX metals | | | | | | | | | |
| | 02 | Cyanide | 04 | VOC TELTIO | | | | 1 | , | | | 1417.6 | OHL- |
| | | , | 02 | BNAS TCL+20 | | | | | | | | 1 | 5 |
| | | | 02 | Pest/PCBs TCL | V | | V | | 1 | 1 | V | V | M5 & |
| V | | | 02 | Metals TAL | | Y | | | | V | | | MSD |
| octob off shore | 01 | Cyanide | 02 | VOCS TEL | | | | | | | | | OHSW- |
| ough water und | 01/01 | COD/TSS, TOS | 01 | BNAS TEL+20 | | | 334 | | 0.6 | 0915 | 0.5 | Surf | , |
| to collect son | 01 | LL PCBs (Total) | 01 | Pest/ACBS TCL | | 12 | | 7.7 | 0.6 | 0110 | 0,7 | Sula | 6 |
| - OHL-6 | 01 | LL PCBs (Diss.) | 01 | TAL metals | | | | | | | | | |
| c (5'out) arrogs | 01 | Cycnide | | VOCS TUL+10 | | | | | | | | | OHSW- |
| of from red h | 01/01 | COD TSS TDS | | BNAS TEL+20 | v | ^0 | 017- | | 0.30 | 1025 | 0.5 | Surf | JH 3 |
| | | LL PCBs (Total) | | Pest/PCBs TCL | | 09 | 317 | 8.0 | 0.3 | | | 201. | 7 |
| | 01 | LL PCBs (Diss.) | | TAL metals | | | | | | | | | |

* These samples were run 12.7/1930 due to meter problems (cold weather)
on 12.6.91 (Meter indicated lows battery shortly John X

Date: 12.6.91
Crew: JG SP
Sue: Old Halfmoon Landfill

Operation: Souf 4:0/5.0/ Leach te

LAWLER, MATUSKY & SKELLY ENGINEERS FIELD DATA SHEET FOR SURFACE WATER/LEACHATE

Job No: 576-044

pH No: Dec + 4776 | Dec Hydac
Therm. No: 994 | 894
Turbidity Meter No: DEC DRT 15 C
Velocity Meter No: DEC = 500 DEC

| STATION | SAMPLE DEPTH | TOTAL DEPTH | TIME | TEMP | | COND. | TURB. | FLOW | | SAMPLE | BOTTLES | | |
|---------|-----------------|----------------|--------|-------|-------|----------------|--------|-----------|---|--------------|---|--------------|---------------------------------------|
| No. | (ft) | (0) | (ННММ) | (°C) | рН | cm) | (aUTM) | MEAS. | SAMPLE PARAMETERS | BOT. Nos. | SAMPLE PARAMETERS | BOT. Nos. | COMMENT5 |
| A11 / . | | | y | | : === | | | 0.7 | VOCS Tectio | 02 | Cyanide | 01 | Collected where |
| OHL- | | | 1135 | 3.60 | 7.2 | 1119 | 84 | 12/ | BNAS Tecto | 01 | 000 | 01 | runs into river |
| 6 | | | 1150 |] | 1, | 1/1/ | 09 | 114 sec | TCL PEST PCBS EPTOX PEST/Herbs TAL metals | 01 | TSS, TOS, OH, SpC | DI | No noticeable ados |
| | | | | | | | | | EPTOX metals | 01 | Reac, Ignit, Corr | 4 | |
| | | | | | | Sp Cond 875 | | | VOCS Text 10 | 02 | Cyanide | 01 | Collected where |
| | | | | 11110 | | Urcorr | | 19 | BNAS TUL+20 | 01 | COD | 01 | runs (130 River) |
| OHL | | - | 1230 | 14.7. | 7.1 | 1 | 30 | 345ec | TIL PEST/PCBS EPTOX PEST/Herbs | 01_ | TSS TDS AH SOC | 01 | clear rendure odor |
| 8 | 1 | | | | | 501/530 | | | TAL metals EPTOX metals | 01 | Reac, I quit, Corr. | | (location near 57 too |
| | | | | | | | | | VOCS Text10 | 02 | Cyavide | 01 | collected off shore where there was a |
| OHSW- | | | | 0 | | | | | BNAS Text 20 | | COD/TSS, TDS pH Sp Cond LL PCBs (Total) | 01/01 | prosi in ice (~50'0) |
| 8 | Surt. | 0.5' | 1220 | 0.4 | 8.0 | 431 | 06 | | Pest/PCBs TCL | | LL PCBs (Total) LL PCBs (Total) mg/s | 01 | Location is up river |
| | | | | | | | | | Metals TAL | 01 | LL PCBs (Diss.) LL PCBs (Diss.) | 01 | from Cable Crossing ? |
| | | | | | | | | * | VOCS TECTIO | | Cyanide | 01 | Collected from colo |
| OHL-7 | | | | 0 | | | | 100/ | BNAS TLL+20 | 01 | CoD | 01 | into river, Rather |
| | | - | 1445 | 7.4/ | 6.9 | 329 | 31 | ~ 19ª/ | TCL Pest/ PCBs EPTOX Pest/Herbs | | TSS, TOS, pH, SpC | 01 | clear of leciliate od |
| | | | | 7.4 | | | | 16sec | TAL metals EPTOX metals | 01 | Reac, Ignit, Corr | 1 | |
| | | | | | | | | V | | | J. J | | |
| | | | | | | | | * This is | · · | | | | |
| | | | | | | | | rough to | | | | | |
| | | | | | | | | water flo | wing t c a good | pace | | | |

* See note on page 1

John Duzeil 12.7.91

10+1

LAWLER, MATUSKY & SKELLY ENGINEERS FIELD DATA SHEET FOR SOIL/SEDIMENT SAMPLES Job No: 576-044

ce: 12.6.91

ew: JG SP te: Old Helf moon Ldf1 Oper: Surf H20/Secl/Leachate
Thermometer No:

| | | | | | | | | SAMPLE | BOTTLES | | |
|----|------|------------------------|--------------|---|----------------------|-----------------|---|---------------|-------------------|------|---|
| • | TIME | SMPL DPTH | METHOD | TEXT. | CLR. | OLUR | SAMPLE PARAMETERS | BOT. | SAMPLE PARAMETERS | BOT. | COMMENTS |
| D- | 0935 | D-3" | 5/5 Span | creamy smooth silty mud wlater of wlater of | Brn W/some B/K | Noticed | NOCS TEL+10 BNASTEL+10, PESTIPEBS TEL TAL Metals, Cyanide | 0Z 01 ¥ | | | where there is a consumer to collect su |
| >- | 1050 | 0-3" | 5/5 Spoon | fa-ce sold sold sould sold sold sold sold sold sold sold so | Bru Gray | None Noticed | VOCS TEC+10 | 50 | | | Collected just off shore (ns') across from red house |
| D | 1210 | 0-3 | 5/5 5,000 | med-fr some org, material | Bru+ Grey | Noticed | BNA'S TEC+20, Pest/PCB, TEC TAL Metals, Cyanide | 4 | * | | (ollected off chore (n50') where there was enough water under jee to collect sw sample Station is up river from |
|) | 1250 | 50.E 0450-7 1050 | | | | > | Metals TAL, Cyaniole. | 4 vials | * | | "Calle Crossing" sigh - * we did not have enough sed. Jars so me used UOA vials. We returned |
| | | | - | | | | | | | | to collect BN4's etc samples |
| | | | | | | | | | | | |
| | | | | | | | | | | | - |
| | | | | | | | | | | | |

* We were not supplied with enough soil jars for BNAs etc so we used 4 40ml vials for each of the last 2 stations

John Duyunt 12.6.91 Date: 12 11 Crew: JG St

Site: 21/1 Hateman Land GI

LAWLER, MATUSKY & SKELLY ENGINEERS FIELD DATA SHEET FOR SURFACE WATER/LEACHATE

Job No: 576-044

pH No: DEC Orion 4776 / DEC Hyclec Therm. No: 894

Turbidity Meter No: DEC DRT-15C DEC Cond. Velocity Meter No: DEC TEC#560/ Had

| DEC TIC#560/ Hydro | eter No | nd. Velocity M | Co | | -044 | 10: <u>576</u> | Job 1 | | | ate. | cd., Leach | Surf 420/5 | |
|--|--------------|----------------------|--------------|----------------------|-------|----------------|---------------|------|------|--------|------------|-----------------|----------------|
| | | BOTTLES | SAMPLE | 5 | FLOW | TURB. | COND. | | TEMP | TIME | TOTAL | SAMPLE DEPTH | STATION |
| COMMENTS | BOT. Nos. | SAMPLE PARAMETERS | BOT. Nos. | SAMPLE PARAMETERS | MEAS. | (NTUs) | cm) | рН | (°C) | (ННММ) | (fi) | (ft) | No. |
| FB Performed | 01/01 | COD/Cyanid | OZ | VOCS TULTIC | | | | | | | | | - 11 |
| on Bailer # 47 before samplif | 01 | TSS TOS pH =p(| 01 | BNA. TCCT. | | | | | | 0940 | | | Field Blank |
| OHSW-12 | 01 | LL PCB: Total | 01 | Pest/FC3s TCL | | | | | | | | | ylanı |
| | 01 | LL FCBs Diss. | 01 | Metals TAL | | | | | | | | | |
| sample collect | 01/01 | COD/Cyanicle | 02 | VOCS TCL+10 | | | | | | | | | Mia |
| with Baller | 01 | TSS, TOS, pH, SpC. | 01 | BNAS TLL+20 | | | | / | 0.80 | 1000 | 1.5' | mid. | OHSW- |
| Scamply Million | 01 | LL PCB, Total | 01 | Pest/PCB: Tel | | 06 | 325 | 1.4/ | | | 1 | 7.77 | 12 |
| Terres (| 01 | LL PCBs Diss. | 01 | metals TAL | _/0 | | | 17.9 | | | | | |
| 150 from shore | 01/01 | COD/Cyanide | 02 | VOCS Tect10 | | | | | | | | |)- |
| (0HSW-Z | 01 | TSS, TOS, pH, SpC | 01 | BUAS TELTZO | | | 0110 | | 1,40 | 1105 | 2/ | . 0 | OHSW- |
| samples collected | 01 | LL PCBs Total | 01 | Pest/ALBS TEL | | 05 | 316 | 7.5 | , | 1105 | 2.0' | mid | 11 |
| sample bottles | 01 | LL PCBs Diss | 01 | Metals TAL | | | | | | | | | |
| 50 from shore | 01/01 | COD/ examide | OZ | voes Tectio | | | | | | | | | OHSW- |
| (OHSW-2) | | TSS, TOS, pH SpC | 01 | BNA: TCL+20 | | | 2.17 | | 1.2° | 1100 - | 2.0 | mid | 10 |
| San de collecte | | LLPCBs Total | 01 | Pest/PCBs TCL | | 06 | 342 | 7.3 | 100 | 1130 | ナル | 1100 | , , |
| sample collecter directly into both | 01 | LL PCBs Diss | 01 | Metals TAL | | | | | | | | | |
| Sample collected just off bank immed. | 01/01 | COD/Cycnide | 07 | VOCS TELTIO | | | SPCOUD 571 | | | | | | OHSW- |
| Jown river from DHH | 01 | TSS, TDS, pH SpC | 01 | BUAS TEL+20 | | 11 | Unter | 1 | 140 | 1450 | 0.5 | Surf | |
| Slight Leadite-tyl | 01 | LL PCBs Total | 01 | Pest/PCBs TCL | | 16 | 317/344 | 7.1 | L: 1 | | | | 2 |
| 600 | 01 | LL RBS Diss | 01 | metals TAL | | | e 2:5°C | | - | | | | |

Joi-M Denjewiel 12.4.91

60t C

Date: 12,4,91 Crew: JG SP LAWLER, MATUSKY & SKELLY ENGINEERS
FIELD DATA SHEET FOR SURFACE WATER/LE CHATE

Site: Old Halfmoon LOCI

Operation: Sin H20/ Leachete/Ses

Job No: 576-044

pH No: DEC Or on 4776

Therm. No: 894

Turbidity Meter No: DEC D RT-152

Velocity Meter No: DEC TLC #580

| Operation: | Surt 4201 | Leochde / Se | es. | | | 100.1 | NO: 5 76 | 1.01.1 | | | retocity in | C1C1 140 | " |
|---------------|-----------------|----------------|--------|-------|-----|-------|----------|-----------|------------------------------|--------------|----------------------|--------------|--|
| STATION | SAMPLE DEPTH | TOTAL DEPTH | TIME | TEMP | | COND. | TURB. | FLOW | S | AMPLE | BOTTLES | | |
| No. | (1) | (ft) | (ННММ) | (°C) | рН | cm) | (NTUs) | MEAS. | SAMPLE PARAMETERS | BOT. Nos. | SAMPLE PARAMETERS | BOT. Nos. | COMMENTS |
| | | | | | | | | | VOC: Tec+10 | 02 | Cyanide | 01 | Leachate-type adie |
| OHL- | | | 1535 | - 0 O | 69 | 2011 | | 12/40 500 | BNAS TELTZO TEL PET/PEBS | 01 | CoD | 01 | sampled directly into bottles through s/s tube set-up (see photos) |
| 4 | | _ | 1535 | 8.0 | | 809 | 12 | , , , | EPTOX Pest/Herbs | 01 | TSS, TOS, pH SpC | 01 | 5/5 table set-up |
| | | | | 8.0 | | | | | TALMETALS EPTEX Metals | 01 | Iguit, Recc, Corr. | 4 | |
| nHL- | | | | 00 | | | | 101 | VOCS TELTIO | 02 | Cyanide | 01 | Slish Leachate type odor |
| 3 | ==== | _ | 1655 | 10.9 | 16 | 1364 | nx | 1250 | BNAS TCL+20 TCL Pest/PCBs | 01 | COD | 01 | sampled directly |
|) | | | 10- | | 6.0 | 1001 | 00 | 1912 | EPTOX Pest/Herbs | | TSS, TDS, pH SpC | | sampled directly into bottles through s/s toke set-up |
| | | | | | | | | | EPTOX metals | 01 | Reac, Ignit, Corr | 4 | |
| | | | | | | | | | VOCS Tection | 02 | | | * both vials |
| Trip | | | | | | | | | | | | | have small bubbles |
| Trip Blank | _ | | | _ | - | | | | | | | | |
| Dio | | | | | | | | | | _ | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 1 | | | | | | | | | us a stantillaria | | | | |
| | | | | | | | | | | | | | |
| - ame | | | | | | | | | | Lenson! | | | |

John Duyeurel 12.4.91

10+1

ate: 12-4-91

ite: Parlmoon lend(ill

LAWLER, MATUSKY & SKELLY ENGINEERS FIELD DATA SHEET FOR SOIL SEDIMENT SAMPLES JOD NO: 576-044

Oper: Schiment Common On Thermometer No: 894

| | | | | | | | SAMPLE E | CTTLES . | | |
|------|------------------|---------------------------------|--|---|----------------|---|---------------|-------------------|------|---|
| TIME | SMPL DPTH | METHOD | TEXT. | CLR. | ODOR | SAMPLE PARAMETERS | BOT. | SAMPLE PARAMETERS | BOT. | COMMENTS |
| 025 | 0-3" | METHOD S/S Par S/Syvin | Creamy Sincook Work | Dark Brown | NONE NOTICE | TCL+20 BNA, TCL, PEST, PEBS TAL, METALS, CN | V | | | Sample expected BOOK Transport (OHSD-Z) |
| 120 | 0-31 | 11 | 11 | " | : (| TELTIONDAS TELTIO BNATCL POS POBS, TALMERA EN | 1 201 | | | Sample collected 15041 Counthors 0450-2 Layer of VES. Matte |
| 140 | Q-3 ^M | 1/ | 11 | 1. | | TELTIONOAS TELTZO BUATEL HEST PEST YALMETEL CN | 20161S | | | sample worded so H. Crombing |
| 520 | 0-3" | 5/5 5000 | fr-med Sand w/ Some silt of sm-stones | It-med brn H some rec oronge statning | Done | Tectio VOAS TECTIO BNAS, TEC RESTIPEBS TALMETELS, Cyanide | 0Z 01 V | | | Sample collected just off bank immediately downriver from OHL-4 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | , | | | | | | |

John Genjewiel 12.4.91

Date: 12.5.91

LAWLER, MATUSKY & SKELLY ENGINEERS
FIELD DATA SHEET FOR SURFACE WATER/LEACHATE

pH No: Orion + 4776 / Hydec Therm. No: 994/

Crew: JG SP.
Site: 51d Halfman Landfill
Operation Sief the Sed Landete

Job No: 576-044

Turbidity Meter No: DEC DRT 15-C Cond Velocity Meter No: DEC TIC# 560

| DECTLE SEC | eter No | nd Velocity M | ا حت | | -04 <u>4</u> | 10: <u>576</u> | 100.0 | | | ixte. | Sed, Leach | Sirt 420/ | Operation |
|--|--------------|----------------------|--------------|------------------------------------|--------------|----------------|-------|------|-------|--------|----------------|-----------------|-----------|
| | | BOTTLES | AMPLE I | S | FLOW | TURB. | COND. | | TEMP | TIME | TOTAL DEPTH | SAMPLE DEPTH | STATION |
| COMMENTS | BOT. Nos. | SAMPLE PARAMETERS | BOT. Nos. | SAMPLE PARAMETERS | MEAS. | (NTUs) | cm) | pН | (°C) | (ННММ) | (ft) | (f) | No. |
| Sample collected from area alon | 01/01 | Cyanide/COD | 02 | VOC'S Tectio | | | | | | | | | |
| bonk where woter | 01 | TSSTUS PH SOC | 01 | BNAS TLL+20 | | | 21/2 | | 1.80 | 0830 | 1.0 | Surf. | OHSW- |
| that there may be | 01 | LLPCBs Total | 01 | Pest/PCBs TCC | | 15 | 343 | 7,5 | 1,0 | 005 | | | 1 |
| inflow from base of bank. There is no | 01 | LL PCBs Diss | 01 | metals TAL | | | | | | | | | |
| but the sediment | 02 | Cyanide | 04 | VOCS Tectio | | | | | | | | | OHSW- |
| here appears light to | | | OZ | BNAS Terizo | | | | | | | | | 1 |
| surrounding sedine | | | 02 | Pesi/ P.Bs Tel | _ | _ | = | - | -: | V | V | ₩ | MS/MSD |
| | | | 02 | Mital. TAL | | | | | | | | | |
| of cottails down | 01 | Cyanide | 02 | VOCS TLL+10 | | | | | | | | | |
| infront of clam Steam Hase | 01 | COD | 01 | BWAS TUL+20 | 1/2454 | ** | 1.110 | | | | | | OHL- |
| | 01 | TSS, TOS, pH SpC | 01 | Pest IPCBs TCL EPTOX Pest/Herbs | 12454 | 160 | 1460 | 6.9 | 11.60 | 1145 | . = | - | 1 |
| Leachete-type od bacteria-type staining Collected sample my-type | | | 01 | TAL metals EPTOX metals | | | | | | | | | |
| Sample collected | 01/01 | Cyanide/coo | 02 | vocs 7 cutio | | | | | | | | | |
| upriver from R+87 | 01 | TSS, TOS, of SpC | 01 | BNAS Tectro | | | | | . 0 | | 1.0' | Suf. | OHSW- |
| Samples collected directly into jers | 01 | LL PCBs Total | 01 | Pest/ACBs TCL | - | 06 | 293 | 8.0/ | 2.4 | 1035 | | 30.1. | 9 |
| | 01 | LL PCBs Diss | 01 | Metals TAL | | | | 18.1 | | | | | |
| Cut hole in ice | 01 | LLPCBS Total MASS | 07 | VOCS Tectio | | | | | | | | | |
| to collect somples | NI. | LL PCBs Dies | 01 | BNAS TILL+20 | | | | | | | , | , | DHSW- |
| C- 1-0 - 75-30' | 01/01 | Cyanide/coo | 01 | Pest/PCBs TCL | | 35 | 635 | 7.1 | 1.80 | 1300 | 0.5 | Surf | 5 |
| off shore where there was sufficient water | 01 | TSS, TOS, pH SpC | 01 | Metal: TAL | | |) | | | | | | |

* Due to temp conditions we decided to run turbidities a hotel e end of day, ** OHL-I was rather clear when collected but appears to have oxidized + turned light tan up some precipitant

John Duynil 12.5.91

pH No: DEC prion # 4776 / DEC AL Date: 12.5.91 LAWLER, MATUSKY & SKELLY ENGINEERS Crew: JG SP Therm. No: #994/894 FIELD DATA SHEET FOR SURFACE WATER/LEACHATE Site old Halfmon Ldfl Turbidity Meter No: DEC DRT 15C Operation: Suf 4,0/ sed / Leech Le Cond Veteriny Meter No. DEC TLC \$560/ Hydas Job No: 576-044 SAMPLE TOTAL COND. SAMPLE BOTTLES STATION DEPTH DEPTH TIME TEMP (umhos/ TURB. FLOW No. (11) (ft) (HHMM) (°C) pH (NTUs) MEAS. cm) SAMPLE BOT. SAMPLE BOT. COMMENTS PAR METERS PARAMETERS Nos. Nos. sample collected from area Cyanide /COD VOCS TELTIO where educat rons under road into "bay". There is OHSW- Surf 0.5' 1420 2,2° 7.2 525 BNAS ELTED TSS, TOS, plt, SpC. a lot of orange staining in this area. Samples Pest/pess Tel LL PCBs Total 01 collected of a tofon dip bucket Metals TAL LL PCBs Diss. LL PCBo Total
LLPCBS Total MS/MSD Sample collected OHSW-VOCS TILLTIO just off bank 521 LL PCBs Diss 01 LL PCBs Diss ms/ms 0 01 1600 1.50 7.1 BNAS TLL+20 along area accross from "No Dumping" sign . It Cyanide / COD Pest/ACBs Til was collected where water was not freezing Metals T.L. TSS TOS pH SpCond There is no orange staining In this area, Somo collected w/ teflon dip bucket * Note: Dan Eaton of DEC collected PCB samples from all surface water sample locations to play He also collected a Sample from OHSW-Z which we sampled yesterday

John Duzemil 12.5.91

Date: 12:5:91 Drew: JG SP Site: Old Halfman Londfill

IAWLER, MATUSKY & SKELLY ENGINEERS FIELD DATA SHEET FOR SOIL/SEDIMENT SAMPLES Job No: 576-044

Oper: surf Hzo/sed./Lead-te
Thermometer No:

| | | | | | | | S | AMPLE | BOTTLES | | |
|----------------|------|--------------|---------------|--|----------------------------------|--------------|--|-------|--|------|---|
| TA. | TIME | SMPL DPTH | METHOD | TEXT. | CLR. | ODOR | SAMPLE PARAMETERS | BOT. | SAMPLE PARAMETERS | BOT. | COMMENTS |
| HSD' | 1015 | 0-3" | 5/5 Spoon | med, for sand + sitt ul small rocks + cobbles | Light | None | TCL+10 VOCS BUAS TLL+20 PEST/PEBS TEL TAL Metals, Cyanida | 07. | | | Collected c edge of bank where water not freezing from inflow from base of bank |
| HSD- 5/1450 | 1 | | 1 | | 1 | 1 | Teltio VOC3 MS BNASTUTZO PEST/ABSTUL TAL Metals, Cyanida V | 02 | BNASTELT 20 1 POST/PLBSTCL TAL MUTALS Cyanide V | 07 | |
| 15D- 9 | 1110 | 0-2" | 5/5 Spoon. | Creamy Smooth fine sitt (CE-fn sand | Brn Dundurne | None ath) | Tectio vocs BNASTECTED, POST/RES TEC TAL Metals, Cyanide | 02 | | | Collected upriver from R+87 bridges |
| 15D- | 1325 | 0-3" | 5/5 Ladle | Creemy Smooth Alot of Org Matter (10 | Drk Brn- Bleck wes etc) | None | Tectio vocs BNAS Tecteo Pest/ACBS Tec TAL mutals, Cyanicle | 07 | | | Cut hole in ice + collecter sample through ice |
| SD- | 1435 | 0-3" | 5/5 Laclle | Fn-Cs soud w/ some silt, small rocks aronganic material | Brn | None | TCL+10 UOCS BNAS TCL+20 PEST/ACBS TCL TAL Metals, Cyanide | 07 | | | sampled from area next to educat thetrus into bay |
| 15D- 3 | 1635 | 0-3" | 5/5 Spoon | Silty muck of a lot of organic material | BIK | None | TELHO VOCS | 07 | | | Sampled) 5'off bank in area where Hater is not freezing |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

John Duyenrel 12.5.91

REFERENCE 8

TEST PIT AND PERC TEST LOG DATE STARTED 49/22/92 TIME 4004 JOB No. 576-067 TEST PIT No. 18 DATE FINISHED _____ TIME _____ CLIENT NYSDEC-SITE ____ EXCAVATOR ____ SURFACE ELEVATION _____ DATUM EQUIPMENT WATER ELEVATION _____ INSPECTOR LITHOLOGIC STONES DEPTH (ft) MOIST. SYMBOL DESCRIPTION OF SOIL Brown sitty of sad; little f sad. Bottles 1 Starties (Bracks, wires, wood max leading 95 P ON4 300 methin, o -1 Black water, ~ o sheen on water. - 5.5 w. Table , some shere on wester surface. allot of wood percon, Bottol of delp. silty send at the bottom. * Tires, car fourts, * Lok 43 x 3.5 × 10:11 Dimensions -10-& Suple were collectedat the botto -+ no extra ordening natural was found. 201 = gres sad & groul

TEST PIT AND PERC TEST LOG JOB No. DATE STARTED TIME TEST PIT No. TP. 2B DATE FINISHED ______ TIME SITE ____ CLIENT EXCAVATOR _____ SURFACE ELEVATION _____ **EQUIPMENT** DATUM WATER ELEVATION ____ INSPECTOR LITHOLOGIC DEPTH (ft) SYMBOL MOIST. **STONES DESCRIPTION OF SOIL** Grass, Brow Topo Soil 0-1' Smilly Carbage, Brakish, wood, wire Blastic, Botteles, paper in xel with at 5 HDeep logd prim (800 OVA) 50 meter, 600 another coupered s * Parts of Referegenter; 2000 Times, isome steen, Production the water water Table. 2, water Tout, bottom at 11 ft silly Clay to virsury silt. Personating of mobile is very High surplus were collected tran 11 deep clay national the bottom. -10-PERC TEST No. 2 PERC TEST No. 1 DEPTH RUN No. TIME (min sec) RUN No. TIME (min sec) LAWLER, MATUSKY & SKELLY ENGINEERS Environmental Science & Engineering Consultants

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| DEPTH (ft) LITHOLOG SYMBOL | MOIST. | DESCRIPTION OF SOIL | STONES | | | |
| -10— | 6 | Topsoil + grass (Brown silty s.md Carbage mixed with silty brown Send. Phastic, glass, wires, paper Notwal material of greenish Yellow s; lty Elayurity recisinit No water (only traped into practary Lit Refusal it may be a block af Rock. No ground water was detectived et 10' cleys. | | | | |
| TEST PIT LOCAT | пон: | PERC TEST No. 1 DEPTH | PERC TEST No. 2 DEPTH | | | |
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TEST PIT AND PERC TEST LOG JOB No. DATE STARTED ______ TIME DATE FINISHED ______ TIME _____ TEST PIT No. T.P. 70 CLIENT _____ SITE _____ EXCAVATOR ____ SURFACE ELEVATION _____ DATUM EQUIPMENT **INSPECTOR** WATER ELEVATION _____ LITHOLOGIC STONES DEPTH (ft) SYMBOL MOIST. **DESCRIPTION OF SOIL** Brown silty said. garbage (glass, Times, wood, Peper & Plus tic.) mixedwith greenish gray silty (lay) + water 5 ft and nothing gas. Stuck and stronge with ador samples were core collecter -10strong oder clay. & Tranchus wited to 45th tracing roctor intil it it was your and corton DERGIEST No. 2 PERC TEST No. 1 **TEST PIT LOCATION:** DEPTH RUN No. TIME (min sec) RUN No. TIME (min sec) LAWLER, MATUSKY & SKELLY ENGINEERS

Environmental Science & Engineering Consultants

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APPENDIX B

DATA USABILITY SUMMARY

REFERENCE 45

DATA USABILITY REPORT

OLD HALFMOON LANDFILL SITE

The report from Data Validation Services concluded that analyses performed on samples collected from the Old Halfmoon Landfill site were in compliance with the exceptions discussed below.

The volatiles analyses of samples OHTB-1 and -14-D1 were found not in compliance because they were analyzed in association with a method blank containing a surrogate failure. A reanalysis performed for OHTB-1 was one day outside the prescribed holding time. The outlying surrogate response in the associated method blank and the holding time violation do not affect the reported results in OHTB-1 or -14-D1; the data for the initial analyses and reanalysis are usable without qualification.

The volatiles analyses of samples OHTB-4 and -5 were initially processed under a continuing calibration standard (CCS) with an outlying response requiring reanalyses; the reanalyses holding time was exceeded. As the validator found the outlying CCS response was consistent with calibration standards in subsequent calibration curves, and the reanalyses were only one to two days outside the holding time, the initial and reanalysis for both samples are usable without qualification.

Samples OHTB-9-D1, -14-D1, and -15-D1 were analyzed at medium level using a methanol extraction. Dilutions were required to bring target compounds into the calibration range for quantification. The final analyses were one to two days outside the required seven-day holding time. Sample OHTB-7 was also analyzed at medium level and one day past the required holding time; a medium-level matrix spike/matrix spike duplicate (MS/MSD) (OHTB-7 MS/MSD) was processed seven days beyond the required holding time. As the methanol extraction was performed for all these samples within the required holding time, concentrations of target compounds analyzed one to two days outside the prescribed holding time are not likely to have been significantly compromised and are usable without qualification. However, target compounds in the MS/MSD do show some losses in

comparison with OHTB-7. Spike recoveries were acceptable with the exception of toluene, where recoveries were -249 and -320%. The MS/MSD data are usable as estimated concentrations that confirm the presence and concentration of target analytes in OHTB-7. Poor toluene matrix spike recoveries that may have been a result of sample nonhomogeneity or spike losses require the reported toluene concentration in OHTB-7 to be qualified as estimated and likely biased low.

A less dilute volatile organic compound (VOC) reanalysis performed on drum sample OHTB-9-D1 was one day beyond the required holding time, and a diluted reanalysis performed sample OHTB-15-D1 was performed four days beyond the required holding time. The violation in holding time has no significant bearing on the elevated levels of toluene detected in these samples. The laboratory qualified the elevated level in OHTB-9-D1 with a "b" to indicate detection of a low level of toluene in the associated method blank, likely due to the elevated levels in the samples; the low levels in the associated blank are insignificant compared to the toluene level in the sample and should not be misconstrued as indicating a laboratory contaminant. The data for both analyses are usable without qualification.

Soil samples OHTB-7, -7MS, and -7MSD and drum samples OHTB-9-D1, -14-D1, and -15-D1 were not in compliance because they were not associated with a matrix spike blank. The reported data are unaffected by this noncompliance and are usable without qualification.

The volatile toxicity characteristic leaching procedure (TCLP) reanalysis of OHTB-7 was performed two days outside the prescribed holding time (14 days) following the initial TCLP extraction, causing the analysis to be in noncompliance. The initial analysis was analyzed at a 1:26 dilution within the holding time. A reanalysis was performed at 1:20 dilution. No TCLP volatile components were reported in either analyses. The reported detection limits were well below the TCLP regulatory limits for both analyses. The reported data are usable to indicate that elevated levels of volatile components are not present in the original TCLP extract.

The volatile TCLP analyses for drum samples OHTB-9-D1 and -14-D1 were outside the required holding time by several hours; the reported results are unaffected by this noncompliance and usable without qualification.

The semivolatile analysis for OHTB-13 was not in compliance because it was performed minutes outside the calibration time frame. The reported data are unaffected by this noncompliance and are usable without qualification.

Two samples (OHTB-15 and -16) were received at the laboratory four days after the date of sampling due to shipping problems (the shipping label apparently was removed from the cooler during handling and the cooler was returned to LMS). The four-day holding time violation of the analyses impacts the results. The reported concentrations for these samples may reflect a loss of analytes, particularly for the volatile fraction.

The pesticide/PCB analysis of sample OHTB-16 was not in compliance due to a nine-day violation in extraction holding time. This sample was also delayed for four days prior to laboratory receipt, resulting in a total of 13 days before the sample was extracted. Low levels of several pesticides were reported in this analysis. Although pesticides generally exhibit low volatility, an extended holding time may have compromised the results of this analysis. The data are qualified to indicate that the reported concentrations are biased low due to an extension in holding time, but are usable to indicate elevated levels of pesticides are not present in this sample.

The validator found the remaining data to be in compliance with NYSDEC ASP (December 1991); however, several issues affecting data usability are discussed and summarized below.

Sample OHTB-11 was reanalyzed for VOCs because of an initial elevated surrogate recovery of bromofluorobenzene (BFB) of 119%, above the 113% limit. The high level of toluene in the reanalysis is qualified with an "e" to indicate that the toluene response is above the calibration range and the reported concentration is estimated. The outlying surrogate response in the initial analysis does not affect the usability of the reported data; both analyses are usable without qualification.

The acetone and methylene chloride levels reported in the medium-level and diluted volatile analyses should not be regarded as "elevated" because they incorporate dilution effects and errors; the reported concentrations are estimated and should not be regarded as sample components.

The laboratory case narrative indicates that the 1,1,1-trichloroethane (1,1,1-TCA) present in the sample taken from OHTB-13 is likely due to carryover from an unrelated sample processed immediately before OHTB-13 that contained elevated levels of 1,1,1-TCA. The validator agreed with the laboratory and recommended rejecting the reported 1,1,1-TCA concentration. The reported 1,1,1-TCA concentration in OHTB-13 was rejected and is not reported.

Several semivolatile tentatively identified compounds (TICs) were qualified with a "b" and should not be considered sample components as they were detected in similar concentrations in the associated method blank.

The TCLP semivolatile fraction for sample OHTB-15-D1 was not in compliance due to a 10-day method extraction holding time following the initial TCLP extraction. Low levels of methylphenol (cresol) compounds were found, but were not reported in the target compound list (TCL) analysis. The violation in holding time does not significantly affect the reported results as the initial TCLP extraction was performed within the required holding time. The data are usable without qualification.

With the exception of OHTB-15 and -16, which were analyzed under a separate sample delivery group, all the reported lead concentrations for the remaining soil and drum samples are unreliable due to negative spike recoveries for samples analyzed by inductively coupled plasma (ICP), elevated spike recoveries for samples analyzed by graphite furnace atomic absorption (GFAA), and poor duplicate correlation for both methods (134% difference (D) and 151%D by ICP and GFAA, respectively). As all the samples contained detectable levels of lead, the poor spike performance may reflect sample nonhomogeneity. The lead data are usable, with the qualification that all the reported concentrations qualified with an "R" or "N"

can be used only to indicate the presence of lead and do not reliably convey the actual concentration in the samples.

Antimony and selenium matrix spike recoveries were slightly depressed (40 and 65%, respectively). These values are not excessively low, especially for soil samples where sample nonhomogeneity and interferences are common. The data do not require qualification and are usable as reported.

Overall, the results of the LMS usability review concluded that, with the exception of the reported concentration of 1,1,1-TCA in sample OHTB-13, which was rejected as a laboratory contaminant, the data submitted for the Old Halfmoon Landfill site are usable with the appropriate qualifications discussed in this usability report.

APPENDIX C
PERTINENT FILES OR RECORDS

REFERENCE 13

CORPS OF ENGINEERS
U. S. ARMY



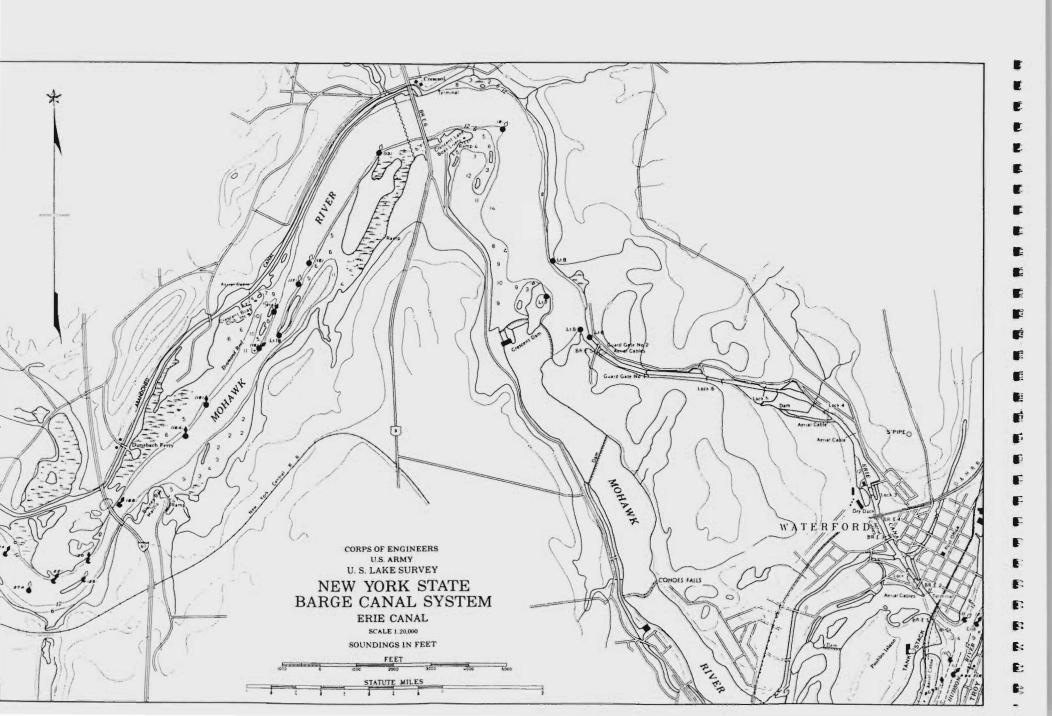
U. S. LAKE SURVEY

CHART NO. 180

NEW YORK STATE BARGE CANAL SYSTEM

CAYUGA-SENECA, OSWEGO, ERIE AND CHAMPLAIN CANALS

Published and sold by
U.S. ARMY ENGINEER DISTRICT, LAKE SURVEY
CORPS OF ENGINEERS
630 Federal Building, Detroit, Michigan 48226 2 0 JAN 1967
AIDS TO NAVIGATION CORRECTED TO



REFERENCE 16



CORPS OF ENGINEERS
U. S. ARMY



U. S. LAKE SURVEY

CHART NO. 180

NEW YORK STATE BARGE CANAL SYSTEM

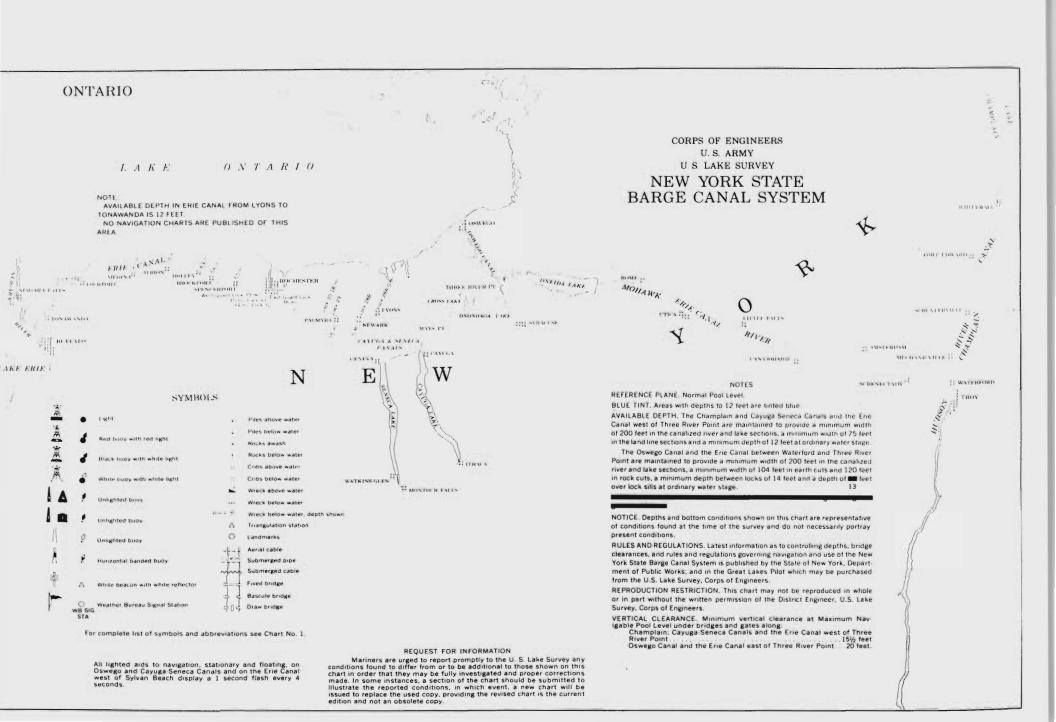


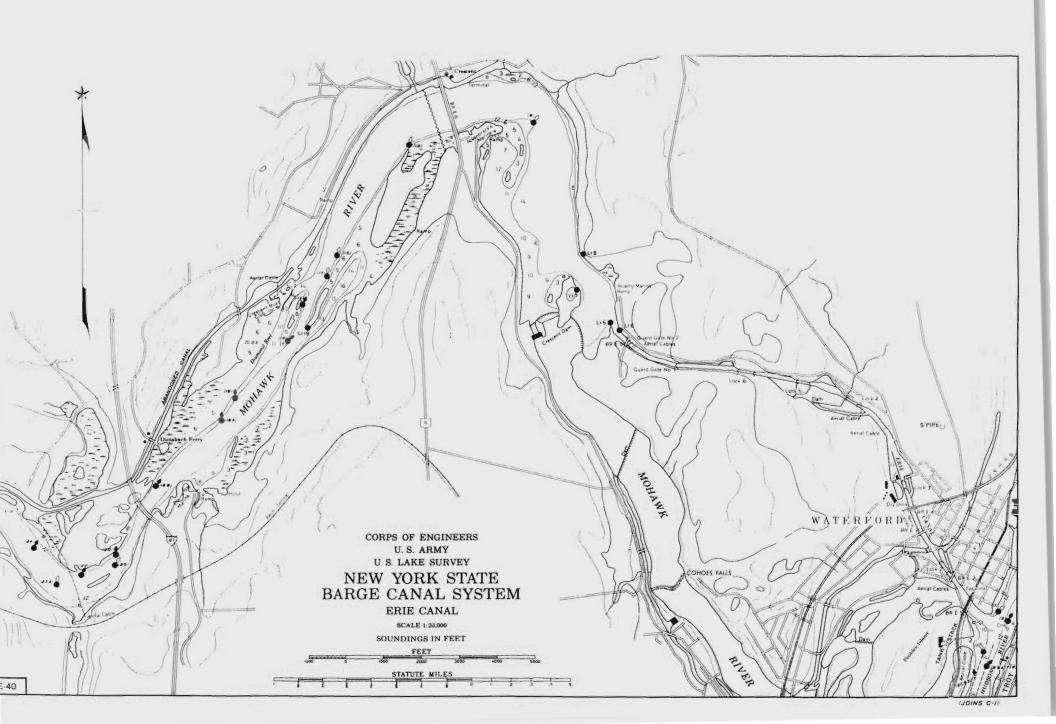
DEPARTMENT OF THE ARMY
LAKE SURVEY DISTRICT, CORPS OF ENGINEERS
630 Federal Building and U.S. Courthouse, Detroit, Michigan 48226
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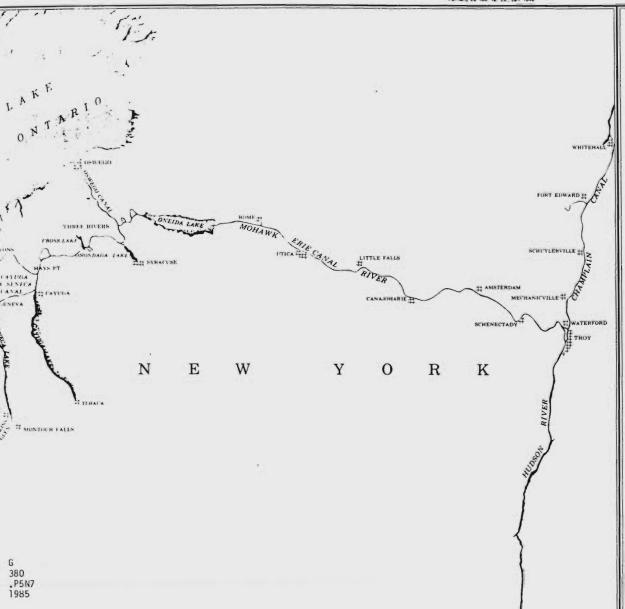


EDITION OF 1969





REFERENCE 17





UNITED STATES - GREAT LAKES;

NEW YORK

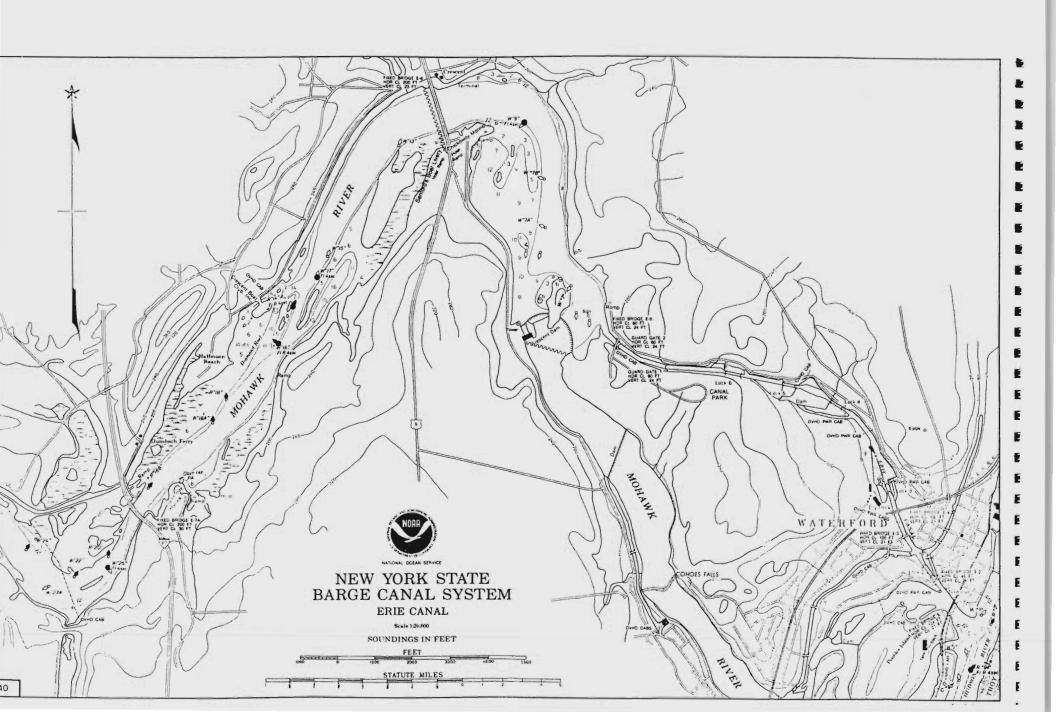
NEW YORK STATE BARGE CANAL SYSTEM

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

CAUTION

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This noutical chart has been designed to promote sate novigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart (in the Director, Charting and Geodetic Services (N/CG22), National Ocean Service, NOAA, Rockville, Maryland 20852



REFERENCE 28

Interviewee's No. 1, 2, and 3 remembered each other and worked at the dump early in its operations. Interviewee's No. 4, 5, and 6 were also familiar with each other and likely worked at or carted to the dump at a later period. Generally, the residents were not familiar with the dump's equipment operators and were only familiar with the dumping which occured near their residences. A few residents did remember the name of the original company, who operated the dump, and its president. Generally, the biggest difficulty the interviewees had was remembering exact dates or years or the exact sequence of events.

FINDINGS:

A number of consistencies developed from the information obtained during the interviews and file reviews. Some of these are as follows:

1. HISTORY

The dump's operation began in early 1962 and possibly as early as the late 1950's. Filling of the old canal bed occured in lifts which were compacted and covered when appropriate material could be obtained. Operations apparently initiated in the area of Clam Steam Road and moved generally in a easterly direction to approximately the area of Stone Road. There was apparently a constant moving of the working face up and down the canal as additional lifts were added. Early in the operation the lifts in the area west of Beach Road brought the fill above the canal bed and the dump extended beyond the Town property and onto adjoining parcels. In late 1964 or early 1965 the filling of the canal bed from Route 9 west was initiated. This was most likely a result of a car accident which resulted in the drowning of three occupants in the canal and to prevent further incidents. No one interviewed could remember exact dates of where dumping occured during a particular period, which is understandable after 25 years or more. Generally the fill is limited to the original canal bed in the area east of Beach Road and is at much greater depths in the area approximately 1/2 mile west of Beach Road to Clam Steam Road and beyond. -Pictures in the Town of Halfmoon files taken from approximately Clam Steam Road looking east depict the dump operation extending well above the Mohawk River water surface. Considerable settling has occured over time.

OPERATIONS

The dump was operated under contract with the Town of Halfmoon by a series of differently named companies who had some of the same officers. Copies of contracts between the Town and two of these firms are attached. It is reported that the Town of Halfmoon had little, if any, involvement in the day to day operation of the dump. The firms operating the dump received waste materials from a host of municipalities, commercial establishments and some industries. A few of the municipalities which were reported to have used the dump during various time periods included the cities of Troy, Cohoes, Watervliet, Green Island, and Schenectady, and the Town's of Waterford, Colonie, North and East Greenbush, and Halfmoon.

It was reported that the dump was basically a regional facility open to anyone who paid the tipping fee or entered into a contract with the operators. Operational controls were minimal and there was continuous friction between the operators, the Town, the State Health Department, and residents over the dumps operations.

NATURE OF WASTES

As reported by the interviewee's, the bulk of the wastes dumped were from residential or commercial sources. The dump operator sold the picking rights and recycleables at the time (paper, metal, etc.) were presumably removed. Some residents also reported medical wastes being dumped from City of Troy hospitals. Finally, numerous local industries were reported to have used the dump with their own trucks or by using a commercial carter. These wastes were reported to include relatively inert materials as well as liquid organic chemical wastes from a few of the industries.

4. 6 NYCRR Part 371 Hazardous Waste

Of the industries which were reported to have disposed of liquid organic chemical wastes at this dump, Behr Manning was mentioned by 10 of 12 individuals interviewed. A couple of others were mentioned by only one or two individuals and reportedly were sighted only occassionally.

a. Behr Manning Company (purchased by the Norton Company, Coated Abrasive Division in approximately 1968). Of the ten individuals who reported seeing Behr Manning trucks at the dump, seven reported that in addition to mixed refuse being disposed of (tape, sandpaper, grit) they saw drummed liquid wastes regularly disposed of. This waste was described either as a viscous, volatile material; liquid waste with pronounded odor; liquid waste with solvent odor; barrels with glue wastes; or simply, liquid waste in 55 gallon drums. The disposal of this waste stream was reported over a period of several years. Although Behr Manning trucks were reportedly sighted daily, the liquid drummed waste disposal was reported to be less frequently.

Interviewee No. 1 - the intitial operators manager, reported "drummed material (viscous, volatile material) from Behr Manning dumped off the back of the truck into the canal or fill. Eight to 15 drums dumped approximately every 15 days. Drums possibly unsealed. ...agreement/contract with Behr Manning for them to dump drummed material for a 2-3 year period."

Interviewee No. 3, an equipment operator at the dump, reported "Behr Manning had their own blue trucks. Garbage truck came up with tape, nylon, etc. approximately twice a week. Rack or panel truck with drums containing different colored liquid chemical waste with a pronounced odor came approximately once a week with 30 or 40 drums per load."

The other interviewee's reported similar information. It was generally reported that the drums were flattened with a bulldozer or simply dumped into the fill or canal. It was also generally reported that the drummed material was dumped wherever

they were operating at the time. The majority of interviewee's did indicate that the area from the Yacht Club to the Clam Steam Road was the most likely area this material was dumped. This, of course, is an area of approximately one mile in length.

The disposal of 6NYCRR Part 371 defined hazardous wastes at the Old Halfmoon dump by the Behr Manning Company (now Norton) is further substantiated by Norton's Hazardous Waste Disposal Questionnaire (attached) submitted in 1984 under the CRTK program. The form indicated that the Norton Company disposed of 2300 tons of solvent based phenolic and urethane sludges (solvents were toluene, xylene, ethyl alcohol, methyl isobutyl ketone and methyl ethyl ketone), generated from their ongoing operation, at the Town of Colonie Landfill (old section) from 1966-1975. This landfill is located on the south shore of the Mohawk River just over the Route 9 bridge. Filling operation did not begin at this site until 1968, most likely December of that year when it was originally approved to operate as a sanitary landfill.

Apparently Norton did not distinguish between the Old Halfmoon and the Old Colonie Landfills. The description of the hazardous wastes (D001, F003, and F005) disposed of by Norton is similar to the materials described in the interviews. Norton disposed of wastes at the Old Halfmoon dump for a 2-3 year period as reported by the original operation manager. Assuming that the 2300 tons reported by Norton were disposed of at an equal amount each of the nine years (approximately 255 tons/year), then approximately 511 to 766 tons of hazardous wastes were disposed of in the Old Halfmoon Dump by Behr Manning/Norton. This, of course, is a very rough estimate, but based on the information provided by the interviewee's on a numbers of drums disposed of and frequency of disposal, appears reasonable.

In addition to the above waste streams from their active operation, Norton also reportedly disposed of sludge from five latex evaporation ponds in 1966, and previously landfilled fly ash in 1968, at the Colonie Landfill. This material may have, in fact, also gone to the Old Halfmoon dump (see attached references from the Norton Site (401010) Phase I report).

b. Other sources of Part 371 Hazardous Wastes - Four of the interviewees reported that materials that may have been or likely were hazardous wastes were received at the Old Halfmoon dump from two other tri-city industries. These reports indicated only infrequent disposal and were not particularly specific about the nature of the material. Confirmation of these industries dumping hazardous wastes at this dump could not be made through review of the CRTK files. One firms CRTK files are missing and the other's CRTK questionnaire was vague (attached). Based on the lack of confirmation, listing of the firms names here would be inappropriate. Please refer directly to the interview forms. The NYS IHW forms do provide a good

profile of the composition of wastes generated by these firms, but not former disposal locations.

CONCLUSIONS

Based on the information presented above, it is clear that consequential amounts of Part 371 hazardous wastes have been disposed of at the Old Halfmoon dump. It is my estimate that 511 to 766 tons of D001, F003, and F005 wastes from the Behr Manning Company were disposed of at the dump for at least a 2 to 3 year period. The disposal of these wastes may have occured over the entire length of the dump, but more likely occured in the area of the current Yacht Club (just east of Beach Road) west to the Clam Steam Road area.

Additional disposal of possible hazardous wastes from other industrial sources were reported on a less frequent basis. The quantity and exact natures of these wastes cannot be determined based on currently available information.

RECOMMENDATIONS

In addition to the completion of the NYSDEC Phase II Investigation, the following actions are recommended.

- To further document additional sources and locations of hazardous waste disposal at this site, attempts should be made to interview individuals not previously contacted on the attached list.
- Attempts should be made to interview Norton employees who may be knowledgeable of the history of Norton's waste disposal at the Old Halfmoon dump.
- Attempts should be made to clarify whether or not other local industries hazardous waste was disposed of at this dump as reported by several of the interviewees.
- Consult with DLA whether it is necessary to take formal depositions from some of the individuals already interviewed or individuals who may be interviewed in the future. This is typically done in the remedial and enforcement programs. If necessary, they should be completed as soon as possible, as a number of the individuals interviewed have serious health problems.

Attachments

cc: D. Corliss

D. Steenberge w/all.

B. Lowe

G. Laccetti

B. Fear

insuring as reasonably as possible that said fill materials are not disposed of or deposited on any lands in the Town other than the areas hereinbefore mentioned.

- (3) The Contractor further agrees to pay for any and all expenses of whatever nature which he may incur by reason of the performance of his duties and conditions set forth herein.
- (4) The Contractor further agrees to have all necessary tools, equipment, and employees furnished for the proper performance of the duties and conditions herein set forth.
- (5) The Contractor shall be responsible for the performance in a proper, nest, and workmanlike manner of all duties and conditions set forth herein.
- (6) The Contractor shall assume and bear all risk of damage to, or failure of, the work to be performed hereunder, and all risk of any accident, or accidents, arising at or adjacent to, and caused by the filling operations, until the work, duties, and conditions set forth herein shall have been fully completed and approved and accepted by said Town in accordance with Paregraph "14" hereinafter set forth.
- Town from and against all suits, or plaims, that may be placed for any alleged injuries to any person, or property, that may occur, or that may be alleged to have occurred, in the course of the performance of this Agreement by the Contractor, whether such claim shall be made by an employee of the Contractor or by a third person, and whether or not it shall be claimed that the alleged injury was caused through a negligent act, or omission, of the Contractor; and the Contractor shall, at his own expense, pay all charges of attorneys, and all costs and other expenses, arising therefron, or incurred in connection therewith; and, if any judgment shall be rendered against the Town in any such action, or actions, the Contractor shall, at his own expense, satisfy and discharge the same.
 - (8) That the Contractor shall provide all labor and

materials that may be required for the performance of this Agreement and may contract with third parties for same.

- (9) Notwithstanding any provision to the contrary herein contained, that if the Contractor shall fail to perform or provide performance of any of the terms and agreements contained herein, then, and in any such event, the Town may, at its election forthwith terminate this agreement, by giving a ten day notice in writing thereof to the Contractor.
- (10) The Contractor further agrees not to assign, sublet, or transfer this agreement or any part thereof without the written consent of the Town.
- (11) That this Agreement shall bind the parties hereto, and their respective heirs, executors, administrators, successors, and assigns.
 - (12) The Contractor further agrees as follows:
- (a) All fill deposited in the canal shall be kept continuously and constantly covered with dirt or gravel, which dirt or gravel shall be furnished by the Contractor without cost to the said Town.
- (b) The ornal shall be filled to the contour of the surrounding lands and the said fill shall be topped with at least six (6) inches of top soil, which top soil shall be furnished by the Contractor without cost to the said town.
 - (c) All trees and ornamental shrubbery shall be saved where feasible.
 - (d) The burning of any fill used in the bed of the said Ganal is prohibited and if any fire should start, the fire shall be immediately and completely extinguished.
 - (e) All reasonable precautionary measures shall be taken that are necessary to keep all rodents and vermin in the vicinity of the fill operations under control.
 - (f) For fire protection, equipment shall be kept near the scene of the filling at all times and there shall be

personnel available to man the same at all times.

(g) Copies of all insurance policies with minimum limits of coverage of \$100,000/\$500,000 covering the Contractor and the Town from any and all liabilities arising out of and in connection with the execution of this contract and further showing that the amployees of the Contractor are covered by Workmen's Compensation, Insurance, shall be filed with the Town Clerk of the Town of Halfmoon prior to the commencement of work.

- (h) No drains presently emptying into the canal shall be cut off by reason of the filling of the canal bed. Where necessary the Contractor shall, at no cost to the Town, lengthen the said drains with additional pipe or culverts, as the case may be, to a point where the drains may continue to operate satisfactorily. The Town shall furnish said pipe or culverts to the Contractor at no cost to the Contractor.
- open to inspection by the Town Board, its agents, servents, or employees at all times. See of the Journ and individual residents of the Contractor, the Town then

Board, its agents, servants, or employees shall inspect the same
and if found by the said Town Board to be satisfactory in all ways,
then the said Town Board shall release the Contractor from all
limbilities that might thereafter arise on said completed lands.

IN WITNESS WHEREOF, the Contractor has hereunto set his hand and seal, and the Town has signed this Agreement, by its Supervisor, thereunto duly authorized, and its corporate seal to be hereunto affixed, the day and year first above written.

Town of Halfmoon

There's ar

Doing Business as Brookwood

WHEREAS, a certain agreement was heretofore made and entered into dated October 23, 1962, by and between the parties hereto, namely Paul Taglione, residing at 216 North Third Avenue, Mechanicville, New York, doing business as Brookwood Engineering Co. and the Town of Halfmoon, a municipal corporation duly created and existing under and by virtue of the laws of the State of New York, and having its principal place of business in the Town Hall in the Town of Halfmoon, Saratoga County, State of New York, and

WHEREAS, the subject of said agreement concerned the dumping of fill materials into the bed of the former New York

State Canal adjacent to the Mohawk River in the Town of Halfmoon, and

WHEREAS, subsequent to the execution of the agreement aforesaid the said Paul Taglione did in fact dump certain fill materials into the bed of the former New York State Canal in the Town of Halfmoon, and

WHEREAS, the parties to the aforesaid agreement dated October 23, 1962 are the parties herein and they each desire to terminate the said agreement dated October 23, 1962:

NOW, THEREFORE, in consideration of the mutual promises, terms and agreements herein and other good and valuable consideration, it is mutually agreed as follows:

- (1) The aforesaid agreement dated October 23, 1962, and any and all renewals thereof, is hereby terminated.
- (2) The parties hereto, simultaneously with the execution of this agreement and forming a part hereof with the

MENIRY AND KENIRY
ATTERNETS AT LAN
35 NORTH MAIN STREET
MECHANICPILLE, N.Y.

same force and effect as though set forth in full herein, shall execute and are executing general releases, each to the other.

IN WITNESS WHEREOF, the parties have hereunto set their hands and seals the /at day of February, 1966.

Paul Taglione, d/b/a Brookwood Engineering Co.

Supervisor of the Town of Halfmoon

MECHANICY LE NY

To all to Mhom these Fresents shall Come, or may concern:

Know Hr, That PAUL TAGLIONE, now or formerly residing at 216 North Third Avenue, Mechanicville, New York, doing business as Brookwood Engineering Co.,

for and in consideration of the sum of One and 00/100 - -- dollars (\$ 1.00 lawful money of the United States of America to me in hand paid by the Town of Halfmoon, Saratoga County, State of New York, and other good and valuable consideration, the receipt whereof is hereby acknowledged, have remised, released, and forever discharged, and by these presents do for myself, my executors and administrators, remise, release and forever discharge the said

Town of Halfmoon, its successors and assigns

deries; executors and administrators, of and from all, and all manner of action and actions, cause and causes of action, suits, debts, dues, sums of money, accounts, reckoning, bonds, bills, specialties, covenants, contracts, controversies, agreements, promises, variances, trespasses, damages, judgments, extents, executions, claims and demands whatsoever, in law or in equity, which against the said

Town of Halfmoon, I

ever had, now ha ve or which I or my heirs, executors or administrators, hereafter can, shall or may have for, upon or by reason of any matter, cause or thing whatsoever from the beginning of the world to the day of the date of these presents. And more particularly for any and all claims or causes of action of any nature whatsoever arising out of, stemming from or in any way connected with, including the termination thereof, of a certain contract, and work done thereunder, between myself, d/b/a Brookwood Engineering Co., and the Town of Halfmoon, dated October 23, 1962, and any renewals thereof.

In Witness Whereof, I have hereunto set my seal the day of February in the year Mneteen

Hundred and Sixty-six

In Presence of

Paul Taglione, d/Ma

Brookwood Engineering Co.

To all to Mhom these Fresents shall Come, or man concern:

Greeting: Know Mr. That the Town of Halfmoon, Saratoga County, State of New York,

for and in consideration of the sum of One and 00/100 - - - - dollars (\$1.00).

lawful money of the United States of America to it in hand paid by
Paul Taglione, d/b/a Brookwood Engineering Co., and other good and
valuable consideration,

the receipt whereof is hereby acknowledged, have remised, released, and forever

heirs, executors and administrators, of and from all, and all manner of action and actions, cause and causes of action, suits, debts, dues, sums of money, accounts, reckoning, bonds, bills, specialties, covenants, contracts, controversies, agreements, promises, variances, trespasses, damages, judgments, extents, executions, claims and demands whatsoever, in law or in equity, which against the said Paul Taglione, d/b/a Brookwood Engineering Co., it

ever had, now has or which

it or its successors or assigns have can, shall or may have for, upon or by reason of any matter, cause or thing what-socver from the beginning of the world to the day of the date of these presents.

And more particularly for any and all claims or causes of action of any nature whatsoever arising out of, and stemming from or in any way connected with, including the termination thereof, of a certain contract, and work done thereunder, between Paul Taglione, d/b/a Brookwood Engineering Co., and the Town of Halfmoon, dated October 23, 1962, and any renewals thereof.

the of the Town of Halfmoon day of

I have hereunto set my hand and February in the year Mneteen

Hundred and Sixty-six
In Presence of

Supervisor of the Town of Halfmoon



AGREEMENT

THIS AGREEMENT made this 2 day of May., 1967, between the TOWN OF HALF MOON, a municipal corporation (hereinafter referred to as "the Town" and CHIARELLO LAND FILL AND DISPOSAL, INC., having its principal office and place of business at 136 Everett Road, Colonie, New York, (hereinafter referred to as Chiarello.)

WITNESSETH:

That in consideration of the sum of One (\$1.00) Dollar paid by the Town to Chiarello, receipt of which is hereby acknowledged, and other good and valuable consideration, Chiarello hereby agrees to operate a Sanitary Land Fill in accordance with the New York Public Health Law and State Sanitary Code and the regulations of the Saratoga County Health Department and the Board of Health of the Town of Halfmoon on premises now owned by the Town, which lands were formerly part of the New York State Canal System adjacent to the Mohawk River in said Town on the following terms and conditions:

- The Town shall license Chiarello to operate said sanitary land fill upon the described premises.
- 2. The Town shall by its licensing of the premises to Chiarello give Chiarello full control over the premises for the purposes of operating a sanitary land fill but reserves the right to use said premises for other municipal purposes not interfering with Chiarello's use upon written notice given to Chiarello.
- 3. Chiarello shall operate a sanitary land fill upon the premises in accordance with the laws, codes and regulations above mentioned for the disposal of all trash, garbage, ashes, refuse, waste paper, wooden boxes and demolition material arising out of the Town, with the exception of explosives or other inherently

dangerous substances, without cost to the Town or its residents in consideration for the use of the premises to service other municipalities, corporations, partnerships or individuals with which Chiarello may have contracts for collection or disposal.

- 4. The Town shall allow access to the premises to all corporations, firms and individuals doing business with Chiarello, so long as the vehicles bearing rubbish for disposal shall be suitably covered to prevent spillage and littering.
- 5. Chiarello shall assume control of the premises and shall assume and bear all risk of damage to, or failure of, the work to be performed hereunder, and all risk of any accident, or accidents, arising at or adjacent to, and caused by or in connection with the work.
- and against all actions or claims which may be instituted or made for any and all alleged injuries to any person or property that may occur, or that may be alleged to have occurred in the course of the performance of this Agreement by Chiarello whether such action or claim shall be made by an employee of Chiarello or by a third person and whether or not it shall be claimed that the alleged injury or damage was caused by or through a negligent act or omission of Chiarello or otherwise; and Chiarello shall, at his (or its) own expense pay all charges of attorneys and all costs and other expenses arising therefrom or incurred in connection therewith; and if any judgment shall be rendered against the Town in any such action or actions Chiarello shall at his (or its) own own expense, sacisfy and discharge the same. Chiarello shall at all times and at his expense carry liability insurance coverage

for the entire operation including the premises and all men and equipment, in an amount not less than \$100,000.00 for personal injury or death to any one person and not less than \$300,000.00 for any one accident and not less than \$50,000.00 for property damage covering Chiarello and the Town from any and all liability arising out of or in connection with the execution of this agreement and the work performed thereunder. Chiarello shall deposit with the Town Clerk of the Town a certificate of insurance in such amounts. Chiarello shall carry Workmen's Compensation Insurance upon all of his employees and shall provide the Town Clerk of the Town with proof of such insurance.

- 7. Chiarello reserves any and all rights to salvage any materials brought upon the premises for disposal by any person or corporation whatsoever, provided said salvaging may be done without violating the New York State Sanitary Code.
- 8. Chiarello reserves the right to exclude from the premises any persons not upon the premises for the purpose of bringing in trash or rubbish and to prevent and prohibit any person from salvaging upon the premises, except that the site shall at all times be open to inspection by the Town Board, its agents, servants or employees.
- 9. The Town shall issue to Chiarello any necessary permits for the operation of a Sanitary Land Fill as contemplated by this Agreement. This agreement is conditioned upon the issuance and continued grant to the Town by the Department of Health of the State of New York of the necessary permit to conduct the operation contemplated herein. Chiarello shall do nothing to cause the

revocation of any such permit by said Department of Health.

- herein contained, if Chiarello shall fail to perform or provide performance of any of the terms and agreements contained herein, and particularly but not limited to those in connection with the standards of quality of the work, or if Chiarello shall fail during any period of four consecutive weeks to perform work at the site for the entire day of ten working days, then, and in any such event, the Town may, at its election forthwith terminate this agreement by giving a ten day notice in writing to Chiarello by sending such notice by regular mail to the address of Chiarello recited herein. The Town shall not be liable for damages or penalities for any such termination of this agreement.
- 11. At the expiration of this Agreement or any renewals thereof, Chiarello shall deliver up the premises to the Town in a clean condition free from any loose trash or rubbish.
- 12. This Agreement may not be modified without the written consent of both parties hereto.
- 13. This Agreement shall not be assigned by Chiarello without the written consent of the Town.
- 14. This contract is for the term of five years or until the completion of the sanitary land fill of the subject premises, whichever is earlier.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals on the day and year first above written.

TOWN OF HALF MOON

By Surge Q. Hatter

CHIARELLO SANITARY LAND FILL AND DISPOSAL, INC.

By Harold & Chirello

STATE OF NEW YORK) 68:-

On the 2nd day of MAY, 1967, before me personally came GEORGE A. HATLEE, to me known and being by me duly sworn did depose and say that he resides at RD # 2 MECHANICUILLE, NEW YIRK, that he is the JUTERNIUR of the Town of Half Moon, a municipal corporation, the corporation described in and which executed the instrument, that he knows the seal of said Town, and the seal affixed to said instrument is such corporate seal; that it was affixed by order of the Town ROMD of said Town, and that he signed his name thereto by like order.

Notary Public-State of New York

STATE OF NEW YORK) 85:-

On the Red day of Way before me came Harold W.Chiarello, the subscribing witness to the foregoing instrument, withwhom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at 136 Everett Road, Town of Colonic, New York, and he is the President of CHIARELLO SANITARY LAND FILL AND DISPOSAL, INC., the corporation described in and which executed the foregoing 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 his name thereto by like order.

REFERENCE 29

PART I

50 WOLF, HOAD ALBANY, NEW YORK 12233





PLEASE COMPLETE AND RETURN TO THE ABOVE ADDRESS, ATTENTION: RTK PROCESSING UNITEROOM 525

| ON CO. (COATED ABRASIVE DIV. WOOD AVE. & 25TH ST. RVLIET NY 12189 DDRESS (if different) P.O. Box 808 | CITY | CONTACT NAME | STATE | | ZIP CODE |
|---|---|--|---|---------|-----------|
| RVLIET NY 12189 ADDRESS (if different) | | CONTACT NAMI | | | |
| ADDRESS (if different) | V. | CONTACT NAME | | | |
| | | a stan partition | | | EPHONE |
| | CITY | | STATE | N.Y. | ZIP CODE |
| AL BUSINESS OF PLANT | | | | 10000 | |
| ufacture of coated abrasives | | | | | |
| PLEASE ANSWER THE FOLLOWING QUESTIO | NS: | | | - CHEC | K ONE |
| | 73223 | | 8 | 10 T | |
| | | | W W. | 1774 | - 14 17 F |
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| IF THE ANSWER IS NO COMPLETE QUESTION | S 1 AND 4 AND R | TURN THIS FO | DRM | 27 - 27 | |
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| 2. HAS THE FACILITY AT THIS LOCATION | | | | | |
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| BECAUSE THERE WAS A CHANGE IN OWN NAME, ETC. IF YES LIST THE NAMES BY W SINCE JANUARY 1, 1952 TO THE PRESENT. | ERSHIP, CORPOR | ATE NAME OR | OPERATOR IDENTIFIED | | YES |
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| BECAUSE THERE WAS A CHANGE IN OWN NAME, ETC. IF YES LIST THE NAMES BY W SINCE JANUARY 1, 1952 TO THE PRESENT. Behr Manning Company Norton Company Coated Abras: 10th Ave. & 25th Street Watervliet: New York 12189 | ERSHIP, CORPOR | ATE NAME OR | OPERATOR IDENTIFIED | | |
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| BECAUSE THERE WAS A CHANGE IN OWN NAME, ETC. IF YES LIST THE NAMES BY W SINCE JANUARY 1, 1952 TO THE PRESENT. Behr Manning Company Norton Company Coated Abras: 10th Ave. & 25th Street Watervliet; New York 12189 (518) 273-0100 NAME, ADDRESSES, AND TELEPHONE NUM 3. DESCRIBE THE DOCUMENTS FROM WHICH OBTAINED (SEE INSTRUCTIONS). Hazardous waste manifests No other documents are available. | ERSHIP, CORPORTHICH THIS FACIL | NCLUDED ON | OPERATOR IDENTIFIED 52-1967 68 - prese DATES PART-II WAS | | |
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| BECAUSE THERE WAS A CHANGE IN OWN NAME, ETC. IF YES LIST THE NAMES BY W SINCE JANUARY 1, 1952 TO THE PRESENT. Behr Manning Company Norton Company Coated Abras: 10th Ave. & 25th Street Watervliet: New York 12189 (518) 273-0100 NAME, ADDRESSES, AND TELEPHONE NUM 3. DESCRIBE THE DOCUMENTS FROM WHICH OBTAINED (SEE INSTRUCTIONS). Hazardous waste manifests No other documents are availagestimated based on employee | ive Division MBERS H DATA THAT IS I | NCLUDED ON | OPERATOR IDENTIFIED 52-1967 68 - prese DATES PART-II WAS | | |

| Norton Company | 16681 | 6-NYD-002083 | 954 |
|-----------------------------------|----------|--------------|-----|
| ADDRESS 10th Ave. & 25th Stree | t | | |
| CITY Watervliet | STATEN.Y | ZIP 12189 | |

GENERATOR FORM

PART - II

DATE ____8/

| • | | | | | | | 1 |
|---|---|-------------------------|---|---------|-------|--|--|
| 1. HAZARDOUS WASTE DISPOSAL SITE (SEE INSTRUCTIONS) | DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS) | 3. EPA WASTE CODE | 4. WASTE DISPOSED OF QUANTITY OF WASTE (TONS) | FORDING | DRUMS | 5. WASTE DISPOSAL DATES | 6. TRANSPORTER HAZARDOUS W/ (SEE INSTRUCTI |
| 1. Norton Company Landfill, Elm Street. Town of Colonie Albany County, N.Y. 1220 | Solvent based phenolic & ure thane sludges Solvents were toluene, xylene | D001 F003 F005 | Estimated to be 2200 | x | xx | 1955-1966 | Norton Company |
| Waste was landfilled | Ethyl alcohol, methyl isobuty: ketone, methyl ethyl ketone, material landfilled | | | | | | |
| 2. Town of Colonie Landfill Rt. 9 Town of Colonie Albany County, N.Y.12205 | Material landfilled | D001 F003 F005 | Estimated to be 2300 | x | ×× | 966–1975 | Norton Compar 10th Ave. & 2 Watervliet, N |
| | | 33 | | 7 % | 3 | 1976–1977 1979– 1973 Present | Browning-Fern 136 Sicker Ro Letham, N.Y. |
| | | - 1 m 1 m | | 140 6 | (3) | 978 | A: Pedone Dis Schenectady, |
| Process Inc. 4626 Rayal Avenue Niagara Falls, N.Y.14304 | Same as above Solids - Landfilled Liquids - blended | D001 F003 F005 | Estimated to be 200 | X | ×× | 1980-81 | Prontier Cher Process Inc. 4626 Hoval Av |
| | | | | 製工を上面 | 2 77 | 到 (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4 | PA-018 |

PHASE I INVESTIGATION REPORT

NORTON COMPANY LANDFILL

COLONIE (T), ALBANY COUNTY, NEW YORK

SEPTEMBER 1984

HOLOLO

| Site Code: 401010 Name of Site: Norton Company County: Albany To Street Address: Elm Street, Colonie, | Region: / / / / / / / / / / / / / / / / / / / |
|--|--|
| County: Albany To | wn/City Colonie (T) |
| Street Address: Elm Street. Colonie. | |
| | NY |
| Status of Site Narrative: | |
| | n * m 2 11 |
| ne toxics substances in New York's Enat Norton Company had owned 15 inactivestigations indicate that this was owever, does own an inactive landfill ant. This site was used beginning in and excavation material. Other mank tape, coated abrasives, phenolics and liquid wastes in drums. Volume est te. In 1966, the sludge from the set of the Colonie landfill, ansferred to the Colonie landfill. In for construction and demolition of spection was made; no hazards were vegetation is present on site. | tive sites, but subsequent in error. The Norton Company, I located adjacent to their in 1955 mainly to deposit fly aterials deposited include s, some settling basin sludge stimates are not available. Ex evaporation ponds on the ettling basins was transported and in 1968, fly ash was also The on-site landfill is used now debris. A comprehensive field |
| • | |
| Type of Site: Cpen Dump | Pond(s) Number of Ponds |
| Estimated Size 20.9 Acres | |
| Hazardous Wastes Disposed? Confirmed | Suspected [|
| *Type and Quantity of Hazardous Wastes: | |
| TYPE | QUANTITY (Pounds, drums, |
| | tons, gallons) |
| Fly ash (1966-78) | unknown |
| Junk Tape | A second |
| Coated Abrasives | The state of the s |
| Non-woven abrasives | |
| phenolics | |

| Time Period Site Was Used for Haz | ardous Waste Disposal: |
|--|---|
| | To |
| Is site Active . Inacti | ve 🙀 |
| (Site is inactive if hazardous wa was closed prior to August 25, 19 | stes were disposed of at this site and site (79) |
| Types of Samples: Air Gro | 1 |
| Remedial Action: Proposed In Progress In Nature of Action: | Completed L. None |
| Status of Legal Action: non | e State Federal |
| Permits Issued: Federal Solid Waste | Local Government SPDES none Mined Land Wetlands Other |
| Assessment of Environmental Probl | ems: |
| er, surface water, air, and ironmental impact exists. | the various media, including ground- flora and fauna to determine if any |
| , F 27 - 27 | |
| Assessment of Health Problems: | |
| | |
| e known, further investigat: | ion is necessary. |
| e known, further investigat: | ion is necessary. |
| e known, further investigat: | ion is necessary. |
| | ion is necessary. |
| Persons Completing this Form: | |
| Persons Completing this Form: Ken Griggs | ion is necessary. Ron Tramontano |
| Persons Completing this Form: Ken Griggs Irv Bonsel | |
| Persons Completing this Form: Ken Griggs Irv Bonsel G. David Knowles | Ron Tramontano |
| Persons Completing this Form: Ken Griggs Irv Bonsel | Ron Tramontano |
| Persons Completing this Form: Ken Griggs Irv Bonsel G. David Knowles New York State Department of Envi | Ron Tramontano New York State Department of Heal |
| Ken Griggs Irv Bonsel G. David Knowles New York State Department of Environmental Conservation | Ron Tramontano New York State Department of Heal |

1/18/80 GDK:cl

SUMMARY

Norton Company
Elm Street
Town of Colonie
Albany County, New York 12205

30.00

This is a 21 acre site, adjacent to the Norton Plant, which manufactures coated abrasives and abrasive paper. One part of the site is an active landfill used only for construction and demolition debris. The other part is inactive, it was used from 1955 to 1966. Fly ash, excavation material, junk tape, coated abrasives, phenolics, settling basin sludge and liquid wastes, in drums, were deposited. Quantities are unknown. There were five trenches, used as latex evaporation ponds. In 1966 the sludge from the settling basins was removed and disposed at the Colonie Landfill. In 1968 fly ash was also completely removed and transferred to the Colonie Landfill.

The site is located in a suburban area. Drinking water is obtained from the public water supply. Soil data may be obtained soon from NYSDOT, which made soil borings from alternate Route 7, adjacent to the Norton property.

The nearest surface water body, the Hudson River, is more than one mile away. The site is patrolled and partly fenced.

There is no apparent public health threat or environmental hazard known at the present time. DEC site inspection revealed no visible hazard. Extensive vegetation is present on site. No test data were available at the Regional DEC.

There are no known past or present regulatory actions. DEC has no remedial plans at this time.

From information obtained it appears that no hazardous materials are left on site. However no test data exist to verify this.

The Task Force recommends a site visit, with some sampling, on a "Medium Priority" basis.

SCHENECTADY CHEMICALS, INC.

P.O. Box 1046 • Schenectady, N.Y. 12301 • (518) 370-4200 • Telex No. 145-457 • Cable Schenvar

August 30, 1984

New York State Department of Environmental Conservation RTK Processing Unit Room 525 50 Wolf Road Albany, New York 12233

Dear Sirs:

Enclosed please find our response to the Community Right to Know survey of hazardous wastes disposal records. This letter is intended to explain Schenectady Chemicals, Inc (SCI's) response with respect to required reporting of disposal activities.

Schenectady Chemicals, Inc. has indicated on the enclosed questionnaires that it has no records of shipment of hazardous waste off-site for disposal. This response is based upon the following considerations. We have records of the shipment for treating of wastes or materials, part of whose hazardous or non-hazardous nature is currently subject to review by EPA. They involve a site in New York State (NYS) and certain other sites outside of New York State. With respect to those sites outside of New York State, we believe that this information is beyond the scope of the survey and, therefore, we are not providing such information at this time.

The New York State site is the Pollution Abatement Services (PAS) site near Oswego, New York. We believe that all material that its records indicate was transported by an independent hauler or the site operator (not SCI) to the PAS site was sent there for legally authorized burning and that such burning falls outside of the definition of disposal under the Resource Conservation and Recovery Act (RCRA). The PAS site is currently under investigation by EPA and DEC and as of yet has not been the subject of formal legal action by either the United States of America or New York State. Documents relating to these activities at this site have been made available to DEC through EPA.

New York State Department of Environmental Conservation Albany, New York

-2- August 30, 1984

At another site in New York State, known as the Loeffel Site in Rensselaer County, some of SCI's industrial wastes are alleged to have been taken there by an independent hauler. SCI maintains that this material within reclamation context was not a hazardous waste. This position has been disputed by DEC and the matter is currently in litigation. For that reason additional data are not available, pending outcome of this litigation.

It is emphasized that with the exception of the two above-mentioned sites, Schenectady Chemicals has no records of shipments of material that is a hazardous waste under RCRA to any other site in New York State. Moreover, SCI has no records of any disposal at any of its own facilities within New York State. It also should be stressed that SCI has on several occasions in the past provided DEC with extensive information regarding off-site shipments of hazardous materials for treatment and non-hazardous materials for landfill. Please refer to letters dated February 15, 1980 and July 2, 1980 from John Greene, SCI's Vice President - Manufacturing to Charles Goddard of DEC.

Additionally, SCI is claiming as CONFIDENTIAL BUSINESS INFORMATION the chemicals presented on the enclosed Industrial Chemical Survey (ICS). SCI has submitted such claims and substantiation of same to DEC in the past for the ICS information required for its SPDES discharge permits. We trust DEC will comply with and honor our request.

If you have any questions, please feel free to contact me.

Very truly yours,

SCHENECTADY CHEMICALS, INC.

H. G. Wertz

Manager-Regulatory Affairs

HGW/cbd

Enc.

GENERATOR FORM

50 WOLF ROAD ALBANY, NEW YORK 12233



HAZARDOUS WASTE DISPOSAL QUESTIONNAIRE

| SCHENECTADY CHEMICALS INC. (SCHE 797 Broadway SCHENECTADY NY 12305 CITY | NIDUU | 1818799 | 9 |
|---|-------------------|---------|-----------|
| 797 Broadway CONTACT NAM | STATE | | ZIP COO |
| CHENECTARY 3220E | 46 | [1 | TELEPHONE |
| SCHENECTADY NY 12305 TOTY | STATE | | ZP COC |
| <u> </u> | | | |
| PAL BUSINESS OF PLANT | | | |
| PLEASE ANSWER THE FOLLOWING QUESTIONS: | ÷. <u>-</u> | СН | ECK ON |
| 1. SINCE JANUARY 1, 1952 THRU DECEMBER 31, 1981, HAVE YOU OR AN' OWNERS/OPERATORS OF THIS FACILITY GENERATED ANY HAZARDOUS | | M | YES |
| INSTRUCTIONS) AT YOUR PRESENT FACILITY, PLANT, PROPERTY, ETC? | | | NO |
| IF THE ANSWER IS YES COMPLETE QUESTIONS 1, 2, 3, 4 AND GENERATOR FOR IF THE ANSWER IS NO COMPLETE QUESTIONS 1 AND 4 AND RETURN THIS FOR THE ANSWER IS NO COMPLETE QUESTIONS 1 AND 4 AND RETURN THIS FOR THE ANSWER IS NO COMPLETE QUESTIONS 1 AND 4 AND RETURN THIS FOR THE ANSWER IS NOT THE PROPERTY AT THIS LOCATION CHANGED ITS NAME OR IDENTITY AT | ITIFICATION | | |
| BECAUSE THERE WAS A CHANGE IN OWNERSHIP, CORPORATE NAME OR NAME, ETC. IF YES LIST THE NAMES BY WHICH THIS FACILITY HAS BEEN | | | |
| SINCE JANUARY 1252 TO THE PRESENT. ? -19 | | | YES |
| 3M-Dielectife Materials | | | |
| Schenectady Chemicals, Inc. 19 | 73- | | NO |
| Schenectady Chemicals, Inc. 19 | 73- | | NO |
| | DATES | | ОИ |
| | DATES | | NO |
| NAME, ADDRESSES, AND TELEPHONE NUMBERS 3. DESCRIBE THE DOCUMENTS FROM WHICH DATA THAT IS INCLUDED ON OBTAINED (SEE INSTRUCTIONS). | DATES | | NO |
| NAME, ADDRESSES, AND TELEPHONE NUMBERS 3. DESCRIBE THE DOCUMENTS FROM WHICH DATA THAT IS INCLUDED ON OBTAINED (SEE INSTRUCTIONS). | DATES PART-II WAS | | NO |
| NAME, ADDRESSES, AND TELEPHONE NUMBERS 3. DESCRIBE THE DOCUMENTS FROM WHICH DATA THAT IS INCLUDED ON OBTAINED (SEE INSTRUCTIONS). | DATES PART-II WAS | | NO |

| NAME | ICS NUMB | ER - EPA ID NUMBER |
|---------|----------|--------------------|
| ADDHESS | | |
| CITY | STATE | ZIP |

GENERATOR FORM
PART - II



| DATE | |
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| DAIL | _ |

| HAZARDOUS WASTE DISPOSAL SITE (SEE INSTRUCTIONS) | 2. DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS) | 3. EPA WASTE CODE | 4. WASTE DISPOSED OF OUANTITY OF WASTE (TONS) | FORM SOLID | 5. WASTE DISPOSAL DATES | 6. TRANSPORTER O HAZARDOUS WAS (SEE INSTRUCTION |
|---|--|-------------------------|---|------------|-------------------------------|---|
| All Hazardous Wastes Were Treated -Not Disposed | | D005- | - | x > | | - |
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NERATOR FORM PART - 1

50 WOLF ROAD ALBANY, NEW YORK 12233



HAZARDOUS WASTE DISPOSAL QUESTIONNAIRE

| ICS #: 4166205 | | | ICS CODE EPA ID NUM NYD00 | IBER | |
|---|-----------------|-----------------|---------------------------------|-------|-----------|
| ENECTADY CHEMICALS INC. (RESE | CITY | | STATE | 1 | ZIP CODE |
| _ | Schenecta | | N.Y | | 12309 |
| SO BALLTOWN RD. NY 12309 | | CONTACT NAME | | | ELEPHONE |
| ENECTADY NY 12309 / | Icity | H. G. Wei | STATE | | 370-4200 |
| ADDRESS (II different) | 1 | | SIAIE | | The CODE |
| Synthetic Resins Research | | | | | |
| PLEASE ANSWER THE FOLLOWING QUESTIO | | | | CH | ECK ONE |
| 1. SINCE JANUARY 1, 1952 THRU DECEMBER | | YOU OR ANY PR | EVIOUS | 8 | YES |
| OWNERS/OPERATORS OF THIS FACILITY G | | | | | |
| INSTRUCTIONS) AT YOUR PRESENT FACILITY | | | | | NO |
| | | | | | |
| IF THE ANSWER IS YES COMPLETE QUESTION IF THE ANSWER IS NO COMPLETE QUESTIONS | | | PART - II | | |
| BECAUSE THERE WAS A CHANGE IN OWNE NAME, ETC. IF YES LIST THE NAMES BY WE SINCE JANUARY 1, 1952 TO THE PRESENT. | | | | ED | YES NO |
| NAME, ADDRESSES, AND TELEPHONE NUM | BERS | DATI | S | | |
| 3. DESCRIBE THE DOCUMENTS FROM WHICH OBTAINED (SEE INSTRUCTIONS). | DATA THAT IS IN | | | | |
| Shipping Logs | | 1973- | | | |
| DOCUMENT DESCRIPT | ION | DAT | FS | | |
| | | | | | |
| 4. I HEREBY CERTIFY THAT TO THE BEST OF M COMPLETE. FALSE STATEMENTS SUBMITT 210.45 OF THE PENAL LAW. | | | | | |
| NAME OF OWNER/OPERATOR, PARTNER O | FFICER OR AUTHO | PRIZED REPRESEN | ITATIVE | TITLE | DATE |
| SIGNATURE | BUSINES | SPHONE | | | |

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GENERATOR FORM
PART-II

ICS NUMBER - EPA 10 NUMBER STATE SIP

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V. Carlos Construences

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| | | | | | | | | |
| | | | | | | | | |
| Not Applicable | 18-8461 | × | x | × | - | т000 | эиом | Hazardous es Were Treated Disposed |
| 6. TRANSPORTER OF HAZARDOUS WASTE (SEE INSTRUCTIONS) | S. WASTE DISPOSAL DATES | DRUMS | SOLID A | רוסטום | AND SECOND OF WASTE (SNOT) | 3. EPA WASTE | 2. DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS) | STIE DISPOSAL SITE (SMOITOURTENI 332) |

ENERATOR FORM PART-I

50 WOLF ROAD COUPTY-TO ALBANY, NEW YORK 12233 PITK# 10087



HAZARDOUS WASTE DISPOSAL QUESTIONNAIRE

| PANY NAME | | S CODE A ID NUMBER | |
|---|--|-------------------------------|-----------|
| ICS #: 4167557 GITY SCHENECTADY CHEMICALS INC. (SCHE | | ATE YD0020701 | ZIP COOL |
| FRANK RUTKEY | CONTACT NAME | | TELEPHONE |
| TENTH AVE. & CONGRES SCHENECTADY NY 12303 Tary | H. G. Wertz | 175 | Income |
| न | | ATE | ZIP CODE |
| Synthetic Coatings | | | |
| PLEASE ANSWER THE FOLLOWING QUESTIONS: | | CH | ECK ONE |
| 1. SINCE JANUARY 1, 1952 THRU DECEMBER 31, 1981, F OWNERS/OPERATORS OF THIS FACILITY GENERATED A INSTRUCTIONS) AT YOUR PRESENT FACILITY, PLANT, P | ANY HAZARDOUS WASTE (SE | | YES |
| IF THE ANSWER IS YES COMPLETE QUESTIONS 1, 2, 3, 4 A | | - 11 | |
| NAME, ETC. IF YES LIST THE NAMES BY WHICH THIS F SINCE JANUARY 1, 1952 TO THE PRESENT. | | | 2 1 1 2 2 |
| NAME, ADDRESSES, AND TELEPHONE NUMBERS | DATES | | YES NO |
| 3. DESCRIBE THE DOCUMENTS FROM WHICH DATA THAT | | | |
| | | | |
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| 3. DESCRIBE THE DOCUMENTS FROM WHICH DATA THAT OBTAINED (SEE INSTRUCTIONS). Shipping Records | TIS INCLUDED ON FART-II W 1973-81 DATES GE AND BELIEF THAT INFORM | AS AS | NO |
| 3. DESCRIBE THE DOCUMENTS FROM WHICH DATA THAT OBTAINED (SEE INSTRUCTIONS). Shipping Records DOCUMENT DESCRIPTION 4. THEREBY CERTIFY THAT TO THE BEST OF MY KNOWLED COMPLETE. FALSE STATEMENTS SUBMITTED ON THIS | DATES GE AND BELIEF THAT INFORMS DOCUMENT ARE PUNISHA | AS ATION SUPPLIES BLE PURSUAN | NO |
| 3. DESCRIBE THE DOCUMENTS FROM WHICH DATA THAT OBTAINED (SEE INSTRUCTIONS). Shipping Records DOCUMENT DESCRIPTION 4. I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLED COMPLETE. FALSE STATEMENTS SUBMITTED ON THIS 210.45 OF THE PENAL LAW. NAME OF OWNER/OPERATOR, PARTNER OFFICER OR A | DATES GE AND BELIEF THAT INFORMS DOCUMENT ARE PUNISHA | AS ATION SUPPLIES BLE PURSUAN | NO |

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| CITY | STATE | ZIP |

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| HAZARDOUS WASTE DISPOSAL SITE (SEE INSTRUCTIONS) | 2. DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS) | 3. EPA WASTE CODE | 4. WASTE DISPOSED OF QUANTITY OF WASTE (TONS) | FOIDOIT | DRUMS | 5. WASTE DISPOSAL DATES | 6. TRANSPORTER OF HAZARDOUS WASTE (SEE INSTRUCTIONS |
|--|--|-------------------------|---|---------|-------|-------------------------------|---|
| 1973-1981 All Records Indicate Waste Sent Off-Site Only for Treatment | None | D001 | | x | × | - | - |
| | | | | | | | |
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TRANSPORTER FORM PART - I

ALBANY, NEW YORK 12233



HAZARDOUS WASTE DISPOSAL QUESTIONNAIRE

| PANY NAME SCH | ENECTADY CHI | HAUL #: 4A-008 | | NUMBER: | 100 |
|---|------------------------------|---|-------------------|---------|----------|
| PANY MAILING ADDRESS PO SCH | BOX 1046 Enectady | NY 12301 M | STATE | | ZIP CODE |
| T NAME (if different) | | | H. G. Wertz | I | ELEPHONE |
| T ADDRESS (if different) | | СПY | STATE | | ZIP CODE |
| CIPAL BUSINESS OF PLANT Synthetic Coatings | s. Resins an | d Chemicals | | | |
| PLEASE ANSWER THE | | | | CHE | CK ONE |
| | TRIAL WASTE, (SEE | OUS OWNERS/OPERATORS E INSTRUCTIONS) BETWEE | | | YES |
| 2. HAS THE NAME OF CORPORATE NAME | YOUR COMPANY OR OPERATOR NAP | CHANGED DUE TO A CHANGE, ETC. IF YES, LIST ALL NA | NGE IN OWNERSHIP, | | YES |
| | | | | | NO - |
| NAME, ADDRESSES, | AND TELEPHONE | NUMBERS | DATES | | |
| 3. DESCRIBE THE DOCI OBTAINED (SEE INST | | IICH DATA THAT IS INCLUD | ED ON PART-II WAS | : | |
| Shipping R | | | 1973-81 | | |
| | | | | | |
| | DOCUMENT DESCR | RIPTION | DATES | | |
| 4 I HEBERY CERTIFY T | | OF MY KNOWLEDGE AND B | | | |
| | | <i>l</i> . | | | |
| TRUE AND COMPLET TO SECTION 210.45 C | PERATOR, PARTNE | R OFFICER OR AUTHORIZED (518) 370- | | TITLE | DATE |

| NAME | TRAI | NSPORTER ID |
|---------|-------------|-------------|
| ADDRESS | | |
| CITY | STATE | ZIP |

TRANSPORTER FORM PART-II



| DATE | | |
|------|--|--|

| | | | | - | | |
|--|---|--|--|-------------------------|--|-----------|
| 1. HAZARDOUS WASTE DISPOSAL SITE (SEE INSTRUCTIONS) | 2. NAME OF FIRM-COMPANY THAT PRODUCED INDUSTRIAL WASTE (SEE INSTRUCTIONS) | 3. DATES OF SHIPMENT (MONTH) (YEAR) | 4. DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS) | 5. EPA WASTE CODE | 8. WASTE DISPOSED OF QUANTITY OF WASTE (TONS) | FO GINOIT |
| None | Schenectady Chemicals | - | · <u>-</u> | - | - | k |
| | 4166705 | | | | | |
| | 4166705 4166703 4167557 | | 1 | | | |
| | No inform | nution | due | | | |
| | to | thouse | litigetism | | | |
| | | | | | | |
| | | | | | | - |

ENERATOR FORM PART - I

50 WOLF ROAD ALBANY, NEW YORK 12233



HAZARDOUS WASTE DISPOSAL QUESTIONNAIRE

| | COMPLETE AND NETOTIC TO THE | ABOVE ADDRES | S, ATTENTION: I | | | |
|-----------------|--|-----------------|-----------------|----------------|-------|-----------|
| PANY NAME | ICS #: 41662 | 203 | | EPA ID NUM | MYDO | 0207011 |
| | TADY CHEHICALS INC. (RO | | | STATE | | ZIP CODE |
| FRED ST | | | | | | |
| | AM JUNCTION NY 12150 | | CONTACT N | . Wertz | , | ELEPHONE |
| P ADDRESS (II C | sifferent) | CITY | | STATE | | ZIP CODE |
| CIPAL BUSINES | S OF PLANT | | | | | |
| PLEASI | E ANSWER THE FOLLOWING QUEST | TIONS: | | ı. | СН | ECK ONE |
| | JANUARY 1, 1952 THRU DECEM | | | | ⊠ | YES |
| | ERS/OPERATORS OF THIS FACILITY RUCTIONS) AT YOUR PRESENT FAC | | | S WASTE (SEE | | NO |
| | ANSWER IS YES COMPLETE QUESTION OF THE PROPERTY OF THE PROPERT | | | | | |
| SINC | E JANUARY 1, 1952 TO THE PRESEN | VI. | | | Ø | YES NO |
| NAME | E, ADDRESSES, AND TELEPHONE N | IUMBERS | | DATES | | |
| | CRIBE THE DOCUMENTS FROM WHANNED (SEE INSTRUCTIONS). | ICH DATA THAT | IS INCLUDED O | N P.ART-II WAS | | |
| s | hipping Records | | | 1973-81 | | ** |
| | DOCUMENT DESCR | IPTION | | DATES | | |
| COM | REBY CERTIFY THAT TO THE BEST OF PLETE. FALSE STATEMENTS SUBME SOF THE PENAL LAW. | | | | | |
| - | E OF OWNER/OPERATOR, PARTNER | • | | DESCRITATIVE | TITLE | DATE |
| NAM! | Jamia Gwal | R OFFICER OR AL | THORIZED REP | RESERVATIVE | | D.1.1.C |

| NAME | ICS NUML | ICS NUMBER - EPA ID NUMBER | | |
|---------|----------|----------------------------|--|--|
| ADDRESS | | | | |
| CITY | STATE | ZIP | | |

GENERATOR FORM
PART - II



| DATE | |
|------|--|
| DAIL | |

| HAZARDOUS WASTE DISPOSAL SITE (SEE INSTRUCTIONS) | 2. DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS) | 3. EPA WASTE CODE | 4. WASTE DISPOSED OF QUANTITY OF WASTE (TONS) | LIQUID 3 | SOLID | DRUMS | 5. WASTE DISPOSAL DATES | 6. TRANSPORTER HAZARDOUS WAS (SEE INSTRUCTIO |
|--|--|-------------------------|---|----------|-------|-------|-------------------------------|--|
| All Hazardous Wastes Were Treated - Not Disposed | None | D001 | - | × | · | | 1952- 81 | Not Applicab |
| | | | | | | | | |
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