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

TOWN OF NEW WINDSOR LANDFILL
NEW WINDSOR, ORANGE COUNTY, NEW YORK
SITE CODE: 336019

Prepared for

DIVISION OF SOLID AND HAZARDOUS WASTE
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 WOLF ROAD
ALBANY, NEW YORK 12233-0001

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TABLE OF CONTENTS

SECTION 1.0
EXECUTIVE SUMMARY

SECTION 1.0
EXECUTIVE SUMMARY

NEW WINDSOR LANDFILL
SILVER STREAM ROAD
NEW WINDSOR, ORANGE COUNTY, NEW YORK

The New Windsor Landfill is an approximately 14-acre inactive landfill located in the Town of New Windsor, Orange County, New York. The site is situated in a freshwater wetland area at the end of Silver Stream Road adjacent to the New York State Thruway and property of the Stewart International Airport. File information indicates that the site was active from 1962 to 1976, and accepted both municipal and industrial solid waste. Additional file information has indicated that the site may have received from 3,000 to 9,000 drums of waste material during its operational period.

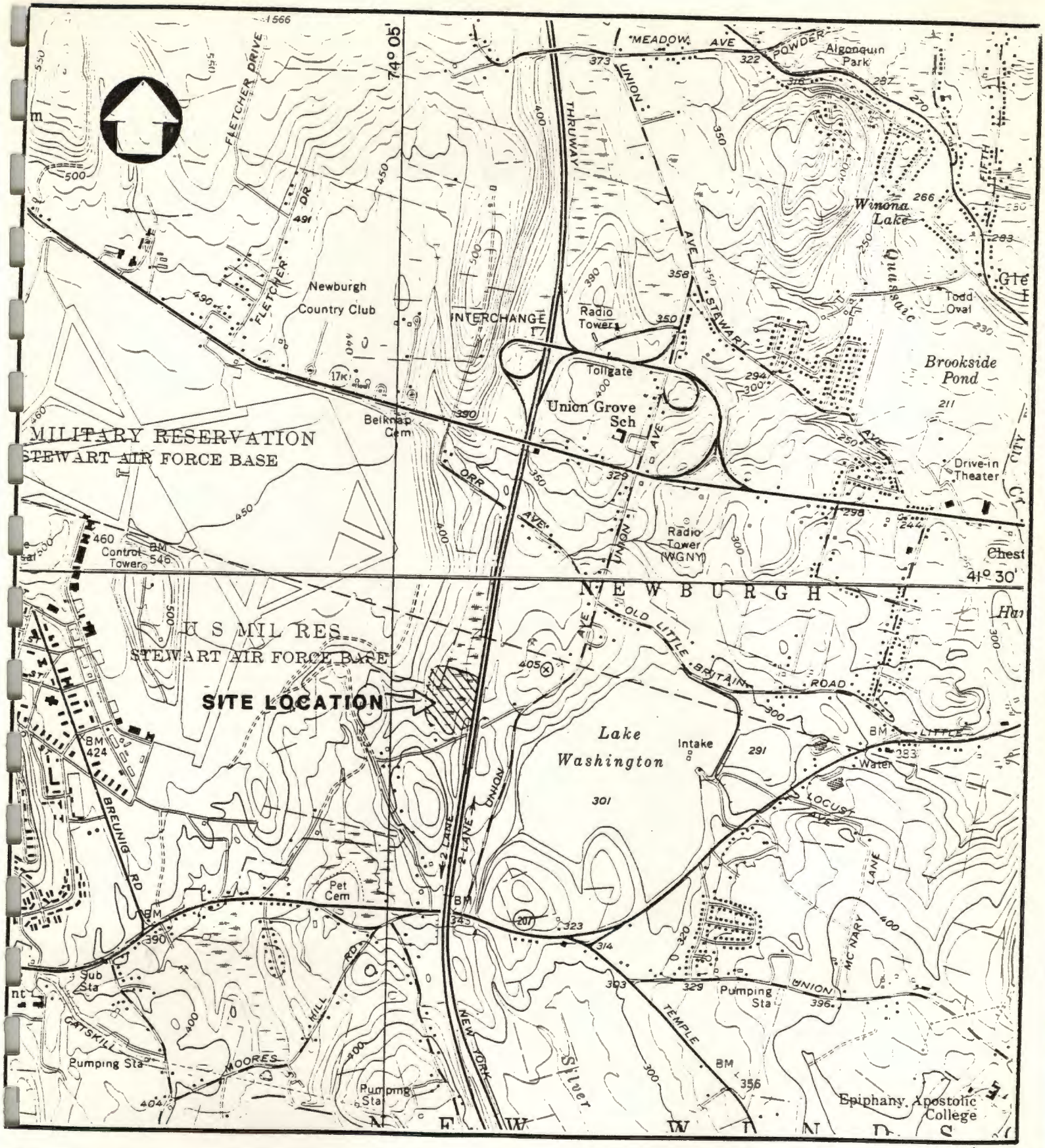
A site field investigation revealed the presence of leachate seeps, and approximately 5 to 10 drums exposed above the surface of the landfill. A metal detector survey was utilized to determine the locations for the test pit investigation which was conducted during this Phase II work program. Test borings were performed at three locations, and three monitoring wells were installed. Samples collected for laboratory analysis included three groundwater, one surface water, and one composite soil sample. In addition, air monitoring was conducted throughout the field investigation program.

See Pg 3-6

The results indicate that groundwater in the shallow, unconsolidated deposits has been impacted by site contamination from inorganic priority pollutants. In addition, soil samples retrieved from the test pit investigation, revealed the presence of base-neutral extractable organics, PCB, and inorganic priority pollutants. Although not detected in the groundwater monitoring wells, these compounds do have the potential to be discharged into the surrounding groundwater and surface waters.

A final HRS score of ~~43.22~~ 60.29 was calculated based on the Phase II data. Three remedial options were evaluated, including capping, drum removal, and a perimeter retaining wall and leachate collection system. Costs estimated

for these range from $250,000 to $3,400,000. The wide range of the cost is primarily due to the unknown actual quantity of drums that may be present below grade at the landfill.



SCALE: 1" = 2000'

SOURCE: TOPOGRAPHY TAKEN FROM NEWBURGH, N.Y. & CORNWALL, N.Y. U.S.G.S. QUADRANGLES 7.5 MIN. SERIES

MAP LOCATION

FIGURE 1

SITE LOCATION MAP

NEW WINDSOR LANDFILL

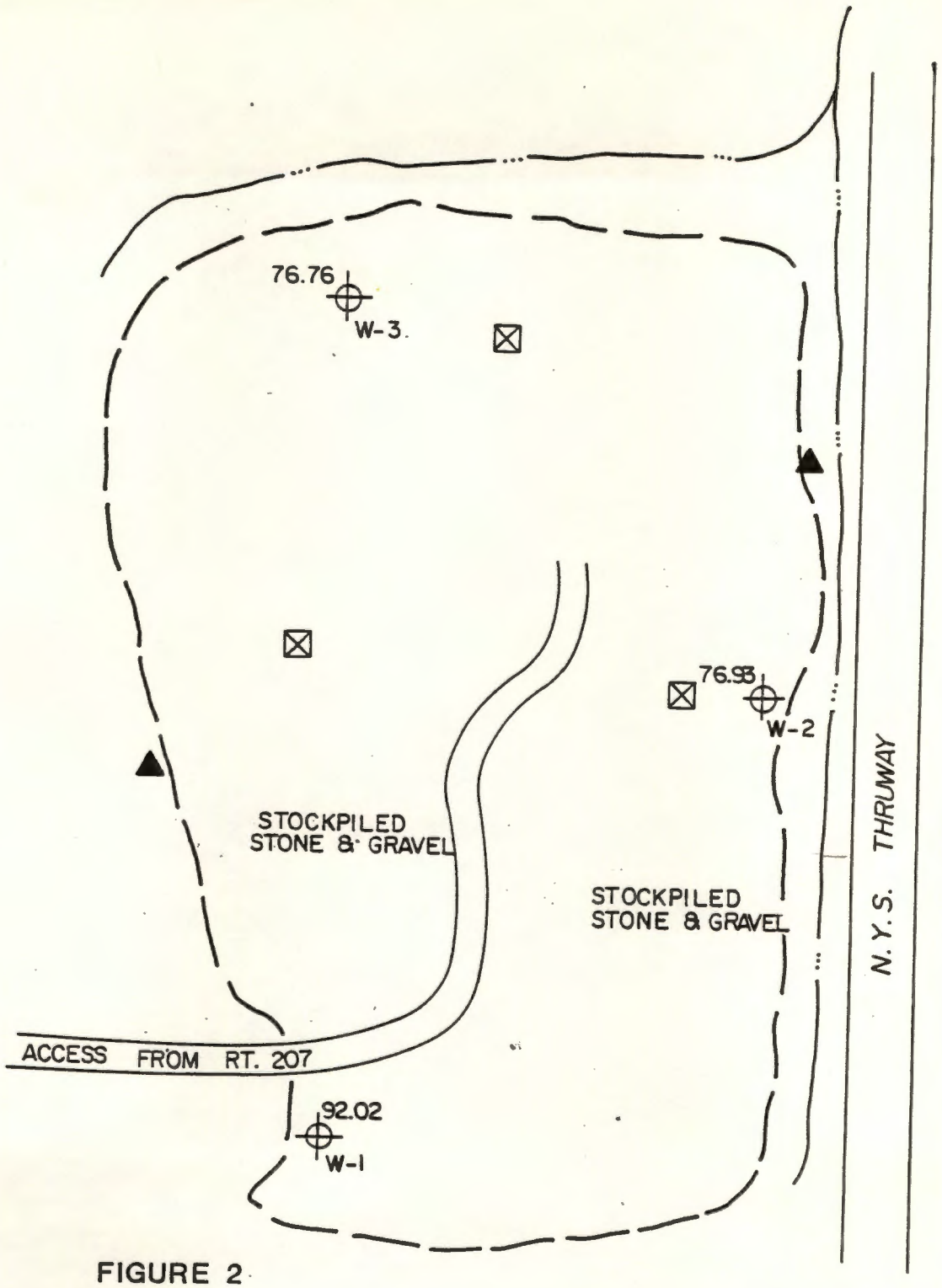


FIGURE 2

SITE SKETCH

N.T.S.

LEGEND

- MONITORING WELL LOCATION WITH GROUND-WATER ELEVATION
- APPROXIMATE LOCATION OF INTERMITANT STREAMS
- APPROXIMATE SITE BOUNDARY
- LOCATION OF LEACHATE SAMPLE
- TEST PIT LOCATION

SECTION 2.0
PURPOSE

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PURPOSE

During the Phase I investigation, it has been determined that the Town of New Windsor landfill site poses a potential threat not only to the groundwater aquifer beneath the site, but also to Washington Lake, a City of Newburgh reservoir. This Phase II investigation was designed to characterize the site in terms of identifying potential environmental concerns associated with it. The objectives of this work plan were as follows:

- Better identify the types of contaminants disposed of at the site
- Further identify subsurface hydrogeologic conditions at the site
- Determine the presence of contamination in the groundwater, suface water and air at the site
- Evaluate whether or not contamination from the site poses any environmental or health concerns
- Consider the possible cost for future remedial investigations/ actions

SECTION 3.0
SCOPE OF WORK

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SCOPE OF WORK

TASK 1 - HYDROGEOLOGIC INVESTIGATION

Test Borings

In order to define the geology beneath the subject site, one upgradient and two downgradient shallow borings, 25-35 feet deep, were drilled under the continuous supervision of Wehran Engineering. Split-spoon samples were collected at standard five-foot intervals in accordance with the procedures of the Standard Penetration Test. Soils were visually classified in the field for grain size (according to the Unified Classification System) and lithology. Representative portions of each sample were stored in moisture-tight jars at the office of Wehran Engineering in Middletown, New York, for future reference. Geologic logs describing the encountered soils are contained in the Appendix.

Boring locations were selected in the field by the Wehran representative in consultation with representatives of the NYSDEC. The locations were based primarily on ground surface topography and secondarily on access to drilling equipment. More specifically, the locations were based on the results of the initial site investigation, suspected areas of waste placement, and anticipated direction of groundwater flow. A geophysical survey was not included in the scope of services of the Phase II work plan. As shown on Figure 1, the highest topographic portion of the site is at the entrance gate; hence the upgradient well W-1 was located in this area. The two downgradient locations were selected based on their position relative to the two marsh areas.

Monitoring Well Installation

Monitoring wells were installed in each of the three test borings. All wells were constructed using two-inch diameter, Schedule 40, threaded flush-joint PVC pipe, and fifteen-foot long, factory-slotted PVC screens. The screened interval was determined in the field according to the hydrologic

conditions encountered. A sand pack was placed around each screen to prohibit clogging of the screen openings. A bentonite pellet seal was placed at the top of the sand to isolate it from upper soil zones. The annular space was filled to the surface with a bentonite-cement grout using the "Tremie" method. A steel, locking protective casing was then cemented in place to prevent vandalism.

Survey Well Locations and Elevation

A survey was conducted to determine the relative elevations of both ground surface and "top of casing" at each boring location. The locations of each of the three installed wells are depicted in Figure 3. The top of casing on W-1 was assigned an arbitrary elevation of 100.00 feet. Top of casings on wells W-2 and W-3 were 86.28 and 88.72, respectively.

In Situ Permeability Determinations

Variable head borehole tests were conducted in order to measure the in situ permeability of the soils at each monitoring well location. Prior to the procedure, the static water level was measured and recorded to facilitate a determination of groundwater flow direction.

Groundwater Sample Collection

Groundwater samples were collected for analysis from each of the three wells using the following procedure.

- The static water level in each well was measured and recorded.
- Each well was totally evacuated and/or purged of at least three well volumes of water using a separate PVC bailer for each well. Each bailer was cleaned prior to use.
- Samples were collected from each well by the use of the above-mentioned bailer. Each sample was then placed in the appropriate container, of either plastic or glass, stored on ice, and transported to the lab in accordance with standard chain-of-custody protocol.

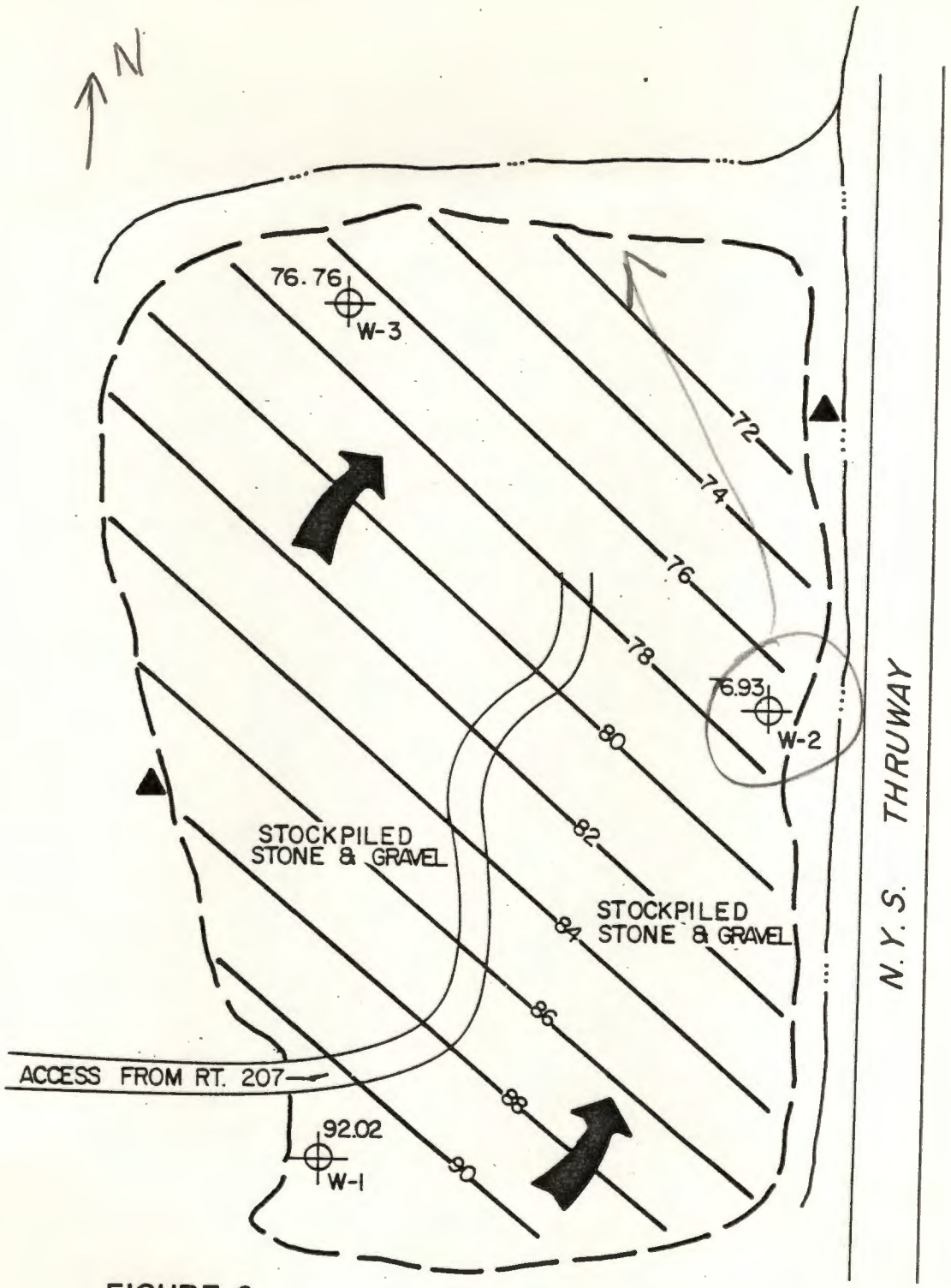


FIGURE 3

GENERALIZED GROUND-WATER TABLE ELEVATION MAP

N.T.S.

LEGEND

- ▲ LOCATION OF LEACHATE SAMPLE
- ⊕ MONITORING WELL LOCATION WITH GROUND-WATER ELEVATION
- —···— APPROXIMATE LOCATION OF INTERMITANT STREAMS
- — — APPROXIMATE SITE BOUNDRIES
- —90— GROUND-WATER TABLE ELEVATIONS
- ➡ DIRECTION OF GROUND-

The samples were analyzed for the 128 USEPA Priority Pollutants and water quality indicator parameters including: COD, pH, conductivity, chlorides, TSS, TDS, and iron.

TASK 2 - LEACHATE INVESTIGATION

To assist in identifying the contaminants of concern at the site, a leachate sampling and analysis program was also conducted. This program consisted of collecting one composite leachate sample collected from the two leachate sampling locations shown on Figure 3. This sample was collected at the site where leachate generation appeared most predominant. The sample was obtained by scooping an appropriate container into the leachate outcrop. The sample was then stored on ice and transported to the laboratory in accordance with standard chain-of-custody protocol.The sample was analyzed for 128 USEPA Priority Pollutants and water quality indicator parameters as indicated in Task 1. No other surface water sampling was included in the scope of work assigned by the NYSDEC.

← See Ex. Sum 1.1

TASK 3 - QUALITATIVE AIR MONITORING

Throughout all Phase II activites conducted at the New Windsor landfill site, air monitoring was performed using a HNU Systems Photoionization Analyzer. This included monitoring during the initial field inspection, which encompassed the entire site, during drilling supervision and sampling. Measurements were also taken on soil samples upon extrusion from the split-spoon sample.

TASK 4 - METAL DETECTOR AND TEST PIT INVESTIGATION

A metal detector survey of the site was conducted in an attempt to better define the boundaries and number of potential drum disposal areas. A Metrotech Model 800 ferromagnetic locator was utilized for this purpose. The exact sensitivity of this instrument will vary depending on the size of the object and the magnetic field encountered. The results of this metal detector survey were used to determine the potential location of buried drums and thus to select the locations for well drilling and exploratory test

pit excavation. These pits were excavated in an attempt to provide better information on potential sources of contamination, and to identify the nature and quantity of materials disposed of at the site. Samples were collected at each test pit and composited for a single analysis. The sample was analyzed for 128 USEPA Priority Pollutants.

TASK 5 - LABORATORY ANALYSES

During the field investigation, the following samples were collected for analysis by our subcontractor laboratory:

- Four water samples (three groundwater and one leachate) for 128 USEPA Priority Pollutants and water quality indicator parameters
- One soil sample for 128 USEPA priority pollutants

All samples collected at the site were preserved according to USEPA guidelines and stored on ice during transport to the laboratory. As part of the overall QA/QC, field blank samples were also examined.

TASK 6 - PRELIMINARY REMEDIAL COST ESTIMATE

The consultant has considered the possible cost for future remedial investigations, engineering plans and specifications, and the physical remediation anticipated for the site. A range of possible remedial costs have been developed using best engineering judgment and previous experience with possible feasible remedial schemes. This task is not intended to perform a cost-effectiveness analysis of feasible remedial alternatives, but rather to provide a cost range estimate adequate for legislative budget reporting purposes.

TASK 7 - PHASE II REPORT PREPARATION

A final report for the site has been prepared based on Phase I and II investigations. The report presents a description of the hydrogeologic condition at the site and an assessment of its contamination. It is anticipated that one meeting with the NYSDEC will be required during this task.

SECTION 4.0
SITE ASSESSMENT

SECTION 4.0
SITE ASSESSMENT

4.1 SITE TOPOGRAPHY

The New Windsor landfill is located in northeastern Orange County in the Town of New Windsor. The site is bordered on the west by Stewart Airport, and on the east by the New York State Thruway. Access to the site is obtained from Route 207 via Silver Stream Road, which dead ends at the site.

Topographically, the site is located in the valley and ridge province which is characterized by low rolling relief. The area is underlain by alternating layers of hard sandstone and soft shale that were compressed into wrinkle-like folds. Differential rates of erosion of these hard and soft layers have given rise to the narrow ridges and valleys typical of the province.

The site itself is located in a swampy area which is drained to the northeast via small streams and tributaries.

4.2 SITE HYDROGEOLOGY

The geology of the site was determined from information obtained during the drilling of three test borings (Figure 2). The boring logs for these drilling events are contained in the Appendix. The majority of the site is underlain by marsh deposits consisting of a dark brown to black organic silt and clay. The thickness of this material varied from 5 feet in B-3 to approximately 15 feet in B-2. The marsh deposit appears to be continuous in all but the southernmost part of the site. Underlying the marsh deposits are lacustrine deposits consisting of predominantly gray silty clay.

The southern portion of the site, in the vicinity of B-1, is underlain by glacial till which likely forms the topographically high area to the west and south of the site. Marsh and lacustrine deposits were apparently deposited in the low-lying areas to the north and east but were prohibited from extending further south by the higher glacial till deposits.

In order to determine horizontal groundwater flow direction, relative measurements of the ground surface and top of casing elevation of the three

monitoring wells were surveyed. By calculating the elevation of water in each well, the relative head loss between each location and, consequently, the direction of groundwater flow can be determined. This (shown below) data has been plotted on Figure 3, and illustrates a general northeasterly flow direction.

Well Number	Relative Top of Casing Elevation	Depth to Groundwater	Relative Elevation of Water Table
W-1	100.00	7.98	92.02
W-2	86.28	9.35	76.93
W-3	88.72	11.96	76.76

This would support the selection of B-1 as being representative of upgradient or background conditions. Although W-1 was not completed within the marsh deposits found at W-2 and W-3, it is in direct hydraulic contact with these units. The water table elevation (92.02) measured in W-1 represents the uppermost level of saturation at that location, as do the respective water levels at W-2 and W-3. Although the permeability of the till is significantly less than that of the refuse or marsh deposits, groundwater flow is in the northeast perpendicular to the water table contours.

Groundwater occurs within the refuse throughout the entire site. Although couplets were not installed to determine vertical gradients, it is likely that there is a general upward gradient in the marsh area itself, as this likely represents a discharge area. The relationship of this gradient within the central portion of the refuse/fill, however, is unclear due to the distinct possibility of mounding within the refuse. Additional piezometers would be necessary in order to fully define this relationship.

In situ permeability tests were performed on all three piezometers by the use of the "variable head" method, as described below. The results of these tests represent determination of the horizontal permeability of the geologic materials adjacent to the screened interval of each well.

The "variable head" borehole test was developed by Hvorslev for the United States Army Corps of Engineers, and summarized in Cedergren (1977). The bail or recovery tests were conducted as follows:

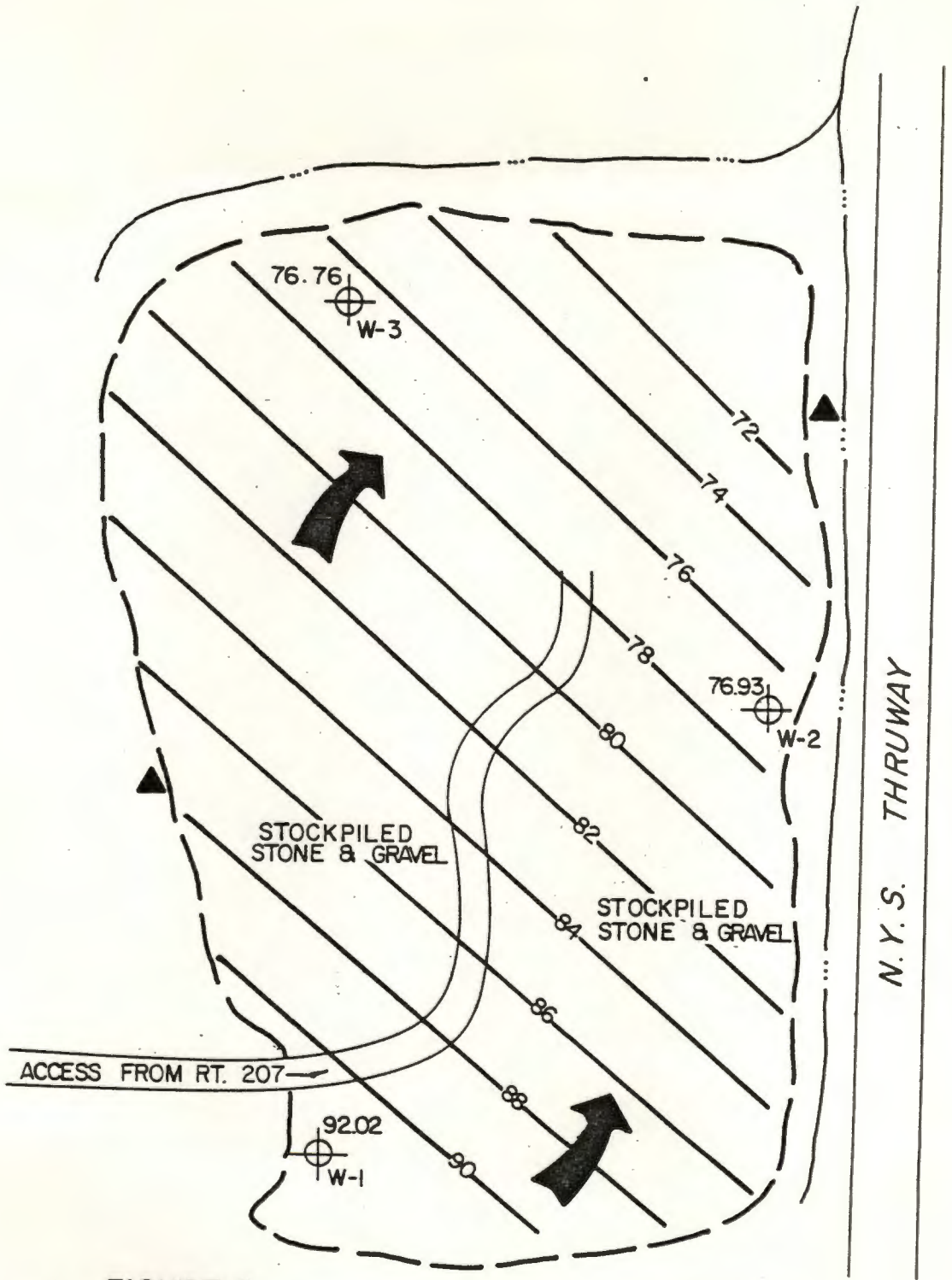


FIGURE 3

GENERALIZED GROUND-WATER TABLE ELEVATION MAP

N.T.S.

LEGEND

- LOCATION OF LEACHATE SAMPLE
- MONITORING WELL LOCATION WITH GROUND-WATER ELEVATION
- APPROXIMATE LOCATION OF INTERMITANT STREAMS
- APPROXIMATE SITE BOUNDRIES
- —90— GROUND-WATER TABLE ELEVATIONS
- DIRECTION OF GROUND-

1. The static water level in the well to be tested was measured and recorded.
2. The piezometer was then evacuated by bailing and a measurement of the depressed water level or drawdown was recorded.
3. At frequent time intervals, the water level in the piezometer and the respective time elapsed from the beginning of the recovery period were measured and recorded.

The method of analysis assumes that the rate of inflow to the piezometer tip after evacuation is proportional to the hydraulic conductivity (k), expressed in cm/sec, and to the unrecovered head distance. A plot of the unrecovered head distance or Head Ratio versus Time (t) indicates an exponential decline in the recovery rate with time. The following equation is used to calculate the permeability.

$$k = \frac{r^2 \ln (h_1/h_2)}{2 L (t_2-t_1)} \qquad \ln (L/R) \qquad \text{Eq 2.1}$$

Where:

R	=	sand pack radius (cm)
r	=	riser radius (cm)
L	=	length of sand pack (cm)
t_1	=	time interval corresponding to h_1 (sec)
t_2	=	time interval corresponding to h_2 (sec)
h_1	=	head ratio at t_1 (dimensionless)
h_2	=	head ratio at t_2 (dimensionless)
k	=	permeability (cm/sec)

The in situ permeability of B-3 is 3.22×10^{-3} cm/sec and can be attributed to the general permeability of the refuse/fill material. The results of the tests on B-1 and B-2 are 3.15×10^{-5} cm/sec and 5.63×10^{-3} cm/sec, respectively. These values, however, are composites of the entire screened area which cover more than one type of material and cannot be assumed to give a representative value for a specific unit. The individual graphic plots to support these calculations are presented in the Appendix.

4.3 SITE CONTAMINATION ASSESSMENT

4.3.1 Groundwater

As described in the Scope of Work in Section 3.0, three groundwater monitoring wells were installed at the New Windsor Landfill as part of the Phase II investigation. Each of these were sampled and analyzed for the 128 Priority Pollutants. The results of this analysis are summarized in Table 4.1 with the entire analytical results presented in the Appendix.

Monitoring MW-1, considered to be hydraulically upgradient of the landfill shows the presence of two organic priority pollutant compounds, chloroethane at 34 ug/l, and methylene chloride at 15 ug/l. Monitoring well MW-2 located on the eastern border of the landfill shows the presence of methylene chloride at 11 ug/l. Monitoring well MW-3 located at the northern end of the landfill did not show the presence of any organic priority pollutants. Both MW-2 and MW-3 are located downgradient of the landfill material.

NO They are well within the Waste Mass

Table 4.1 also presents data for inorganic priority pollutants and certain water quality indicator parameters. These results show that both the upgradient and downgradient wells contain inorganics in excess of USEPA drinking water standards. The groundwater samples from MW-1 (upgradient) contained lead at a concentration of 0.12 mg/l, while the two downgradient wells had levels of 0.35 and 0.98 mg/l. Chromium was detected in MW-2 at a concentration of 0.44 mg/l. Iron was detected at 93 mg/l in MW-1, 600 mg/l in MW-2, and 63 mg/l in MW-3. Table 4.1 contains additional inorganic results for the water quality indicater parameters.

The results of laboratory analyses indicate that the groundwater beneath the site has been impacted primarily by inorganic pollutants but not by any significant quantities of organic compounds at the present time. Although the groundwater upgradient of the site does not meet USEPA drinking water standards for certain compounds, the results indicate a significant further degradation that can be attributed to the landfill. This most notably can be demonstrated by the elevated lead concentrations found downgradient of the site.

TABLE 4.1

NEW WINDSOR
SUMMARY OF ANALYTICAL DATA
FOR GROUNDWATER SAMPLES

Parameters[1]	Sample No. and Location MW-1	MW-2	MW-3	Water Quality Criteria[2]
Volatile Organics (ug/l)				
Chloroethane	34	BDL	BDL	--
Methylene Chloride	15	11	BDL	1.9
Inorganics (mg/l)				
Chromium	BDL	0.44	BDL	.05-170[3] .05
Copper	0.10	0.78	0.36	1.0 1.0
Lead	0.12	0.35	0.98	.05 .025
Mercury	0.0002	0.0003	BDL	.00014 .0002
Zinc	0.83	BDL	2.20	5.0 ✓
Iron	93	600	63	-- .3
Cyanides	BDL	0.010	0.85	.20 .1
Phenols	~~BDL~~ 0.10	0.030	0.30	3.5 .001
Water Quality Indicators (mg/l)				
Chloride	81	190	27	250[4] ✓
COD	100	21	30	--
TSS	840	30,000	2,100	--
TDS	740	260	380	500[4]

BDL = Below Detection Limit

[1] Only parameters found to be in excess of the analytical detection limit are reported.

[2] Clean Water Act, Water Quality Criteria for Human Health, Carcinogenic Risk = 10^{-5}.

[3] .05 mg/l for Cr^{+6}; 170 mg/l for Cr^{+3}.

[4] USEPA Secondary Drinking Water Standards.

4.3.2 Surface Water/Sediment

A composited leachate sample was collected from two major leachate seeps around the perimeter of the landfill. The approximate location of these sampling points are depicted on Figure 3. This sample was analyzed for 128 Priority Pollutants and water quality indicator paramters. Table 4.2 shows the results of this analysis, which indicate lead at a concentration of 0.070 mg/l, and total dissolved solids at 1,800 mg/l. Both of these are in excess of USEPA drinking water standards.

4.3.3 Soil

A single soil sample was collected at the landfill site by compositing three separate soil test pits at the site (Figure 2). The locations of the soil test pits were chosen based on observations made during the site walkover, assumed areas of waste placement, and the results of the metal detector survey. The composite soil sample was analyzed for 128 Priority Pollutants. The results of this analysis are presented in Table 4.3 with the entire analytical results presented in the Appendix.

A total of 7,510 ug/kg of base-neutral extractable organics were detected in the test pit composite sample. The majority of these compounds are in the anthrene family. These materials have man-made sources that include used lubricating oil and wood perservative sludges. Various members of the anthrene family have been detected in the composite soil sample at the site, in concentrations ranging from 280 to 1,400 ug/kg. In addition to the anthrene compounds, the analysis of the soil test pit composite has detected the presence of the members of the polychlorinated biphenyls family (PCB-1242, PCB-1248) in concentrations ranging from 130 to 630 ug/kg.

7.5 PPM

11 PPB

TABLE 4.2

NEW WINDSOR
SUMMARY OF ANALYTICAL DATA
FOR LEACHATE SAMPLE

Parameters		Water Quality Criteria[1]
Organics (ug/l)	(All results are BDL)	
Inorganics (mg/l)		
Lead	0.070	.050 .025
Zinc	0.42	5.0
Cyanide	0.010	.20 .100
Phenols	0.018	3.5 .001
Water Quality Indicators (mg/l)		
Chloride	77	250[2]
COD	73	--
TSS	520	--
TDS	1,800	500[2]

BDL = Below Detection Limit

[1]Clean Water Act, Water Quality Criteria for Human Health, Carcinogenic Risk = 10^{-5}.

[2]USEPA Secondary Drinking Water Standards.

TABLE 4.3

NEW WINDSOR
SUMMARY OF ANALYTICAL DATA
FOR SOIL TEST PIT COMPOSITE

Parameters[1]	
Base-Neutral Extractable Organics (ug/kg)	
Phenathrene	1,200
Anthracene	300
Fluoranthrene	1,400
Pyrene	1,300
Benzo (A) Anthracene	400
Chrysene	480
Benzo (B) Fluorathrene	420
Benzo (K) Fluorathrene	330
Benzo (A) Pyrene	400
Indeno (1,2,3,C-D) Pyrene	1,000
Benzo (G,H,I) Perylene	280
Pesticides/PCBs (ug/kg)	
PCB-1242	130
PCB-1248	630
Inorganics (ug/g)	
Arsenic	0.79
Chromium	11.0
Copper	32.0
Lead	68.0
Mercury	0.013
Nickel	48.0
Zinc	140.0
Cyanide (mg/kg)	19
Phenols (mg/kg)	0.50

[1]Only those parameters found to be in excess of analytical detection limits

SECTION 5.0
FINAL HAZARD RANKING SCORE/EPA FORMS

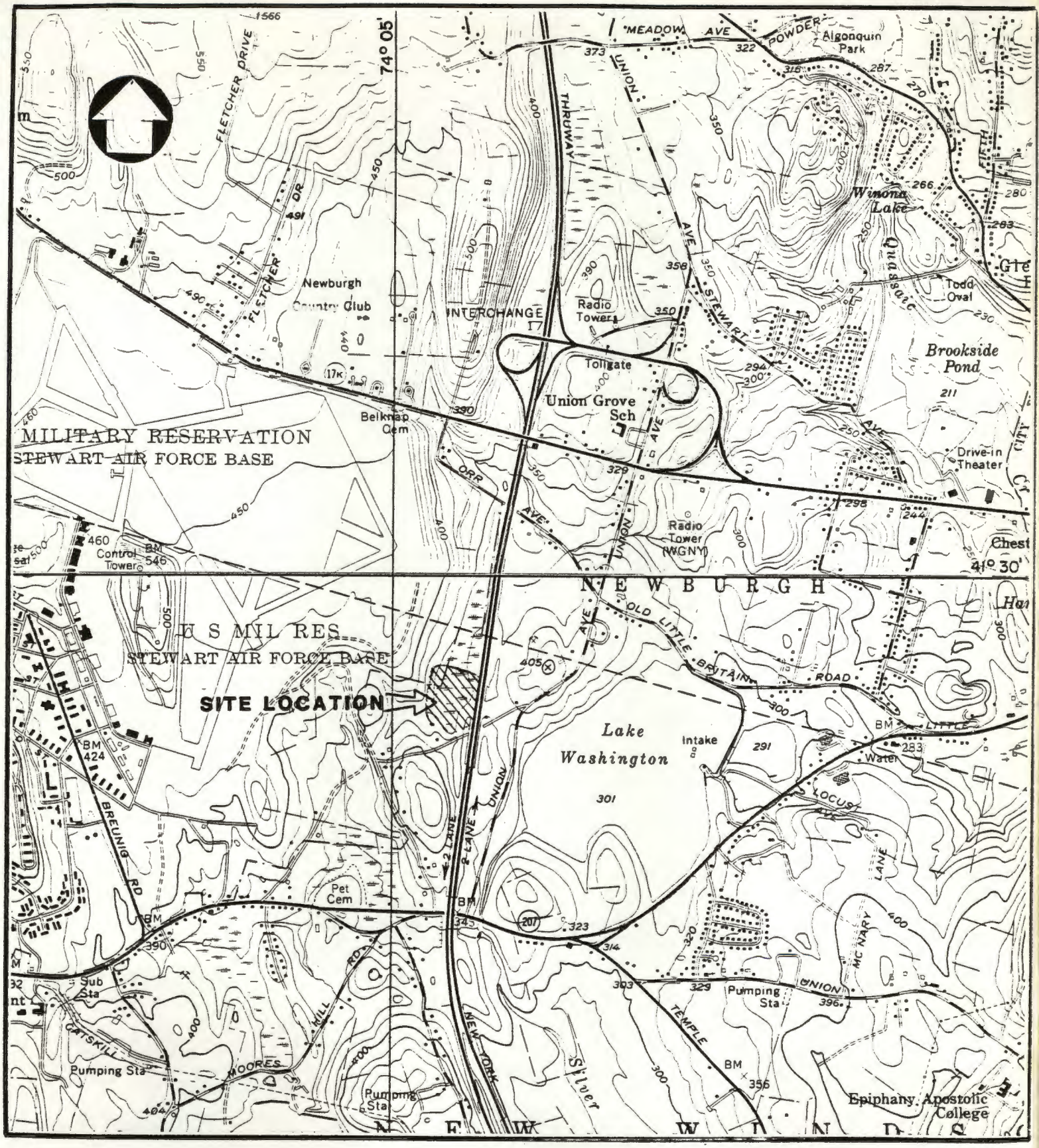
5.1 NARRATIVE SUMMARY

5.1 NARRATIVE SUMMARY

New Windsor Landfill
Silver Stream Road
New Windsor
Orange County, New York

. Site Size:	14 acres
. Demography:	Population approximately 1,000 within a three mile radius
. Geography:	Site located in and adjacent to a freshwater wetland. NYS Thruway located adjacent to site. Other surrounding land uses include residental area and Stewart Airport property.
. Type of Facility:	Inactive landfill
. Types of Waste:	Base-neutral extractable organics, heavy metals
. Affected Media:	Groundwater, soil
. Owner:	Town of New Windsor
. Cleanup Action:	None to date
. Enforcement Actions:	None to date

LOCATION



SCALE: 1" = 2000'

SOURCE: TOPOGRAPHY TAKEN FROM NEWBURGH, N.Y. & CORNWALL, N.Y. U.S.G.S. QUADRANGLES 7.5 MIN. SERIES

MAP LOCATION

FIGURE A-1

SITE LOCATION MAP

NEW WINDSOR LANDFILL

LAT. 41° 29' 50" LONG. 74° 4' 50"

HRS/WORK SHEETS

Facility Name: New Windsor Landfill

Location: Town of New Windsor

EPA Region: II

Person(s) in Charge of the Facility: Town of New Windsor
Department of Public Works

Name of Reviewer: Charles T. Bazydlo **Date:** November 1984

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.)

Inactive landfill of unknown contents in the Town of New Windsor, Orange County, New York. Observed release to groundwater and surface water of heavy metals (notably Lead). Soil samples found to contain base neutral extractable organics. Leachate seeps observed discharging into sourrounding freshwater wetland.

Scores: S_M = ~~50.86~~ 60.29 (S_{gw} = ~~45.13~~ 56.90 S_{sw} = 87.41 S_a = 0)

S_{FE} = N/A

S_{DC} = 25

HRS COVER SHEET

GROUND WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	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	6	
Net Precipitation	0 1 2 (3)	1	3	3	
Permeability of the Unsaturated Zone	0 1 2 (3)	1	3	3	
Physical State	0 1 2 (3)	1	3	3	
Total Route Characteristics Score			15	15	
3 Containment	0 1 2 (3)	1	3	3	3.3
4 Waste Characteristics					3.4
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	7	8	
Total Waste Characteristics Score			25	26	
5 Targets					3.5
Ground Water Use	0 1 2 (3)	3	9 ~~8~~	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 / 12 16 18 (20) / 24 30 32 35 40	1	20	40	
Total Targets Score			29	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			36,625 ~~25,875~~	57.330	
7 Divide line 6 by 57.330 and multiply by 100	S_{gw} = ~~45.13~~ 56.90				

SURFACE WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 (45)	1	45	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		3	
1-yr. 24-hr. Rainfall	0 1 (2) 3	1		3	
Distance to Nearest Surface Water	0 1 2 3	2		6	
Physical State	0 1 2 3	1		3	
Total Route Characteristics Score				15	
3 Containment	0 1 2 3	1		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	7	8	
Total Waste Characteristics Score			25	26	
5 Targets					4.5
Surface Water Use	0 1 2 (3)	3	9	9	
Distance to a Sensitive Environment	0 1 2 (3)	2	6	6	
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 (35) 40	1	35	40	
Total Targets Score			50	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			56,250	64,350	
7 Divide line 6 by 64,350 and multiply by 100	S_{sw} = 87.41				

AIR ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multiplier	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 = 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					

	S	S^2
Groundwater Route Score (S_{gw})	~~45.13~~ 56.90	~~2036.7~~ 3237.6
Surface Water Route Score (S_{sw})	87.41	7640.5
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		~~9677.2~~ 10878.1
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		~~98.37~~ 104.30
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} \,/\, 1.73$		S_M = ~~56.86~~ 60.29

WORKSHEET FOR COMPUTING S_M

FIRE AND EXPLOSION WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Containment	1 3	1		3	7.1
2 Waste Characteristics					
Direct Evidence	0 3	1		3	7.2
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	1 •		8	
Total Waste Characteristics Score				20	
3 Targets					
Distance to Nearest Population	0 1 2 3 4 5	1		5	7.3
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 5 by 1,440 and multiply by 100	S_{FE} = N/A				

DIRECT CONTACT WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Incident	0 45	1	0	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	3	8.2
3 Containment	0 (15)	1	15	15	8.3
4 Waste Characteristics Toxicity	0 1 2 (3)	5	15	15	8.4
5 Targets					8.5
Population Within a 1-Mile Radius	0 1 (2) 3 4 5	4	8	20	
Distance to a Critical Habitat	(0) 1 2 3	4	0	12	
Total Targets Score			8	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			5,400	21,600	
7 Divide line 6 by 21,600 and multiply by 100	S_{DC} = 25				

HRS DOCUMENTATION RECORDS

June 28, 1982

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. 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 that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: New Windsor Landfill

LOCATION: Town of New Windsor, New York

GROUND WATER ROUTE

1 OBSERVED RELEASE None

Contaminants detected (5 maximum):

Rationale for attributing the contaminants to the facility:

* * *

2 ROUTE CHARACTERISTICS /

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

Marsh Deposits

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

7.98' in W1
9.35' in W2
11.96' in W3

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

21' measured in W3

Net Precipitation

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

46" mean annual
Ref: Climates of the States, NOAA, 1978

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

29" mean annual
Ref: EPA, HW-10, 1984

Net precipitation (subtract the above figures):

17" mean annual

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Combination of clean fill and refuse

Permeability associated with soil type:

Ranging from 3.15×10^{-5} to 5.63×10^{-3} cm/sec

Physical State

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

Sludge solvent and municipal
Solid wastes

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Landfill cover is assumed not to be of adequate impermeability and no apparent diversion systems are in place.

Method with highest score:

Score=3

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Various heavy metals (Including lead)
Benzo (A) Pyrene
PCB (Identified in soil samples)

Compound with highest score:
All three compounds have same score

Toxicity = 3
Persistence = 3 Score = 18

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):

5-10 drums observed on site
7,500-9,000 drums allegedly deposited at site
Score = 7

Basis of estimating and/or computing waste quantity:

Alleged depositing of drums by Lightron Company of Cornwall and Newburgh Barrel and Drum. Ref: Phase I NYS. Registry Form, 6-15-83.

* * *

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Drinking Water

Score = 3

Distance to Nearest Well

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

Nearby wells south and southeast.

Distance to above well or building:

Less than 2,000 ft.

Score = 4

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:

Wells of local residences/commercial establishments
Pop-445 (REF: New York State Atlas of Community Water Systems Sources 1982)

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):

Unknown

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

445 (REF: New York State Atlas of Community Water Systems Sources 1982)
Score = 2
Matrix Score = 20

SURFACE WATER ROUTE

1 OBSERVED RELEASE

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

Lead	(Potential surface release from compounds found in soil)
Zinc	Flüroanthrene
Cynanide	Pyrene
Phenols	Phenathrene
	PCB

Rationale for attributing the contaminants to the facility:

Laboratory analysis of leachate observed emanating from site.

* * *

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

1-2% Closed landfill in primarily flat at an elevation of approximately 15-20 above surrounding wetland.

Name/description of nearest downslope surface water:

Small un-named stream draining wetland in which landfill is located

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

25-30%

Is the facility located either totally or partially in surface water?

Facility is located in the wetland

Is the facility completely surrounded by areas of higher elevation?

No

1-Year 24-Hour Rainfall in Inches

3.5" (REF: HRS Users Manual)

2.5? S.L.R.

Distance to Nearest Downslope Surface Water

Immediately adjacent to landfill

Physical State of Waste

Unknown

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Landfill cover is assumed not to be of adequate impermeability and no apparent diversion systems are in place.

Method with highest score:

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Various Heavy Metals - Lead, Zinc, Cyanide
Benzo (A) Pyrene (In soil sample)
PCB

Compound with highest score:

All compounds listed above have same score

Toxicity = 3
Persistence = 3 Score = 18

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):

5-10 Drums observed on site
7,500 - 9,000 drums allegedly deposed of at site
Score = 7
Ref: Phase I NYS Registry Form, 6-15-83

Basis of estimating and/or computing waste quantity:

Alleged disposal of drums by Lightron Company of Cornwall and Newburgh Barrel and Drum

* * *

5 TARGETS

Surface Water Use

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

Stream flowing around and away from site eventually drains into Lake Washington which is a water supply source from the City of Newburgh.

Score = 3

Is there tidal influence?

No

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:

Site lies within and adjacent to a freshwater wetland

Score = 3

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

None

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:

Lake Washington is located approximately 2,500 feet downstream from the site. The Lake is a drinking water source for the City of Newburgh with a population serving approximately 24,000 people. Intake structure for the drinking water system is located less than 1 mile downstream from the site.

Score = 35

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

N/A

Total population served:

Name/description of nearest of above water bodies:

Silver Stream
Lake Washington

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

2,500 feet to Lake Washington and less than 1 mile to water intake structure.

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

No observed releases were indicated during the field investigation. An HNU Photoionizer was used during all on-site activities including drilling events.

Date and location of detection of contaminants

N/A

Methods used to detect the contaminants:

N/A

Rationale for attributing the contaminants to the site:

N/A

* * *

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

N/A

Most incompatible pair of compounds:

N/A

Toxicity

Most toxic compound:

N/A

Hazardous Waste Quantity

Total quantity of hazardous waste:

N/A

Basis of estimating and/or computing waste quantity:

N/A

* * *

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**

No observed release.

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:

N/A

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

N/A

Land Use

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

N/A

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

N/A

Distance to residential area, if 2 miles or less:

N/A

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

N/A

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

N/A

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

N/A

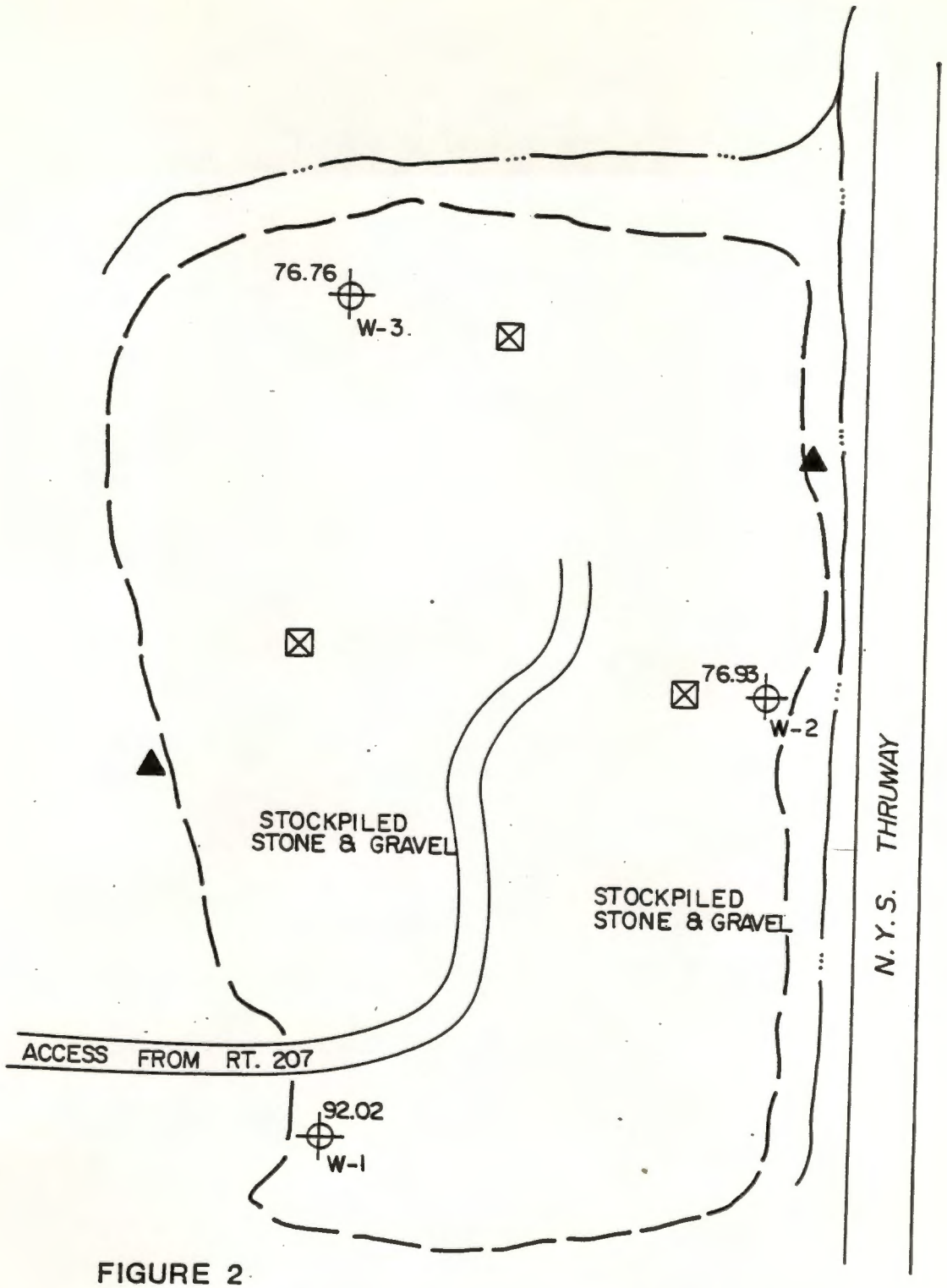


FIGURE 2

SITE SKETCH

N.T.S.

LEGEND

- MONITORING WELL LOCATION WITH GROUND-WATER ELEVATION
- APPROXIMATE LOCATION OF INTERMITANT STREAMS
- APPROXIMATE SITE BOUNDARY
- LOCATION OF LEACHATE SAMPLE
- TEST PIT LOCATION

EPA 2070-13

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	336019

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
New Windsor Landfill	Silver Stream Road

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
New Windsor	NY	12550	Orange		

09 COORDINATES LATITUDE	LONGITUDE
41 29 50.__	074 04 50.__

10 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☒ E. MUNICIPAL
☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
7 / 31 / 84 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	1962 / 1976 (BEGINNING YEAR / ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☒ F. STATE CONTRACTOR Wehran Engineering (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Charles T. Bazydlo	Senior Scientist	Wehran Engineering	(914) 343-0660
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Kevin Burger	Senior Scientist	Wehran Engineering	(914) 343-0660
William Soukup	Senior Scientist	Wehran Engineering	(914 343-0660
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	1:00 p.m.	Clear, Warm

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Dennis G. Fenn	Wehran Engineering	(914) 343-0660

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Charles T. Bazydlo		Wehran Engineering	914-343-0660	11 / 21 / 84 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	336019

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☒ C. SLUDGE
- ☐ D. OTHER Unknown (Specify)
- ☐ E. SLURRY
- ☐ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

- TONS: ____
- CUBIC YARDS: ____
- NO. OF DRUMS: 3,000-9,000

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	3,000	Drums	Allegedly dumped by Lightron Company
OLW	OILY WASTE			
SOL	SOLVENTS	6,000	Drums	Allegedly dumped by Newburgh Barrel & Drum
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers) Unknown

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers) Unknown

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

DEC File
Previous EPA Form 2070-13 Prepared by Ecological Analyst (EA) Dated 5/26/83.

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	336019

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 445
02 ☒ OBSERVED (DATE: 8/21/84) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Groundwater contamination determined from laboratory analysis of samples from the monitoring wells installed on-site.

01 ☒ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 24,000
02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Leachate seeps along the eastern portion of the site boundaries . Observed flowing into stream.

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED:
02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED:
02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED:
02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: (Acres)
02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Soil contamination determined from laboratory analysis of soil samples obtained from the site.

01 ☒ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 24,000
02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Site drainage flows into stream that feeds into Lake Washington which is utilized for municipal water supply.

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

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

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	336019

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include names(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

5-10 drums were observed exposed at the site. Leachate seeps observed flowing from site.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

Potential for direct contact due to lack of security.

III. TOTAL POPULATION POTENTIALLY AFFECTED: Unknown

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)

Site visits and observations. Laboratory analysis of groundwater/soil samples retrieved from site.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	336019

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☒ C. DRUMS, ABOVE GROUND	5-10 (observed)	
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☒ F. LANDFILL	unknown	
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

14+ (Acres)

07 COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

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

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

Landfill was constructed without bottom liner and waste placed in wetland area.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

NYSDEC File Information
Site Inspection
Previous EPA Form 2070-13 prepared by EA and dated 5/26/83.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	336019

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☒	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☒	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 1-2 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☒ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 50

03 DISTANCE TO NEAREST DRINKING WATER WELL < 1/4 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
5 (ft)	Northeast	_____ (ft)	_____ (gpd)	☐ YES ☐ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

Used for drinking water, no municipal supply.

10 RECHARGE AREA

☐ YES
☐ NO

COMMENTS:

11 DISCHARGE AREA

☒ YES
☐ NO

COMMENTS: Site is a filled wetland with groundwater discharges probable

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Silver Stream	☐	< 1/4 (mi)
_____	☐	_____ (mi)
Washington Lake	☐	1-2 (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE: A. _____ NO. OF PERSONS
TWO (2) MILES OF SITE: B. _____ NO. OF PERSONS
THREE (3) MILES OF SITE: C. _____ NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

< 1/4 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

_____

04 DISTANCE TO NEAREST OFF-SITE BUILDING

< 1/4 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural village, densely populated urban area)

City of Newburgh in vicinity of site; otherwise rural/suburban

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	336019

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one) Undetermined in borings

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
undetermined (ft)	unknown (ft)	unknown	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
12 (in)	2.5 (in)	< 5 %	NE	< 5 %

09 FLOOD POTENTIAL: SITE IS IN N/A YEAR FLOODPLAIN

10: N/A ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE	OTHER
A. _____ (mi)	B. Adjacent (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species): None Known (mi)

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. < 1/4 (mi)	B. < 1/4 (mi)	C. _____ (mi)	D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Site is open, flat and in the first stages of revegetation Low-lying wooded lands surround the site. Runoff from the surrounding area drains to the site via small low flowing streams on both the west and east sides of the site.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site Inspection
Previously EPA Form 2070-13 . Prepared by EA and dated 5/26/83.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	336019

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	3	CompuChem Laboratories	Present
SURFACE WATER	1	CompuChem Laboratories	Present
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	1	CompuChem Laboratories	Present
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HNU Photoionizer	Readings taken during site investigation
HNU Photoionizer	Readings of soil samples during test borings

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☐ AERIAL

02 IN CUSTODY OF Wehran Engineering
(Name of organization or individual)

03 MAPS ☐ YES ☐ NO

04 LOCATION OF MAPS

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

Three test borings to a maximum depth of 35 feet; split spoon samples, monitoring wells installed; in-situ permeability test conducted.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Field Investigation

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	336019

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
Town of New Windsor			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
555 Union Avenue			

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
New Windsor, NY 12550					

PARENT COMPANY (If applicable)

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NYSDEC Files

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	336019

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
In-Active	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER
12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
14 CITY	15 STATE / 16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER
12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
14 CITY	15 STATE / 16 ZIP CODE

01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER
12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
14 CITY	15 STATE / 16 ZIP CODE

01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER
12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
14 CITY	15 STATE / 16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	336019

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

III. OFF-SITE GENERATOR(S) (Alleged)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Lightron Company		Tuck Tape Company	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
Cornwall	NY	Beacon	NY
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Newburgh Barrel & Drum			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
Newburgh	NY		

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
—			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NYSDEC Region 3 Files
Previous EPA Form 2070-13 Prepared by EA and Dated 5/26/83.

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	336019

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

None

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	336019

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

None

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SECTION 6.0
PRELIMINARY REMEDIAL MEASURES COST ESTIMATE

SECTION 6.0
PRELIMINARY REMEDIAL MEASURES COST ESTIMATE

6.1 GENERAL

The remedial measures presented in this section were selected based upon the technical feasibility and practicality of implementation. Three alternatives have been evaluated and a cost estimate for each has been prepared. Each cost is based upon current unit prices and sound engineering judgment as to the applicability of these prices. Additional field investigation would be required in order to determine which of the remedial alternatives, or combination thereof, would be most appropriate for this site.

6.2 CAPPING

We have assumed that the majority of the wastes at this site were placed in a swamp environment without prior excavation. Boring logs have indicated that the waste is in direct contact with the groundwater that is potentially discharging into the wetland area. Construction of a low-permeability cap composed of either natural clay and/or synthetic material at the site would serve to curtail the infiltration of precipitation through the deposited waste. However, use of a low-permeability cap alone would not eliminate the generation of leachate from groundwater infiltration.

The cap would likely consist of at least two feet of compacted clay, which would achieve a permeability of 1.0×10^{-7} cm/sec or less. A sand layer would then be placed over the clay cap to serve as a drainage layer for precipitation. Above the drain layer would be at least six inches of topsoil of sufficient quality to support vegetative cover. The surface of the cap would be graded to promote runoff in an appropriate manner. Assuming a site area of ten acres, and a suitable source for the clay (borrow area) within 15 miles of the site, the cost for this alternative would range from $700,000 to $900,000. This would include design, construction, and inspection/ certification.

6.3 DRUM REMOVAL

A small number of exposed drums have been observed at the site. Additionally, soil samples from the site have been found to be contaminated. Such contamination may be resulting from the placement of drummed waste that has been alledgedly placed at this site. As such, the focus of this remedial alternative would be to exhume, contain, and remove these drums to an appropriate "secure" disposal facility.

In order to implement this task, a detailed, comprehensive operations plan would need to be developed which would likely include the following considerations:

- Develop and conduct a waste analysis program
- Develop a Health and Safety Plan
- Development of a removal plan
- Continuous air monitoring during all activities
- Use of non-sparking tools
- Equipment decontamination program
- Use of splash and explosion shields
- Radiation monitoring (if appropriate)
- Removing wastes from punctured drums into secure containers
- Use of "overpack" drums
- Depressurizing drums on site
- Construction of a drum staging area
- Implementation of spill containment procedures
- Full compliance with all applicable regualtions for handling and transport
- Proper labeling and manifesting protocol

The cost for such a drum removal operation would be highly dependent upon the number of drums excavated from the site, the condition of the drums once excavated, as well as the amount of soil that may have become contaminated from any deteriorated or broken drums. Information from NYSDEC files indicate that as many as 3,000 to 9,000 drums of various waste

materials may have been deposited at the landfill. The initial metal detector survey conducted at the site did not find any evidence of large areas of metal materials being present below the surface.

Due to the fact that a portion of the manufacturing/industrial establishments that have been alleged to have utilized this facility were drum recyclers, it is feasible that some of the waste material contained in these drums may have been deposited in the landfill by emptying their contents into the landfill and removing the empty drums off site. More extensive metal detector surveys and soil test pits may be useful in determining the actual number of drums deposited below grade at this site. Thus, the majority of clean-up efforts at this site may include the removal of contaminated soil and not whole drums.

Presented below are cost range estimates for the removal of various numbers of drummed waste material. These figures may vary according to the type of waste material contained at the site.

Number of Drums	Estimate ($)
200	250,000 - 340,000
1,000	1,250,000 - 1,700,000
2,000	2,500,000 - 3,400,000

6.4 PERIMETER RETAINING WALL/LEACHATE COLLECTION LINE

Considering the potentially large amounts of drummed waste material that could, according to past file information, be present at the site, an alternative method of site remediation would consist of the installation of a downgradient perimeter cut-off retaining wall keyed into the marsh deposits. The objective of this cut-off wall remediation plan would be to reduce or eliminate any contaminated groundwater above the marsh deposits from discharging into the surrounding wetland area and surface water.

In order to prohibit leachate from building up within the site, a perimeter perforated collection line would be installed interior to the wall. The line would be constructed of perforated PVC pipe surrounded by a gravel

drain layer or "Geo-fabric" filter. The collection line would likely transfer the leachate to sumps from which it would be pumped to a holding tank for periodic off-site disposal, or treated at an on-site facility. The cost for this remediation option could range from $300,000 to $600,000.

Although each of the preceeding options have been discussed separately, a combination of several alternatives may be required to provide adequate abatement. For example, the capping of the site would reduce the amount of rainfall that could percolate through the site and thus become contaminated, can be reduced. This reduction in percolated rainfall, combined with a perimeter cut-off wall, would have the added advantage of reducing the amount of leachate that would have to be collected and thus treated before disposal. Further evaluation would be necessary to determine the potential need to extend a groundwater cut-off wall around the entire site in order to obtain an acceptable interruption of groundwater infiltration into the waste. Combined alternatives such as these may affect the cost ranges presented above, and should be given appropriate consideration.

APPENDICES

APPENDIX A

COMPUCHEM
LABORATORIES

November 8, 1984

Mr. Charles Bazydlo
Wehran Engineering
666 East Main Street
Middletown, NY 10940

RE: Data Inquiry CC# 34275/TP-Comp

Dear Mr. Bazydlo:

Enclosed is an amended compound list that reflects the correct footnote for the acid fraction of sample number 34275.

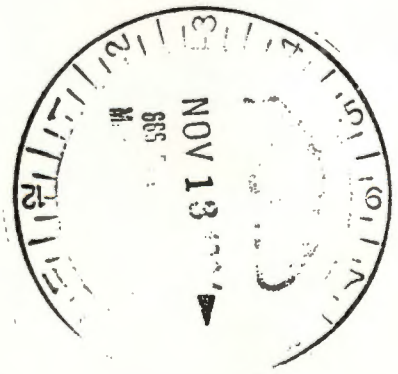
We apologize for any inconvenience this may have caused you. If you have additional questions please do not hesitate to call me.

Sincerely,

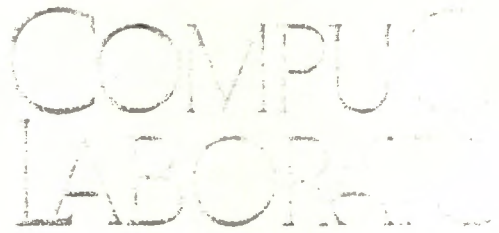
Diana A. Scammell

Diana A. Scammell
Technical Specialist, Operations

cc: Robert Meierer
File #34275



COMPUCHEM LABORATORIES, INC. · P.O. Box 12652 · 3308 Chapel Hill/Nelson Highway · Research Triangle Park, NC 27709 · (919) 549-8263


COMPU
LABOR

COMPOUND LIST -- ACID EXTRACTABLE ORGANICS

SAMPLE IDENTIFIER: TP-COMP
COMPUCHEM SAMPLE NUMBER: 34275

		CONCENTRATION (UG/KG)	DETECTION† LIMIT (UG/KG)
1A.	PHENOL	BDL	5000
2A.	2-CHLOROPHENOL	BDL	5000
3A.	2-NITROPHENOL	BDL	5000
4A.	2,4-DIMETHYLPHENOL	BDL	5000
5A.	2,4-DICHLOROPHENOL	BDL	5000
6A.	P-CHLORO-M-CRESOL	BDL	5000
7A.	2,4,6-TRICHLOROPHENOL	BDL	5000
8A.	2,4-DINITROPHENOL	BDL	50000
9A.	4-NITROPHENOL	BDL	5000
10A.	4,6-DINITRO-O-CRESOL	BDL	50000
11A.	PENTACHLOROPHENOL	BDL	5000

BDL=BELOW DETECTION LIMIT

†See Data Report Notice. Additionally, sample analyzed using a 10:1 dilution because of the presence of large amounts of non-priority pollutant material, thus the higher than normal detection limits.

COMPUCHEM
LABORATORIES

October 18, 1984

Mr. Kevin Berger
Wehran Engineering
666 East Main Street
Middletown, NY 10940

Dear Mr. Berger:

Thank you for selecting CompuChem® Laboratories for your recent sample analysis. We have completed the analysis that you requested and have enclosed a summary of the CompuChem® data for your review. Additional data details are available for purchase if you require them.

As you know, EPA has proposed detection limits for the priority pollutants in the December 3, 1979, Federal Register, and we have reported all priority pollutant concentrations which have exceeded these limits (or their equivalent for solid matrices). In addition, we have permanently stored a complete record of your data on magnetic tape. This includes chromatograms, mass spectra, calibration and quality control data for the organics. Therefore, your original data is readily available for future reference. Should you require additional information from your data base, please contact us at 1/800-334-8525.

In order to expedite data to you, we have forwarded the results for all completed analyses. If you submitted more samples than are included in the enclosed results, the data will be forthcoming upon completion of our final review.

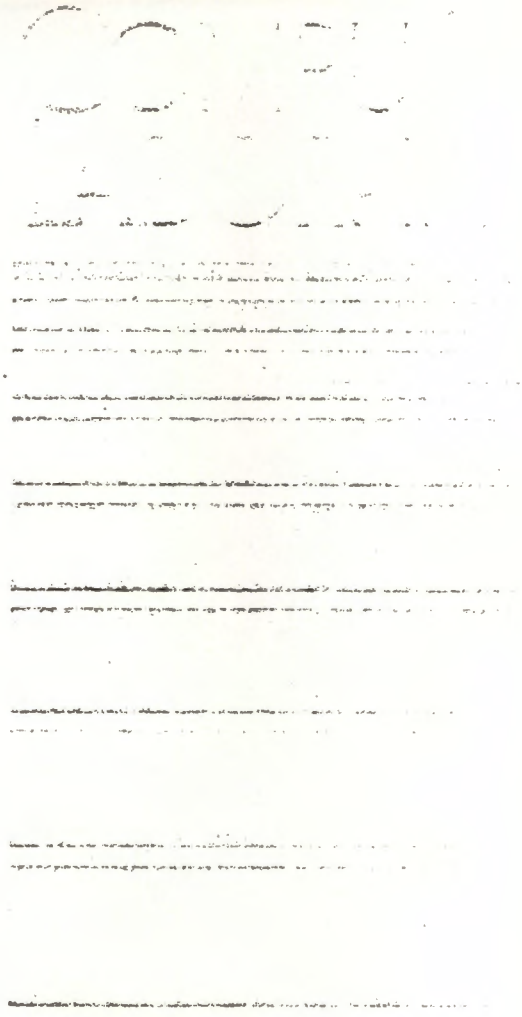
Your confidence in our CompuChem® service is appreciated. We look forward to a continuing association.

Sincerely,

Customer Service Dept.
CompuChem®

Enclosure:

Report: NEW WINDSOR MW-3 - 34080



DATA REPORT NOTICE

CompuChem employs Methods 624 and 625 for GC/MS analysis of organics in liquid matrices. These methods were proposed on December 3, 1979 by the U.S.E.P.A. in Volume 44 of the Federal Register. These methods were subsequently revised and reissued in July, 1982 as publication EPA-600/4-82-057. The EPA Environmental Monitoring and Support Laboratory (EMSL-Cincinnati) has subsequently issued method modifications which provide for the analysis of solid matrices. These modifications specify changes in the sample preparation procedures.

Additionally, for solid samples detection limits and any analytical results reported are based on processing the method specified sample size of as-received material.

The referenced methods are no longer appropriate for several of the original priority pollutant compounds. This is due to either the deletion from the toxic pollutant list (40 CFR Part 401) by EPA or the determination by EPA that the referenced methods may not be optimized for certain compounds (EPA-600/4-82-057) originally incorporated by the methods.

CompuChem® presents these compounds in its sample data report for completeness as many of the government compound list forms continue to display the affected compounds. For consistency, these compounds are reported as "BDL" or "Below Detection Limit" as they are either not likely to exist in the sample or are not likely to be detected by the method. Those compounds which have actually been deleted are listed below with the Federal Register deletion reference.

Compound Name	GC/MS Fraction	Federal Register	Date
Dichlorodifluoromethane	Volatile	46FR2264	1/8/81
*Trichlorofluoromethane	Volatile	46FR2264	1/8/81
Bis(Chloromethyl)Ether	Volatile	46FR10723	2/4/81

*While this compound has been deleted, CompuChem® continues to identify and quantitate for it.

COMPUCHEM LABORATORIES

REPORT OF DATA

SAMPLE IDENTIFIER: NEW WINDSOR MW-3

COMPUCHEM SAMPLE NUMBER: 34080

SUBMITTED TO:

Mr. Kevin Berger
Wehran Engineering
666 East Main Street
Middletown, NY 10940

Diana A. Scammell

DIANA A. SCAMMELL
TECHNICAL SPECIALIST, OPERATIONS

R. L. MYERS, PH.D., PRESIDENT

ROBERT E. MEIERER
DIRECTOR OF QUALITY ASSURANCE

COMPOUND LIST - VOLATILES ORGANICS

SAMPLE IDENTIFIER: NEW WINDSOR MW-3
COMPUCHEM SAMPLE NUMBER: 34080

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1V.	CHLOROMETHANE	BDL	10
2V.	VINYL CHLORIDE	BDL	10
3V.	CHLOROETHANE	BDL	10
4V.	BROMOMETHANE	BDL	10
5V.	ACROLEIN	BDL	100
6V.	ACRYLONITRILE	BDL	100
7V.	METHYLENE CHLORIDE	NDB*	10
8V.	TRICHLOROFLUOROMETHANE	BDL	10
9V.	1,1-DICHLOROETHYLENE	BDL	10
10V.	1,1-DICHLOROETHANE	BDL	10
11V.	TRANS-1,2-DICHLOROETHYLENE	BDL	10
12V.	CHLOROFORM	BDL	10
13V.	1,2-DICHLOROETHANE	BDL	10
14V.	1,1,1-TRICHLOROETHANE	BDL	10
15V.	CARBON TETRACHLORIDE	BDL	10
16V.	BROMODICHLOROMETHANE	BDL	10
17V.	1,2-DICHLOROPROPANE	BDL	10
18V.	TRANS-1,3-DICHLOROPROPENE	BDL	10
19V.	TRICHLOROETHYLENE	BDL	10
20V.	BENZENE	BDL	10
21V.	CIS-1,3-DICHLOROPROPENE	BDL	10
22V.	1,1,2-TRICHLOROETHANE	BDL	10
23V.	DIBROMOCHLOROMETHANE	BDL	10
24V.	BROMOFORM	BDL	10
25V.	1,1,2,2-TETRACHLOROETHYLENE	BDL	10
26V.	1,1,2,2-TETRACHLOROETHANE	BDL	10
27V.	TOLUENE	BDL	10
28V.	CHLOROBENZENE	BDL	10
29V.	ETHYLBENZENE	BDL	10
30V.	2-CHLOROETHYL VINYL ETHER	BDL	10
31V.	DICHLORODIFLUOROMETHANE†	BDL	
32V.	BIS(CHLOROMETHYL)ETHER†	BDL	

BDL=BELOW DETECTION LIMIT

†See Data Report Notice
*See Quality Assurance Notice

LABORATORY CHRONICLE

SAMPLE IDENTIFIER: NEW WINDSOR MW-3
COMPUCHEM SAMPLE NUMBER: 34080

	Date
Received/Refrigerated	08/22/84
Organics	
Extracted	08/29/84 - 10/11/84*
Analyzed	
1. Volatiles	08/24/84
2. Acids	09/07/84
3. Base/Neutrals	10/12/84
4. Pesticides/PCBS	10/12/84
Inorganics	
1. Metals	08/31/84
2. Cyanide	08/31/84
3. Phenol	08/23/84
Conventionals	
- Chloride	08/29/84
- Chemical Oxygen Demand	08/28/84
- Total Suspended Solids	08/27/84
- Total Dissolved Solids	08/27/84

*Base/Neutral/Pesticides fraction re-extracted because initial endeavors did not meet quality control acceptance criteria.

QUALITY ASSURANCE NOTICE

CompuChem Sample No. 34080

Although not required by the Federal Register, December 3, 1979 (modified July, 1982) Volatile Method 624 procedure, the laboratory prepares VOA blanks when compositing water samples and preparing low and medium level hazardous waste VOA samples. This is to insure that the glassware used is free from contamination, and to monitor the possibility of cross-contamination from high levels of volatile organic compounds in some samples and the laboratory atmosphere.

The compositing or method blank (#34193) prepared with this sample contained the compound(s) listed below. Sample data associated with this blank have been adjusted and/or flagged according to the EPA-recommended methods.

Compound(s)	Concentration Found In Sample (ug/l)	Applicable Qualifier*
Methylene Chloride	13	NDB

The following data qualifiers are used by EPA and adopted by CompuChem® for reporting purposes:

NDB = The concentration of a priority pollutant in the blank is greater than 1/2 the detection limit and is greater than 1/2 the concentration in the sample.

*No adjusted sample concentration is reported.

COMPOUND LIST -- ACID EXTRACTABLE ORGANICS

SAMPLE IDENTIFIER: NEW WINDSOR MW-3
COMPUCHEM SAMPLE NUMBER: 34080

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1A.	PHENOL	BDL	25
2A.	2-CHLOROPHENOL	BDL	25
3A.	2-NITROPHENOL	BDL	25
4A.	2,4-DIMETHYLPHENOL	BDL	25
5A.	2,4-DICHLOROPHENOL	BDL	25
6A.	P-CHLORO-M-CRESOL	BDL	25
7A.	2,4,6-TRICHLOROPHENOL	BDL	25
8A.	2,4-DINITROPHENOL	BDL	250
9A.	4-NITROPHENOL	BDL	25
10A.	4,6-DINITRO-O-CRESOL	BDL	250
11A.	PENTACHLOROPHENOL	BDL	25

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- BASE-NEUTRAL EXTRACTABLE ORGANICS

SAMPLE IDENTIFIER: NEW WINDSOR MW-3
COMPUCHEM SAMPLE NUMBER: 34080

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1B.	N-NITROSODIMETHYLAMINE	BDL	10
2B.	BIS (2-CHLOROETHYL) ETHER	BDL	10
3B.	1,3-DICHLOROBENZENE	BDL	10
4B.	1,4-DICHLOROBENZENE	BDL	10
5B.	1,2-DICHLOROBENZENE	BDL	10
6B.	BIS (2-CHLOROISOPROPYL) ETHER	BDL	10
7B.	HEXACHLOROETHANE	BDL	10
8B.	N-NITROSODI-N-PROPYLAMINE	BDL	10
9B.	NITROBENZENE	BDL	10
10B.	ISOPHORONE	BDL	10
11B.	BIS(2-CHLOROETHOXY) METHANE	BDL	10
12B.	1,2,4-TRICHLOROBENZENE	BDL	10
13B.	NAPHTHALENE	BDL	10
14B.	HEXACHLOROBUTADIENE	BDL	10
15B.	HEXACHLOROCYCLOPENTADIENE	BDL	10
16B.	2-CHLORONAPHTHALENE	BDL	10
17B.	DIMETHYLPHTHALATE	BDL	10
18B.	ACENAPHTHYLENE	BDL	10
19B.	2,6-DINITROTOLUENE	BDL	10
20B.	ACENAPHTHENE	BDL	10
21B.	2,4-DINITROTOLUENE	BDL	10
22B.	DIETHYLPHTHALATE	BDL	10
23B.	FLUORENE	BDL	10
24B.	4-CHLOROPHENYL PHENYL ETHER	BDL	10
25B.	DIPHENYLAMINE (N-NITROSO)	BDL	10
26B.	1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	BDL	10
27B.	4-BROMOPHENYL PHENYL ETHER	BDL	10
28B.	HEXACHLOROBENZENE	BDL	10

(Continued)

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- BASE-NEUTRAL EXTRACTABLE ORGANICS (Page Two)

SAMPLE IDENTIFIER: NEW WINDSOR MW-3
COMPUCHEM SAMPLE NUMBER: 34080

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
29B.	PHENANTHRENE	BDL	10
30B.	ANTHRACENE	BDL	10
31B.	DI-N-BUTYLPHTHALATE	BDL	10
32B.	FLUORANTHENE	BDL	10
33B.	BENZIDINE	BDL	10
34B.	PYRENE	BDL	10
35B.	BUTYLBENZYLPHTHALATE	BDL	10
36B.	BENZO(A)ANTHRACENE	BDL	10
37B.	3,3'-DICHLOROBENZIDINE	BDL	10
38B.	CHRYSENE	BDL	10
39B.	BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10
40B.	DI-N-OCTYLPHTHALATE	BDL	10
41B.	BENZO(B)FLUORANTHENE	BDL	10
42B.	BENZO(K)FLUORANTHENE	BDL	10
43B.	BENZO(A)PYRENE	BDL	10
44B.	INDENO(1,2,3-C,D)PYRENE	BDL	25
45B.	DIBENZO(A,H)ANTHRACENE	BDL	25
46B.	BENZO(G,H,I)PERYLENE	BDL	25

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- PESTICIDES/PCB'S

SAMPLE IDENTIFIER: NEW WINDSOR MW-3
COMPUCHEM SAMPLE NUMBER: 34080

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1P.	ALDRIN	BDL	10
2P.	ALPHA-BHC	BDL	10
3P.	BETA-BHC	BDL	10
4P.	GAMMA-BHC	BDL	10
5P.	DELTA-BHC	BDL	10
6P.	CHLORDANE	BDL	10
7P.	4,4'-DDT	BDL	10
8P.	4,4'-DDE	BDL	10
9P.	4,4'-DDD	BDL	10
10P.	DIELDRIN	BDL	10
11P.	ALPHA-ENDOSULFAN	BDL	10
12P.	BETA-ENDOSULFAN	BDL	10
13P.	ENDOSULFAN SULFATE	BDL	10
14P.	ENDRIN	BDL	10
15P.	ENDRIN ALDEHYDE	BDL	10
16P.	HEPTACHLOR	BDL	10
17P.	HEPTACHLOR EPOXIDE	BDL	10
18P.	PCB-1242	BDL	10
19P.	PCB-1254	BDL	10
20P.	PCB-1221	BDL	10
21P.	PCB-1232	BDL	10
22P.	PCB-1248	BDL	10
23P.	PCB-1260	BDL	10
24P.	PCB-1016	BDL	10
25P.	TOXAPHENE	BDL	10

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- INORGANICS PRIORITY POLLUTANTS

SAMPLE IDENTIFIER: NEW WINDSOR MW-3
COMPUCHEM SAMPLE NUMBER: 34080

	CONCENTRATION (MG/L)	DETECTION LIMIT (MG/L)
1. ANTIMONY, TOTAL	BDL	0.050 3ug/l
2. ARSENIC, TOTAL	BDL	0.050 .025
3. BERYLLIUM, TOTAL	BDL	0.020 3 ug/l
4. CADMIUM, TOTAL	BDL	0.010 = 50 ug/l
5. CHROMIUM, TOTAL	BDL	0.050
6. COPPER, TOTAL	0.36	0.10 1.0
7. LEAD, TOTAL	0.98	0.050 .025
8. MERCURY, TOTAL	BDL	0.00020 —
9. NICKEL, TOTAL	BDL	0.10 .007
10. SELENIUM, TOTAL	BDL	0.010 .02
11. SILVER, TOTAL	BDL	0.050 .05
12. THALLIUM, TOTAL	BDL	0.050 .004
13. ZINC, TOTAL	2.20	0.020 5.0
14. IRON, TOTAL	63	0.30 .3
15. CYANIDE, TOTAL	0.85	0.010 .1 @ MSL
16. PHENOLS, TOTAL	0.030	0.010 .001

BDL=BELOW DETECTION LIMIT

SAMPLE IDENTIFIER: NEW WINDSOR MW-3
COMPUCHEM SAMPLE NUMBER: 34080

	INORGANICS/ CONVENTIONALS	CONCENTRATION (MG/L)	DETECTION LIMIT (MG/L)
1.	CHLORIDE	27	3.0
2.	CHEMICAL OXYGEN DEMAND	30	2
3.	TOTAL SUSPENDED SOLIDS	2100	2
4.	TOTAL DISSOLVED SOLIDS	380	2

COMPUCHEM
LABORATORIES

October 17, 1984

Mr. Kevin Berger
Wehran Engineering
666 East Main Street
Middletown, NY 10940

Dear Mr. Berger:

Thank you for selecting CompuChem® Laboratories for your recent sample analysis. We have completed the analysis that you requested and have enclosed a summary of the CompuChem® data for your review. Additional data details are available for purchase if you require them.

As you know, EPA has proposed detection limits for the priority pollutants in the December 3, 1979, Federal Register, and we have reported all priority pollutant concentrations which have exceeded these limits (or their equivalent for solid matrices). In addition, we have permanently stored a complete record of your data on magnetic tape. This includes chromatograms, mass spectra, calibration and quality control data for the organics. Therefore, your original data is readily available for future reference. Should you require additional information from your data base, please contact us at 1/800-334-8525.

In order to expedite data to you, we have forwarded the results for all completed analyses. If you submitted more samples than are included in the enclosed results, the data will be forthcoming upon completion of our final review.

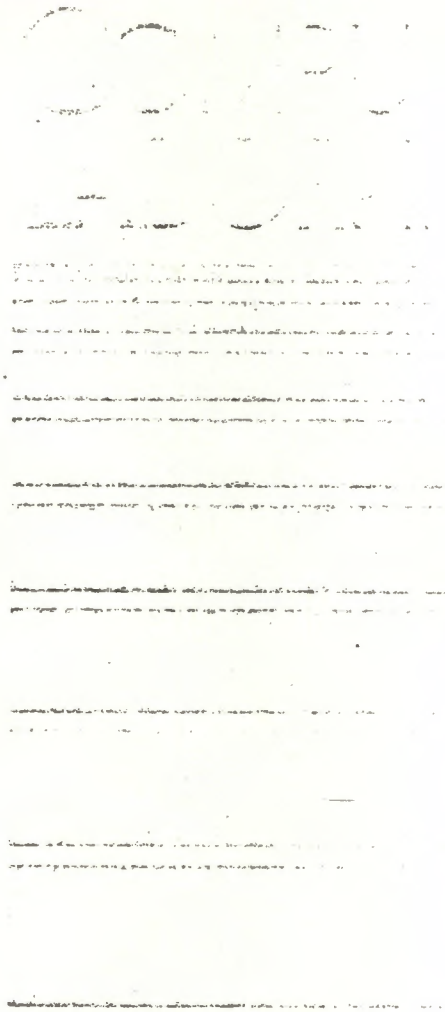
Your confidence in our CompuChem® service is appreciated. We look forward to a continuing association.

Sincerely,

Customer Service Dept.
CompuChem®

Enclosure:

Report: NEW WINDSOR MW-1 - 34068



DATA REPORT NOTICE

CompuChem employs Methods 624 and 625 for GC/MS analysis of organics in liquid matrices. These methods were proposed on December 3, 1979 by the U.S.E.P.A. in Volume 44 of the Federal Register. These methods were subsequently revised and reissued in July, 1982 as publication EPA-600/4-82-057. The EPA Environmental Monitoring and Support Laboratory (EMSL-Cincinnati) has subsequently issued method modifications which provide for the analysis of solid matrices. These modifications specify changes in the sample preparation procedures.

Additionally, for solid samples detection limits and any analytical results reported are based on processing the method specified sample size of as-received material.

The referenced methods are no longer appropriate for several of the original priority pollutant compounds. This is due to either the deletion from the toxic pollutant list (40 CFR Part 401) by EPA or the determination by EPA that the referenced methods may not be optimized for certain compounds (EPA-600/4-82-057) originally incorporated by the methods.

CompuChem® presents these compounds in its sample data report for completeness as many of the government compound list forms continue to display the affected compounds. For consistency, these compounds are reported as "BDL" or "Below Detection Limit" as they are either not likely to exist in the sample or are not likely to be detected by the method. Those compounds which have actually been deleted are listed below with the Federal Register deletion reference.

Compound Name	GC/MS Fraction	Federal Register	Date
Dichlorodifluoromethane	Volatile	46FR2264	1/8/81
*Trichlorofluoromethane	Volatile	46FR2264	1/8/81
Bis(Chloromethyl)Ether	Volatile	46FR10723	2/4/81

*While this compound has been deleted, CompuChem® continues to identify and quantitate for it.

COMPUCHEM
LABORATORIES

REPORT OF DATA

SAMPLE IDENTIFIER: NEW WINDSOR MW-1

COMPUCHEM SAMPLE NUMBER: 34068

SUBMITTED TO:

Mr. Kevin Berger
Wehran Engineering
666 East Main Street
Middletown, NY 10940

for Robert E. Meierer

DIANA A. SCAMMELL
TECHNICAL SPECIALIST, OPERATIONS

R. L. MYERS, PH.D., PRESIDENT

ROBERT E. MEIERER
DIRECTOR OF QUALITY ASSURANCE

COMPOUND LIST - VOLATILES ORGANICS

SAMPLE IDENTIFIER: NEW WINDSOR MW-1
COMPUCHEM SAMPLE NUMBER: 34068

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1V.	CHLOROMETHANE	BDL	10
2V.	VINYL CHLORIDE	BDL	10
3V.	CHLOROETHANE	34	10
4V.	BROMOMETHANE	BDL	10
5V.	ACROLEIN	BDL	100
6V.	ACRYLONITRILE	BDL	100
7V.	METHYLENE CHLORIDE	15 BG*	10
8V.	TRICHLOROFLUOROMETHANE	BDL	10
9V.	1,1-DICHLOROETHYLENE	BDL	10
10V.	1,1-DICHLOROETHANE	BDL	10
11V.	TRANS-1,2-DICHLOROETHYLENE	BDL	10
12V.	CHLOROFORM	BDL	10
13V.	1,2-DICHLOROETHANE	BDL	10
14V.	1,1,1-TRICHLOROETHANE	BDL	10
15V.	CARBON TETRACHLORIDE	BDL	10
16V.	BROMODICHLOROMETHANE	BDL	10
17V.	1,2-DICHLOROPROPANE	BDL	10
18V.	TRANS-1,3-DICHLOROPROPENE	BDL	10
19V.	TRICHLOROETHYLENE	BDL	10
20V.	BENZENE	BDL	10
21V.	CIS-1,3-DICHLOROPROPENE	BDL	10
22V.	1,1,2-TRICHLOROETHANE	BDL	10
23V.	DIBROMOCHLOROMETHANE	BDL	10
24V.	BROMOFORM	BDL	10
25V.	1,1,2,2-TETRACHLOROETHYLENE	BDL	10
26V.	1,1,2,2-TETRACHLOROETHANE	BDL	10
27V.	TOLUENE	BDL	10
28V.	CHLOROBENZENE	BDL	10
29V.	ETHYLBENZENE	BDL	10
30V.	2-CHLOROETHYL VINYL ETHER	BDL	10
31V.	DICHLORODIFLUOROMETHANE†	BDL	
32V.	BIS(CHLOROMETHYL)ETHER†	BDL	

BDL=BELOW DETECTION LIMIT

†See Data Report Notice
*See Quality Assurance Notice

LABORATORY CHRONICLE

SAMPLE IDENTIFIER: NEW WINDSOR MW-1
COMPUCHEM SAMPLE NUMBER: 34068

	Date
Received/Refrigerated	08/22/84
Organics	
Extracted	08/29/84
Analyzed	
1. Volatiles	08/24/84
2. Acids	09/07/84
3. Base/Neutrals	09/07/84
4. Pesticides/PCBS	09/07/84
Inorganics	
1. Metals	08/31/84
2. Cyanide	08/31/84
3. Phenol	08/23/84
Conventionals	
- Chloride	08/29/84
- Chemical Oxygen Demand	08/28/84
- Total Suspended Solids	08/27/84
- Total Dissolved Solids	08/27/84

QUALITY ASSURANCE NOTICE

CompuChem Sample No. 34068

Although not required by the Federal Register, December 3, 1979 (modified July, 1982) Volatile Method 624 procedure, the laboratory prepares VOA blanks when compositing water samples and preparing low and medium level hazardous waste VOA samples. This is to insure that the glassware used is free from contamination, and to monitor the possibility of cross-contamination from high levels of volatile organic compounds in some samples and the laboratory atmosphere.

The compositing or method blank (# 34193) prepared with this sample contained the compound(s) listed below. The concentration in the associated sample has been adjusted and the data flagged with a qualifier.

Compound(s)	Adjusted Sample Concentration (ug/l)	Applicable Qualifier
Methylene Chloride	15	BG

The following data qualifiers are used by EPA and adopted by CompuChem® for reporting purposes:

BG = The concentration in the blank is greater than 1/2 of the method detection limit and is less than or equal to 1/2 the concentration detected in a sample; the concentration in the blank is subtracted from the sample.

COMPOUND LIST -- ACID EXTRACTABLE ORGANICS

SAMPLE IDENTIFIER: NEW WINDSOR MW-1
COMPUCHEM SAMPLE NUMBER: 34068

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1A.	PHENOL	BDL	25
2A.	2-CHLOROPHENOL	BDL	25
3A.	2-NITROPHENOL	BDL	25
4A.	2,4-DIMETHYLPHENOL	BDL	25
5A.	2,4-DICHLOROPHENOL	BDL	25
6A.	P-CHLORO-M-CRESOL	BDL	25
7A.	2,4,6-TRICHLOROPHENOL	BDL	25
8A.	2,4-DINITROPHENOL	BDL	250
9A.	4-NITROPHENOL	BDL	25
10A.	4,6-DINITRO-O-CRESOL	BDL	250
11A.	PENTACHLOROPHENOL	BDL	25

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- BASE-NEUTRAL EXTRACTABLE ORGANICS

SAMPLE IDENTIFIER: NEW WINDSOR MW-1
COMPUCHEM SAMPLE NUMBER: 34068

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1B.	N-NITROSODIMETHYLAMINE	BDL	10
2B.	BIS (2-CHLOROETHYL) ETHER	BDL	10
3B.	1,3-DICHLOROBENZENE	BDL	10
4B.	1,4-DICHLOROBENZENE	BDL	10
5B.	1,2-DICHLOROBENZENE	BDL	10
6B.	BIS (2-CHLOROISOPROPYL) ETHER	BDL	10
7B.	HEXACHLOROETHANE	BDL	10
8B.	N-NITROSODI-N-PROPYLAMINE	BDL	10
9B.	NITROBENZENE	BDL	10
10B.	ISOPHORONE	BDL	10
11B.	BIS(2-CHLOROETHOXY) METHANE	BDL	10
12B.	1,2,4-TRICHLOROBENZENE	BDL	10
13B.	NAPHTHALENE	BDL	10
14B.	HEXACHLOROBUTADIENE	BDL	10
15B.	HEXACHLOROCYCLOPENTADIENE	BDL	10
16B.	2-CHLORONAPHTHALENE	BDL	10
17B.	DIMETHYLPHTHALATE	BDL	10
18B.	ACENAPHTHYLENE	BDL	10
19B.	2,6-DINITROTOLUENE	BDL	10
20B.	ACENAPHTHENE	BDL	10
21B.	2,4-DINITROTOLUENE	BDL	10
22B.	DIETHYLPHTHALATE	BDL	10
23B.	FLUORENE	BDL	10
24B.	4-CHLOROPHENYL PHENYL ETHER	BDL	10
25B.	DIPHENYLAMINE (N-NITROSO)	BDL	10
26B.	1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	BDL	10
27B.	4-BROMOPHENYL PHENYL ETHER	BDL	10
28B.	HEXACHLOROBENZENE	BDL	10

(Continued)

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- BASE-NEUTRAL EXTRACTABLE ORGANICS (Page Two)

SAMPLE IDENTIFIER: NEW WINDSOR MW-1
COMPUCHEM SAMPLE NUMBER: 34068

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
29B.	PHENANTHRENE	BDL	10
30B.	ANTHRACENE	BDL	10
31B.	DI-N-BUTYLPHTHALATE	BDL	10
32B.	FLUORANTHENE	BDL	10
33B.	BENZIDINE	BDL	10
34B.	PYRENE	BDL	10
35B.	BUTYLBENZYLPHTHALATE	BDL	10
36B.	BENZO(A)ANTHRACENE	BDL	10
37B.	3,3'-DICHLOROBENZIDINE	BDL	10
38B.	CHRYSENE	BDL	10
39B.	BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10
40B.	DI-N-OCTYLPHTHALATE	BDL	10
41B.	BENZO(B)FLUORANTHENE	BDL	10
42B.	BENZO(K)FLUORANTHENE	BDL	10
43B.	BENZO(A)PYRENE	BDL	10
44B.	INDENO(1,2,3-C,D)PYRENE	BDL	25
45B.	DIBENZO(A,H)ANTHRACENE	BDL	25
46B.	BENZO(G,H,I)PERYLENE	BDL	25

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- PESTICIDES/PCB'S

SAMPLE IDENTIFIER: NEW WINDSOR MW-1
COMPUCHEM SAMPLE NUMBER: 34068

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1P.	ALDRIN	BDL	10
2P.	ALPHA-BHC	BDL	10
3P.	BETA-BHC	BDL	10
4P.	GAMMA-BHC	BDL	10
5P.	DELTA-BHC	BDL	10
6P.	CHLORDANE	BDL	10
7P.	4,4'-DDT	BDL	10
8P.	4,4'-DDE	BDL	10
9P.	4,4'-DDD	BDL	10
10P.	DIELDRIN	BDL	10
11P.	ALPHA-ENDOSULFAN	BDL	10
12P.	BETA-ENDOSULFAN	BDL	10
13P.	ENDOSULFAN SULFATE	BDL	10
14P.	ENDRIN	BDL	10
15P.	ENDRIN ALDEHYDE	BDL	10
16P.	HEPTACHLOR	BDL	10
17P.	HEPTACHLOR EPOXIDE	BDL	10
18P.	PCB-1242	BDL	10
19P.	PCB-1254	BDL	10
20P.	PCB-1221	BDL	10
21P.	PCB-1232	BDL	10
22P.	PCB-1248	BDL	10
23P.	PCB-1260	BDL	10
24P.	PCB-1016	BDL	10
25P.	TOXAPHENE	BDL	10

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- INORGANICS PRIORITY POLLUTANTS

SAMPLE IDENTIFIER: NEW WINDSOR MW-1
COMPUCHEM SAMPLE NUMBER: 34068

	CONCENTRATION (MG/L)	DETECTION LIMIT (MG/L)
1. ANTIMONY, TOTAL	BDL	0.050
2. ARSENIC, TOTAL	BDL	0.050
3. BERYLLIUM, TOTAL	BDL	0.020
4. CADMIUM, TOTAL	BDL	0.010
5. CHROMIUM, TOTAL	BDL	0.050
6. COPPER, TOTAL	0.10	0.10
7. LEAD, TOTAL	0.12	0.050
8. MERCURY, TOTAL	0.00020	0.00020
9. NICKEL, TOTAL	BDL	0.10
10. SELENIUM, TOTAL	BDL	0.010
11. SILVER, TOTAL	BDL	0.050
12. THALLIUM, TOTAL	BDL	0.050
13. ZINC, TOTAL	0.83	0.020
14. CYANIDE, TOTAL	BDL	0.010
15. PHENOLS, TOTAL	0.10	0.010
16. IRON,TOTAL	93	0.30

BDL=BELOW DETECTION LIMIT

SAMPLE IDENTIFIER: NEW WINDSOR MW-1
COMPUCHEM SAMPLE NUMBER: 34068

	INORGANICS/ CONVENTIONALS	CONCENTRATION (MG/L)	DETECTION LIMIT (MG/L)
1.	CHLORIDE	81	3.0
2.	CHEMICAL OXYGEN DEMAND	100	2
3.	TOTAL SUSPENDED SOLIDS	840	2
4.	TOTAL DISSOLVED SOLIDS	740	2

COMPUCHEM
LABORATORIES

October 11, 1984

Mr. Kevin Berger
Wehran Engineering
666 East Main Street
Middletown, NY 10940

Dear Mr. Berger:

Thank you for selecting CompuChem® Laboratories for your recent sample analysis. We have completed the analysis that you requested and have enclosed a summary of the CompuChem® data for your review. Additional data details are available for purchase if you require them.

As you know, EPA has proposed detection limits for the priority pollutants in the December 3, 1979, Federal Register, and we have reported all priority pollutant concentrations which have exceeded these limits (or their equivalent for solid matrices). In addition, we have permanently stored a complete record of your data on magnetic tape. This includes chromatograms, mass spectra, calibration and quality control data for the organics. Therefore, your original data is readily available for future reference. Should you require additional information from your data base, please contact us at 1/800-334-8525.

In order to expedite data to you, we have forwarded the results for all completed analyses. If you submitted more samples than are included in the enclosed results, the data will be forthcoming upon completion of our final review.

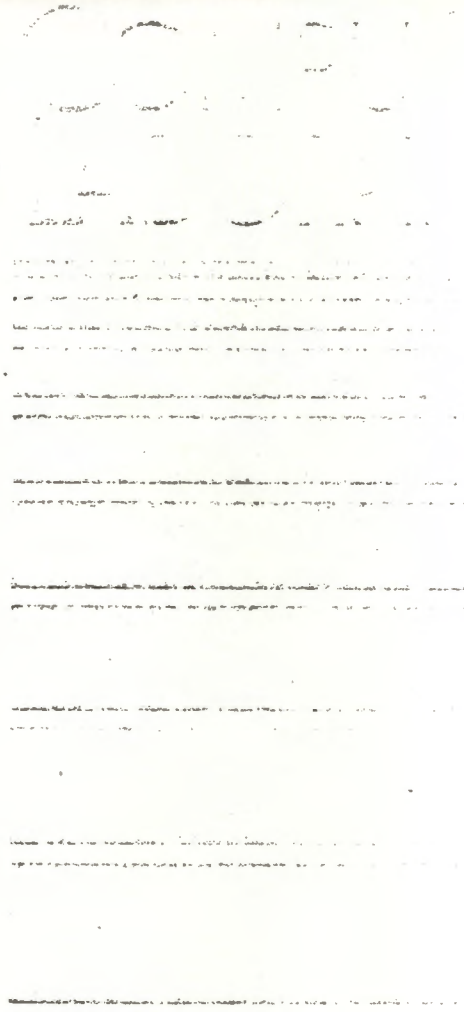
Your confidence in our CompuChem® service is appreciated. We look forward to a continuing association.

Sincerely,

Customer Service Dept.
CompuChem®

Enclosure:

Report: New Windsor MW-2 - 34066



DATA REPORT NOTICE

CompuChem employs Methods 624 and 625 for GC/MS analysis of organics in liquid matrices. These methods were proposed on December 3, 1979 by the U.S.E.P.A. in Volume 44 of the Federal Register. These methods were subsequently revised and reissued in July, 1982 as publication EPA-600/4-82-057. The EPA Environmental Monitoring and Support Laboratory (EMSL-Cincinnati) has subsequently issued method modifications which provide for the analysis of solid matrices. These modifications specify changes in the sample preparation procedures.

Additionally, for solid samples detection limits and any analytical results reported are based on processing the method specified sample size of as-received material.

The referenced methods are no longer appropriate for several of the original priority pollutant compounds. This is due to either the deletion from the toxic pollutant list (40 CFR Part 401) by EPA or the determination by EPA that the referenced methods may not be optimized for certain compounds (EPA-600/4-82-057) originally incorporated by the methods.

CompuChem® presents these compounds in its sample data report for completeness as many of the government compound list forms continue to display the affected compounds. For consistency, these compounds are reported as "BDL" or "Below Detection Limit" as they are either not likely to exist in the sample or are not likely to be detected by the method. Those compounds which have actually been deleted are listed below with the Federal Register deletion reference.

Compound Name	GC/MS Fraction	Federal Register	Date
Dichlorodifluoromethane	Volatile	46FR2264	1/8/81
*Trichlorofluoromethane	Volatile	46FR2264	1/8/81
Bis(Chloromethyl)Ether	Volatile	46FR10723	2/4/81

*While this compound has been deleted, CompuChem® continues to identify and quantitate for it.

COMPUCHEM LABORATORIES

REPORT OF DATA

SAMPLE IDENTIFIER: New Windsor MW-2

COMPUCHEM SAMPLE NUMBER: 34066

SUBMITTED TO:

Mr. Kevin Berger
Wehran Engineering
666 East Main Street
Middletown, NY 10940

Diana A Scammell

DIANA A. SCAMMELL
TECHNICAL SPECIALIST, OPERATIONS

R. L. MYERS, PH.D., PRESIDENT

ROBERT E. MEIERER
DIRECTOR OF QUALITY ASSURANCE

LABORATORY CHRONICLE

SAMPLE IDENTIFIER: New Windsor MW-2
COMPUCHEM SAMPLE NUMBER: 34066

	Date
Received/Refrigerated	08/22/84
Organics	
Extracted	08/29/84 - 09/24/84*
Analyzed	
1. Volatiles	08/24/84
2. Acid	09/07/84 - 09/29/84*
3. Base/Neutrals	09/07/84
4. Pesticides/PCBS	09/07/84
Inorganics	
1. Metals	08/31/84
2. Cyanide	08/31/84
3. Phenols	08/23/84
4. Conventionals	
- Chloride	08/29/84
- COD	08/28/84
- TSS	08/27/84
- TDS	08/27/84

*See Quality Assurance Notice

QUALITY ASSURANCE NOTICE
sample #34066R

Surrogate recoveries for the ACID fraction of this sample fell outside quality control limits in both the original and repeated extractions. It was ascertained that no errors were incurred from calculations, instrument performance, surrogate or internal standard solutions, or sample preparation. We have attributed these surrogate recoveries to the particular sample matrix, rather than laboratory error.

Bob Whitehead
Quality Assurance Specialist

AN3
931220

COMPOUND LIST - VOLATILES ORGANICS

SAMPLE IDENTIFIER: New Windsor MW-2
COMPUCHEM SAMPLE NUMBER: 34066

	CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1V. CHLOROMETHANE	BDL	
2V. VINYL CHLORIDE	BDL	10
3V. CHLOROETHANE	BDL	10
4V. BROMOMETHANE	BDL	10
5V. ACROLEIN	BDL	10
6V. ACRYLONITRILE	BDL	100
7V. METHYLENE CHLORIDE	11(BG)*	100
8V. TRICHLOROFLUOROMETHANE	BDL	10
9V. 1,1-DICHLOROETHYLENE	BDL	10
10V. 1,1-DICHLOROETHANE	BDL	10
11V. TRANS-1,2-DICHLOROETHYLENE	BDL	10
12V. CHLOROFORM	BDL	10
13V. 1,2-DICHLOROETHANE	BDL	10
14V. 1,1,1-TRICHLOROETHANE	BDL	10
15V. CARBON TETRACHLORIDE	BDL	10
16V. BROMODICHLOROMETHANE	BDL	10
17V. 1,2-DICHLOROPROPANE	BDL	10
18V. TRANS-1,3-DICHLOROPROPENE	BDL	10
9V. TRICHLOROETHYLENE	BDL	10
0V. BENZENE	BDL	10
21V. CIS-1,3-DICHLOROPROPENE	BDL	10
2V. 1,1,2-TRICHLOROETHANE	BDL	10
V. DIBROMOCHLOROMETHANE	BDL	10
24V. BROMOFORM	BDL	10
25V. 1,1,2,2-TETRACHLOROETHYLENE	BDL	10
26. 1,1,2,2-TETRACHLOROETHANE	BDL	10
27V. TOLUENE	BDL	10
28V. CHLOROBENZENE	BDL	10
29V. ETHYLBENZENE	BDL	10
0V. 2-CHLOROETHYL VINYL ETHER	BDL	10
1V. DICHLORODIFLUOROMETHANE†	BDL	10
2V. BIS(CHLOROMETHYL)ETHER†	BDL	10
	BDL	10
	BDL	

BDL=BELOW DETECTION LIMIT
*See Quality Assurance Notice
ta Report Notice

QUALITY ASSURANCE NOTICE1

CompuChem Sample No. 34066

Although not required by the Federal Register, December 3, 1979 (modified July, 1982) Volatile Method 624 procedure, the laboratory prepares VOA blanks when compositing water samples and preparing low and medium level hazardous waste VOA samples. This is to insure that the glassware used is free from contamination, and to monitor the possibility of cross-contamination from high levels of volatile organic compounds in some samples and the laboratory atmosphere.

The compositing or method blank (# 34193) prepared with this sample contained the compound(s) listed below. The concentration in the associated sample has been adjusted and the data flagged with a qualifier.

Compound(s)	Adjusted Sample Concentration (ug/l)	Applicable Qualifier
Methylene Chloride	11	BG

The following data qualifiers are used by EPA and adopted by CompuChem® for reporting purposes:

BG = The concentration in the blank is greater than 1/2 of the method detection limit and is less than or equal to 1/2 the concentration detected in a sample; the concentration in the blank is subtracted from the sample.

COMPOUND LIST -- ACID EXTRACTABLE ORGANICS

SAMPLE IDENTIFIER: New Windsor MW-2
COMPUCHEM SAMPLE NUMBER: 34066

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1A.	PHENOL	BDL	25
2A.	2-CHLOROPHENOL	BDL	25
3A.	2-NITROPHENOL	BDL	25
4A.	2,4-DIMETHYLPHENOL	BDL	25
5A.	2,4-DICHLOROPHENOL	BDL	25
6A.	P-CHLORO-M-CRESOL	BDL	25
7A.	2,4,6-TRICHLOROPHENOL	BDL	25
8A.	2,4-DINITROPHENOL	BDL	250
9A.	4-NITROPHENOL	BDL	25
10A.	4,6-DINITRO-O-CRESOL	BDL	250
11A.	PENTACHLOROPHENOL	BDL	25

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- BASE-NEUTRAL EXTRACTABLE ORGANICS

SAMPLE IDENTIFIER: New Windsor MW-2
COMPUCHEM SAMPLE NUMBER: 34066

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1B.	N-NITROSODIMETHYLAMINE	BDL	10
2B.	BIS (2-CHLOROETHYL) ETHER	BDL	10
3B.	1,3-DICHLOROBENZENE	BDL	10
4B.	1,4-DICHLOROBENZENE	BDL	10
5B.	1,2-DICHLOROBENZENE	BDL	10
6B.	BIS (2-CHLOROISOPROPYL) ETHER	BDL	10
7B.	HEXACHLOROETHANE	BDL	10
8B.	N-NITROSODI-N-PROPYLAMINE	BDL	10
9B.	NITROBENZENE	BDL	10
10B.	ISOPHORONE	BDL	10
11B.	BIS(2-CHLOROETHOXY) METHANE	BDL	10
12B.	1,2,4-TRICHLOROBENZENE	BDL	10
13B.	NAPHTHALENE	BDL	10
14B.	HEXACHLOROBUTADIENE	BDL	10
15B.	HEXACHLOROCYCLOPENTADIENE	BDL	10
16B.	2-CHLORONAPHTHALENE	BDL	10
17B.	DIMETHYLPHTHALATE	BDL	10
18B.	ACENAPHTHYLENE	BDL	10
19B.	2,6-DINITROTOLUENE	BDL	10
20B.	ACENAPHTHENE	BDL	10
21B.	2,4-DINITROTOLUENE	BDL	10
22B.	DIETHYLPHTHALATE	BDL	10
23B.	FLUORENE	BDL	10
24B.	4-CHLOROPHENYL PHENYL ETHER	BDL	10
25B.	DIPHENYLAMINE (N-NITROSO)	BDL	10
26B.	1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	BDL	10
27B.	4-BROMOPHENYL PHENYL ETHER	BDL	10
28B.	HEXACHLOROBENZENE	BDL	10

(Continued)

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- BASE-NEUTRAL EXTRACTABLE ORGANICS (Page Two)

SAMPLE IDENTIFIER: New Windsor MW-2
COMPUCHEM SAMPLE NUMBER: 34066

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
29B.	PHENANTHRENE	BDL	10
30B.	ANTHRACENE	BDL	10
31B.	DI-N-BUTYLPHTHALATE	BDL	10
32B.	FLUORANTHENE	BDL	10
33B.	BENZIDINE	BDL	10
34B.	PYRENE	BDL	10
35B.	BUTYLBENZYLPHTHALATE	BDL	10
36B.	BENZO(A)ANTHRACENE	BDL	10
37B.	3,3'-DICHLOROBENZIDINE	BDL	10
38B.	CHRYSENE	BDL	10
39B.	BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10
40B.	DI-N-OCTYLPHTHALATE	BDL	10
41B.	BENZO(B)FLUORANTHENE	BDL	10
42B.	BENZO(K)FLUORANTHENE	BDL	10
43B.	BENZO(A)PYRENE	BDL	10
44B.	INDENO(1,2,3-C,D)PYRENE	BDL	25
45B.	DIBENZO(A,H)ANTHRACENE	BDL	25
46B.	BENZO(G,H,I)PERYLENE	BDL	25

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- PESTICIDES/PCB'S

SAMPLE IDENTIFIER: New Windsor MW-2
COMPUCHEM SAMPLE NUMBER: 34066

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1P.	ALDRIN	BDL	10
2P.	ALPHA-BHC	BDL	10
3P.	BETA-BHC	BDL	10
4P.	GAMMA-BHC	BDL	10
5P.	DELTA-BHC	BDL	10
6P.	CHLORDANE	BDL	10
7P.	4,4'-DDT	BDL	10
8P.	4,4'-DDE	BDL	10
9P.	4,4'-DDD	BDL	10
10P.	DIELDRIN	BDL	10
11P.	ALPHA-ENDOSULFAN	BDL	10
12P.	BETA-ENDOSULFAN	BDL	10
13P.	ENDOSULFAN SULFATE	BDL	10
14P.	ENDRIN	BDL	10
15P.	ENDRIN ALDEHYDE	BDL	10
16P.	HEPTACHLOR	BDL	10
17P.	HEPTACHLOR EPOXIDE	BDL	10
18P.	PCB-1242	BDL	10
19P.	PCB-1254	BDL	10
20P.	PCB-1221	BDL	10
21P.	PCB-1232	BDL	10
22P.	PCB-1248	BDL	10
23P.	PCB-1260	BDL	10
24P.	PCB-1016	BDL	10
25P.	TOXAPHENE	BDL	10

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- INORGANICS PRIORITY POLLUTANTS

SAMPLE IDENTIFIER: New Windsor MW-2
COMPUCHEM SAMPLE NUMBER: 34066

	CONCENTRATION (MG/L)	DETECTION LIMIT (MG/L)
1. ANTIMONY, TOTAL	BDL	0.050
2. ARSENIC, TOTAL	BDL	0.050
3. BERYLLIUM, TOTAL	BDL	0.020
4. CADMIUM, TOTAL	BDL	0.010
5. CHROMIUM, TOTAL	0.44	0.050
6. COPPER, TOTAL	0.78	0.10
7. LEAD, TOTAL	0.35	0.050
8. MERCURY, TOTAL	0.00030	0.00020
9. NICKEL, TOTAL	0.65	0.10
10. SELENIUM, TOTAL	BDL	0.010
11. SILVER, TOTAL	BDL	0.050
12. THALLIUM, TOTAL	BDL	0.050
13. ZINC, TOTAL	1.9	0.020
14. IRON, TOTAL	600	0.30
15. CYANIDE, TOTAL	0.010	0.010
16. PHENOLS, TOTAL	0.030	0.010

INORGANICS/
CONVENTIONALS

1. CHLORIDE	190	3.0
2. COD	21	2.0
3. TSS	30000	2.0
4. TDS	260	2.0

BDL=BELOW DETECTION LIMIT

COMPUCHEM LABORATORIES

October 5, 1984

Mr. Kevin Berger
Wehran Engineering
666 East Main Street
Middletown, NY 10940

Dear Mr. Berger:

Thank you for selecting CompuChem® Laboratories for your recent sample analysis. We have completed the analysis that you requested and have enclosed a summary of the CompuChem® data for your review. Additional data details are available for purchase if you require them.

As you know, EPA has proposed detection limits for the priority pollutants in the December 3, 1979, Federal Register, and we have reported all priority pollutant concentrations which have exceeded these limits (or their equivalent for solid matrices). In addition, we have permanently stored a complete record of your data on magnetic tape. This includes chromatograms, mass spectra, calibration and quality control data for the organics. Therefore, your original data is readily available for future reference. Should you require additional information from your data base, please contact us at 1/800-334-8525.

In order to expedite data to you, we have forwarded the results for all completed analyses. If you submitted more samples than are included in the enclosed results, the data will be forthcoming upon completion of our final review.

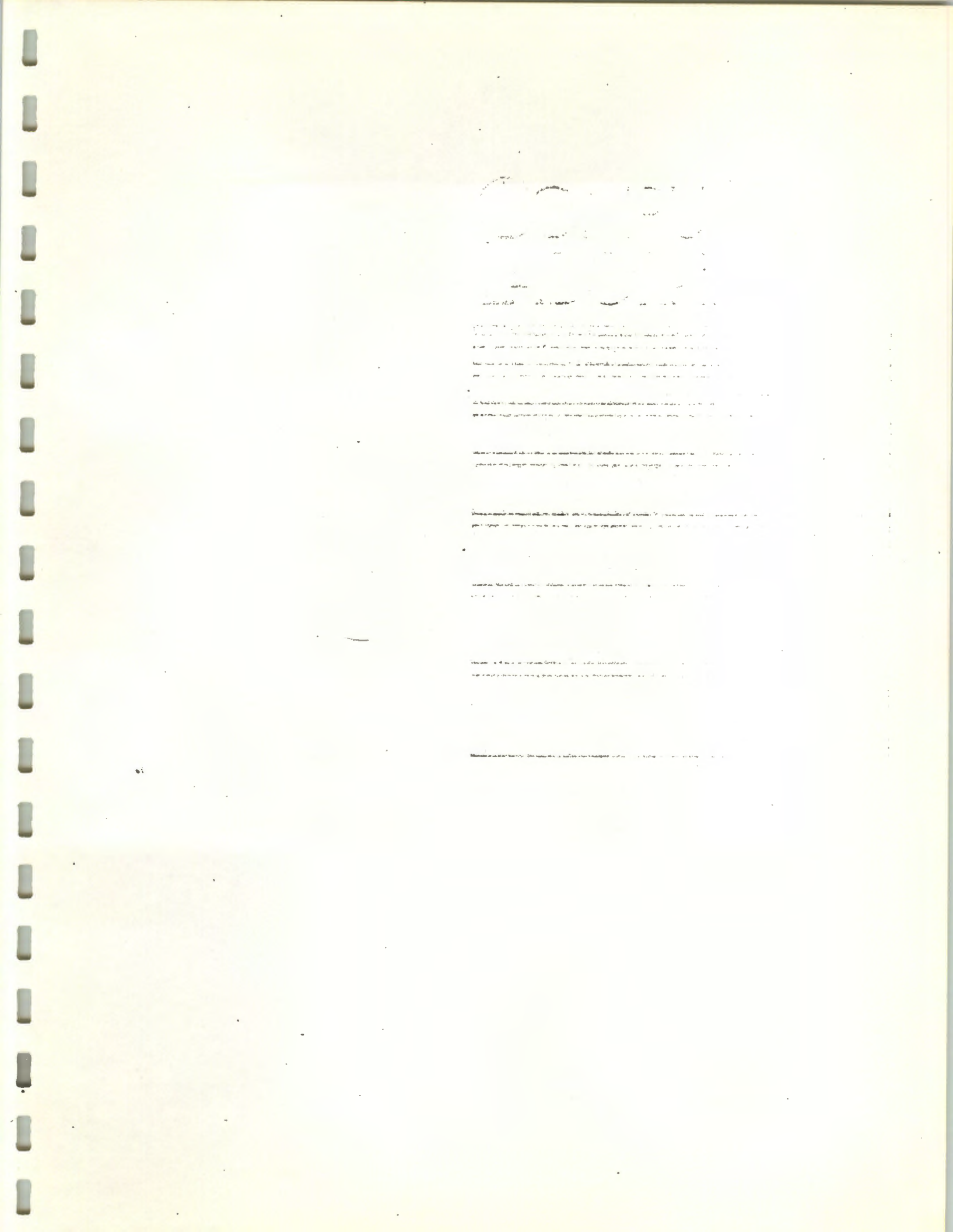
Your confidence in our CompuChem® service is appreciated. We look forward to a continuing association.

Sincerely,

Customer Service Dept.
CompuChem®

Enclosure:

Report: TP-COMP - 34275



DATA REPORT NOTICE

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Additionally, for solid samples detection limits and any analytical results reported are based on processing the method specified sample size of as-received material.

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CompuChem® presents these compounds in its sample data report for completeness as many of the government compound list forms continue to display the affected compounds. For consistency, these compounds are reported as "BDL" or "Below Detection Limit" as they are either not likely to exist in the sample or are not likely to be detected by the method. Those compounds which have actually been deleted are listed below with the Federal Register deletion reference.

Compound Name	GC/MS Fraction	Federal Register	Date
Dichlorodifluoromethane	Volatile	46FR2264	1/8/81
*Trichlorofluoromethane	Volatile	46FR2264	1/8/81
Bis(Chloromethyl)Ether	Volatile	46FR10723	2/4/81

*While this compound has been deleted, CompuChem® continues to identify and quantitate for it.

COMPUCHEM LABORATORIES

REPORT OF DATA

SAMPLE IDENTIFIER: TP-COMP

COMPUCHEM SAMPLE NUMBER: 34275

SUBMITTED TO:

Mr. Kevin Berger
Wehran Engineering
666 East Main Street
Middletown, NY 10940

Diana A. Scammell

DIANA A. SCAMMELL
TECHNICAL SPECIALIST, OPERATIONS

R. L. MYERS, PH.D., PRESIDENT

ROBERT E. MEIERER
DIRECTOR OF QUALITY ASSURANCE

LABORATORY CHRONICLE

= Test Pit?

SAMPLE IDENTIFIER: TP-COMP
COMPUCHEM SAMPLE NUMBER: 34275

	Date
Received/Refrigerated	8-24-84
Organics	
Extracted - Pesticides/PCBS	9-13-84 9-14-84
Analyzed	
1. Volatiles	8-30-84
2. Acid	9-17-84
3. Base/Neutrals	9-21-84
4. Pesticides/PCBS	9-19-84 - 9-21-84*
Inorganics	
1. Metals	8-31-84
2. Cyanide	8-28-84
3. Phenols	8-31-84

*Second column confirmation analysis which serves to verify the presence or absence of pesticides/PCB's.

COMPOUND LIST - VOLATILES ORGANICS

SAMPLE IDENTIFIER: TP-COMP
COMPUCHEM SAMPLE NUMBER: 34275

		CONCENTRATION (UG/KG)	DETECTION LIMIT (UG/KG)
1V.	CHLOROMETHANE	BDL	10
2V.	VINYL CHLORIDE	BDL	10
3V.	CHLOROETHANE	BDL	10
4V.	BROMOMETHANE	BDL	10
5V.	ACROLEIN	BDL	100
6V.	ACRYLONITRILE	BDL	100
7V.	METHYLENE CHLORIDE	BDL	10
8V.	TRICHLOROFLUOROMETHANE	BDL	10
9V.	1,1-DICHLOROETHYLENE	BDL	10
10V.	1,1-DICHLOROETHANE	BDL	10
11V.	TRANS-1,2-DICHLOROETHYLENE	BDL	10
12V.	CHLOROFORM	BDL	10
13V.	1,2-DICHLOROETHANE	BDL	10
14V.	1,1,1-TRICHLOROETHANE	BDL	10
15V.	CARBON TETRACHLORIDE	BDL	10
16V.	BROMODICHLOROMETHANE	BDL	10
17V.	1,2-DICHLOROPROPANE	BDL	10
18V.	TRANS-1,3-DICHLOROPROPENE	BDL	10
19V.	TRICHLOROETHYLENE	BDL	10
20V.	BENZENE	BDL	10
21V.	CIS-1,3-DICHLOROPROPENE	BDL	10
22V.	1,1,2-TRICHLOROETHANE	BDL	10
23V.	DIBROMOCHLOROMETHANE	BDL	10
24V.	BROMOFORM	BDL	10
25V.	1,1,2,2-TETRACHLOROETHYLENE	BDL	10
26V.	1,1,2,2-TETRACHLOROETHANE	BDL	10
27V.	TOLUENE	BDL	10
28V.	CHLOROBENZENE	BDL	10
29V.	ETHYLBENZENE	BDL	10
30V.	2-CHLOROETHYL VINYL ETHER	BDL	10
31V.	DICHLORODIFLUOROMETHANE†	BDL	
32V.	BIS(CHLOROMETHYL)ETHER†	BDL	

↑ 5 ↓

BDL=BELOW DETECTION LIMIT

†See Data Report Notice

COMPOUND LIST -- ACID EXTRACTABLE ORGANICS

SAMPLE IDENTIFIER: TP-COMP
COMPUCHEM SAMPLE NUMBER: 34275

		CONCENTRATION (UG/KG)	DETECTION† LIMIT (UG/KG)
1A.	PHENOL	BDL	5000
2A.	2-CHLOROPHENOL	BDL	5000
3A.	2-NITROPHENOL	BDL	5000
4A.	2,4-DIMETHYLPHENOL	BDL	5000
5A.	2,4-DICHLOROPHENOL	BDL	5000
6A.	P-CHLORO-M-CRESOL	BDL	5000
7A.	2,4,6-TRICHLOROPHENOL	BDL	5000
8A.	2,4-DINITROPHENOL	BDL	50000
9A.	4-NITROPHENOL	BDL	5000
10A.	4,6-DINITRO-O-CRESOL	BDL	50000
11A.	PENTACHLOROPHENOL	BDL	5000

Detect limit C.L.P. = 330

BDL=BELOW DETECTION LIMIT

†See Data Report Notice. Additionally, sample analyzed using 10:1 dilution due to the presence of large amounts of organic material; thus the higher than normal detection limits.

COMPOUND LIST -- BASE-NEUTRAL EXTRACTABLE ORGANICS

SAMPLE IDENTIFIER: TP-COMP
COMPUCHEM SAMPLE NUMBER: 34275

		CONCENTRATION (UG/KG)	DETECTION† LIMIT (UG/KG)
1B.	N-NITROSODIMETHYLAMINE	BDL	200
2B.	BIS (2-CHLOROETHYL) ETHER	BDL	200
3B.	1,3-DICHLOROBENZENE	BDL	200
4B.	1,4-DICHLOROBENZENE	BDL	200
5B.	1,2-DICHLOROBENZENE	BDL	200
6B.	BIS (2-CHLOROISOPROPYL) ETHER	BDL	200
7B.	HEXACHLOROETHANE	BDL	200
8B.	N-NITROSODI-N-PROPYLAMINE	BDL	200
9B.	NITROBENZENE	BDL	200
10B.	ISOPHORONE	BDL	200
11B.	BIS(2-CHLOROETHOXY) METHANE	BDL	200
12B.	1,2,4-TRICHLOROBENZENE	BDL	200
13B.	NAPHTHALENE	BDL	200
14B.	HEXACHLOROBUTADIENE	BDL	200
15B.	HEXACHLOROCYCLOPENTADIENE	BDL	200
16B.	2-CHLORONAPHTHALENE	BDL	200
17B.	DIMETHYLPHTHALATE	BDL	200
18B.	ACENAPHTHYLENE	BDL	200
19B.	2,6-DINITROTOLUENE	BDL	200
20B.	ACENAPHTHENE	BDL	200
21B.	2,4-DINITROTOLUENE	BDL	200
22B.	DIETHYLPHTHALATE	BDL	200
23B.	FLUORENE	BDL	200
24B.	4-CHLOROPHENYL PHENYL ETHER	BDL	200
25B.	DIPHENYLAMINE (N-NITROSO)	BDL	200
26B.	1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	BDL	200
27B.	4-BROMOPHENYL PHENYL ETHER	BDL	200
28B.	HEXACHLOROBENZENE	BDL	200

BDL=BELOW DETECTION LIMIT
†See Data Report Notice

COMPOUND LIST -- BASE-NEUTRAL EXTRACTABLE ORGANICS (Page Two)

SAMPLE IDENTIFIER: TP-COMP
COMPUCHEM SAMPLE NUMBER: 34275

S.V. 0

		CONCENTRATION (UG/KG)	DETECTION† LIMIT (UG/KG)
29B.	PHENANTHRENE SV	1200	200
30B.	ANTHRACENE SV	300	200
31B.	DI-N-BUTYLPHTHALATE	BDL	200
32B.	FLUORANTHENE	1400	200
33B.	BENZIDINE	BDL	200
34B.	PYRENE	1300	200
35B.	BUTYLBENZYLPHTHALATE	BDL	200
36B.	BENZO(A)ANTHRACENE	400	200
37B.	3,3'-DICHLOROBENZIDINE	BDL	200
38B.	CHRYSENE	480	200
39B.	BIS(2-ETHYLHEXYL)PHTHALATE	BDL	200
40B.	DI-N-OCTYLPHTHALATE	BDL	200
41B.	BENZO(B)FLUORANTHENE SV	420	200
42B.	BENZO(K)FLUORANTHENE SV	330	200
43B.	BENZO(A)PYRENE	400	200
44B.	INDENO(1,2,3-C,D)PYRENE	1000	500
45B.	DIBENZO(A,H)ANTHRACENE	BDL	500
46B.	BENZO(G,H,I)PERYLENE	280	500

Coal Tars

7510 ug/kg Total

BDL=BELOW DETECTION LIMIT
†See Date Report Notice

EXHIBIT II - COMPOUND LIST

SAMPLE IDENTIFIER: TP-COMP
COMPUCHEM SAMPLE NUMBER: 34275

	PESTICIDES/PCB'S	CONCENTRATION (UG/KG)	DETECTION† LIMIT (UG/KG)
1P.	ALDRIN	BDL	2.0
2P.	ALPHA-BHC	BDL	2.0
3P.	BETA-BHC	BDL	2.0
4P.	GAMMA-BHC	BDL	2.0
5P.	DELTA-BHC	BDL	2.0
6P.	CHLORDANE	BDL	2.0
7P.	4,4'-DDT	BDL	2.0
8P.	4,4'-DDE	BDL	2.0
9P.	4,4'-DDD	BDL	2.0
10P.	DIELDRIN	BDL	2.0
11P.	ALPHA-ENDOSULFAN	BDL	2.0
12P.	BETA-ENDOSULFAN	BDL	2.0
13P.	ENDOSULFAN SULFATE	BDL	2.0
14P.	ENDRIN	BDL	2.0
15P.	ENDRIN ALDEHYDE	BDL	2.0
16P.	HEPTACHLOR	BDL	2.0
17P.	HEPTACHLOR EPOXIDE	BDL	2.0
18P.	PCB-1242	130	20.0
19P.	PCB-1254	BDL	20.0
20P.	PCB-1221	BDL	20.0
21P.	PCB-1232	BDL	20.0
22P.	PCB-1248	630	20.0
23P.	PCB-1260	BDL	20.0
24P.	PCB-1016	BDL	20.0
25P.	TOXAPHENE	BDL	2.0

DOH

JK

BDL=BELOW DETECTION LIMIT
†See Data Report Notice.

COMPOUND LIST -- INORGANICS PRIORITY POLLUTANTS

SAMPLE IDENTIFIER: TP-COMP
COMPUCHEM SAMPLE NUMBER: 34275

	CONCENTRATION (UG/G)	DETECTION LIMIT† (UG/G)
1. ANTIMONY, TOTAL	BDL	0.50
2. ARSENIC, TOTAL	0.79	0.50
3. BERYLLIUM, TOTAL	BDL	0.20
4. CADMIUM, TOTAL	BDL	0.10
5. CHROMIUM, TOTAL	11	0.50
6. COPPER, TOTAL	32	1.0
7. LEAD, TOTAL	68	0.50
8. MERCURY, TOTAL	0.013	0.0020
9. NICKEL, TOTAL	48	1.0
10. SELENIUM, TOTAL	BDL	0.10
11. SILVER, TOTAL	BDL	0.50
12. THALLIUM, TOTAL	BDL	0.50
13. ZINC, TOTAL	140	0.20

	CONCENTRATION (MG/KG)	DETECTION LIMIT (MG/KG)
14. CYANIDE, TOTAL	19	0.30
15. PHENOLS, TOTAL	0.50	0.30

BDL=BELOW DETECTION LIMIT

†See Data Report Notice

COMPUCHEM
LABORATORIES

September 29,1984

Mr. Kevin Berger
Wehran Engineering
666 East Main Street
Middletown, NY 10940

Dear Mr. Berger:

Thank you for selecting CompuChem® Laboratories for your recent sample analysis. We have completed the analysis that you requested and have enclosed a summary of the CompuChem® data for your review. Additional data details are available for purchase if you require them.

As you know, EPA has proposed detection limits for the priority pollutants in the December 3, 1979, Federal Register, and we have reported all priority pollutant concentrations which have exceeded these limits (or their equivalent for solid matrices). In addition, we have permanently stored a complete record of your data on magnetic tape. This includes chromatograms, mass spectra, calibration and quality control data for the organics. Therefore, your original data is readily available for future reference. Should you require additional information from your data base, please contact us at 1/800-334-8525.

In order to expedite data to you, we have forwarded the results for all completed analyses. If you submitted more samples than are included in the enclosed results, the data will be forthcoming upon completion of our final review.

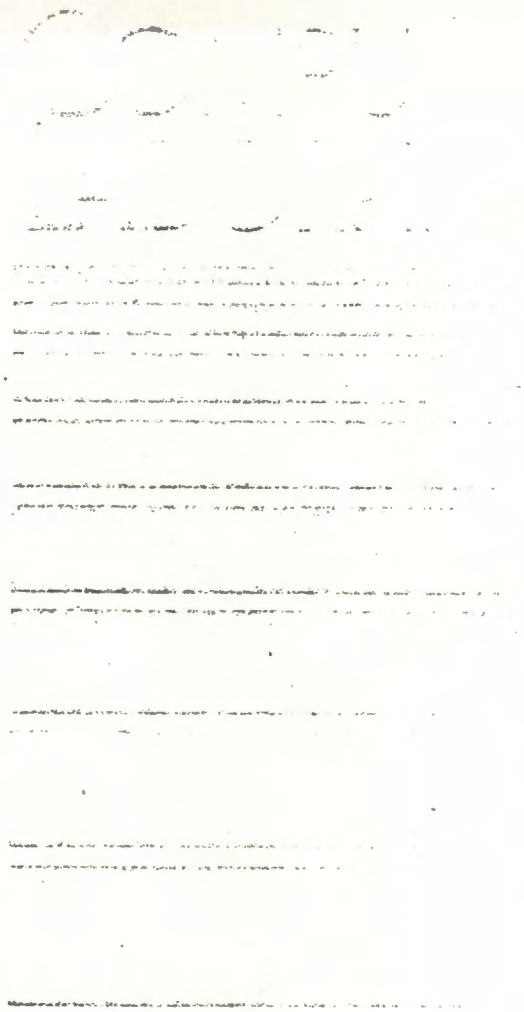
Your confidence in our CompuChem® service is appreciated. We look forward to a continuing association.

Sincerely,

Customer Service Dept.
CompuChem®

Enclosure:

Report: LEACHATE - 34285



DATA REPORT NOTICE

CompuChem employs Methods 624 and 625 for GC/MS analysis of organics in liquid matrices. These methods were proposed on December 3, 1979 by the U.S.E.P.A. in Volume 44 of the Federal Register. These methods were subsequently revised and reissued in July, 1982 as publication EPA-600/4-82-057. The EPA Environmental Monitoring and Support Laboratory (EMSL-Cincinnati) has subsequently issued method modifications which provide for the analysis of solid matrices. These modifications specify changes in the sample preparation procedures.

Additionally, for solid samples detection limits and any analytical results reported are based on processing the method specified sample size of as-received material.

The referenced methods are no longer appropriate for several of the original priority pollutant compounds. This is due to either the deletion from the toxic pollutant list (40 CFR Part 401) by EPA or the determination by EPA that the referenced methods may not be optimized for certain compounds (EPA-600/4-82-057) originally incorporated by the methods.

CompuChem® presents these compounds in its sample data report for completeness as many of the government compound list forms continue to display the affected compounds. For consistency, these compounds are reported as "BDL" or "Below Detection Limit" as they are either not likely to exist in the sample or are not likely to be detected by the method. Those compounds which have actually been deleted are listed below with the Federal Register deletion reference.

Compound Name	GC/MS Fraction	Federal Register	Date
Dichlorodifluoromethane	Volatile	46FR2264	1/8/81
*Trichlorofluoromethane	Volatile	46FR2264	1/8/81
Bis(Chloromethyl)Ether	Volatile	46FR10723	2/4/81

*While this compound has been deleted, CompuChem® continues to identify and quantitate for it.

COMPUCHEM LABORATORIES

REPORT OF DATA

SAMPLE IDENTIFIER: LEACHATE

COMPUCHEM SAMPLE NUMBER: 34285

SUBMITTED TO:

Mr. Kevin Berger
Wehran Engineering
666 East Main Street
Middletown, NY 10940

Diana A. Scammell

DIANA A. SCAMMELL
TECHNICAL SPECIALIST, OPERATIONS

R. L. MYERS, PH.D., PRESIDENT

ROBERT E. MEIERER
DIRECTOR OF QUALITY ASSURANCE

LABORATORY CHRONICLE

SAMPLE IDENTIFIER: LEACHATE
COMPUCHEM SAMPLE NUMBER: 34285

	Date
Received/Refrigerated	8-24-84
Organics	
Extracted	8-30-84 - 9-6-84*
Analyzed	
1. Volatiles	9-6-84
2. Acid	9-5-84 - 9-10-84*
3. Base/Neutrals	9-15-84
4. Pesticides/PCBS	9-15-84
Inorganics	
1. Metals	8-31-84
2. Cyanide	8-31-84
3. Phenols	9-14-84
Conventionals	
- Chloride	8-29-84
- Chemical Oxygen Demand	8-29-84
- Total Suspended Solids	8-28-84
- Total Dissolved Solids	8-28-84

*Acid fraction re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria.

COMPOUND LIST - VOLATILES ORGANCIS

SAMPLE IDENTIFIER: LEACHATE
COMPUCHEM SAMPLE NUMBER: 34285

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1V.	CHLOROMETHANE	BDL	10
2V.	VINYL CHLORIDE	BDL	10
3V.	CHLOROETHANE	BDL	10
4V.	BROMOMETHANE	BDL	10
5V.	ACROLEIN	BDL	100
6V.	ACRYLONITRILE	BDL	100
7V.	METHYLENE CHLORIDE	BDL	10
8V.	TRICHLOROFLUOROMETHANE	BDL	10
9V.	1,1-DICHLOROETHYLENE	BDL	10
10V.	1,1-DICHLOROETHANE	BDL	10
11V.	TRANS-1,2-DICHLOROETHYLENE	BDL	10
12V.	CHLOROFORM	BDL	10
13V.	1,2-DICHLOROETHANE	BDL	10
14V.	1,1,1-TRICHLOROETHANE	BDL	10
15V.	CARBON TETRACHLORIDE	BDL	10
16V.	BROMODICHLOROMETHANE	BDL	10
17V.	1,2-DICHLOROPROPANE	BDL	10
18V.	TRANS-1,3-DICHLOROPROPENE	BDL	10
19V.	TRICHLOROETHYLENE	BDL	10
20V.	BENZENE	BDL	10
21V.	CIS-1,3-DICHLOROPROPENE	BDL	10
22V.	1,1,2-TRICHLOROETHANE	BDL	10
23V.	DIBROMOCHLOROMETHANE	BDL	10
24V.	BROMOFORM	BDL	10
25V.	1,1,2,2-TETRACHLOROETHYLENE	BDL	10
26V.	1,1,2,2-TETRACHLOROETHANE	BDL	10
27V.	TOLUENE	BDL	10
28V.	CHLOROBENZENE	BDL	10
29V.	ETHYLBENZENE	BDL	10
30V.	2-CHLOROETHYL VINYL ETHER	BDL	10
31V.	DICHLORODIFLUOROMETHANE†	BDL	
32V.	BIS(CHLOROMETHYL)ETHER†	BDL	

BDL=BELOW DETECTION LIMIT

†See Data Report Notice

COMPOUND LIST -- ACID EXTRACTABLE ORGANICS

SAMPLE IDENTIFIER: LEACHATE
COMPUCHEM SAMPLE NUMBER: 34285

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1A.	PHENOL	BDL	25
2A.	2-CHLOROPHENOL	BDL	25
3A.	2-NITROPHENOL	BDL	25
4A.	2,4-DIMETHYLPHENOL	BDL	25
5A.	2,4-DICHLOROPHENOL	BDL	25
6A.	P-CHLORO-M-CRESOL	BDL	25
7A.	2,4,6-TRICHLOROPHENOL	BDL	25
8A.	2,4-DINITROPHENOL	BDL	250
9A.	4-NITROPHENOL	BDL	25
10A.	4,6-DINITRO-O-CRESOL	BDL	250
11A.	PENTACHLOROPHENOL	BDL	25

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- BASE-NEUTRAL EXTRACTABLE ORGANICS

SAMPLE IDENTIFIER: LEACHATE
COMPUCHEM SAMPLE NUMBER: 34285

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1B.	N-NITROSODIMETHYLAMINE	BDL	10
2B.	BIS (2-CHLOROETHYL) ETHER	BDL	10
3B.	1,3-DICHLOROBENZENE	BDL	10
4B.	1,4-DICHLOROBENZENE	BDL	10
5B.	1,2-DICHLOROBENZENE	BDL	10
6B.	BIS (2-CHLOROISOPROPYL) ETHER	BDL	10
7B.	HEXACHLOROETHANE	BDL	10
8B.	N-NITROSODI-N-PROPYLAMINE	BDL	10
9B.	NITROBENZENE	BDL	10
10B.	ISOPHORONE	BDL	10
11B.	BIS(2-CHLOROETHOXY) METHANE	BDL	10
12B.	1,2,4-TRICHLOROBENZENE	BDL	10
13B.	NAPHTHALENE	BDL	10
14B.	HEXACHLOROBUTADIENE	BDL	10
15B.	HEXACHLOROCYCLOPENTADIENE	BDL	10
16B.	2-CHLORONAPHTHALENE	BDL	10
17B.	DIMETHYLPHTHALATE	BDL	10
18B.	ACENAPHTHYLENE	BDL	10
19B.	2,6-DINITROTOLUENE	BDL	10
20B.	ACENAPHTHENE	BDL	10
21B.	2,4-DINITROTOLUENE	BDL	10
22B.	DIETHYLPHTHALATE	BDL	10
23B.	FLUORENE	BDL	10
24B.	4-CHLOROPHENYL PHENYL ETHER	BDL	10
25B.	DIPHENYLAMINE (N-NITROSO)	BDL	10
26B.	1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	BDL	10
27B.	4-BROMOPHENYL PHENYL ETHER	BDL	10
28B.	HEXACHLOROBENZENE	BDL	10

(Continued)

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- BASE-NEUTRAL EXTRACTABLE ORGANICS (Page Two)

SAMPLE IDENTIFIER: LEACHATE
COMPUCHEM SAMPLE NUMBER: 34285

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
29B.	PHENANTHRENE	BDL	10
30B.	ANTHRACENE	BDL	10
31B.	DI-N-BUTYLPHTHALATE	BDL	10
32B.	FLUORANTHENE	BDL	10
33B.	BENZIDINE	BDL	10
34B.	PYRENE	BDL	10
35B.	BUTYLBENZYLPHTHALATE	BDL	10
36B.	BENZO(A)ANTHRACENE	BDL	10
37B.	3,3'-DICHLOROBENZIDINE	BDL	10
38B.	CHRYSENE	BDL	10
39B.	BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10
40B.	DI-N-OCTYLPHTHALATE	BDL	10
41B.	BENZO(B)FLUORANTHENE	BDL	10
42B.	BENZO(K)FLUORANTHENE	BDL	10
43B.	BENZO(A)PYRENE	BDL	10
44B.	INDENO(1,2,3-C,D)PYRENE	BDL	25
45B.	DIBENZO(A,H)ANTHRACENE	BDL	25
46B.	BENZO(G,H,I)PERYLENE	BDL	25

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- PESTICIDES/PCB'S

SAMPLE IDENTIFIER: LEACHATE
COMPUCHEM SAMPLE NUMBER: 34285

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1P.	ALDRIN	BDL	10
2P.	ALPHA-BHC	BDL	10
3P.	BETA-BHC	BDL	10
4P.	GAMMA-BHC	BDL	10
5P.	DELTA-BHC	BDL	10
6P.	CHLORDANE	BDL	10
7P.	4,4'-DDT	BDL	10
8P.	4,4'-DDE	BDL	10
9P.	4,4'-DDD	BDL	10
10P.	DIELDRIN	BDL	10
11P.	ALPHA-ENDOSULFAN	BDL	10
12P.	BETA-ENDOSULFAN	BDL	10
13P.	ENDOSULFAN SULFATE	BDL	10
14P.	ENDRIN	BDL	10
15P.	ENDRIN ALDEHYDE	BDL	10
16P.	HEPTACHLOR	BDL	10
17P.	HEPTACHLOR EPOXIDE	BDL	10
18P.	PCB-1242	BDL	10
19P.	PCB-1254	BDL	10
20P.	PCB-1221	BDL	10
21P.	PCB-1232	BDL	10
22P.	PCB-1248	BDL	10
23P.	PCB-1260	BDL	10
24P.	PCB-1016	BDL	10
25P.	TOXAPHENE	BDL	10

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- INORGANICS PRIORITY POLLUTANTS

SAMPLE IDENTIFIER: LEACHATE
COMPUCHEM SAMPLE NUMBER: 34285

	CONCENTRATION (MG/L)	DETECTION LIMIT (MG/L)
1. ANTIMONY, TOTAL	BDL	0.050
2. ARSENIC, TOTAL	BDL	0.050
3. BERYLLIUM, TOTAL	BDL	0.020
4. CADMIUM, TOTAL	BDL	0.010
5. CHROMIUM, TOTAL	BDL	0.050
6. COPPER, TOTAL	BDL	0.10
7. LEAD, TOTAL	0.070	0.050
8. MERCURY, TOTAL	BDL	0.00020
9. NICKEL, TOTAL	BDL	0.10
10. SELENIUM, TOTAL	BDL	0.010
11. SILVER, TOTAL	BDL	0.050
12. THALLIUM, TOTAL	BDL	0.050
13. ZINC, TOTAL	0.42	0.020
14. CYANIDE, TOTAL	0.010	0.010
15. PHENOLS, TOTAL	0.018	0.010

BDL=BELOW DETECTION LIMIT

SAMPLE IDENTIFIER: LEACHATE
COMPUCHEM SAMPLE NUMBER: 34285

INORGANICS CONVENTIONALS	CONCENTRATION (MG/L)	DETECTION LIMIT (MG/L)
1. Chloride	77	3
2. Chemical Oxygen Demand	73	2
3. Total Suspended Solids	520	2
4. Total Dissolved Solids	1800	2

COMPOUND LIST - VOLATILES ORGANICS

SAMPLE IDENTIFIER: NEW WINDSOR MW-3
COMPUCHEM SAMPLE NUMBER: 34080

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1V.	CHLOROMETHANE	BDL	10
2V.	VINYL CHLORIDE	BDL	10
3V.	CHLOROETHANE	BDL	10
4V.	BROMOMETHANE	BDL	10
5V.	ACROLEIN	BDL	100
6V.	ACRYLONITRILE	BDL	100
7V.	METHYLENE CHLORIDE	NDB*	10
8V.	TRICHLOROFLUOROMETHANE	BDL	10
9V.	1,1-DICHLOROETHYLENE	BDL	10
10V.	1,1-DICHLOROETHANE	BDL	10
11V.	TRANS-1,2-DICHLOROETHYLENE	BDL	10
12V.	CHLOROFORM	BDL	10
13V.	1,2-DICHLOROETHANE	BDL	10
14V.	1,1,1-TRICHLOROETHANE	BDL	10
15V.	CARBON TETRACHLORIDE	BDL	10
16V.	BROMODICHLOROMETHANE	BDL	10
17V.	1,2-DICHLOROPROPANE	BDL	10
18V.	TRANS-1,3-DICHLOROPROPENE	BDL	10
19V.	TRICHLOROETHYLENE	BDL	10
20V.	BENZENE	BDL	10
21V.	CIS-1,3-DICHLOROPROPENE	BDL	10
22V.	1,1,2-TRICHLOROETHANE	BDL	10
23V.	DIBROMOCHLOROMETHANE	BDL	10
24V.	BROMOFORM	BDL	10
25V.	1,1,2,2-TETRACHLOROETHYLENE	BDL	10
26V.	1,1,2,2-TETRACHLOROETHANE	BDL	10
27V.	TOLUENE	BDL	10
28V.	CHLOROBENZENE	BDL	10
29V.	ETHYLBENZENE	BDL	10
30V.	2-CHLOROETHYL VINYL ETHER	BDL	10
31V.	DICHLORODIFLUOROMETHANE†	BDL	
32V.	BIS(CHLOROMETHYL)ETHER†	BDL	

BDL=BELOW DETECTION LIMIT

†See Data Report Notice
*See Quality Assurance Notice

LABORATORY CHRONICLE

SAMPLE IDENTIFIER: NEW WINDSOR MW-3
COMPUCHEM SAMPLE NUMBER: 34080

	Date
Received/Refrigerated	08/22/84
Organics	
Extracted	08/29/84 - 10/11/84*
Analyzed	
1. Volatiles	08/24/84
2. Acids	09/07/84
3. Base/Neutrals	10/12/84
4. Pesticides/PCBS	10/12/84
Inorganics	
1. Metals	08/31/84
2. Cyanide	08/31/84
3. Phenol	08/23/84
Conventionals	
- Chloride	08/29/84
- Chemical Oxygen Demand	08/28/84
- Total Suspended Solids	08/27/84
- Total Dissolved Solids	08/27/84

*Base/Neutral/Pesticides fraction re-extracted because initial endeavors did not meet quality control acceptance criteria.

QUALITY ASSURANCE NOTICE

CompuChem Sample No. 34080

Although not required by the Federal Register, December 3, 1979 (modified July, 1982) Volatile Method 624 procedure, the laboratory prepares VOA blanks when compositing water samples and preparing low and medium level hazardous waste VOA samples. This is to insure that the glassware used is free from contamination, and to monitor the possibility of cross-contamination from high levels of volatile organic compounds in some samples and the laboratory atmosphere.

The compositing or method blank (#34193) prepared with this sample contained the compound(s) listed below. Sample data associated with this blank have been adjusted and/or flagged according to the EPA-recommended methods.

Compound(s)	Concentration Found In Sample (ug/l)	Applicable Qualifier*
Methylene Chloride	13	NDB

The following data qualifiers are used by EPA and adopted by CompuChem® for reporting purposes:

NDB = The concentration of a priority pollutant in the blank is greater than 1/2 the detection limit and is greater than 1/2 the concentration in the sample.

*No adjusted sample concentration is reported.

COMPOUND LIST -- ACID EXTRACTABLE ORGANICS

SAMPLE IDENTIFIER: NEW WINDSOR MW-3
COMPUCHEM SAMPLE NUMBER: 34080

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1A.	PHENOL	BDL	25
2A.	2-CHLOROPHENOL	BDL	25
3A.	2-NITROPHENOL	BDL	25
4A.	2,4-DIMETHYLPHENOL	BDL	25
5A.	2,4-DICHLOROPHENOL	BDL	25
6A.	P-CHLORO-M-CRESOL	BDL	25
7A.	2,4,6-TRICHLOROPHENOL	BDL	25
8A.	2,4-DINITROPHENOL	BDL	250
9A.	4-NITROPHENOL	BDL	25
10A.	4,6-DINITRO-O-CRESOL	BDL	250
11A.	PENTACHLOROPHENOL	BDL	25

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- BASE-NEUTRAL EXTRACTABLE ORGANICS

SAMPLE IDENTIFIER: NEW WINDSOR MW-3
COMPUCHEM SAMPLE NUMBER: 34080

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1B.	N-NITROSODIMETHYLAMINE	BDL	10
2B.	BIS (2-CHLOROETHYL) ETHER	BDL	10
3B.	1,3-DICHLOROBENZENE	BDL	10
4B.	1,4-DICHLOROBENZENE	BDL	10
5B.	1,2-DICHLOROBENZENE	BDL	10
6B.	BIS (2-CHLOROISOPROPYL) ETHER	BDL	10
7B.	HEXACHLOROETHANE	BDL	10
8B.	N-NITROSODI-N-PROPYLAMINE	BDL	10
9B.	NITROBENZENE	BDL	10
10B.	ISOPHORONE	BDL	10
11B.	BIS(2-CHLOROETHOXY) METHANE	BDL	10
12B.	1,2,4-TRICHLOROBENZENE	BDL	10
13B.	NAPHTHALENE	BDL	10
14B.	HEXACHLOROBUTADIENE	BDL	10
15B.	HEXACHLOROCYCLOPENTADIENE	BDL	10
16B.	2-CHLORONAPHTHALENE	BDL	10
17B.	DIMETHYLPHTHALATE	BDL	10
18B.	ACENAPHTHYLENE	BDL	10
19B.	2,6-DINITROTOLUENE	BDL	10
20B.	ACENAPHTHENE	BDL	10
21B.	2,4-DINITROTOLUENE	BDL	10
22B.	DIETHYLPHTHALATE	BDL	10
23B.	FLUORENE	BDL	10
24B.	4-CHLOROPHENYL PHENYL ETHER	BDL	10
25B.	DIPHENYLAMINE (N-NITROSO)	BDL	10
26B.	1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	BDL	10
27B.	4-BROMOPHENYL PHENYL ETHER	BDL	10
28B.	HEXACHLOROBENZENE	BDL	10

(Continued)

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- BASE-NEUTRAL EXTRACTABLE ORGANICS (Page Two)

SAMPLE IDENTIFIER: NEW WINDSOR MW-3
COMPUCHEM SAMPLE NUMBER: 34080

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
29B.	PHENANTHRENE	BDL	10
30B.	ANTHRACENE	BDL	10
31B.	DI-N-BUTYLPHTHALATE	BDL	10
32B.	FLUORANTHENE	BDL	10
33B.	BENZIDINE	BDL	10
34B.	PYRENE	BDL	10
35B.	BUTYLBENZYLPHTHALATE	BDL	10
36B.	BENZO(A)ANTHRACENE	BDL	10
37B.	3,3'-DICHLOROBENZIDINE	BDL	10
38B.	CHRYSENE	BDL	10
39B.	BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10
40B.	DI-N-OCTYLPHTHALATE	BDL	10
41B.	BENZO(B)FLUORANTHENE	BDL	10
42B.	BENZO(K)FLUORANTHENE	BDL	10
43B.	BENZO(A)PYRENE	BDL	10
44B.	INDENO(1,2,3-C,D)PYRENE	BDL	25
45B.	DIBENZO(A,H)ANTHRACENE	BDL	25
46B.	BENZO(G,H,I)PERYLENE	BDL	25

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- PESTICIDES/PCB'S

SAMPLE IDENTIFIER: NEW WINDSOR MW-3
COMPUCHEM SAMPLE NUMBER: 34080

		CONCENTRATION (UG/L)	DETECTION LIMIT (UG/L)
1P.	ALDRIN	BDL	10
2P.	ALPHA-BHC	BDL	10
3P.	BETA-BHC	BDL	10
4P.	GAMMA-BHC	BDL	10
5P.	DELTA-BHC	BDL	10
6P.	CHLORDANE	BDL	10
7P.	4,4'-DDT	BDL	10
8P.	4,4'-DDE	BDL	10
9P.	4,4'-DDD	BDL	10
10P.	DIELDRIN	BDL	10
11P.	ALPHA-ENDOSULFAN	BDL	10
12P.	BETA-ENDOSULFAN	BDL	10
13P.	ENDOSULFAN SULFATE	BDL	10
14P.	ENDRIN	BDL	10
15P.	ENDRIN ALDEHYDE	BDL	10
16P.	HEPTACHLOR	BDL	10
17P.	HEPTACHLOR EPOXIDE	BDL	10
18P.	PCB-1242	BDL	10
19P.	PCB-1254	BDL	10
20P.	PCB-1221	BDL	10
21P.	PCB-1232	BDL	10
22P.	PCB-1248	BDL	10
23P.	PCB-1260	BDL	10
24P.	PCB-1016	BDL	10
25P.	TOXAPHENE	BDL	10

BDL=BELOW DETECTION LIMIT

COMPOUND LIST -- INORGANICS PRIORITY POLLUTANTS

SAMPLE IDENTIFIER: NEW WINDSOR MW-3
COMPUCHEM SAMPLE NUMBER: 34080

	CONCENTRATION (MG/L)	DETECTION LIMIT (MG/L)
1. ANTIMONY, TOTAL	BDL	0.050
2. ARSENIC, TOTAL	BDL	0.050
3. BERYLLIUM, TOTAL	BDL	0.020
4. CADMIUM, TOTAL	BDL	0.010
5. CHROMIUM, TOTAL	BDL	0.050
6. COPPER, TOTAL	0.36	0.10
7. LEAD, TOTAL	0.98	0.050
8. MERCURY, TOTAL	BDL	0.00020
9. NICKEL, TOTAL	BDL	0.10
10. SELENIUM, TOTAL	BDL	0.010
11. SILVER, TOTAL	BDL	0.050
12. THALLIUM, TOTAL	BDL	0.050
13. ZINC, TOTAL	2.20	0.020
14. IRON,TOTAL	63	0.30
15. CYANIDE, TOTAL	0.85	0.010
16. PHENOLS, TOTAL	0.030	0.010

BDL=BELOW DETECTION LIMIT

SAMPLE IDENTIFIER: NEW WINDSOR MW-3
COMPUCHEM SAMPLE NUMBER: 34080

	INORGANICS/ CONVENTIONALS	CONCENTRATION (MG/L)	DETECTION LIMIT (MG/L)
1.	CHLORIDE	27	3.0
2.	CHEMICAL OXYGEN DEMAND	30	2
3.	TOTAL SUSPENDED SOLIDS	2100	2
4.	TOTAL DISSOLVED SOLIDS	380	2

COMPUCHEM
LABORATORIES

October 17, 1984

Mr. Kevin Berger
Wehran Engineering
666 East Main Street
Middletown, NY 10940

Dear Mr. Berger:

Thank you for selecting CompuChem® Laboratories for your recent sample analysis. We have completed the analysis that you requested and have enclosed a summary of the CompuChem® data for your review. Additional data details are available for purchase if you require them.

As you know, EPA has proposed detection limits for the priority pollutants in the December 3, 1979, Federal Register, and we have reported all priority pollutant concentrations which have exceeded these limits (or their equivalent for solid matrices). In addition, we have permanently stored a complete record of your data on magnetic tape. This includes chromatograms, mass spectra, calibration and quality control data for the organics. Therefore, your original data is readily available for future reference. Should you require additional information from your data base, please contact us at 1/800-334-8525.

In order to expedite data to you, we have forwarded the results for all completed analyses. If you submitted more samples than are included in the enclosed results, the data will be forthcoming upon completion of our final review.

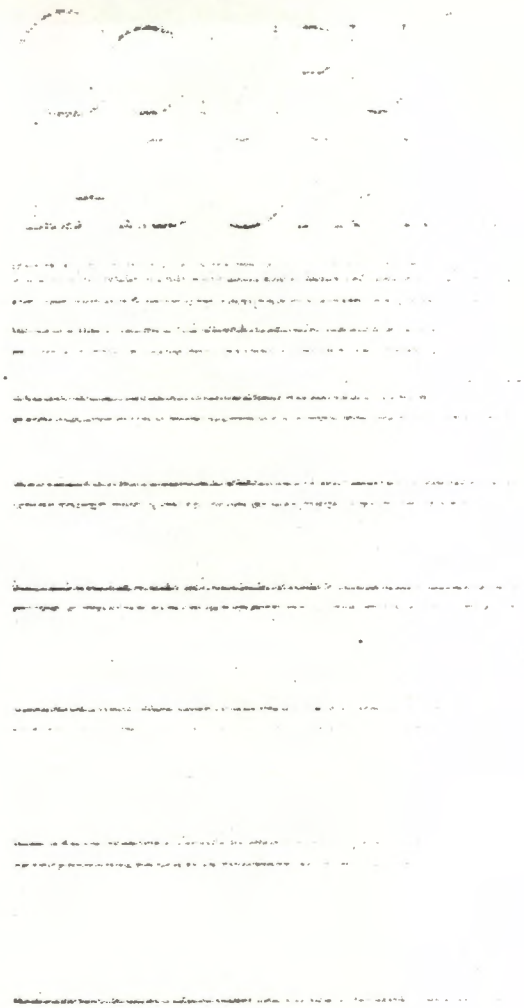
Your confidence in our CompuChem® service is appreciated. We look forward to a continuing association.

Sincerely,

Customer Service Dept.
CompuChem®

Enclosure:

Report: NEW WINDSOR MW-1 - 34068



DATA REPORT NOTICE

CompuChem employs Methods 624 and 625 for GC/MS analysis of organics in liquid matrices. These methods were proposed on December 3, 1979 by the U.S.E.P.A. in Volume 44 of the Federal Register. These methods were subsequently revised and reissued in July, 1982 as publication EPA-600/4-82-057. The EPA Environmental Monitoring and Support Laboratory (EMSL-Cincinnati) has subsequently issued method modifications which provide for the analysis of solid matrices. These modifications specify changes in the sample preparation procedures.

Additionally, for solid samples detection limits and any analytical results reported are based on processing the method specified sample size of as-received material.

The referenced methods are no longer appropriate for several of the original priority pollutant compounds. This is due to either the deletion from the toxic pollutant list (40 CFR Part 401) by EPA or the determination by EPA that the referenced methods may not be optimized for certain compounds (EPA-600/4-82-057) originally incorporated by the methods.

CompuChem® presents these compounds in its sample data report for completeness as many of the government compound list forms continue to display the affected compounds. For consistency, these compounds are reported as "BDL" or "Below Detection Limit" as they are either not likely to exist in the sample or are not likely to be detected by the method. Those compounds which have actually been deleted are listed below with the Federal Register deletion reference.

Compound Name	GC/MS Fraction	Federal Register	Date
Dichlorodifluoromethane	Volatile	46FR2264	1/8/81
*Trichlorofluoromethane	Volatile	46FR2264	1/8/81
Bis(Chloromethyl)Ether	Volatile	46FR10723	2/4/81

*While this compound has been deleted, CompuChem® continues to identify and quantitate for it.

COMPUCHEM LABORATORIES

REPORT OF DATA

SAMPLE IDENTIFIER: NEW WINDSOR MW-1

COMPUCHEM SAMPLE NUMBER: 34068

SUBMITTED TO:

Mr. Kevin Berger
Wehran Engineering
666 East Main Street
Middletown, NY 10940

for Robert E. Meierer

DIANA A. SCAMMELL
TECHNICAL SPECIALIST, OPERATIONS

R. L. MYERS, PH.D., PRESIDENT

ROBERT E. MEIERER
DIRECTOR OF QUALITY ASSURANCE

APPENDIX B

WEHRAN ENGINEERING
CONSULTING ENGINEERS

TEST BORING LOG
BORING NO. B-1

PROJECT: NEW WINDSOR LANDFILL
CLIENT: N.Y.S. D.E.C.
BORING CONTRACTOR: Kendrick Drilling Inc.
SHEET NO. 1 OF 1
JOB NO. 01424288 B-22
ELEVATION
DATE STARTED 8/7/84
DATE FINISHED 8/8/84
DRILLER Terry Kendrick
INSPECTOR T. Roeper

GROUND WATER

DATE	TIME	WATER EL.	SCREEN

	CAS.	SAMP.	CORE	TUBE
TYPE	H.S.A	S.S.		
DIA.		2"		
WT.		140 lbs		
FALL		30"		

WELL CONSTRUCTION
Cement Plug
2" pvc
Bentonite Pellets
Graded Sand Pack

DEPTH FEET	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION	REMARKS
0				CLEAN FILL light brown SILT + CLAY, and F-C Sand, little (+) F Gravel	Saturation @ ≈ 5.0'
5	1	SS	7 6 / 2 3		
	1A	S.S.	3 4 / 9 21	GLACIAL TILL light brown F-C SAND Some (+) Silt + Clay Trace F Gravel occasional gray + brown mottling	
10	2	SS.	6 6 / 26 11		
15	3	SS.	8 10 / 14 13	@ 15.0' To ≈ 15.5' Gray SILT grading To SILT + CLAY Some F-C Sand, Trace F Gravel	
				grading To F-C SAND, some Silt + Clay	
20	4	SS.	24 30 / 38 36	@ 20' grading to light brown F-C SAND, Some Silt + Clay, little F Gravel @ 21' - 1" of C-F SAND, little Silt	
25	5	SS.	54 63 / 54 95	@ 25.0 - 25.4 - Gray + Black C-F SAND, little Silt @ 25.4' Gray Brown SILT + CLAY Some F-C Sand little (+) F Gravel	
30	6	SS	45 62 / 65 100/4"		
				END of BORING @ 32'	
35					
40					
45					

WEHRAN ENGINEERING
CONSULTING ENGINEERS

TEST BORING LOG
BORING NO. B-2

PROJECT: NEW WINDSOR LANDFILL
CLIENT: N.Y.S. D.E.C.
BORING CONTRACTOR: Kendrick Drilling Inc.
SHEET NO. 1 OF 1
JOB NO. 01424288 B-12
ELEVATION
DATE STARTED 8/9/84
DATE FINISHED 8/9/84
DRILLER Terry Kendrick
INSPECTOR T. Roeper

GROUND WATER

DATE	TIME	WATER EL.	SCREEN

	CAS.	SAMP.	CORE	TUBE
TYPE	H.S.A	S.S.		
DIA.		2"		
WT.		140 lbs		
FALL		30"		

WELL CONSTRUCTION: Cement Plug; Bentonite Pellets; Graded Sand Pack; Native backfill

DEPTH FEET	NO.	TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION	REMARKS
0				REFUSE / FILL	
				Predominatly household refuse and fill material	* = weight of hammer
5	1	S.S.	2 3 / 6 5		Saturation @ ≈ 6.0'
10	2	S.S.	5 1 / 1 5		
15	3	S.S.	* * / 1 2	MEADOW MAT	
				Dark brown - black organic SILT	
20	4	S.S	1 * / * 2		
25	5	S.S	* * / * *	greenish black CLAY & SILT	
30	6	S.S.	* * / * *	GLACIOLACUSTRINE Deposits Gray SILTY CLAY very soft & sticky	
35					
40					
45					

WEHRAN ENGINEERING
CONSULTING ENGINEERS

TEST BORING LOG
BORING NO. B-3

PROJECT: NEW WINDSOR LANDFILL
CLIENT: N.Y.S. DEC
BORING CONTRACTOR: Kendrick Drilling, Inc.
SHEET NO. 1 OF 1
JOB NO. 014242.88 B-12
ELEVATION
DATE STARTED 8/9/84
DATE FINISHED 8/10/84
DRILLER Terry Kendrick
INSPECTOR T. Rocper

GROUND WATER

DATE	TIME	WATER EL.	SCREEN

	CAS.	SAMP.	CORE	TUBE
TYPE	H.S.A.	S.S.		
DIA.		2"		
WT.		140 lbs		
FALL		30"		

WELL CONSTRUCTION	DEPTH FEET	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION	REMARKS
Graded sand pack	0				Refuse / Fill predominatly household refuse	
	5	1	S.S.	5 7 35/4"		
	10	2	S.S.	35/6"		
	15	3	S.S.	7 11 11 9		
	20	4	S.S.	1 2 2 3		
Native backfill		5	S.S.	4 4 5 6	Meadow Mat Dark brown - Black Organic Silt	
	25	6	S.S.	1 1 3 2		
					Ionic of Grayish F-C SAND, little Silt	
	30	7	S.S.	1 2 4 8	GLACIOLACUSTRINE DEPOSITS Gray Silty CLAY, becoming Stiffer with depth	
					Bottom of Boring 32'	
	35					
	40					
	45					

WEHRAN ENGINEERING
CONSULTING ENGINEERS

VARIABLE HEAD
PERMEABILITY TEST
PIEZOMETER No. B-1

PROJECT: NEW WINDSOR LANDFILL
CLIENT: N.Y.S. D.E.C.
JOB NO: 01424288 B-22
DATE OF TEST: 8/14/84
SCREENED INTERVAL:

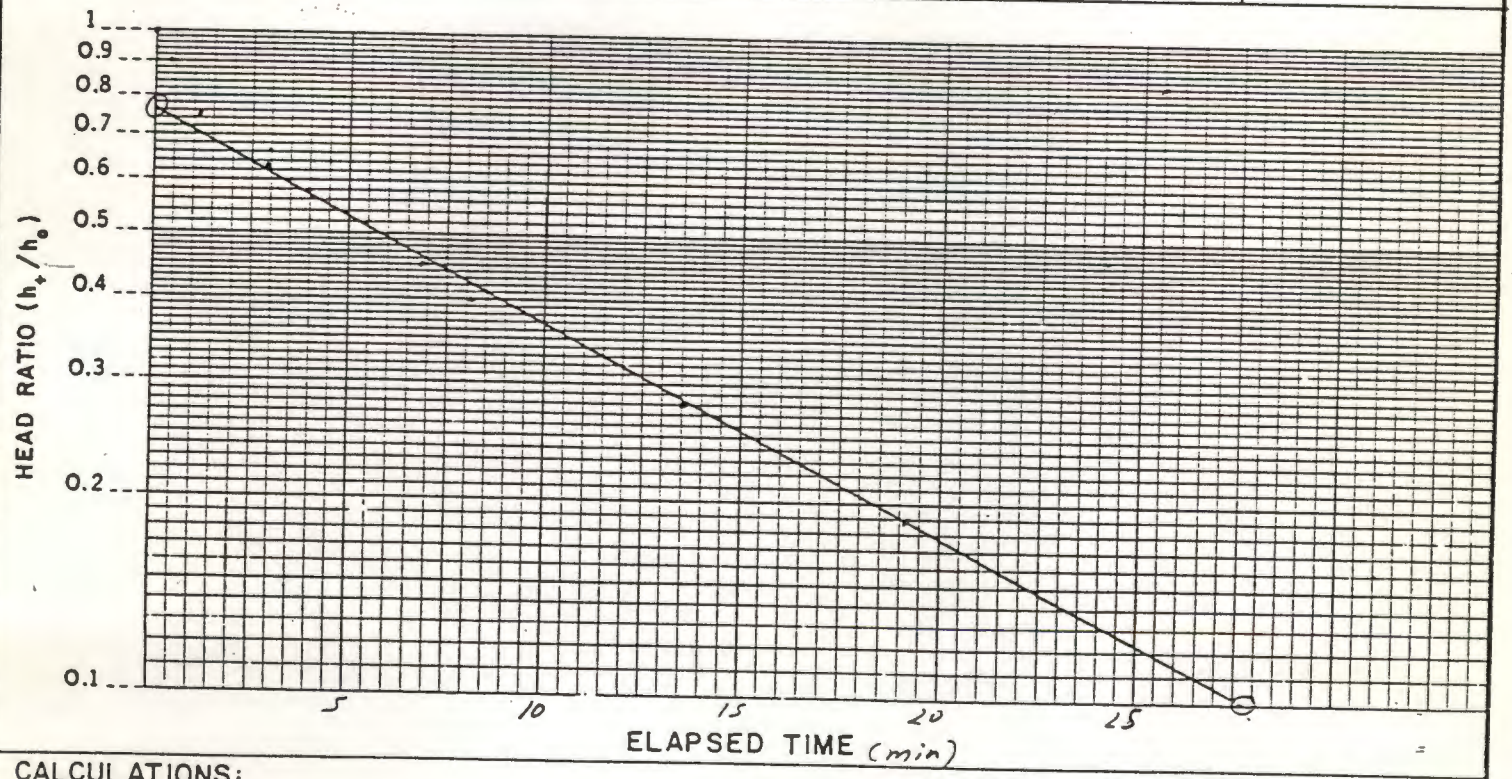
4.0' - 19.0'

METHOD:

$$K = \frac{r^2 \ln (h_1/h_2)}{2L (T_2 - T_1)} \ln \left(\frac{L}{R}\right)$$

TEST DATA

ELAPSED TIME (min)	HEAD RATIO (h_t / h_o)
0	1.00
.20 Sec	.90
1:10	.75
2:55	.63
3:58	.58
6:45	.45
8:18	.40
13:36	.28
19:12	.19



CALCULATIONS:

$r = 2.54$ cm
$R = 10.16$ cm
$L = 487.68$ cm
$T_1 = 0$ Sec
$T_2 = 1650$ Sec
$h_1 = .76$
$h_2 = .10$

$$K = \frac{(2.54)^2 \ln (.76/.10)}{2(487.68)(1650 - 0)} \ln \left(\frac{487.68}{10.16}\right)$$

$$K = 3.15 \times 10^{-5} \text{ cm/sec}$$

WEHRAN ENGINEERING
CONSULTING ENGINEERS

VARIABLE HEAD PERMEABILITY TEST
PIEZOMETER No. B-2

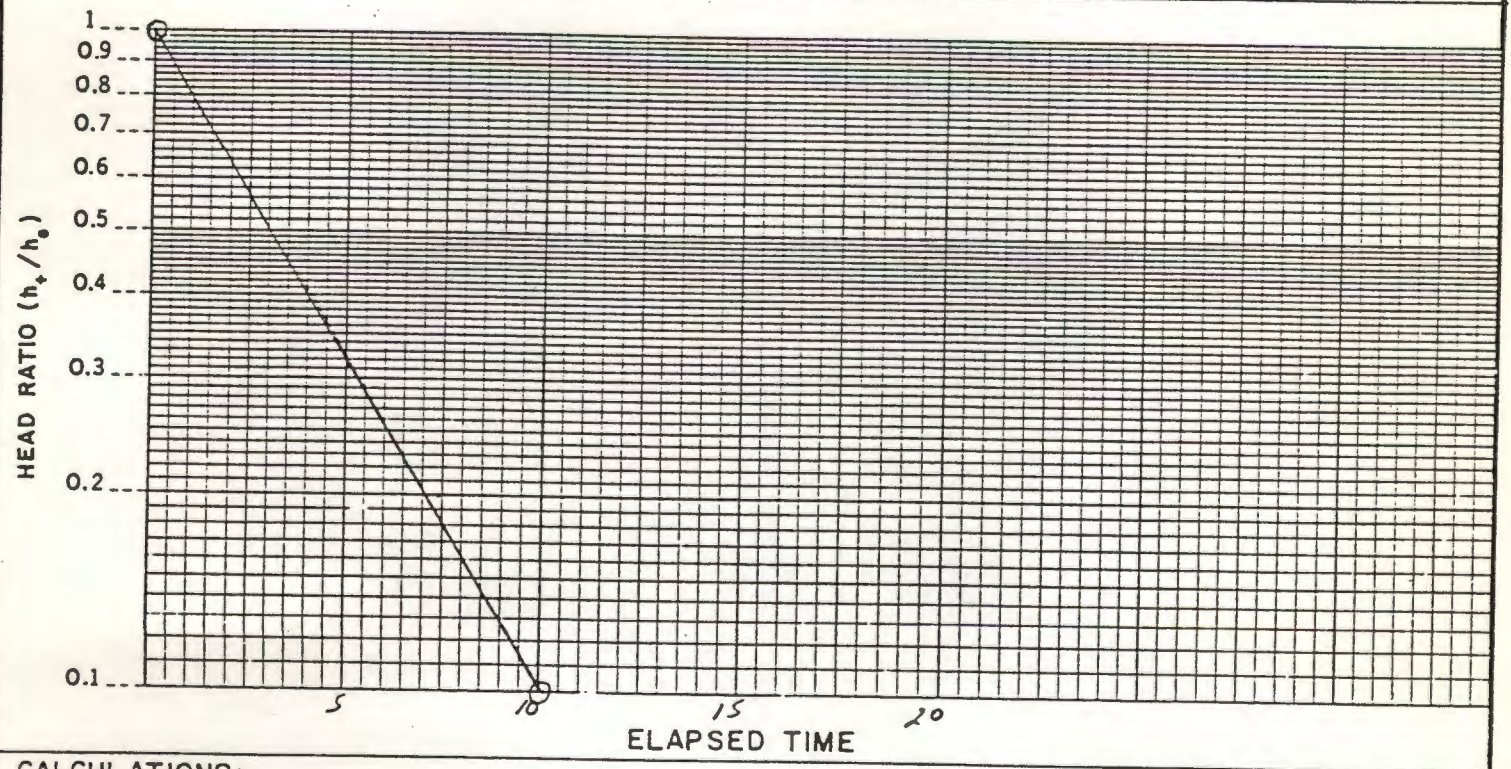
PROJECT: NEW WINDSOR LANDFILL
CLIENT: N.Y.S DEC
JOB NO: 01424288 B-22
DATE OF TEST: 8/14/84
SCREENED INTERVAL:

3.0' - 20.0'

TEST DATA	
ELAPSED TIME	HEAD RATIO (h_t / h_o)
0	1.00
20 Sec	.01

METHOD:

$$K = \frac{r^2 \ln (h_1/h_2)}{2L (T_2 - T_1)} \ln \left(\frac{L}{R}\right)$$



CALCULATIONS:

$r = 2.54$ cm
$R = 10.16$ cm
$L = 518.16$ cm
$T_1 = 0$ Sec
$T_2 = 10$ Sec
$h_1 = 1.00$
$h_2 = 0.1$

$$K = \frac{(2.54)^2 \ln \left(\frac{1.00}{0.1}\right)}{2(518.16)(10-0)} \ln \left(\frac{518.16}{10.16}\right)$$ 3.93

$K = 5.63 \times 10^{-3}$ cm/sec.

WEHRAN ENGINEERING
CONSULTING ENGINEERS

VARIABLE HEAD PERMEABILITY TEST
PIEZOMETER No. B-3

PROJECT: NEW WINDSOR LANDFILL
CLIENT: N.Y.S. DEC
JOB NO: 014244.88
DATE OF TEST: 8/14/84
SCREENED INTERVAL:

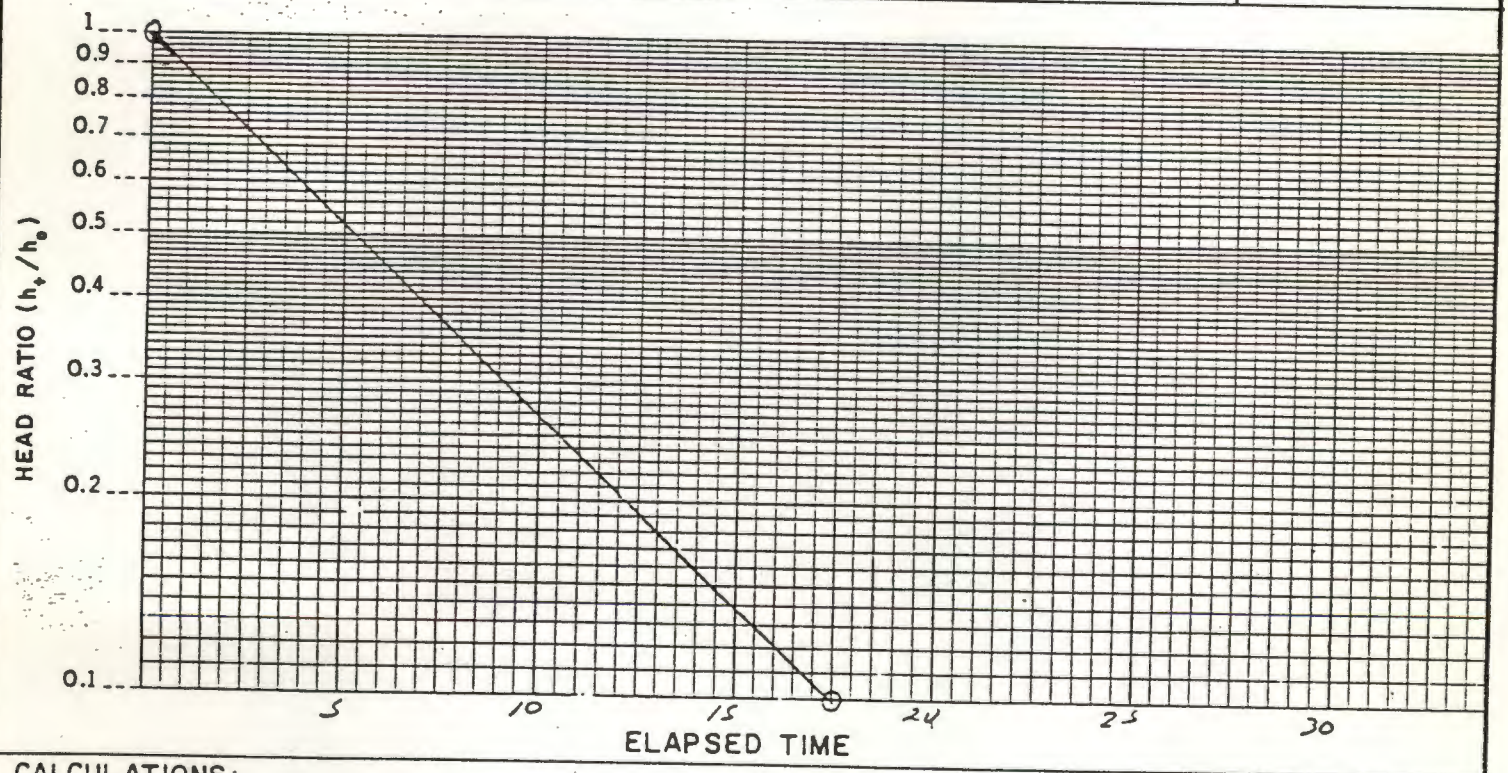
4.0' - 21.0'

TEST DATA

ELAPSED TIME (Sec)	HEAD RATIO (h_t / h_o)
0	1.00
35	.01

METHOD:

$$K = \frac{r^2 \ln(h_1/h_2)}{2L\,(T_2 - T_1)} \ln\left(\frac{L}{R}\right)$$



CALCULATIONS:

r = 2.54 cm
R = 10.16 cm
L = 518.16 cm
T_1 = 0 Sec
T_2 = 37.5 Sec
h_1 = 1.00
h_2 = .01

$$K = \frac{(2.54)^2 \ln(1.0/0.1)}{2(518.16)\,(17.5 - 0)} \ln\left(\frac{518.16}{10.16}\right)^{297}$$

$$K = 3.22 \times 10^{-3}\ \text{cm/sec}$$

APPENDIX C

WEHRAN ENVIRONMENTAL LABORATORY

CHAIN OF CUSTODY RECORD

PROJECT: NEW WINDSOR LF

CLIENT: NYDEC

JOB No.: 01124288 B-12

SAMPLE IDENTIFICATION:

LOCATION No.	LAB SAMPLE No.	CONTAINERS: NUMBER/TYPE	CONTAINER CONDITION
LEACHATE	10372	4QT GLASS 7 vials 2 poly 1 QC vial	Good
TP-Comp	10373	4 QT GLASS	"

CHAIN OF CUSTODY CHRONICLE:

COLLECTED BY:

1 NAME: M. RICHTER DATE: 8/23/84
SIGNATURE: M. Richter SEALS PLACED ON CONTAINERS? ☐ YES ☒ NO

CUSTODY TRANSFERRED TO:

2 NAME: CompuChem via F/E DATE: 8/23/84 TIME: 5:18
SIGNATURE: [signature] ARE SEALS INTACT? ☒ YES ☐ NO ☐ N/A

CUSTODY TRANSFERRED TO:

3 NAME: DATE: TIME:
SIGNATURE: ARE SEALS INTACT? ☐ YES ☐ NO ☐ N/A

RECEIVED IN LABORATORY BY:

4 NAME: DATE: TIME:
SIGNATURE: ARE SEALS INTACT? ☐ YES ☐ NO ☐ N/A

DISPOSED BY:

5 NAME: DATE:
SIGNATURE:

REFER TO "WATER QUALITY SAMPLING FIELD DATA SHEET" FOR SPECIFIC SAMPLING DETAILS.

WERE ANY SAMPLES SPLIT WITH ANOTHER PARTY? ☐ YES ☐ NO
IF YES, IDENTIFY:

REVISED 3/8?

WESTON ENVIRONMENTAL LABORATORY

CHAIN OF CUSTODY RECORD

PROJECT: NOW WINDSOR LF

CLIENT: NYDEC

JOB No.: 01424288 B-12

SAMPLE IDENTIFICATION:

LOCATION No.	LAB SAMPLE No.	CONTAINERS: NUMBER/TYPE	CONTAINER CONDITION
MW-1	10371	(4 QT GLASS.; 1 QC VIAL, 7 VIALS	GOOD
MW-2	10369	2 PT POLY)	↓
MW-3	10370		

CHAIN OF CUSTODY CHRONICLE:

COLLECTED BY:

1. NAME: M. RICHTER DATE: 8/21/84
   SIGNATURE: M. Richter SEALS PLACED ON CONTAINERS? ☐ YES ☒ NO

CUSTODY TRANSFERRED TO:

2. NAME: CONNUCKEM VIA FEDEX DATE: 8/21/84 TIME: 5:00
   SIGNATURE: [illegible] ARE SEALS INTACT? ☐ YES ☐ NO ☒ N/A

CUSTODY TRANSFERRED TO:

3. NAME: _____ DATE: _____ TIME: _____
   SIGNATURE: _____ ARE SEALS INTACT? ☐ YES ☐ NO ☐ N/A

RECEIVED IN LABORATORY BY:

4. NAME: _____ DATE: _____ TIME: _____
   SIGNATURE: _____ ARE SEALS INTACT? ☐ YES ☐ NO ☐ N/A

DISPOSED BY:

5. NAME: _____ DATE: _____
   SIGNATURE: _____

REFER TO "WATER QUALITY SAMPLING FIELD DATA SHEET" FOR SPECIFIC SAMPLING DETAILS.

WERE ANY SAMPLES SPLIT WITH ANOTHER PARTY? ☐ YES ☒ NO
IF YES, IDENTIFY: _____

WEHRAN ENVIRONMENTAL LABORATORY

CHAIN OF CUSTODY RECORD

PROJECT: NEW WINDSOR LF

CLIENT: NYDEC

JOB No.: 0142-4288 B-12

SAMPLE IDENTIFICATION:

LOCATION No.	LAB SAMPLE No.	CONTAINERS: NUMBER/TYPE	CONTAINER CONDITION
MW-1	10371	(4 QT GLASS.; 1 QC VIAL, 7 VIALS	GOOD
MW-2	10369	2 PT POLY) ↓	↓
MW-3	10370		

CHAIN OF CUSTODY CHRONICLE:

COLLECTED BY:

1. NAME: M. RICHTER DATE: 8/21/84
   SIGNATURE: M. Richter SEALS PLACED ON CONTAINERS? ☐ YES ☒ NO

CUSTODY TRANSFERRED TO:

2. NAME: COMPUCHEM VIA FEDERAL EXPRESS DATE: 8/21/84 TIME: 5:00
   SIGNATURE: _____ ARE SEALS INTACT? ☐ YES ☐ NO ☒ N/A

CUSTODY TRANSFERRED TO:

3. NAME: _____ DATE: _____ TIME: _____
   SIGNATURE: _____ ARE SEALS INTACT? ☐ YES ☐ NO ☐ N/A

RECEIVED IN LABORATORY BY:

4. NAME: _____ DATE: _____ TIME: _____
   SIGNATURE: _____ ARE SEALS INTACT? ☐ YES ☐ NO ☐ N/A

DISPOSED BY:

5. NAME: _____ DATE: _____
   SIGNATURE: _____

REFER TO "WATER QUALITY SAMPLING FIELD DATA SHEET" FOR SPECIFIC SAMPLING DETAILS.

WERE ANY SAMPLES SPLIT WITH ANOTHER PARTY? ☐ YES ☒ NO

IF YES, IDENTIFY: _____

APPENDIX D

EXHIBIT 1

FILE DATA

federal register

Friday
July 16, 1982

New Windsor Landfill

Part V

Environmental Protection Agency

National Oil and Hazardous Substances Contingency Plan

Facility name: New Windsor Landfill

Location: New Windsor N.Y.

EPA Region: II

Person(s) in charge of the facility: Town of New Windsor

Name of Reviewer: Ecological Analysts, Inc Date: 6 June 1983

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.)

Landfill located in a wetland which drains via an existing creek to Washington Lake; a public water supply for the Town of Newburgh.

Scores: S_M = 53.67 (S_{gw} = 49.32 S_{sw} = 78.67 S_a = 0)

S_{FE} = 0

S_{DC} = 25.0

Max S_M = 62.46

FIGURE 1
HRS COVER SHEET

BILLING CODE 6560-50-C

Ground 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	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	6	
Net Precipitation	0 1 (2) 3		1	2	3	
Permeability of the Unsaturated Zone	0 1 [2] 3		1	2	3	
Physical State	0 1 2 (3)		1	3	3	
Total Route Characteristics Score				13	15	
3 Containment	0 1 2 (3)		1	3	3	3.3
4 Waste Characteristics						3.4
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	7	8	
Total Waste Characteristics Score				25	26	
5 Targets						3.5
Ground Water Use	0 1 2 (3)		3	9	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 (20) 24 30 32 35 40		1	20	40	
Total Targets Score				29	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				28,275	57,330	
7 Divide line 6 by 57,330 and multiply by 100		S_{gw} =		49.32		

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Max S_{gw} = 56.91 with detection of release

Surface Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 (45)	1	45	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		3	
1-yr. 24-hr. Rainfall	0 1 2 3	1		3	
Distance to Nearest Surface Water	0 1 2 3	2		6	
Physical State	0 1 2 3	1		3	
Total Route Characteristics Score			NA	15	
3 Containment	0 1 2 3	1	N.E.	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	7	8	
Total Waste Characteristics Score			25	26	
5 Targets					4.5
Surface Water Use	0 1 2 (3)	3	9	9	
Distance to a Sensitive Environment	0 1 2 (3)	2	6	6	
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 / 12 16 18 20 / 24 (30) 32 35 40	1	30	40	
Total Targets Score			45	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			50,625	64,350	
7 Divide line 6 by 64,350 and multiply by 100		S_{sw} =	78.67		

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

Air Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multiplier	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		

Expected max observed release
45
0
9
7
16
21
6
3
30
21,600
61.54 MAX

FIGURE 9
AIR ROUTE WORK SHEET

BILLING CODE 6560-50-C

four-mile radius as well as transients such as workers in factories, offices, restaurants, motels, or students. It excludes travelers passing through the area. If aerial photography is used in making the count, assume 3.6 individuals per dwelling unit. Select the highest value for this rating factor as follows:

DISTANCE TO POPULATION FROM HAZARDOUS SUBSTANCE

Population	0–¼ miles	0–½ mile	0–¾ mile	0–1 mile
0	0	0	0	0
1 to 100	0	12	16	18
101 to 1,000	12	16	18	21
1,001 to 2,000	16	18	21	24
2,001 to 10,000	18	21	24	27
More than 10,000	21	24	27	30

Distance to sensitive environment is an indicator of the likelihood that a region that contains important biological resources or that is a fragile natural setting would suffer serious damage if hazardous substances were to be released from the facility. Assign a value from Table 10.

Land use indicates the nature and level of human activity in the vicinity of a facility. Assign highest applicable value from Table 13.

6.0 Computing the Migration Hazard Mode Score, S_M

To compute S_M, complete the work sheet (Figure 10) using the values of S_{gw}, S_{sw} and S_a obtained from the previous sections.

7.0 Fire and Explosion

Compute a score for the fire and explosion hazard mode, S_{FE}, when either a state or local fire marshall has certified that the facility presents a significant fire or explosion threat to the public or to sensitive environments or there is a demonstrated fire and explosion threat based on field observations (e.g., combustible gas indicator readings). Document the threat.

7.1 Containment. Containment is an indicator of the measures that have been taken to minimize or prevent hazardous substances at the facility from catching fire or exploding. Normally it will be given a value of 3 on the work sheet (Figure 11). If no hazardous substances that are individually ignitable or explosive are present and those that may be hazardous in combination are segregated and isolated so that they cannot come together to form incompatible mixtures, assign this factor a value of 1.

7.2 Waste Characteristics. Direct evidence of ignitability or explosion potential may exist in the form of measurements with appropriate instruments. If so, assign this factor a value of 3; if not, assign a value of 0.

TABLE 13.—VALUES FOR LAND USE (AIR ROUTE)

Assigned value—	0	1	2	3
Distance to Commercial-Industrial	>1 mile	½ to 1 mile	¼ to ½ mile	<¼ mile.
Distance to National/State Parks, Forests, Wildlife Reserves, and Residential Areas.	>2 miles	1 to 2 miles	½ to 1 mile	<½ mile.
Distance to Agricultural Lands (in Production within 5 years):				
Ag land	>1 mile	½ to 1 mile	¼ to ½ mile	<¼ mile.
Prime Ag Land [1]	>2 miles	1 to 2 miles	½ to 1 mile	<½ mile.
Distance to Historic/Landmark Sites (National Register of Historic Places and National Natural Landmarks).				Within view of site or if site is subject to significant impacts.

[1] Defined in the Code of Federal Regulations, 7 CFR 657.5, 1981.

	S	S^2
Groundwater Route Score (S_{gw})	49.32	2,432.46
Surface Water Route Score (S_{sw})	78.67	6,188.97
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		8,621.43
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		92.85
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		53.67

FIGURE 10
WORKSHEET FOR COMPUTING S_M

Max S_R = 64.39

Direct Contact Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Incident	(0) 45	1	0	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	3	8.2
3 Containment	0 (15)	1	15	15	8.3
4 Waste Characteristics Toxicity	0 1 2 (3)	5	15	15	8.4
5 Targets					8.5
Population Within a 1-Mile Radius	0 1 (2) 3 4 5	4	8	20	
Distance to a Critical Habitat	(0) 1 2 3	4	0	12	
Total Targets Score			8	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			5,400	21,600	
7 Divide line 6 by 21,600 and multiply by 100			S_{DC} = 25.0		

FIGURE 12
DIRECT CONTACT WORK SHEET

BILLING CODE 6560-50-C

June 28, 1982

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. 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 that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: NEW WINDSOR LANDFILL

LOCATION: NEW WINDSOR, N.Y

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

UNKNOWN W/ PRESENT DATA

Rationale for attributing the contaminants to the facility:

Data are limited to a few residences, well depths unKnown. (See Section 7)

* * *

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

unknown

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

near surface

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

unknown

Net Precipitation

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

40 INCHES

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

28 INCHES

Net precipitation (subtract the above figures):

12 INCHES

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Area was once a wetland.

Permeability associated with soil type:

$< 10^{-3} > 10^{-5}$ cm/sec

Physical State

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

SLUDGE
SOLVENT } ALLEGEDLY DUMPED Liquids Score = 3

* * *

MUNICIPAL WASTE

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

LINER EVALUATED

Method with highest score:

NO LINER FOUND

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

PHENOL Mercury
TOLUENE Chromium
XYLENE Lead

Compound with highest score:

Mercury

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):

7,500 - 9,000 DRUMS ALLEGEDLY DUMPED

ADDITIONAL QUANTITIES UNKNOWN

Basis of estimating and/or computing waste quantity:

ALLEGED DUMPING BY LIGHTRON CO. OF CORNWALL & NEWBURG- BARREL & DRUM

* * *

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

DRINKING WATER

Distance to Nearest Well

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

nearby wells to south and east and north.

Distance to above well or building:

LESS THAN 2000 FT.

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:

101 — 1,000 PEOPLE

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):

NOT APPLICABLE

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

101 - 1,000 PERSONS SERVED

1 OBSERVED RELEASE

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

PHENOL
TOLUENE
XYLENE
MERCURY
CHROMIUM
LEAD

Rationale for attributing the contaminants to the facility:

ALLEGED DUMPING BY LIGHTRON CO. 3 NEWBURG BARREL 3 DRUM

* * *

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

0-5%

Name/description of nearest downslope surface water:

Silver Stream
Lake Washington

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

0-5%

Is the facility located either totally or partially in surface water?

Yes

Is the facility completely surrounded by areas of higher elevation?

NO

1-Year 24-Hour Rainfall in Inches

2.5 INCHES

Distance to Nearest Downslope Surface Water

Adjacent wetland

Physical State of Waste

SLUDGE
SOLVENT } ALLEGEDLY DUMPED Liquids Score = 3

MUNICIPAL WASTE * * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:
Runoff diversion

Method with highest score:
No diversion systems

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

PHENOL
TOLUENE
XYLENE
Mercury
Chromium
Lead

Compound with highest score:

Mercury

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):

7,500 - 9,000 DRUMS ALLEGEDLY DUMPED

ADDITIONAL AMOUNTS UNKNOWN

Basis of estimating and/or computing waste quantity:

ALLEGED DUMPING OF DRUMS BY LIGHTRON Co.
@ NEWBURG BARREL / DRUM

* * *

5 TARGETS

Surface Water Use

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

NEWBURG CITY LAKE WASHINGTON INTAKE (Drinking Water)

Is there tidal influence?

NONE

Distance to a Sensitive Environment

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

NONE

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

LANDFILL ORIGINALLY BUILT ON WETLAND. LANDFILL IS ADJACENT TO REMAINING MARSH ≥ 5 acres.

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

NONE

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:

LAKE WASHINGTON

23,488 PEOPLE SERVED

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

N/A

Total population served:

23,488 PEOPLE SERVED

Name/description of nearest of above water bodies:

(LAKE WASHINGTON)

NEWBURG CITY RESERVOIR

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

ONE TO TWO MILES

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

UNKNOWN No data available

Date and location of detection of contaminants

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:

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 or Historic Places and National Natural Landmarks) within the view of the site?

SCALE 1:250,000

0 5 MILES

NORTH

United States
Environmental Protection
Agency

Office of Emergency and
Remedial Response
Washington, DC 20460

EPA Form 2070-12
July, 1981

New Windsor

EPA

Potential Hazardous Waste Site

Preliminary Assessment

Preliminary Assessment

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE: NY | 02 SITE NUMBER: NYSA80531495

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
New Windsor Landfill	Silver Stream Road				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
New Windsor	NY	12550	Orange		

09 COORDINATES — LATITUDE: 41 29 50.- | LONGITUDE: 074 04 50.-

10 DIRECTIONS TO SITE (Starting from nearest public road)
off Silver Stream Rd near Stewart Airport.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)			
Town of New Windsor	555 Union Avenue			
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 TELEPHONE NUMBER**	
New Windsor	NY	12550	( )	
07 OPERATOR (If known and different from owner)	**08 STREET (Business, mailing, residential)**			
Same				
09 CITY	**10 STATE**	**11 ZIP CODE**	**12 TELEPHONE NUMBER**	
			( )	

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☒ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES ☐ NO DATE 5 3 83 (MONTH DAY YEAR)

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☒ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): Ecological Analysts

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION: 1962 (BEGINNING YEAR) | 1976 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Municipal wastes
Paint sludges, adhesive waste waters

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
potential contamination of surface water and municipal water supply.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)		03 TELEPHONE NUMBER
Mr. Raymond Kapp	Ecological Analysts Inc.		(914) 692-6706
04 PERSON RESPONSIBLE FOR ASSESSMENT	**05 AGENCY**	**06 ORGANIZATION** / **07 TELEPHONE NUMBER**	**08 DATE**
Mr. Charles Houlik		Ecological Analysts / (914) 692-6706	5 24 83 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NYD982531495

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☒ C. SLUDGE
- ☐ D. OTHER UNKNOWN (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO. OF DRUMS 7,500 - 9,000

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU ✓	SLUDGE	3,000	DRUMS	ALLEGED DUMPING BY LIGHTRON CO.
OLW	OILY WASTE	6		
SOL ✓	SOLVENTS	6,000	DRUMS	ALLEGED DUMPING BY NEWBURG BARREL & DRUM
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

DEC FILE

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: NYD980531495

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: ≤1,000
02 [ ] OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION
[X] POTENTIAL [ ] ALLEGED

UNKNOWN W/ PRESENT DATA

01 [X] B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: >10,000
02 [X] OBSERVED (DATE: 1984)
04 NARRATIVE DESCRIPTION
[ ] POTENTIAL [ ] ALLEGED

Leachate flows to surface water which flows to Lake Washington Res.
DETECTED:
PHENOL, TOLUENE, XYLENE, MERCURY, CHROMIUM, AND LEAD

01 [X] C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: ≤1,000
02 [ ] OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION
[X] POTENTIAL [ ] ALLEGED

No air data, but volatiles detected in leachate

01 [X] D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION
[ ] POTENTIAL [ ] ALLEGED

Not reported

01 [X] E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: 101-1,000
02 [ ] OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION
[X] POTENTIAL [ ] ALLEGED

pop. within 1 mile
Access not controlled.

01 [X] F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: _____ (Acres)
02 [ ] OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION
[X] POTENTIAL [ ] ALLEGED

No data.

01 [X] G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: >10,000
02 [ ] OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION
[X] POTENTIAL [ ] ALLEGED

surface water drains from site
towards municipal water supply (Newburgh)

01 [X] H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION
[ ] POTENTIAL [ ] ALLEGED

Not evaluated

01 [X] I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION
[ ] POTENTIAL [ ] ALLEGED

Not evaluated.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NYD980531495

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION: None reported

01 ☒ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)
none reported

01 ☒ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
unknown

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10,000
04 NARRATIVE DESCRIPTION
surface water drains into Lake Washington

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Not reported

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Storm drains may be along water course

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Not reported.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: >10,000

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)

NYSDEC
Town of New Windsor

United States
Environmental Protection
Agency

Office of Emergency and
Remedial Response
Washington, DC 20460

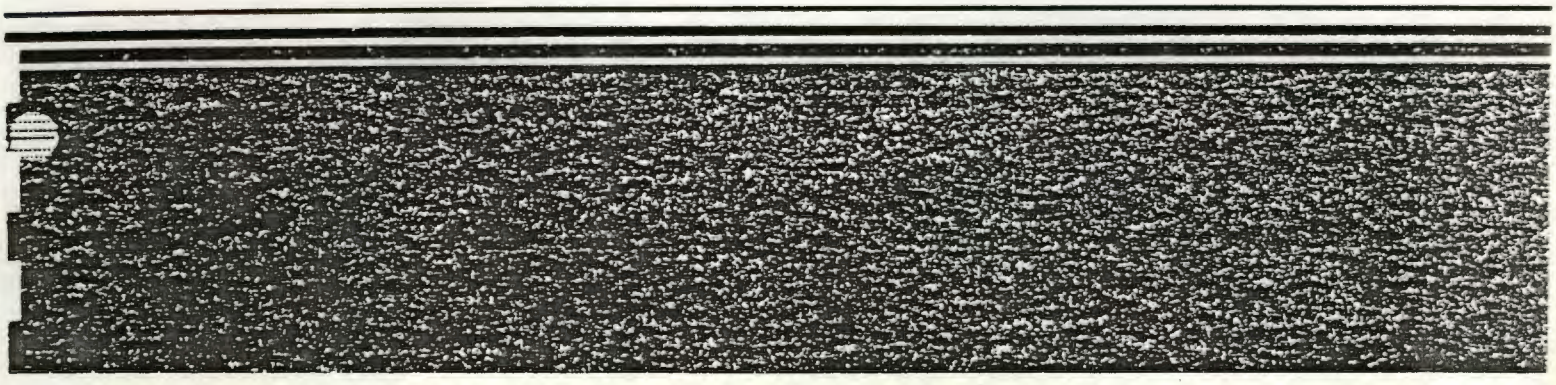
EPA Form 2070-13
July, 1981

New Windsor

EPA

Potential Hazardous Waste Site

Site Inspection Report



Site Inspection Report

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NYD980531495

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
New Windsor Landfill	Silver Stream Road				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
New Windsor	NY	12550	Orange		

09 COORDINATES LATITUDE 41 29 50.- | LONGITUDE 074 04 50.-

10 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☒ E. MUNICIPAL
☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
5 3 83 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	1962 (BEGINNING YEAR) 1976 (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☒ F. STATE CONTRACTOR Ecological Analysts (EA) (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Charles Houlik	Hydro geologist	EA	(914) 692-6706
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
William Going	Scientist	EA	(914) 692-6706
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Mr. Petro	Town Supervisor		( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	9 AM	Cloudy, warm, recent heavy rain

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Mr. Raymond Kapp	Ecological Analysts Inc.	(914) 692-6706

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Mr. Charles Houlik		Ecological Analysts	914-692-6706	5 26 83 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NYD980531495

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☒ C. SLUDGE
- ☐ D. OTHER (Specify) UNKNOWN
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE
(Measures of waste quantities must be independent)

TONS: ____
CUBIC YARDS: ____
NO. OF DRUMS: 7,500 - 9,000

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU ✓	SLUDGE	3,000	DRUMS	ALLEGEDLY DUMPED BY LIGHTRON CO.
OLW	OILY WASTE			
SOL ✓	SOLVENTS	6,000	DRUMS	ALLEGEDLY DUMPED BY NEWBURG BARREL & DRUM
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers) Unknown

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers) Unknown

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

DEC FILE

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: NYD980531495

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: ≤1,000
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

UNKNOWN w/ PRESENT DATA

01 ☒ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: >10000
02 ☒ OBSERVED (DATE: 1981) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

DETECTED: PHENOL, TOLUENE, XYLENE,
Surface water at site flows to Lake Washington Reservoir

01 ☒ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

No data, but volatiles in leachate

01 ☒ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Not reported

01 ☒ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: 1017000
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

pop. within 1 mile
Access not controlled

01 ☒ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: _____ (Acres)
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

No data

01 ☒ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: >10,000
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

>10,000 surface water drains from site toward municipal water supply. (Lake Washington)

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

Not evaluated

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

Not evaluated

EPA

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

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: NYD980531495

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION: None reported

01 ☒ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species): none reported

01 ☒ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION: none known

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: >10,000
04 NARRATIVE DESCRIPTION: surface water from site drains to Lake Washington (municipal water supply)

01 ☒ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION: Not reported

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION: Possibly along watercourse

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION: Not reported.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: >10,000

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
NYSDOH, 1982, Atlas of Community Water System Sources; Topo maps; NYSDEC Files

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NV	NVD 980531495

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☑ F. LANDFILL	Unknown	
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

14+ (Acres)

07 COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

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

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

Landfill has no liners; built on wetland.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

Access not controlled, leachate visible.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

DEC. FILE

EAI INSPECTION

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NV	WVD980531495

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☒	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☒	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 1-2 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☒ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 101 - 1,000

03 DISTANCE TO NEAREST DRINKING WATER WELL < 1/4 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
(near surface) (ft)	Northwest	_____ (ft)	_____ (gpd)	☐ YES ☐ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

Suburban/rural area served by private wells.

10 RECHARGE AREA		11 DISCHARGE AREA	
☐ YES ☐ NO	COMMENTS	☐ YES ☐ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☑ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
SILVER STREAM	☐	< 1/4 (mi)
WASHINGTON LAKE	☐	1-2 (mi)
	☐	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE A. _____ NO. OF PERSONS
TWO (2) MILES OF SITE B. _____ NO. OF PERSONS
THREE (3) MILES OF SITE C. _____ NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION < 1/4 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE _____

04 DISTANCE TO NEAREST OFF-SITE BUILDING < 1/4 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

CITY OF NEWBURG IN VICINITY OF SITE, OTHERWISE RURAL/SUBURBAN

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NY0980531495

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one) — Assumed

☐ A. 10^{-6} – 10^{-8} cm/sec ☐ B. 10^{-4} – 10^{-6} cm/sec ☒ C. 10^{-4} – 10^{-3} cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE (10^{-4} – 10^{-6} cm/sec) ☐ C. RELATIVELY PERMEABLE (10^{-2} – 10^{-4} cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
Unknown (ft)	unknown (ft)		

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
12 (in)	2.5 (in)	≤5 %	N	≤5 %

09 FLOOD POTENTIAL

SITE IS IN _____ YEAR FLOODPLAIN

10

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)

OTHER: B. Adjacent (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

NONE KNOWN _____ (mi)

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	AGRICULTURAL LANDS: AG LAND
A. ¼ (mi)	B. ¼ (mi)	C. _____ (mi)	D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

SITE IS OPEN, FLAT AND BEGINNING TO BE REVEGETATED. LOW WOODED LANDS SURROUND SITE, RUNOFF FROM THIS AREA DRAINS TO SITE FORMING STANDING SURFACE WATER

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

E.A. - INSPECTION

NYSDEC

(See Section 7)

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NV	NVD980531493

II. SAMPLES TAKEN NONE

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN NONE

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☐ AERIAL

02 IN CUSTODY OF Ecological Analysts Inc.
(Name of organization or individual)

03 MAPS ☐ YES ☐ NO

04 LOCATION OF MAPS

V. OTHER FIELD DATA COLLECTED *(Provide narrative description)*

VI. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

EPA FORM 2070-13 (7-81)

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NYD980531495

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Town of New Windsor		555 Union Avenue		New Windsor	NY	12550

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

D.E.C. FILES

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NV	NVD980531495

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
OUT OF OPERATION	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NYD980531495

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Lightron Company		Tuck Tape Company	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
Cornwall			
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
Cornwall	NY	Beacon	NY
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Newburgh Barrel and Drum			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
Newburgh	NY		

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NYSDEC Region 3 Files
Town of New Windsor

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJ	NYD980531495

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJ	NJD980531495

II PAST RESPONSE ACTIVITIES *(Continued)*

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NJ	NJD980535140

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

EPA FORM 2070-13 (7-81)

5.3 SITE INSPECTION SUMMARY

On 3 May 1983, representatives of Ecological Analysts, Inc. (EA) visited the New Windsor Landfill in New Windsor, New York. The scientists representing EA were C. W. Houlik and B. Going. A perimeter walk was conducted and many pictures were taken. Observations were made in the form of a photo log.

The landfill was observed to be low and flat and open, surrounded by low wooded (swampy) areas on all sides, except where it abuts the New York State Thruway along its east perimeter. The landfill had evidently been built on a wetland or swale. At the south end of the landfill where the entrance gate is located, a low wooded area held standing water which drained to the north along both sides of the landfill. Drainage leaves the site through a surface stream at the extreme north end of the landfill. The stream was observed to contain red leachate. The stream is shown on the USGS topographic map to travel north and east into Washington Lake (a field check verified this).

The landfill area (about 14 acres) was well compacted and stabilized by grasses and shrubs of pioneer and old field variety. Several lifts of garbage were noted near the north end of the landfill. The vegetation that grew up through these lifts suggested that they were years apart in age. It was also observed that garbage had recently been dumped at this end of the landfill.

A swift seep was located in the northeast corner of the landfill (there had been a lot of rain recently), which formed a small pond of water at the base of the Thruway embankment. An oily sheen was observed on this pool. Several partially buried drums were observed in this spot, as well as in the older lifts at the north end of the site.

Attachment 6-1

page 1 of [illegible]

33G019
TOWN OF NEW WINDSOR LANDFILL 3
ORANGE NEW WINDSOR
SILVER STREAM ROAD

Status of Site [illegible]:

SITE IS PRESENTLY COVERED AND EVERGREEN WITH BRUSH, SMALL TREES, [illegible] USED FOR SPRING CLEAN UP AND NON-PUTRESCIBLE TRASH. A CONIFER PLANTING PROGRAM WAS BEGUN 3 YEARS AGO, ONLY A FEW TREES SURVIVED. It is suspected that Lightron of Cornwall had been permitted to dump 55 gallon drums of chemical waste at this site several years ago. The site had a record of dumping into water, and ponding of water on the site

Type of Site: Open Dump ☐ ✓ Landfill ☒ Structure ☐ Treatment Pond(s) ☐ Lagoon(s) ☐ Number of Ponds ____ Number of Lagoons ____

Estimated Size 14 Acres

Hazardous Wastes Disposed? Confirmed ☐ Suspected ☒

Type and Quantity of Hazardous Wastes:

TYPE	QUANTITY (Pounds, drums, tons, gallons)
CHEMICALS	200 DRUMS

Use additional sheets if more space is needed.

NL-7

NEW WINDSOR N.Y. 12550

[illegible]

JUNE 6, 1962 — APRIL 10, 1976

[illegible] Active ☐ Inactive ☑

(Site is inactive if hazardous wastes were disposed of at this site and site was closed prior to August 13, 1979.)

Types of Samples: Air ☐ Groundwater ☐ None ☑
Surface Water ☐ Soil ☐

Remedial Action: Proposed ☐ Under Design ☐
In Progress ☐ Completed ☐
Nature of Action: NONE

Status of Legal Action: NONE State ☐ Federal ☐

Permits Issued: Federal ☐ Local Government ☐ SPDES ☐
Solid Waste ☐ Mined Land ☐ Wetlands ☐ Other ☐

Assessment of Environmental Problems:

TRIBUTARY OF SILVER STREAM PASSES THROUGH SITE.
Additional samples of the various media need to be taken to assess the impact upon the environment

Assessment of Health Problems:

SILVER STREAM IS A MAIN TRIBUTARY OF WASHINGTON LAKE, A CITY OF NEWBURG WATER SUPPLY.

Persons Completing this Form:

Cook [illegible]
[illegible] David Rounds, P.E.

New York State Department of Environmental Conservation
Date 8/19/85 9/2/85

New York State Department of Health
Date

[illegible]

NL-8

6-a

page 1 of 4

REFUSE DISPOSAL AREA INSPECTION REPORT

NAME OF SITE: Thomas Palumbo	LOCATION (TOWN, CITY, VILLAGE): New Windsor	COUNTY: Orange	REGION NO.
OPERATOR: Same	ADDRESS: Susan Drive R.D. #1 Newburgh N.Y.		SITE NO.
OWNER	ADDRESS: Same		

EXPLAIN YES ANSWERS ON REVERSE SIDE

	YES	NO
1. Burning at Time of Inspection.	☐	☑
2. Evidence of On-site burning.	☐	☑
3. Dumping into Water.	☑	☐
4. Leachate Observed At The Site.	☐	☑
5. Leaching into a Water Course.	☐	☑
6. Refuse not Confined to a Manageable Area.	☑	☐
7. Unsatisfactory Daily Soil Cover.	☑	☐
8. Refuse Protruding through Completed Areas.	☑	☐
9. Improper Spreading and Compaction of the Refuse.	☑	☐
10. Pooling of Water, Cover Soil Cracking, Soil Erosion, or Improper Slope on Completed Area.	☑	☐
11. Evidence of Rodents and Insects.	☐	☑
12. Blowing Paper Problem.	☐	☑
13. Salvaging of Refuse Creating a Nuisance.	☐	☑
14. Approach Road Impassable to Vehicular Traffic During part of the year.	☑	☐

CONTROL OF SITE

☐ Signs ☐ Fence and Gate ☐ Supervision ☑ None

EQUIPMENT AT SITE

Type: None

Size

TYPE OF REFUSE DISPOSED

☑ Residential ☑ Commercial ☑ Industrial ☑ Demolition ☐ Agricultural ☐ Scavenger

PERSON INTERVIEWED: No one on site

DATE: Month 02 Day 18 Year 76 | TIME

INSPECTED BY (Signature): [signature]

TITLE: EHT

A-1 (12/71)

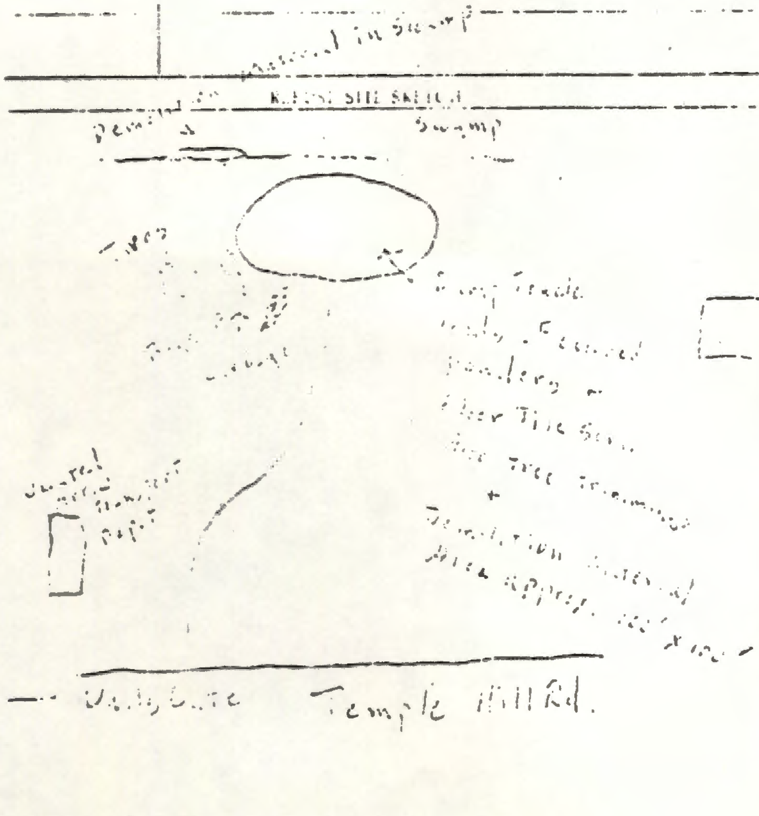
3 [illegible] — Some demolition has also been [illegible] into the area,

6-11 Uncontrolled dumping of tires, garbage, industrial wastes from [illegible] the G.A.F. Floor Products Division, tree trimmings and demolition rubble.

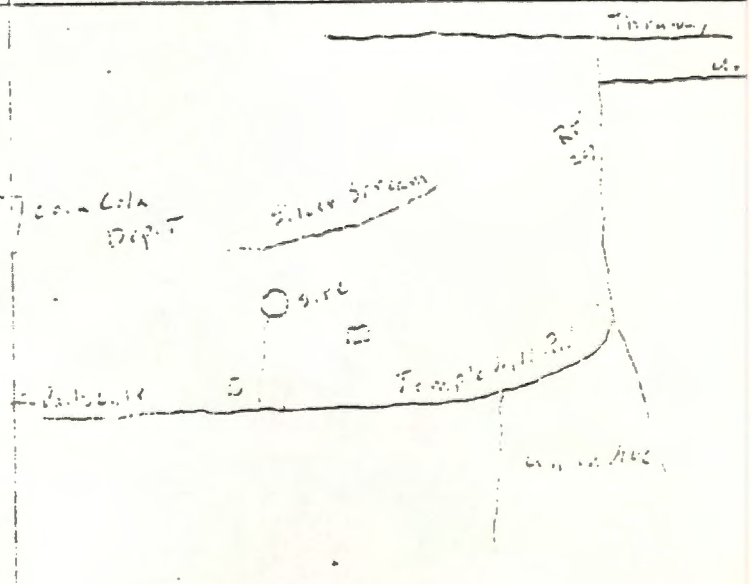
14 Appeared extremely settled.

Tax map specs — T. New Windsor Map 4 Block 3 Lots 12 & 13

REFUSE SITE SKETCH



LOCATION SKETCH



NOTE: The initial identification of a potential site or incident should not be interpreted as a finding of illegal activity or confirmation that an actual health or environmental threat exists. All identified sites will be assessed under the EPA's Hazardous Waste Site Enforcement and Response System to determine if a hazardous waste problem actually exists.

A. SITE NAME	B. STREET (or other identifier)		
Town of New Windsor Landfill	near N.Y. Route 207 and N.Y. Thruway		
C. CITY	**D. STATE**	**E. ZIP CODE**	**F. COUNTY NAME**
New Windsor (T)	N.Y.	12550	Orange

G. OWNER/OPERATOR (if known)

1. NAME

2. TELEPHONE NUMBER

H. TYPE OF OWNERSHIP (if known)

☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☒ 4. MUNICIPAL ☐ 5. PRIVATE ☐ 6. UNKNOWN

I. SITE DESCRIPTION

The former Town of New Windsor Landfill, located at the above address is situated in a wetlands area. The site was apparently used for disposal of commercial, industrial and household wastes. There are no records of the exact nature of the wastes deposited (according to the complaint: "apparently no records").

J. HOW IDENTIFIED (i.e., citizen's complaints, OSHA citations, etc.)

Lawrence D. Rossini, V.P., Beaver Dam Lake Asso. Inc. New Windsor, NY 12550, R.D.#4 Beaver Dam Lake

K. DATE IDENTIFIED (mo., day, & yr.)

8/ 14/ 80

L. SUMMARY OF POTENTIAL OR KNOWN PROBLEM

The wetlands area discharges into a stream, which is tributary to Washington Lake, a City of Newburgh reservoir. There is a possibility that toxic and hazardous materials may be present at this site. Therefore danger exists that leachate emanating from the wastes buried in the landfill may enter the stream and pollute the reservoir with unknown contaminants having a detrimental effect on the city of Newburgh Water Supply.

For additional information if any, NY DEC Region #3 office in White Plaint was contacted. Mr. Jack Doty, Principal Engineering Technician, unavailable for several days, others are not familiar with this site.

Seriousness of problem: unknown

No priority rating due to insufficient information.

Site visit is recommended. + Jack Doty

M. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE (mo., day, & yr.)
George B. Radan	(212) 264-1576	8 /26/ 80

4. ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE.

VI. HAZARD DESCRIPTION

A. TYPE OF HAZARD	B. POTENTIAL HAZARD (mark 'X')	C. ALLEGED INCIDENT (mark 'X')	D. DATE OF INCIDENT (mo., day, yr.)	E. REMARKS
1. NO HAZARD				
2. HUMAN HEALTH				
3. NON-WORKER INJURY/EXPOSURE				
4. WORKER INJURY				
5. CONTAMINATION OF WATER SUPPLY	X			CARETAKERS HOUSE ON THE LANDFILL HAS A PRIVATE WELL. IT WILL BE SAMPLED BY DEC.
6. CONTAMINATION OF FOOD CHAIN				
7. CONTAMINATION OF GROUND WATER	X			WETLANDS AROUND THE PERIPHERY OF LANDFILL DRAIN INTO SILVER STREAM,
8. CONTAMINATION OF SURFACE WATER	X			WHICH FLOWS A 1/4 MILE AWAY TO A DIVERSION CHAMBER WHICH DIRECTS THE FLOW TOWARD LAKE WASHINGTON (QUANTITY
9. DAMAGE TO FLORA/FAUNA	X			UNKNOWN) SEVERAL TREES IN WETLANDS DIED OR ARE DYING
10. FISH KILL				
11. CONTAMINATION OF AIR				
12. NOTICEABLE ODORS				
13. CONTAMINATION OF SOIL				
14. PROPERTY DAMAGE				
15. FIRE OR EXPLOSION				
16. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS	X			THERE ARE SOME INDICATIONS OF LEACHATE: RED STAINS, NOT FLOWING.
17. SEWER, STORM DRAIN PROBLEMS				
18. EROSION PROBLEMS				
19. INADEQUATE SECURITY				
20. INCOMPATIBLE WASTES				
21. MIDNIGHT DUMPING				
22. OTHER (specify):				

Continue On Reverse

Agency
Washington DC

This initial notification information is required by Section 103(c) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 and must be mailed by June 9, 1981.

Please type or print in ink. If you need additional space, use separate sheets of paper. Indicate the letter of the item which applies.

81012

NYS 000 001 181

Person Required to Notify:

Enter the name and address of the person or organization required to notify.

Name: Paul V. Cuomo, P.E., Town Engineer
Town of New Windsor

Street: 555 Union Avenue

City: New Windsor State: NY Zip Code: 12550

Site Location:

Enter the common name (if known) and actual location of the site.

NYD 980531495

Name of Site: New Windsor Sanitary Landfill

Street: Silver Stream Road

City: New Windsor County: Orange State: NY Zip Code: 12550

Person to Contact:

Enter the name, title (if applicable), and business telephone number of the person to contact regarding information submitted on this form.

Name (Last, First and Title): ~~Cuomo, Paul V.~~ ~~Paul V. Cuomo~~, P.E., Town Engineer
Town of New Windsor

Phone: (914) 565-8802

Dates of Waste Handling:

Enter the years that you estimate waste treatment, storage, or disposal began and ended at the site.

From (Year): June, 1962 To (Year): ~~January 1,~~ 1976

Waste Type: Choose the option you prefer to complete

Option 1: Select general waste types and source categories. If you do not know the general waste types or sources, you are encouraged to describe the site in Item I—Description of Site.

General Type of Waste:
Place an X in the appropriate boxes. The categories listed overlap. Check each applicable category.

1. XX Organics
2. ☐ Inorganics
3. XX Solvents
4. ☐ Pesticides
5. ☐ Heavy metals
6. ☐ Acids
7. ☐ Bases
8. ☐ PCBs
9. XX Mixed Municipal Waste
10. ☐ Unknown
11. ☐ Other (Specify)

Source of Waste:
Place an X in the appropriate boxes.

1. ☐ Mining
2. ☐ Construction
3. ☐ Textiles
4. ☐ Fertilizer
5. XX Paper/Printing
6. ☐ Leather Tanning
7. ☐ Iron/Steel Foundry
8. XX Chemical, General
9. XX Plating/Polishing
10. ☐ Military/Ammunition
11. ☐ Electrical Conductors
12. ☐ Transformers
13. ☐ Utility Companies
14. ☐ Sanitary/Refuse
15. ☐ Photofinish
16. ☐ Lab/Hospital
17. ☐ Unknown
18. ☐ Other (Specify)

Option 2: This option is available to persons familiar with th Resource Conservation and Recovery Act (RCRA) Section 30 regulations (40 CFR Part 261). N/A

Specific Type of Waste:
EPA has assigned a four-digit number to each hazardous wa listed in the regulations under Section 3001 of RCRA. Enter appropriate four-digit number in the boxes provided. A copy the list of hazardous wastes and codes can be obtained by contacting the EPA Region serving the State in which the si located.

Form Approved

...ace an X in the appropriate boxes to ...indicate the facility types found at the site.

...n the "total facility waste amount" space ...ive the estimated combined quantity (volume) of hazardous wastes at the site using cubic feet or gallons.

...n the "total facility area" space, give the ...stimated area size which the facilities occupy using square feet or acres.

1. ☐ Piles
2. ☐ Land Treatment
3. ☒ Landfill
4. ☐ Tanks
5. ☐ Impoundment
6. ☐ Underground Injection
7. ☐ Drums, Above Ground
8. ☐ Drums, Below Ground
9. ☐ Other (Specify) _____

cubic feet ~~4 million (+ or -)~~

gallons _____

Total Facility Area

square feet _____

acres 14 A

Known, Suspected or Likely Releases to the Environment:

Place an X in the appropriate boxes to indicate any known, suspected, ...r likely releases of wastes to the environment.

☐ Known ☒ Suspected ☐ Likely ☐ N...

Note: Items H and I are optional. Completing these items will assist EPA and State and local governments in locating and asses... hazardous waste sites. Although completing the items is not required, you are encouraged to do so.

Sketch Map of Site Location: (Optional)

Sketch a map showing streets, highways, ...outes or other prominent landmarks near ...he site. Place an X on the map to indicate ...he site location. Draw an arrow showing the direction north. You may substitute a ...ublishing map showing the site location.

see attached

Description of Site: (Optional)

Describe the history and present conditions of the site. Give directions to the site and describe any nearby wells, springs, lakes, or housing. Include such information as how waste was disposed and where the waste came from. Provide any other information or comments which may help describe the site conditions.

Signature and Title:

The person or authorized representative (such as plant managers, superintendents, trustees or attorneys) of persons required to notify must sign the form and provide a mailing address (if different than address in item A). For other persons providing notification, the signature is optional. Check the boxes which best describe the relationship to the site of the person

Name Paul V. Cuomo, P.E., Town Engineer
Town of New Windsor

Street 555 Union Avenue

City New Windsor State NY Zip Code 12550

Signature _____ Date June 11, 1981

☐ Owner, Preser
☐ Owner, Past
☐ Transporter
☐ Operator, Pres
☐ Operator, Past
☒ Other

HAZARDOUS WASTE SITE INVESTIGATION
Town of New Windsor Landfill
New Windsor, New York

TDD #02-8011-55

April 28, 1981

Participating Personnel: Fred C. Hart Associates, Inc.,

Michael Rosenberg, Sr. Environmental Engr.
James Shirk, Sr. Environmental Engr.
James Perazzo, Geohydrologist

Report Prepared by: Michael Rosenberg

Michael Rosenberg
Sr. Environmental Engineer

MR/hs

Michael Rosenberg
Sr. Environmental Engineer

TDD # 02-8011-55

April 28, 1981

BACKGROUND

The New Windsor Landfill is a 14 acre site located in a marshy area directly west of the New York State Thruway and east of Stewart Airport. It accepted primarily municipal waste but also accepted some industrial waste prior to its closing in 1976. The site is now used for leaf composting and gravel storage.

NATURE OF PROBLEM

The industrial waste accepted by the landfill included paint sludge and adhesive wastewater. The landfill borders on a wetland area which feeds Silver Stream, a tributary of Lake Washington. Lake Washington is a drinking water source for the City of Newburgh. There is a possibility that leachate from the landfill could have a detrimental effect on Newburgh's water supply.

NATURE OF MATERIALS DISPOSED AT SITE

5-6 drums per week of paint sludge were dumped by Lightron of Cornwall with a maximum total of approximately 2,500-3,000 drums. 5,000-6,000 gallons of adhesive wastewater was dumped by Newburgh Barrel and Drum Co. for Tuck Tape Co. of Beacon, New York. Municipal waste from the Town of New Windsor was also dumped at the landfill.

GROUNDWATER

The landfill is located in a marshy area which feeds the Silver Stream a tributary of Lake Washington. Depth to groundwater is unknown and no monitoring wells exist at the landfill. Several private supply wells are within a short distance but have not been monitored. The marshy area has been sampled and did not

reveal any significant contamination. The Newburgh water supply is regularly monitored and results indicate that the water is of acceptable quality.

STATUS OF STATE INVOLVEMENT

The landfill is inspected on a quarterly basis by New York DEC and the DEC is actively working with the Town of New Windsor to begin remedial work at the site.

CONCLUSIONS

Sampling for priority pollutants was recommended at nearby private supply wells to determine if any groundwater contamination is occurring. Since this site may fall under New York State jurisdiction, DPO advised FIT that sampling should not be conducted at this time.

TO:	FROM:	DATE / TIME
Dr. Richard Spear	Michael Rosenberg	March 12, 1981 9:00 AM

SUBJECT

TOWN OF NEW WINDSOR LANDFILL, NEW WINDSOR, N.Y.

Attachment 6-4
page 1 of 14

SUMMARY OF COMMUNICATION

The New Windsor landfill is located in a marshy area directly west of the New York State Thruway and east of Stewart Airport. It accepted primarily municipal waste but also accepted some industrial waste prior to its closing in 1976. The industrial waste included paint sludge and adhesive wastewater. The marshy area in which the landfill is located, drains into the Silver Stream which flows into Lake Washington. Lake Washington is a drinking water source for the City of Newburgh. There is a possibility that leachate from the landfill could have a detrimental effect on Newburgh's water supply.

CONCLUSIONS, ACTION TAKEN OR REQUIRED

The landfill is inspected on a quarterly basis by New York DEC, and the DEC is actively working with the Town of New Windsor to begin remedial work at the site. Sampling for priority pollutants is recommended at nearby private supply wells to determine if any groundwater contamination is occuring. Monitoring of drinking water quality should be continued on a regular basis.

INFORMATION COPIES TO:

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET (or other identifier)		
TOWN OF NEW WINDSOR LANDFILL	Silver Stream Road		
C. CITY	**D. STATE**	**E. ZIP CODE**	**F. COUNTY NAME**
New Windsor	NY	12550	Orange

G. SITE OPERATOR INFORMATION

1. NAME		2. TELEPHONE NUMBER	
Town of New Windsor			
3. STREET	**4. CITY**	**5. STATE**	**6. ZIP CODE**
555 Union Avenue	New Windsor	NY	12550

H. REALTY OWNER INFORMATION (if different from operator of site)

1. NAME		2. TELEPHONE NUMBER	
Town of New Windsor			
3. CITY		**4. STATE**	**5. ZIP CODE**
555 Union Avenue		NY	12550

I. SITE DESCRIPTION
Old municipal landfill now used for leaf composting and gravel storage.

J. TYPE OF OWNERSHIP
☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☒ 4. MUNICIPAL ☐ 5. PRIVATE

II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.)	B. APPARENT SERIOUSNESS OF PROBLEM
3/12/81	☐ 1. HIGH ☒ 2. MEDIUM ☐ 3. LOW ☐ 4. NONE

C. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE (mo., day, & yr.)
Michael Rosenberg	(201) 621-6800	3/12/81

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION

1. NAME	2. TITLE	4. TELEPHONE NO. (area code)
Michael Rosenberg	Senior Environmental Engineer	(201) 621-6800
3. ORGANIZATION		
Fred C. Hart Associates		

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
Jim Shirk	Fred C. Hart Associates, Inc.	(201) 621-6800
Jim Perazzo	Fred C. Hart Associates, Inc.	(201) 621-6800

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, soil, etc.)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
Lyman Masters	Sanitation Superintendant	555 Union Avenue New Windsor, NY 12550 (914) 561-2
Bob Ellis	Camo Pollution Control	25 Albany Post Road Hyde Park, NY 12538 (914) 229-83
Fred Fayo	Supt. of Highways	875-81 Union Avenue New Windsor, NY 12550 (914) 564-

Continued On Reverse

Lightron of Cornwall	(914)562-5500	River Rd. New Windsor, NY	Municipal Waste Paint Sludge
Tuck Tape Co.		Beacon, NY	Adhesive wastewate

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
Town of New Windsor			Municipal Waste
Newburgh Barrel & Drum	(914) 562-3367	Newburgh, NY	Hauler for Tuck Ta

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS
No waste processed on site.		

G. DATE OF INSPECTION (mo., day, & yr.)	H. TIME OF INSPECTION	I. ACCESS GAINED BY: (credentials must be shown in all cases)
1/21/81	1:00 PM	[X] 1. PERMISSION [ ] 2. WARRANT

J. WEATHER (describe)

Sunny, mid-twenties, snow on the ground

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER	No samples	taken	
b. SURFACE WATER			
c. WASTE			
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)			

FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
No field measurements taken		

Continued On Page 3

[X] B. GROUND [ ] D. AERIAL | Fred C. Hart Associates, Inc.

C. SITE MAPPED?

[X] YES. SPECIFY LOCATION OF MAPS.

Fred C. Hart Associates, Inc.

E. COORDINATES

1. LATITUDE (deg-min-sec.) 41° 29' 50"

2. LONGITUDE (deg-min-sec.) 74° 04' 50"

V. SITE INFORMATION

A. SITE STATUS

[ ] 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if intermittently.)

[X] 2. INACTIVE (Those sites which no longer receive wastes.)

[ ] 3. OTHER (specify): _____ (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

B. IS GENERATOR ON SITE?

[X] 1. NO [ ] 2. YES (specify generator's four-digit SIC Code): _____

C. AREA OF SITE (in acres): 14

D. ARE THERE BUILDINGS ON THE SITE?

[X] 1. NO [ ] 2. YES (specify):

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

	A. TRANSPORTER		B. STORER		C. TREATER		D. DISPOSER
	1. RAIL		1. PILE		1. FILTRATION	X	1. LANDFILL
	2. SHIP		2. SURFACE IMPOUNDMENT		2. INCINERATION		2. LANDFARM
	3. BARGE		3. DRUMS		3. VOLUME REDUCTION		3. OPEN DUMP
	4. TRUCK		4. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT
	5. PIPELINE		5. TANK, BELOW GROUND		5. CHEM./PHYS./TREATMENT		5. MIDNIGHT DUMPING
	6. OTHER (specify):		6. OTHER (specify):		6. BIOLOGICAL TREATMENT		6. INCINERATION
					7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION
					8. SOLVENT RECOVERY		8. OTHER (specify):
					9. OTHER (specify):		

E. SUPPLEMENTAL REPORTS. If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this for..

[ ] 1. STORAGE [ ] 2. INCINERATION [X] 3. LANDFILL [ ] 4. SURFACE IMPOUNDMENT [ ] 5. DEEP WELL

[ ] 6. CHEM/BIO/PHYS TREATMENT [ ] 7. LANDFARM [ ] 8. OPEN DUMP [ ] 9. TRANSPORTER [ ] 10. RECYCLER/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

[X] 1. LIQUID [X] 2. SOLID [X] 3. SLUDGE [ ] 4. GAS

B. WASTE CHARACTERISTICS

[ ] 1. CORROSIVE [ ] 2. IGNITABLE [ ] 3. RADIOACTIVE [ ] 4. HIGHLY VOLATILE

[ ] 5. TOXIC [ ] 6. REACTIVE [X] 7. INERT [ ] 8. FLAMMABLE

[ ] 9. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

NO

Drums/week	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE gallons	UNIT OF MEASURE	UNIT OF MEASUR
X (1) PAINT PIGMENTS	(1) OILY WASTES	(1) HALOGENATED SOLVENTS	(1) ACIDS	(1) PLATING	(1) LABORATO PHARMACE
(2) METALS SLUDGES	(2) OTHER (specify):	(2) NON-HALOGNTD. SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOSPITAL
(3) PAINTS		(3) OTHER (specify):	(3) CAUSTICS	(3) DRILLING/MINE TAILINGS	(3) RADIOACTI
(4) ALUMINUM SLUDGE			(4) PESTICIDES	(4) FERROUS SMELTING WASTES	X (4) MUNICIPAL
(5) OTHER (specify): Possible total 2500-3000 drums from Lightron of Cornwall			(5) DYES/INKS	(5) NON-FERROUS SMLTG. WASTES	(5) OTHER (spec
			(6) CYANIDE	(6) OTHER (specify):	
			(7) PHENOLS		
			(8) HALOGENS		
			(9) PCB		
			(10) METALS		
			(11) OTHER (specify): Adhesive Washwater		

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

1. SUBSTANCE	2. FORM (mark "X")			3. TOXICITY (mark "X")				4. CAS NUMBER	5. AMOUNT	6. UN
	a. SOLID	b. LIQ.	c. VAPOR	a. HIGH	b. MED.	c. LOW	d. NONE			
Paint Sludge	X					X				
Adhesive Washwater		X				X				

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

X A. HUMAN HEALTH HAZARDS

A health hazard could exist if drinking water supplies become contaminated.

Continue On Page 5

☐ C. WORKER INJURY/EXPOSURE

N/A

☒ D. CONTAMINATION OF WATER SUPPLY

The landfill borders on a wetland area which apparently feeds Silver Stream, a tributary of Lake Washington. This lake is the drinking water supply for the city of Newburgh, NY. The Newburgh water supply is regularly monitored under the safe drinking water act. Results from these tests indicate that the water is of acceptable quality.

☐ E. CONTAMINATION OF FOOD CHAIN

N/A

☒ F. CONTAMINATION OF GROUND WATER

The landfill may be affecting groundwater quality. No monitoring wells exist at the landfill. However, there are a few private supply wells in the area. These wells are not being monitored.

☒ G. CONTAMINATION OF SURFACE WATER

- The landfill is in a wet marshy area. This area was sampled by Camo Pollution Control and did not reveal any significant contamination.

several dead trees in the wetland area adjacent to the landfill.

☐ I. FISH KILL

N/A

☐ J. CONTAMINATION OF AIR

N/A

☐ K. NOTICEABLE ODORS

N/A

☐ L. CONTAMINATION OF SOIL

N/A

☐ M. PROPERTY DAMAGE

N/A