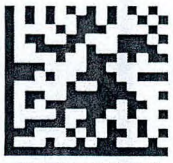

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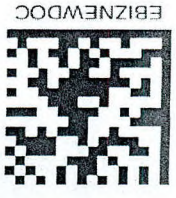

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FRED C. HART ASSOCIATES, INC. • CONSULTANTS

530 FIFTH AVENUE, NEW YORK, N. Y. 10036 (212) 840-3990

NHN
Copy MJOT
CNG

January 14, 1985

P. Keller
A. K Jauss
R. Gardiner
Reg. 3

Chief, Hazardous Waste Site Branch
Office of Emergency and Remedial Response
U.S. Environmental Protection Agency
Room 402
26 Federal Plaza
New York, New York 10278

Attention: Patricia Wells, Project Officer,
Wallkill Site

Dear Ms. Wells:

Enclosed please find two copies of the following documents:

(1) Monthly Periodic Progress Report, 12/1/84 - 12/30/84.

(2) Trip Report December 27 and 28th, 1984, Potable Well Sampling.

(3) Results of November 29, 1984, Potable Well Sampling Campaign.

Sincerely,

FRED C. HART ASSOCIATES, INC.

David Lipsky

David Lipsky, Ph.D
Manager, Public Health and Chemistry

DL/se (A1/M)
(A037)

cc: Director, Division of Solid and Hazardous Waste
New York State Department of Environmental Conservation

Commissioner of Health
Orange County Department of Health

General Switch Corporation
Middletown, New York
Monthly Periodic Progress Report

12/1/84 - 12/31/84

Work Efforts Completed to Date

In compliance with the Adminsitrative Order on Consent issued to General Switch (GSC) on May 1, 1984, the following activities, referenced to the appropriate section of the Order, were conducted during the month of December, 1984, on behalf of General Switch by Fred C. Hart Associates:

Section I-B

On December 27th and 28th, 21 potable wells were sampled for the December campaign. A trip report is provided as an attachment to the monthly report.

Section I-C

As of the date of the submission of this report, the Town of Wallkill and GSC have reached a tenative agreement regarding the construction of a water supply main system (the system), subject to the written approval of USEPA that the construction of the system is in compliance with and satisfies GSC's obligations under Section I-C of the Order. On November 9, 1984 a "Request for Authority fo Proceed" was delivered to USEPA. By written response, USEPA confirmed that the tentative agreement would, if implemented, satisfy Section I.C.6. of the Order. As of the date hereof, the system has been substantially completed.

Section III-D

The Middletown City Council is presently considering the request to discharge pump water from the pump test into the Middletown sewer.

MEMORANDUM

TO: Dave Lipsky

FROM: Jose Vega

RE: General Switch

DATE: January 3, 1985

On December 27th and 28th, I sampled 21 potable wells in the vicinity of General Switch. Two replicates, one field blank, and trip blank were collected. The sample numbers and locations are as follows:

Sample #	Owner	Address
PW-1	Tessler	287 Highland Ave.
PW-2	Smith	291 Highland Ave.
PW-3	Janiak	295 Highland Ave.
PW-4	Knapp	317 Highland Ave.
PW-5	Gilbert	323 Highland Ave.
PW-6	Fiore	325 Highland Ave.
PW-7	Seeley	321 Highland Ave.
PW-8	Gady	337 Highland Ave.
PW-9	Crooks	335 Highland Ave
PW-10	Caspe	338 Highland Ave.
PW-11	Perry	339 Highland Ave.
PW-12	Lent	363 Highland Ave.
PW-13	Noyes	361 Highland Ave.
PW-14	Ogden	319 Highland Ave.
PW-15	Dickerson	173 Commonwealth Ave.
PW-16	Reagan	176 Commonwealth Ave.
PW-17	Hite	192 Commonwealth Ave.
PW-18	Bliven	206 Commonwealth Ave.
PW-19	Runnalls	226 Commonwealth Ave.
PW-20	Winner	186 Watkins Ave.
PW-21	Cosmo Optics (Old well)	238 Watkins Ave.
PW-25	Trip Blank	
PW-26	Knapp (Replica)	317 Highland Ave.
PW-27	Fiore (Replica)	325 Highland Ave.
PW-28	Seeley (Field Blank)	321 Highland Ave.

I was unable to contact Ernest (353 Highland Ave.), Schmall (357 Highland Ave.) Norburry (211 Commonwealth Ave), Caffery (232 Commonwealth Ave.).

The samples were collected using the following procedures:

1. The tap as close as possible to the well head was run to evacuate the well and water distribution system for a period of 15 minutes prior to sampling.

2. Samples were collected directly from the tap in standard 40 ml VOA vials. The vials were carefully capped to prevent air bubbles in the sample.

3. Two replicates, one trip blank and one field blank were collected.

4. Samples were preserved from the time they were collected until they were logged in at the laboratory by packing on ice.

5. Quality Assurance Procedures outlined in Section 2.0 of the Site Operations Plan submitted to EPA on May 7, 1984 were followed.

The samples will be analyzed for tetrachloroethylene by Princeton Testing Lab, Princeton, NJ using EPA Method 601 within 14 days.

PRINCETON SERVICE CENTER
U.S. Route 1
609-452-9050
TLX84-3492

princeton testing laboratory

P.O. Box 1414, Princeton, N.J. 08540

DATE: 12-17-84

JOB NO. 36220

AUTHORIZATION: verbal

TO: Fred C. Hart Assoc.
530 Fifth Ave
New York NY 10036

ATT: Wayne Tusa

SAMPLE:

REPORT OF ANALYSIS

	Detection Limit	Tetrachloroethylene ug/l
PW-1 Knapp Residence	0.1	8.4
PW-2 Knapp Residence	0.1	7.9
PW-3 Fiore Residence	0.1	0.3
PW-4 Seely Residence	0.1	0.1
PW-5 Gilbert Residence	0.1	< 0.1
PW-6 Crooks Residence	0.1	ND
PW-7 Petrizzo Residence	0.1	0.2
PW-8 Nixdorf Residence	0.1	0.8
PW-9 Prior King Press	0.1	ND
PW-10 Prior King Press	0.1	ND
PW-11 Cosmo optics	0.1	ND
PW-12 Cosmo optics	0.1	ND
PW-13 Winner Residence	0.1	< 0.1
PW-14 Flynn Residence	0.1	ND
PW-15 Krawiel Residence	0.1	< 0.1
PW-16 Ruppert Residence	0.1	ND
PW-17 Thacker Residence	0.1	< 0.1
PW-18 Gady Residence	0.1	< 0.1
PW-19 Eckerson Residence	0.1	< 0.1
PW-20 Beherents' Mobil	0.1	ND
PW-21 Field blank	0.1	< 0.1
PW-22 Radivoy Residence	0.1	< 0.1
PW-23 Trip Blank	0.1	< 0.1

ND=not detected

Brian Janke, Manager
Organic Laboratory

William F. Pickup, Director

princeton testing laboratory
Princeton Service Center
U.S. Route 1
609-452-9050
P. Box 3105, Princeton, N.J. 08540

Job # 3622D
Analyst: JG
Date: 12-17-84
MATRIX CODE: DW

QUALITY CONTROL REPORT

A. MATRIX SPIKE ANALYSIS

Sample ID	COMPOUND (Including Surrogates) COMPOUND NAME	METHOD	CONCENTRATION (ug/l) Sample Result (SR)	Spiked Sample Result (SSR)	Spike Added (SA)	% Recovery*
PW-7	Tetrachloroethylene	EPA 601/602	.02	79	87	91
PW-12	Tetrachloroethylene		ND	91	87	104
PW-19	Tetrachloroethylene		.01	88	87	101

Recovery = $\frac{(SSR - SR)}{(SA)}$ X 100

Matrix Codes:
Soil SO
Sludge SL
Drinking water DW

princeton testing laboratory
Princeton Service Center
U.S. Route 1
609-452-9810
Box 3108, Princeton, N.J. 08540

Job # : 36220
Analyst : JG
Date : 12-17-84

QUALITY CONTROL REPORT
B. DUPLICATE ANALYSIS

MATRIX CODE: DW

COMPOUND (Including Surrogates)			CONCENTRATION (ug/l)		
Sample ID	COMPOUND NAME	METHOD	Run - 1 (D_1)	Run 2 (D_2)	Relative Percent Difference (RPD)*
PW-2	Tetrachloroethylene	EPA 601/602	7.9	8.3	4.9
PW-8	Tetrachloroethylene		< 2	< 2	0
PW-1	Tetrachloroethylene		8.4	8.3	1.2

$$*RPD = \frac{(D_1 - D_2)}{[(D_1 + D_2)/2]} \times 100$$

princeton testing laboratory
P.O. Box 310, Princeton, N.J. 08540
Princeton Service Center
U.S Route 1
609-452-9050

Analyst JG
Date 11-6-84
MATRIX CODE PE/MW

QUALITY CONTROL REPORT

A. MATRIX SPIKE ANALYSIS

COMPOUND (Including Surrogates)			CONCENTRATION (ug/l)			
Sample ID	COMPOUND NAME	METHOD	Sample Result (SR)	Spiked Sample Result (SSR)	Spike Added (SA)	% Recovery*
PW-1	Tetrachloroethylene	EPA 601	ND	105	117	89
PW-3	Tetrachloroethylene	EPA 601	ND	115	117	98
PW-5	Tetrachloroethylene	EPA 601	ND	115	117	98

*% Recovery = $\frac{(SSR - SR)}{(SA)}$ X 100

Matrix Codes:
Soil SO
Sludge SL
Drinking water DW
Air Air

PRINCETON SERVICE CENTER
U.S. Route 1
609-452-8050
TLX84-3492

princeton testing laboratory

P.O. Box 414, Princeton, N.J. 08540

DATE: 12-17-84

JOB NO. 36220

AUTHORIZATION: verbal

TO: Fred C. Hart Assoc.
530 Fifth Ave
New York NY 10036

ATT: Wayne Tusa

SAMPLE:

REPORT OF ANALYSIS

	Detection Limit	Tetrachloroethylene ug/l
PW-1 Knapp Residence	0.1	8.4
PW-2 Knapp Residence	0.1	7.9
PW-3 Fiore Residence	0.1	0.3
PW-4 Seely Residence	0.1	0.1
PW-5 Gilbert Residence	0.1	< 0.1
PW-6 Crooks Residence	0.1	ND
PW-7 Petrizzo Residence	0.1	0.2
PW-8 Nixdorf Residence	0.1	0.8
PW-9 Prior King Press	0.1	ND
PW-10 Prior King Press	0.1	ND
PW-11 Cosmo optics	0.1	ND
PW-12 Cosmo optics	0.1	ND
PW-13 Winner Residence	0.1	< 0.1
PW-14 Flynn Residence	0.1	ND
PW-15 Krawiel Residence	0.1	< 0.1
PW-16 Ruppert Residence	0.1	ND
PW-17 Thacker Residence	0.1	< 0.1
PW-18 Gady Residence	0.1	< 0.1
PW-19 Eckerson Residence	0.1	< 0.1
PW-20 Beherents' Mobil	0.1	ND
PW-21 Field blank	0.1	< 0.1
PW-22 Radivoy Residence	0.1	< 0.1
PW-23 Trip Blank	0.1	< 0.1

ND=not detected

Brian Janke, Manager
Organic Laboratory

William F. Pickup, Director

princeton testing laboratory

Princeton Service Center
U.S. Route 1
609-452-9050

P.O. Box 3105, Princeton, N.J. 08540

Job # 3622D
Analyst JG
Date 12-17-84
MATRIX CODE DW

QUALITY CONTROL REPORT

A. MATRIX SPIKE ANALYSIS

COMPOUND (Including Surrogates)			CONCENTRATION (ug/l)			
Sample ID	COMPOUND NAME	METHOD	Sample Result (SR)	Spiked Sample Result (SSR)	Spike Added (SA)	% Recovery*
PW-7	Tetrachloroethylene	EPA 601/602	.02	79	87	91
PW-12	Tetrachloroethylene		ND	91	87	104
PW-19	Tetrachloroethylene		.01	88	87	101

*% Recovery = $\frac{(SSR - SR)}{(SA)}$ X 100

Matrix Codes:
Soil SO
Sludge SL
Drinking water DW

princeton testing laboratory
Box 3108, Princeton, N.J. 08540
Princeton Service Center
U.S. Route 1
609-452-9850

Job # : 36220
Analyst : JG
Date : 12-17-84

QUALITY CONTROL REPORT
B. DUPLICATE ANALYSIS

MATRIX CODE: DW

COMPOUND (Including Surrogates)			CONCENTRATION (ug/l)		
Sample ID	COMPOUND NAME	METHOD	Run - 1 (D_1)	Run 2 (D_2)	Relative Percent Difference (RPD)*
PW-2	Tetrachloroethylene	EPA 601/602	7.9	8.3	4.9
PW-8	Tetrachloroethylene		< 2	< 2	0
PW-1	Tetrachloroethylene		8.4	8.3	1.2

$$*RPD = \frac{(D_1 - D_2)}{[(D_1 + D_2)/2]} \times 100$$

princeton testing laboratory
Princeton Service Center
U.S Route 1
609-452-9050
P.O. Box 310s, Princeton, N.J. 08540

Analyst JG
Date 11-6-84
MATRIX CODE PE/MW

QUALITY CONTROL REPORT

A. MATRIX SPIKE ANALYSIS

COMPOUND (Including Surrogates)			CONCENTRATION (ug/l)			
Sample ID	COMPOUND NAME	METHOD	Sample Result (SR)	Spiked Sample Result (SSR)	Spike Added (SA)	% Recovery*
PW-1	Tetrachloroethylene	EPA 601	ND	105	117	89
PW-3	Tetrachloroethylene	EPA 601	ND	115	117	98
PW-5	Tetrachloroethylene	EPA 601	ND	115	117	98

*% Recovery = $\frac{(SSR - SR)}{(SA)}$ X 100

Matrix Codes:
Soil SO
Sludge SL
Drinking water DW
Air Air

15 (12/75)

New York State Department of Environmental Conservation

MEMORANDUM

APR 3 1984

TO: Al Klaus, Regional Engineer, Region III
FROM: John Rankin
SUBJECT: WALLKILL DATA

DATE: March 29, 1984

Attached you will find a printout of all data generated to date by the Investigation Support Section. The data include:

132 groundwater samples
12 soil samples
43 wastewater samples (sewer & treatment plant)
18 surface water samples

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

att.
cc: M. O'Toole w/att.
C. Manfredi "

JR/dc

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE
MOBILE LABORATORY

REGION 3

FACILITY: WALLKILL

PARAMETER: TETRACHLOROETHYLENE

SAMPLE MEDIUM: GROUNDWATER

LOCATION	SAMPLE NO.	SAMPLE DATE	CONC. (ug/l)	COMMENTS
233 CMNWLTH	8403907	02/08/84	<1	0
297 H'LAND	8402510	01/25/84	46	0
297 H'LAND	8402511	01/25/84	78	60 MIN
297 H'LAND	8402512	01/25/84	76	90 MIN
304 H'LAND	8405201	02/22/84	ND	0
307 H'LAND	8403401	02/03/84	5517	30 MIN
307 H'LAND	8403402	02/03/84	12112	60 MIN
307 H'LAND	8403403	02/03/84	13985	180 MIN
309 H'LAND	8403801	02/07/84	39	0
313 H'LAND	8405202	02/22/84	16	0
316 H'LAND	8403909	02/08/84	2341	0
316 H'LAND	8403910	02/08/84	2536	30 MIN
316 H'LAND	8403911	02/08/84	2909	60 MIN
320 H'LAND	8334205	12/07/83	72000	0
320 H'LAND	8402507	01/25/84	64000	0
320 H'LAND	8403802	02/07/84	65796	0
320 H'LAND	8403803	02/07/84	62007	30 MIN
320 H'LAND	8403804	02/07/84	58718	60 MIN
329 H'LAND	8403701	02/06/84	207	0
329 H'LAND	8703702	02/06/84	92	30 MIN
329 H'LAND	8403703	02/06/84	52	60 MIN
335 H'LAND	8405205	02/22/84	ND	0
337 H'LAND	8405204	02/22/84	ND	0
29 PARK	8405305	02/'22/84	ND	0
167 ROCKWELL	8405206	02/22/84	ND	0
RCKWELL(BROWN)	8403907	02/08/84	<1	0
186 WATKINS	8403109	01/31/84	1.1	0
186 WATKINS	8403110	01/31/84	<1	30 MIN
186 WATKINS	8403111	01/31/84	<1	90 MIN
186 WATKINS	8405208	02/22/84	ND	0
187 WATKINS	8403106	01/31/84	1.8	0
187 WATKINS	8403107	01/31/84	2.5	30 MIN
187 WATKINS	8403108	01/31/84	3.7	45 MIN
190 WATKINS	8403112	01/31/84	<1	0
190 WATKINS	8405203	02/22/84	ND	0
228 WATKINS	8403101	01/31/84	2.3	0
228 WATKINS	8403102	01/31/84	2.3	30 MIN

229 WATKINS	8403103	01/31/84	4.5	0
229 WATKINS	8403104	01/31/84	5.0	30 MIN
229 WATKINS	8403105	01/31/84	3.6	60 MIN
238 WATKINS	8403901	02/08/84	<1	0
238 WATKINS	8403902	02/08/84	<1	30 MIN
29 PARK	8405207	02/21/84	<1	NC
31 PARK	8406609	03/06/84	ND	NC
34 PARK	8405408	02/23/84	ND	NC
319 HIGHLAND	8405307	02/22/84	<1	NC
293 HIGHLAND	8405309	02/22/84	ND	NC
325 HIGHLAND	8405310	02/22/84	<1	NC
313 HIGHLAND	8405301	02/22/84	8	15 MIN
313 HIGHLAND	8405302	02/22/84	3	30 MIN
313 HIGHLAND	8405303	02/22/84	2	60 MIN
317 HIGHLAND	8405304	02/22/84	11	NC
282 HIGHLAND	66234	02/16/84	ND	NC
292 HIGHLAND	66286	03/07/84	ND	NC
341 HIGHLAND	66290	03/07/84	ND	NC
355 HIGHLAND	66296	03/07/84	ND	10 MIN
313 HIGHLAND	8405401	02/23/84	5	15 MIN
313 HIGHLAND	8405402	02/23/84	2	30 MIN
317 HIGHLAND	8405403	02/23/84	9	15 MIN
317 HIGHLAND	8405404	02/23/84	10	30 MIN
409 HIGHLAND	8405405	02/23/84	ND	NC
409A HIGHLAND	8405406	02/23/84	ND	NC
299 HIGHLAND	8405407	02/23/84	ND	NC
291 HIGHLAND	8405409	02/23/84	ND	NC
353 HIGHLAND	8406613	03/06/84	ND	NC
339 HIGHLAND	8406614	03/06/84	ND	NC
323 HIGHLAND	8406615	03/06/84	ND	NC
321 HIGHLAND	8406616	03/06/84	<1	NC
363 HIGHLAND	8406710	03/06/84	ND	NC
400 HIGHLAND	8406610	03/06/84	ND	NC
361 HIGHLAND	8406611	03/06/84	ND	NC
297 HIGHLAND	68868	02/14/84	10	15 MIN
297 HIGHLAND	68869	02/14/84	24	30 MIN
297 HIGHLAND	68871	02/14/84	40	60 MIN
327 HIGHLAND	68870	02/14/84	42	15 MIN
327 HIGHLAND	68872	02/14/84	70	30 MIN
327 HIGHLAND	68873	02/14/84	77	60 MIN
173 CMNWLTH	68874	02/15/84	<1.0	NC
174 CMNWLTH	68875	02/15/84	<1.0	NC
183 CMNWLTH	66226	02/15/84	<1.0	NC
186 CMNWLTH	66227	02/15/84	<1.0	NC
188 CMNWLTH	66228	02/15/84	<1.0	NC
211 CMNWLTH	8406701	03/07/84	ND	NC
193 CMNWLTH	8406702	03/07/84	ND	NC
195 CMNWLTH	8406711	03/07/84	ND	NC
182 CMNWLTH	8406712	03/07/84	ND	NC
227 CMNWLTH	8406714	03/07/84	ND	NC
244 CMNWLTH	8406607	03/06/84	ND	NC
230 CMNWLTH	8406608	03/06/84	ND	NC
196 CMNWLTH	8406601	03/06/84	ND	NC
208 CMNWLTH	8406602	03/06/84	ND	NC
213 CMNWLTH	8406603	03/06/84	ND	NC
228 CMNWLTH	8406604	03/06/84	ND	NC
231 CMNWLTH	8406605	03/06/84	ND	NC
237 CMNWLTH	8406606	03/06/84	ND	NC
214 CMNWLTH	66235	02/16/84	ND	NC

191 CMNWLTH	66229	02/15/84	<1.0	NC
192 CMNWLTH	66230	02/15/84	<1.0	NC
197 CMNWLTH	66231	02/15/84	<1.0	NC
206 CMNWLTH	66232	02/15/84	<1.0	NC
210 CMNWLTH	66233	02/15/84	<1.0	NC
217 CMNWLTH	66236	02/16/84	<1.0	NC
221 CMNWLTH	66237	02/16/84	<1.0	NC
224 CMNWLTH	66238	02/16/84	ND	NC
226 CMNWLTH	66239	02/16/84	ND	NC
229 CMNWLTH	66240	02/16/84	ND	NC
233 CMNWLTH	8403908	02/08/84	<1.0	NC
239 WATKINS	8406704	03/07/84	ND	NC
251 WATKINS	8406705	03/07/84	ND	NC
164 WATKINS	8406708	03/07/84	ND	NC
MAPLES RD	8405306	02/22/84	ND	NC
COSMO OP.(NEW)	0	02/09/84	ND	15 MIN
COSMO OP.(NEW)	0	02/09/84	ND	30 MIN
GEN SWITCH WELL	8403301	02/02/84	1440	30 MIN
GEN SWITCH WELL	8403302	02/02/84	1480	60 MIN
GEN SWITCH WELL	8403303	02/02/84	1340	90 MIN
GEN SWITCH WELL	8403304	02/02/84	1320	120 MIN
GEN SWITCH WELL	8403305	02/02/84	1760	180 MIN
GEN SWITCH WELL	8403306	02/02/84	1660	240 MIN
313 H'LAND	8408001	3/20/84	27	NC
297 H'LAND	8408002	3/20/84	5	NC
317 H'LAND	8408003	3/20/84	9	NC
329 H'LAND	8408004	3/20/84	41	NC
309 H'LAND	8408005	3/20/84	118	NC
327 H'LAND	8408006	3/20/84	39	NC
187 WATKINS	8408007	3/20/84	<1	NC
COSMO OPTICS	8408110	3/21/84	ND	OLDWELL
COSMO OPTICS	8408111	3/21/84	ND	NEWWELL
229 WATKINS	8408112	3/21/84	ND	NC
PRIOR KING	8408113	3/21/84	ND	NC
316 H'LAND	8408115	3/21/84	2700	NC
320 H'LAND	8408201	3/22/84	44500	NC

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE
MOBILE LABORATORY

REGION 3

FACILITY:WALLKILL

PARAMETER:TETRACHLOROETHYLENE

SAMPLE MEDIUM:WASTE WATER

LOCATION	SAMPLE NO.	SAMPLE DATE	CONC.(ug/l)	COMMENTS
WALLKILL STP	8401909	01/19/84	<1.0	EFF
WALLKILL STP	8401911	01/19/84	4	INF
MIDLTN STP	8401813	01/18/84	1	EFF
MIDLTN STP	8401906	01/19/84	<1	EFF
MIDLTN STP	8401601	01/16/84	<1	FINAL
MIDLTN STP	8404001	02/09/84	6	INF
MIDLTN STP	8404002	02/09/84	1	EFF
MIDLTN STP	8403903	02/08/84	9	INF
MIDLTN STP	8403904	02/08/84	1	EFF
MIDLTN STP	8401907	01/19/84	3	INF
WALLKILL	8401809	01/18/84	240	SWR @ IND PL
WALLKILL	8401810	01/18/84	156	SWR @ ORNG C
WALLKILL	8401811	01/18/84	152	IND PL 90 DE
LITTLE AVE	8401804	01/18/84	7	SEWER
SPRING & STRLNG	8401805	01/18/84	1	SEWER
SPRGUE & H'STON	8401806	01/18/84	ND	SEWER
CTTGE & WSNR	8401807	01/18/84	80	SEWER
JNKYRD(CNTR)	8401808	01/18/84	116	SEWER
MIDLTN STP	8401718	01/17/84	1	FINISH
MIDLTN STP	8401720	01/17/84	18	RAW
MIDLTN STP	8401801	01/18/84	6	RAW
AGWAY	8401802	01/18/84	7	TRNK SEWER
STNTN &GENNG	8401803	01/18/84	4	SEWER
WALKIL STP	8401702	01/17/84	1.0	OUT
WALKIL STP	8401705	01/17/84	4	GRT CHMBR
WALKIL STP	8401707	01/17/84	14	GRT CHMBR
PRK & H'LND	8402607	01/26/84	11	SEWER
INDSTRL PRK	8402608	01/26/84	5	LATERAL
JNKYRD(CNTR)	8402609	01/26/84	168	SEWER
HRTZ BRSH	8402601	01/26/84	32	1ST MNHLE
HRTZ BRSH	8402602	01/26/84	46	3RD MNHLE
GEN SWTCH	8402603	01/26/84	667	LATERAL
LUB PCKNG	8402604	01/26/84	1470	SEWER
INDSTRL PRK	8402605	01/26/84	1250	MNHLE END OF
JNKYRD(CNTR)	8402606	01/26/84	608	SEWER
WALKIL STP	8402513	01/25/84	15	INF 5
WALKIL STP	8402514	01/25/84	5	EFF 5
WALKIL STP	8402501	01/25/84	2	INF 8
WALKIL STP	8402503	01/25/84	<1.0	EFF 8
WALKIL STP	8402504	01/25/84	3	INF 11
WALKIL STP	8402505	01/25/84	<1.0	EFF 11
WALKIL STP	8402508	01/25/84	85	INF 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE
MOBILE LABORATORY

REGION 3

FACILITY:WALLKILL

PARAMETER:TETRACHLOROETHYLENE

SAMPLE MEDIUM:SURFACE WATER

LOCATION	SAMPLE NO.	SAMPLE DATE	CONC.(ug/l)	COMMENTS
WALKIL RIVER	8401910	01/19/84	<1.0	UPSTREAM
WALKIL RIVER	8401901	01/19/84	<1	MIDWAY RD
WALKIL RIVER	8401902	01/19/84	<1	CTY RD 53
WALKIL RIVER	8401903	01/19/84	<1	RT 17M
MONHGN BRK	8401708	01/17/84	1.5	100 FT DWNST
MONHGN BRK	8401710	01/17/84	<1	20 FT UPSTRM
WALKIL RIVER	8401712	01/17/84	ND	RT 17M
WALKIL RIVER	8401714/	01/17/84	ND	RT 53
WALKIL RIVER	8401716	01/17/84	ND	DNSTRM
WALKIL RIVER	8401703	01/17/84	ND	UPSTRM
MONHGN BRK	8401812	01/18/84	<1	20 FT UPSTRM
MONHGN BRK	8401813	01/18/84	<1	100FT DNSTRM
MONHGN BRK	8401904	01/19/84	<1	20 FT UPSTRM
MONHGN BRK	8401905	01/19/84	<1	100 FT DNSTR
M'TWN STP	8404003	02/09/84	<1	UPSTRM
M'TWN STP	8404004	02/09/84	1	DWNSTRM
M'TWN STP	8403905	02/08/84	<1	UPSTRM
M'TWN STP	8403906	02/08/84	1	DWNSTRM

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE
MOBILE LABORATORY

REGION 3

FACILITY:WALLKILL

PARAMETER:TETRACHLOROETHYLENE

SAMPLE MEDIUM:SOIL/SEDIMENT

LOCATION	SAMPLE NO.	SAMPLE DATE	CONC.(ug/gm)	COMMENTS
GEN SWITCH	8334101	12/07/83	17.5	TOP
GEN SWITCH	8334101	12/078/83	126.5	1 FT
GEN SWITCH	8334101	12/07/83	115.3	2 FT
GEN SWITCH	8334102	12/078/83	4.7	2-2 1/2 FT
GEN SWITCH	8334103	12/07/83	<1	TOP
LUBE PACKING	8334201	12/08/83	<1	TOP
LUBE PACKING	8334201	12/08/83	4.5	1 FT
LUBE PACKING	8334201	12/08/83	3.5	3 FT
LUBE PACKING	8334202	12/08/83	3.2	TOP
LUBE PACKING	8334202	12/08/83	<1	1 FT
LUBE PACKING	8334203	12/08/83	<1	1 FT
LUBE PACKING	8334203	12/08/83	2.7	6 IN

Speed Message

To Al Klauss
Reg Eng

From P Boshna

Subject Soil Sampling in Wall Kill(T) 3/21/84 & 3/23/84

Date 3/28 19 84

Att'd are memos and a map relative to soil sampling on the property of General Switch and environs. The att'd relates to sampling performed on 3/21/84 & 3/23/84.

Copies of the att'd are being forwarded to:

Mr C. Manfred: - Original
Mr. Lou Grams
Mr. Paul Keller
Mr. Michael O'Toole
Mr. John Rankin
Mr. Fred Rubel
Dr Russell Johnson

Signed

15 (12/75)

New York State Department of Environmental Conservation

MEMORANDUM

TO: Cesare J. Manfredi, Division of Water, Region 3, White Plains
FROM: Peter M. Doshna, Division of Water, Region 3, White Plains
SUBJECT: FIELD NOTE MEMOS AND MAP PREPARATION - WALLKILL (T) WELL CONTAMINATION

DATE: March 27, 1984

The memorandums and sample location map associated with soil sampling at General Switch, and the Highland Avenue/Industrial Place area on March 21, 1984 and March 23, 1984 were prepared on March 26, 1984 and March 27, 1984.

PMD:jm

15 (12/75)

New York State Department of Environmental Conservation

MEMORANDUM

TO: Cesare J. Manfredi - Division of Water, Region 3, White Plains
FROM: Peter M. Doshna - Division of Water, Region 3, White Plains
SUBJECT: SOIL SAMPLING FIELD NOTES - TOWN OF WALLKILL WELL CONTAMINATION - 3/21/84

DATE: March 27, 1984

Date:	March 21, 1984
DEC Representatives:	Peter M. Doshna, P.E. - Senior Sanitary Engineer Fred Woodward - Chemist
Weather:	Cold/Rain
Soil Samples Collected By:	Fred Woodward
Field Notes Prepared By:	Peter Doshna

On the referenced date, soil samples were collected on the property of General Switch and adjoining lands of Parella. Attached are field notes drawn directly from original field notes taken on-site during sample collection.

PMD:bz
Attachments

SAMPLING LOG

Town of Wallkill Well Contamination

3/21/84

Sample No.	Time	Location
84-081-01	10:30 AM	Center door on NW side of General Switch; 4 ft. away from building and 6 ft. from edge of door pad. Depth 1 ft. Chemical odor in soil.
84-081-02	10:54 AM	20 ft. away from NW side of General Switch opposite westerly corner door. Depth 1 ft. Started to rain at about 10:50 AM.
84-081-03	11:04 AM	South corner of General Switch near truck bay door; 8 ft. from south corner along SE side of building and 8 ft. away from building. Depth 1 ft.
84-081-04	11:16 AM	Southwest side wall of General Switch; 38 ft. from south corner and 9 ft. from building. Depth 1 ft.
84-081-05	11:32 AM	Southwest side wall of General Switch; 38 ft. from south corner and 24 ft from building in swale. Depth 1 ft.
84-081-06	11:40 AM	Southwest side wall of General Switch; 38 ft. from south corner and approximately 50 ft. from building. Sample taken in front of three large trees on Parella's side. By the end of sampling, hole contained standing water. Depth 1 ft.

SAMPLING LOG

Town of Wallkill Well Contamination

3/21/84

Sample No.	Time	Location
84-081-07	11:50 AM	22 ft. away from SW side wall of General Switch and 14 ft. from west corner along SW side wall. Depth 1 ft.
84-081-08	12:04 PM	Approximately 24 ft. away from SW side wall of General Switch at south corner in swale. Depth 1 ft.

NOTES: 1) 4" diameter hand auger used to extract soil to 1 ft. depth. Auger marked at 1 ft. and all depths 1 ft. unless otherwise specified.

2) 100 ft. Lufkin reel tape used for measurements.

3) Distances (except depth) to nearest ft.

15 (12/75)

New York State Department of Environmental Conservation

MEMORANDUM

TO: Cesare J. Manfredi, Division of Water, Region 3, White Plains
FROM: Peter M. Doshna, Division of Water, Region 3, White Plains
SUBJECT: General Field Notes Wallkill (T) Contamination March 21, 1984

DATE: March 27, 1984

The following are general field notes taken on March 21 during which time Fred Woodward and the writer performed soil sampling in the vicinity of General Switch.

10:10 a.m. The writer advised Mr. John Braghirol, Plant Manager, General Switch that soil samples would be taken on the company's property. Mr. Braghirol was asked if he or other company representatives would like to accompany us. He declined. We were, however, requested to advised him of the sample locations.

10:30 a.m. Sample 84-081-01 Taken.

10:38 a.m.
to 10:46 a.m. Mr. Braghirol appeared, carried on some idle conversation and requested that we move our vehicles out of the delivery area.

10:54 a.m. Sample 84-081-02 Taken.

11:04 a.m. Sample 84-081-03 Taken.

11:16 a.m. Sample 84-081-04 Taken.

11:32 a.m. Sample 84-081-05 Taken.

11:40 a.m. Sample 84-081-06 Taken.

11:50 a.m. Sample 84-081-07 Taken.

12:04 p.m. Sample 84-081-08 Taken.

After taking the 12:04 p.m. sample we broke for lunch and stayed with the state vehicle carrying the samples.

1:10 p.m. Heavy rain begin. We advised the receptionist of General Switch (Mr. Braghirol was not available at the time) that we were probably through for the day and that we would be back with sample locations. We then returned to the lab, prepared the samples for storage, prepared paperwork and reviewed sample locations for March 23, 1984 until approximately 4:00 p.m.

4:15 p.m. The writer returned to General Switch, handed a map with sample locations noted thereon to the receptionist and left the site.

PMD:jm
Attachment

15 (12/75)

New York State Department of Environmental Conservation

MEMORANDUM

TO: Cesare J. Manfredi - Division of Water, Region 3, White Plains
FROM: Peter M. Doshna - Division of Water, Region 3, White Plains
SUBJECT: SOIL SAMPLING FIELD NOTES
TOWN OF WALLKILL WELL CONTAMINATION - 3/23/84
DATE: March 27, 1984

Date:	March 23, 1984
DEC Representatives:	Peter M. Doshna, P.E., Senior Sanitary Engineer Fred Woodward, Chemist
Weather:	Cold/Cloudy/Light Snow
Soil Sample Collected By:	Fred Woodward
Field Notes Prepared By:	Peter Doshna

On the referenced date, soil samples were collected in the area of Highland Avenue and Industrial Place. Attached are field notes drawn directly from original field notes taken on-site during sample collection.

PMD:bz
Attachments

SAMPLING LOG

Town of Wallkill Well Contamination

3/23/84

Sample No.	Time	Location
84-083-01	10:45 AM	Direct line with three utility poles and NW wall of General Switch. 20 paces (P. Doshna at approximately 3 ft./pace) into wooded area on northerly side of Industrial Place. Depth 1 ft. After taking sample, hole began filling with water.
84-083-02	11:09 AM	Back yard of Roselli property. 8 ft. from 4 ft. chain link fence and 36 ft. from south corner of property (chain link fence corner). Depth 1 ft.
84-083-03	11:24 AM	30 ft. from NW wall of General Switch in direct line with wall patch and 54 ft. from west corner of building. Depth 1 ft.
84-083-04	11:37 AM	2 ft. 8 in. from NW wall of General Switch at wall patch, 54 ft. from west corner of building. Depth 9 in.
84-083-05	11:57 AM	15 ft. from easterly corner of chain link fence behind Lubricant Packaging (toward railroad tracks). Wind increasing. Depth 1 ft.

NOTES: All notes are the same as the 3/21/84 Sampling Log.

15 (12/75)

New York State Department of Environmental Conservation

MEMORANDUM

TO: Cesare J. Manfredi - Division of Water, Region 3, White Plains
FROM: Peter M. Doshna - Division of Water, Region 3, White Plains
SUBJECT: GENERAL FIELD NOTES
TOWN OF WALLKILL WELL CONTAMINATION - 3/23/84
DATE: March 27, 1984

The following are general field notes taken on March 23, 1984 during which time Fred Woodward and the writer performed soil sampling in the area of Highland Avenue and Industrial Place.

10:26 AM The writer, in the presence of Mr. Woodward, asked Mr. Braghirol if he received the soil sampling location map left with the receptionist on 3/21/84. Response: Yes. The writer then advised Mr. Braghirol that General Switch was entitled to split samples. After explaining to Mr. Braghirol what split samples were, he responded: "no; I don't know what we would do with them anyway. They would sit on a shelf for three weeks and then would probably be no good anyway."
The writer then requested permission to sample on "Electra Manufacturing" property (owned by General Switch to our knowledge). Response: "Yes".

The writer then advised Mr. Braghirol that General Switch would be given a receipt for the soil samples taken. We then left to start sampling.

10:45 AM Sample #84-083-01 was taken.

10:57 AM Mr. Woodward and the writer attempted to contact the Roselli's at their residence for permission to take a soil sample in their back yard. No one answered the door, a note was left requesting permission, at which time Mr. Keith Roselli did answer at the door. He granted permission. The writer then asked Mr. Roselli if he ever noticed questionable activities at the General Switch door directly facing his back yard. Response: No, but Mr. Roselli did notice that said door is left open at times.

11:09 AM Sample #84-083-02 was taken.

11:24 AM Sample #84-083-03 was taken. The patch on the NW wall of General Switch measured 1 ft. 10 in. by 1 ft. 4 in. and the bottom of the patch was 2 ft. above grade. The patch is located 54 ft. from the west corner of the building, did not appear as old as the building and was an unfinished "mortar job".

11:37 AM Sample #84-083-04 was taken.

NOTE: A door at the west corner of the building exists. However, it does not appear to have been used for some time as climbing vines covered part of the door and reached a height of approximately 12 ft. Vegetation was covering part of the door pad and there was no evidence of recent door usage.

11:57 AM Sample #84-083-05 was taken.

After taking the 11:57 AM sample, we broke for lunch and stayed with the vehicle carrying the samples.

After lunch, Mr. Woodward and the writer prepared paperwork for the day's sampling and prepared a receipt for samples taken at General Switch.

1:40 PM The receipt for samples taken on General Switch property was offered to Mr. Braghirol. At first he declined to accept the receipt. He then changed his mind and accepted it. He was asked to sign the receipt but declined. We then left the site. Mr. Doshna headed home and Mr. Woodward to the lab.

PMD:bz

Date 3/23/84

Receipt for Samples Taken at General Switch

Sample #	Collection Date	Location
84-081-01	3/21/84	4 ft. from N.W. wall
84-081-02	3/21/84	20 ft. from N.W. wall
84-081-03	3/21/84	8 ft. from (S) corner on S.E. wall
84-081-04	3/21/84	9 ft. from S.W. wall
84-081-05	3/21/84	24 ft. from S.W. wall
84-081-07	3/21/84	14 ft. from west corner
84-081-08	3/21/84	24 ft. from (S) corner
84-083-03	3/23/84	30 ft. from NW wall
84-083-04	3/23/84	2 ft. 8 in. from patch on N W. wall.

Note: All samples contained in two (2) 40 ml. VOA bottles.

NYS DEC Sen. San Engr. [signature]

NYSDEC Chemist [signature]

HIGHLAND AVENUE

630

CITY OF MIDDLET

ELECTRA MFG CO.

ROSELLI

PARELLA

W

84-083-03

84-083-02

N

84-081-02

84-083-04

84-081-01

84-083-01

630

84-081-07

84-081-05

PARELLA

84-081-04

84-081-06

84-081-08

84-081-03

E

GENERAL SWITCH

S

620

INDUSTRIAL PLACE

INDUSTRIAL PLACE EXT.

LUBRICANTS INC

EST. 84-083-05

CON RAIL CORP.

11/8/84

Dye test of Sewer Collection System — PPB

#1	Industrial Place at 90° Turn	152
#2	Manhole by Orange Corr. Box	160
#3	Manhole at End of Industrial Place	> 160
#4	Manhole at Middle of Junk yard	116
#5	Manhole at Cottage and Wisner	80
#6	Main trunk line at Little Ave.	7
#7	Manhole at Sprague and Houston	ND
#8	Manhole at Spring and sterling	1
#9	Manhole at Stanton + Fenning	4
#10	Main trunk by agway plant	7
	Influent to City of Middletown STP	6
	Effluent From City of Middletown STP	1
	20' upstream From City STP	< 1
	100' Down stream From City STP	< 1

Klauss

U.S. ENVIRONMENTAL PROTECTION AGENCY

POLLUTION REPORT

DATE: March 26, 1984

Region II
Emergency Response Branch
Edison, NJ 08837

(201) 321-6670 - Commercial
(201) 548-8730 - 24 Hour Emergency
340-6670 - FTS

TO: J. Schafer, EPA
R. Dewling, EPA
W. Librizzi, EPA
F. Rubel, EPA
J. Marshall, EPA
W. Mugdan, EPA
S. Dorrler, EPA
M. Chivinski, FEMA
N. Nosenchuck, NYSDEC
ERD, EPA Washington
P. Keller, NYSDEC
J. Anderson, HHS
R. Johnson, OCDOH
D. Cosgrove, Town of Wallkill
R. Hutching, City of Middletown

POLREP NO.: Fourteen (14)
INCIDENT NAME: Wallkill, N.Y.
SITE/SPILL NO: A7
POLLUTANT: Tetrachloroethylene
CLASSIFICATION: Medium
SOURCE: Unknown
LOCATION: Wallkill, N.Y.
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION:

A. As of March 23, 1984, 460 samples have been collected by U.S. EPA, NYSDEC and OCHD. This includes 100 wells that have been sampled in the affected area. Of these, 7 wells have shown concentrations greater than 50 ppb. Thirteen wells contained tetrachloroethylene levels between 1 and 50 ppb.

B. Samples continue to be collected to determine the extent of groundwater contamination. Samples are also being taken from the Wallkill and Middletown Waste Water Treatment Plants, as well as the Wallkill River to provide baseline data. Samples are being analyzed on-site by NYSDEC/DSHW, using gas chromatography.

2. ACTION TAKEN:

A. During the week of March 19 thru 23, 1984, 14 additional samples were collected in the affected area.

B. On March 21 and 23, 1984, NYSDEC collected soil samples on General Switch's property and vicinity.

C. Financial Status:

i. Total authorized for mitigation contracts (Trust Fund)	$ 100,000.00
ii. Expenditures for mitigation contracts	
1a. Amount obligated to Town of Wallkill (Doc. control# D2D-009) Contract No. 68-62-0006	20,000.00
1b. Estimated expenditures for Contract No. 68-62-0006 (D2D-009)	12,471.80
1c. Balance of obligated amount under (D2D-009) Contract No. 68-62-0006	7,528.20
2a. Amount obligated to HLF Plumbing (Doc. Control # D2D-010) under Contract No. 68-92-0034	25,000.00
2b. Estimated expenditures to 2/10/84 under Control No. 68-92-0034 (D2D-010)	3,147.15
2c. Balance of obligated amount under Contract No. 68-92-0034	21,852.85
3a. Amount obligated to O. H. Materials Co. (Doc. Control #D2D024) Contract No. 68-01-6893, Order No. 6893-02-003	30,000.00
3b. Estimated expenditures for Order No. 6893-02-003	1,045.87
3c. Balance of obligated amount under Order No. 6893-02-003	28,954.13
iii. Unobligated balance remaining for mitigation contracts	25,000.00
iv. Estimate of Total Expenditures to date for all mitigation	16,664.82
v. Other extramural costs (through 3/08/84)	
1a. TAT special projects expenditures	18,509.48
1b. TAT, other expenses (salary/travel)	43,554.09
2. Total, other extramural costs	62,063.57
vi. Total extramural expenditures (Items ii & v) and percentage of $1,000,000	78,728.39 (=7.87% 1M)

3. FUTURE PLANS AND RECOMMENDATIONS:

A. Same as previous polreps.

CASE PENDS X CASE CLOSED ____ SUBMITTED BY George H. Zachos

George Zachos OSC, Emergency Response Branch

(TAT)

FILE COPY

FRED C. HART ASSOCIATES, INC. • CONSULTANTS

530 FIFTH AVENUE, NEW YORK, N. Y. 10036 (212) 840-3990

March 19, 1985

Chief, Hazardous Waste Site Branch
Office of Emergency and Remedial Response
U.S. Environmental Protection Agency
Room 402
26 Federal Plaza
New York, NY 10278

Attention: Patricia Wells, Project Officer, Wallkill Site

Dear Ms. Wells:

Enclosed please find two copies of the following documents:

1. Monthly Periodic Progress Report, 2/1/85-2/28/85.

2. Results of January 28th and 29th, 1985, Potable Well Sampling.

Sincerely,

FRED C. HART ASSOCIATES, INC.

David Lipsky, Ph.D.
Manager, Public Health and
Chemistry

DL:bil
cc: Director, Division of Solid and Hazardous Waste
New York State Department of Environmental Conservation

Commission of Health
Orange County Department of Health

(A037)

General Switch Corporation

Middletown, New York

Monthly Periodic Progress Report

2/1/85-2/28/85

Work Efforts Completed to Date

In compliance with the Administrative Order on Consent issued to General Switch (GSC) on May 1, 1984, the following activities, referenced to the appropriate section of the Order, were conducted during the month of February, 1985, on behalf of General Switch by Fred C. Hart Associates, Inc.

Section I-B

Results of the 1-28-85 and 1-29-85 potable well sampling campaign were received on February 8, 1985 and are provided as an attachment.

The February potable well sampling campaign was conducted on March 4, 1985. Therefore, the trip report will be provided with the March monthly report.

Section II-G

EPA's comments on Phase I of the Hydrogeologic Investigation of the General Switch site were received on February 11, 1985. These comments

have been reviewed and where appropriate, EPA's recommendations have been incorporated into a draft of the Phase II workplan.

Section III-D

A revised version of the Interim Pumping Plan was submitted to EPA on February 20, 1985 by FCHA.

princeton testing laboratory

DATE: 2-8-85

JOB NO. 36938

AUTHORIZATION: verbal

SAMPLE: water - 20

TO:
Fred C. Hart Assoc.
530 Fifth Ave
New York NY 10036

ATT: B. Jacot

REPORT OF ANALYSIS

	Detection Limit	Tetrachloroethylene
		ug/l
PW-1	2	< .1*
PW-2	2	< .1*
PW-3	2	ND
PW-4	2	< .1*
PW-5	2	< .1*
PW-6	2	6.2
PW-7	2	ND
PW-8	2	ND
PW-9	2	ND
PW-10	2	ND
PW-11	2	ND
PW-12	2	ND
PW-13	2	< .1*
PW-14	2	ND
PW-15	2	ND
PW-17	2	ND
Replicate #1	2	ND
Replicate #2	2	< .1*
Replicate #3	2	ND
Replicate #4	2	3.5

*Below detection limit. Quantitation may be uncertain at this level.

Gene Dennison, PhD, CIH
Technical Director

JG:na

Laboratory

3104 Princeton, N.J. 08540

U.S. Route 1

QUALITY CONTROL REPORT

B. DUPLICATE ANALYSIS

DATE: 2-8-83

MATRIX CODE: PE/MW

COMPOUND (Including Surrogates)

Sample ID	COMPOUND NAME	METHOD	CONCENTRATION (µg/l) Run 1 (D_1)	CONCENTRATION (µg/l) Run 2 (D_2)	Relative Percent Difference (RPD)*
Rep #4	Tetrachloroethylene	EPA 601/602	3.45	3.75	8.3
Rep #6	Tetrachloroethylene		6.21	6.17	0.6

$$RPD = \frac{(D_1 - D_2)}{\left[\frac{(D_1 + D_2)}{2}\right]} \times 100$$

Princeton Testing Laboratory
P.O. Box 310, Princeton, N.J. 08540
Princeton Service Center
U.S. Route 1
609-452-9010

Analyst [illegible]

Date 2-11-85

QUALITY CONTROL REPORT

MATRIX CODE PE/MW

A. MATRIX SPIKE ANALYSIS

COMPOUND (Including Surrogates)			CONCENTRATION (ug/l)			
Sample ID	COMPOUND NAME	METHOD	Sample Result (SR)	Spiked Sample Result (SSR)	Spike Added (SA)	% Recovery*
PW #5	Tetrachloroethylene	EPA 601/602	.02	88.7	87	102.0
PW #17	Tetrachloroethylene		ND	72.6	87	83.5

*% Recovery = $\frac{(SSR - SR)}{(SA)} \times 100$

Matrix Codes:
Soil SO
Sludge SL
Drinking water DW

U.S. ENVIRONMENTAL PROTECTION AGENCY

POLLUTION REPORT

DATE: March 16, 1984

Region II
Emergency Response Branch
Edison, NJ 08837

(201) 321-6670 - Commercial
(201) 548-8730 - 24 Hour Emergency
340-6670 - FTS

TO: J. Schafer, EPA
R. Dewling, EPA
W. Librizzi, EPA
F. Rubel, EPA
J. Marshall, EPA
W. Mugdan, EPA
S. Dorrler, EPA
M. Chivinski, FEMA
N. Nosenchuck, NYSDEC
ERD, EPA Washington
P. Keller, NYSDEC
J. Anderson, HHS
R. Johnson, OCDOH
D. Cosgrove, Town of Wallkill
R. Hutching, City of Middletown

POLREP NO.: Thirteen (13)
INCIDENT NAME: Wallkill, N.Y.
SITE/SPILL NO: A7
POLLUTANT: Tetrachloroethylene
CLASSIFICATION: Medium
SOURCE: Unknown
LOCATION: Wallkill, N.Y.
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION:

A. As of March 16, 1984, 428 samples have been collected by U.S. EPA, NYSDEC and OCHD. Of these, 7 wells have shown concentrations greater than 50 ppb.

B. As of March 16, 1984, 100 wells have been sampled in the affected area. Of these, 7 wells have shown concentrations greater than 50 ppb. Thirteen wells contained tetrachloroethylene levels between 1 and 50 ppb.

C. Samples continue to be collected to determine the extent of groundwater contamination. Samples are also being taken from the Wallkill and Middletown Waste Water Treatment Plants, as well as the Wallkill River to provide baseline data. Samples are being analyzed on-site by NYSDEC/DSHW, using gas chromatography.

2. ACTION TAKEN:

A. During the week of March 5 thru 9, 1984, 30 additional samples were collected in the affected area.

B. Due to General Switch's response of February 17, 1984, work on Delivery Order No. 6893-02-003 (hydrogeologic investigation) was stopped on February 22, 1984. This step was taken when the company indicated that they intend to cooperate with appropriate agencies and will take appropriate measures to remedy any hazardous condition.

C. On March 6, 1984, a meeting was held with the residents of Highland Avenue to discuss the installation of a water line on Highland Avenue. Attending were representatives of U.S. EPA, NYSDEC and the Town of Wallkill.

At the meeting, U.S. EPA stated that Federal funding of the water line was dependent on the results of present negotiations with General Switch Company. Accordingly, U.S. EPA will fund the water main on Highland Avenue, only if the following three conditions are met:

1. General Switch does not install a water main on Highland Avenue.

2. The Town of Wallkill will ensure a mechanism which will assure funding for individual water connections and associated fees for the affected residents.

3. Guarantee that health monitoring continues to ensure the quality of drinking water until a permanent solution is found.

D. On March 14, 1984, a meeting was held in NYSDEC's office in New Paltz, NY to discuss the hydrogeologic investigation to determine the extent (vertical and horizontal) and direction of the plume in the till and shale. Attending were members of U.S. EPA, NYSDEC and OCHD.

E. A meeting was held between OCHD and U.S. EPA on March 15, 1984 in Goshen, NY to discuss the following:

1. Meeting of March 14, 1984 in New Paltz, NY.

2. Briefing on sampling in affected area.

3. OCHD position on contamination levels in the potable water and area of risk in the affected area.

F. Financial Status:

i. Total authorized for mitigation contracts (Trust Fund)	$ 100,000.00
ii. Expenditures for mitigation contracts	
1a. Amount obligated to Town of Wallkill (Doc. control# D2D-009) Contract No. 68-62-0006	20,000.00
1b. Estimated expenditures for Contract No. 68-62-0006 (D2D-009)	12,471.80
1c. Balance of obligated amount under (D2D-009) Contract No. 68-62-0006	7,528.20

2a.	Amount obligated to HLF Plumbing (Doc. Control # D2D-010) under Contract No. 68-92-0034	25,000.00
2b.	Estimated expenditures to 2/10/84 under Control No. 68-92-0034 (D2D-010)	3,147.15
2c.	Balance of obligated amount under Contract No. 68-92-0034	21,852.85
3a.	Amount obligated to O. H. Materials Co. (Doc. Control #D2D024) Contract No. 68-01-6893, Order No. 6893-02-003	30,000.00
3b.	Estimated expenditures for Order No. 6893-02-003	1,045.87
3c.	Balance of obligated amount under Order No. 6893-02-003	28,954.13
iii.	Unobligated balance remaining for mitigation contracts	25,000.00
iv.	Estimate of Total Expenditures to date for all mitigation	16,664.82
v.	Other extramural costs (through 3/08/84)	
1a.	TAT special projects expenditures	18,509.48
1b.	TAT, other expenses (salary/travel)	41,011.82
2.	Total, other extramural costs	59,521.30
vi.	Total extramural expenditures (Items ii & v) and percentage of $1,000,000	76,186.12 (=7.62% 1M)

3. FUTURE PLANS AND RECOMMENDATIONS:

A. Same as previous polreps.

CASE PENDS X CASE CLOSED ____ SUBMITTED BY George X. Zachos

George Zachos OSC, Emergency Response Branch

(TAT)

Town of Wallkill
600 Route 211 East • Middletown, New York 10940

Dennis C. Cosgrove
Supervisor
(914) 692-5811

March 6, 1984

Office of the Regional Administrator
Region II
U.S. Environmental Protection Agency
26 Federal Plaza
New York, New York

ATTENTION: Mr. Fred N. Rubel, Chief
Emergency Response Branch
Office of Emergency & Remedial Response

Gentlemen:

The Town of Wallkill hereby agrees that, if EPA provides a water main to alleviate the tetrachloroethylene contamination of drinking water wells in the Washington Heights area, the Town will ensure a mechanism by which, regardless of the willingness or ability of a property owner to reimburse the Town for costs, the Town will ensure funding for tie-in and tie-in fee to the water main for any citizen who wishes same, and whose well water quality exceeds criteria established by the Department of Health, both now and in the future.

Very truly yours,

Dennis C. Cosgrove

Dennis C. Cosgrove
Supervisor

DCC:di:em

cc: Albert Klauss N.Y.S.D.E.C. ✓
Russell C. Johnson, M.D.
Hon. Benjamin Gilman

Rich Wallkill P. Keller Klauss

U.S. ENVIRONMENTAL PROTECTION AGENCY

RECEIVED
MAR 12 1984
ADMINISTRATIVE UNIT
REGION #3

336 025

POLLUTION REPORT

DATE: February 29, 1984

TO: J. Schafer, EPA
R. Dewling, EPA
W. Librizzi, EPA
F. Rubel, EPA
J. Marshall, EPA
W. Muqdan, EPA
S. Dorrler, EPA
M. Chivinski, FEMA
N. Nosenchuck, NYSDEC
ERD, EPA Washington
P. Keller, NYSDEC
J. Anderson, HHS
R. Johnson, OCDOH
D. Cosgrove, Town of Wallkill
R. Hutching, City of Middletown

Region II
Emergency Response Branch
Edison, NJ 08837

(201) 321-6670 - Commercial
(201) 548-8730 - 24 Hour Emergency
340-6670 - FTS

POLREP NO.: Twelve (12)
INCIDENT NAME: Wallkill, N.Y.
SITE/SPILL NO: A7
POLLUTANT: Tetrachloroethylene
CLASSIFICATION: Medium
SOURCE: Unknown
LOCATION: Wallkill, N.Y.
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION:

A. On February 7, 1984, a Notice of Violation was sent to the General Switch Co., located on Industrial Place, Middletown, New York. The notice outlined their alleged responsibility for the groundwater contamination, by tetrachloroethylene, on Highland Avenue and the surrounding area.

B. As of February 24, 1984, 398 samples have been collected by U.S. EPA, NYSDEC and OCHD.

C. Two additional private wells, Lewis on 313 Highland and Knapp on 317 Highland Avenue have been found to contain tetrachloroethylene concentrations in the 1 to 50 ppb range. As of February 24, 1984, 100 wells have been sampled in the affected area. Thirteen wells contained tetrachloroethylene levels between 1 and 50 ppb. In this summary, the Pitt well is listed as having concentrations less than 50 ppb. Although the concentration of one sample was 165 ppb, two subsequent samples exhibited concentrations less than 1 ppb.

D. Samples continue to be collected to determine the extent of groundwater contamination. Samples are also being taken from the Wallkill and Middletown Waste Water Treatment Plants, as well as the Wallkill River to provide baseline data. Samples are being analyzed on-site by NYSDEC/DSHW, using gas chromatography.

2. ACTION TAKEN:

A. During the week of February 20 thru 24, 1984, 27 additional samples were collected in the affected area.

B. A drilling and monitoring plan for the hydrogeologic investigation has been forwarded to the NYSDEC on February 27, 1984, for review.

C. On February 17, 1984, the General Switch Co. of Middletown, New York indicated responsiveness in evaluating what action they should undertake for the tetrachloroethylene groundwater contamination problem in the Washington Heights area of the Town of Wallkill.

D. On February 23, 1984, a meeting was held in EPA Region II's Office in New York City to discuss the February 9, 1984 Notice Letter to General Switch. Attending were representatives of General Switch, New York State DEC and EPA.

E. Due to General Switch's response of February 17, 1984, work on Delivery Order No. 6893-02-003 was stopped on February 22, 1984. This step was taken when the company indicated that they intend to cooperate with appropriate agencies and will take appropriate measures to remedy any hazardous condition.

F. Financial Status:

i.	Total authorized for mitigation contracts (Trust Fund)	$ 100,000.00
ii.	Expenditures for mitigation contracts	
1a.	Amount obligated to Town of Wallkill (Doc. control# D2D-009) Contract No. 68-62-0006	20,000.00
1b.	Estimated expenditures for Contract No. 68-62-0006 (D2D-009)	15,855.02
1c.	Balance of obligated amount under (D2D-009) Contract No. 68-62-0006	4,144.98
2a.	Amount obligated to HLF Plumbing (Doc. control# D2D-010) under Contract No. 68-92-0034	25,000.00
2b.	Estimated expenditures to 2/10/84 under Control No. 68-92-0034 (D2D-010)	2,128.00
2c.	Balance of obligated amount Under Contract No. 68-92-0034	22,872.00
iii.	Unobligated balance remaining for mitigation contracts	55,000.00
iv.	Estimate of Total Expenditures to date for all mitigation.	17,983.02

v. Other extramural costs (through 2/24/84)

1a.	TAT special projects expenditures	18,509.48
1b.	TAT, other expenses (salary/travel)	38,841.45
2.	Total, other extramural costs	57,350.93

vi. Total extramural expenditures (Items ii & v) and percentage of $1,000,000 — 75,333.95 (=7.53% 1M)

3. FUTURE PLANS AND RECOMMENDATIONS:

A. Same as previous polreps.

CASE PENDS X CASE CLOSED ____ SUBMITTED BY George H. Zachos

George Zachos OSC, Emergency Response Branch

(TAT)

Copy: Commissioner Williams, Commissioner Axelrod - NYSDOH, Dr. D. Carpenter - NYSDOH, R. Tramontano - NYSDOH, Messrs. L. Marsh, N. Robinson, D. Banks, J. Greenthal, D. Barolo, H. Hovey, C. Goddard, D. King, P. Keller

FYI

WALLKILL NEW YORK

TABLE

SUMMARY OF WATER LEVEL MEASUREMENTS

#	Residents	Top of Casing Elevation (ft)	Water Level Elevations In Feet Above Mean Sea Level 11/15/83	12/1/83	12/14/83	12/15/83	12/16/83	12/21/83	1/12/84	1/13/84	2/2/84	2/3/84
Industrial Place												
#	General Switch	635.37			624.77				621.74			
	Wooden Sump Opp. Contel	600.15										
2	Guild Molders	602.77							595.02		594.81	
Highland Avenue Extn.												
420	Orange Handling	628.63				616.70						
400	Kuhl Restaurant	638.84				603.31						
409	R. C. Prior	636.58										
406	F. Kuhl	628.81				622.76						
Highland Avenue												
355	Pitt	664.54				630.91				630.89		
339	Perry	654. approx.									588.28	
338	Perez	652.14	652.14									
328-332	Electra Mfg.	643.95	624.37			634.23	633.88	633.57	631.31		630.25	
330	Cornelius Merle	650.48	606.17				640.41		613.76			
329	Osbourne	649.65	602.72			604.13	622.71		619.01		617.04	
327	Lobb	646.38	606.58			596.41	606.70	620.57	617.99			
325	Fiore	644.33	607.82				622.05 607.50	622.05	617.26			
323	Gilbert	649.25	620.44				630.07					
321	Seeley	641.73	606.62					606.04	608.60		615.61	
320	Parella	639.19										

WALLKILL NEW YORK

TABLE

SUMMARY OF WATER LEVEL MEASUREMENTS

#	Residents	Top of Casing Elevation (ft)	Water Level Elevations In Feet Above Mean Sea Level							
			11/15/83	12/1/83	12/14/83	12/15/83	12/16/83	1/12/84	1/13/84	2/3/84
319	Ogden	640.91	609.63				605.67	612.16		
	Stout Lot #4									
	Dug Well #1 (Shallow)	619.05					617.96	617.86		
	Dug Well #2 (Shallow)	630.49					629.44	629.18		
317	Knapp	640.78	592.87				600.63	599.08		597.38

WALLKILL NEW YORK

TABLE

SUMMARY OF WATER LEVEL MEASUREMENTS

#	Residents	Top of Casing Elevation (ft)	Water Level Elevations In Feet Above Mean Sea Level 12/21/83	1/13/84	1/16/84	2/3/84
186	Gerald Winner	649.19				575.21
175	J. M. Holmes (Shallow)	633.09	623.00			
168	Wegenroth	639.47		611.59		
Commonwealth						
196	Reynolds	667.27			580.27	
193	Kehm (Shallow)	657.77			652.83	
183	Palermo (New)	654.90			564.77	573.37
	(Dug)	651.96				
	(Old)	651.79				
177	Claussen (Shallow)	647.65			642.60	
173	Dickerson	648.97			590.35	
243	Meyers	695.59		585.31		
229	Ruppert	683.26		576.68		
210	Berry	679.82		<579.82		

WALLKILL NEW YORK

TABLE

SUMMARY OF WATER LEVEL MEASUREMENTS

#	Residents	Top of Casing Elevation (ft)	Water Level Elevations In Feet Above Mean Sea Level								
			11/15/83	12/15/83	12/16/83	12/21/83	12/22/83	1/13/84	1/12/84	2/2/84	2/3/84
316	Stout	632.64									614.64
306-314	Continental Telephone	630.35	605.76			609.00			607.43	607.22	607.28
309	Barry	635.22			604.18				603.49		
297	Robaina	630.06							593.51		592.80
295	Janiak	623.38			589.50						
286	Estrada	616.45			595.65				592.75		
Electric											
31	Van Pelt	646.72			619.20			621.70			616.00
Watkins Avenue											
251	Saxton	684.35					601.65	595.08			
239	Wand	676.07								569.10	
238	Cosmo Optics (New)	675.96					593.34	600.17			
228	Prior King Press	673.27									
220	De Rose (Shallow)	667.77						658.65			
217	Robert Libario (Shallow)	662.66					658.53	656.25			
190	Morse	651.46						481.55			540.33
197	Rasmussen	639.64						592.79			595.17

WALLKILL WELL DATA

Industrial Avenue
Highland Avenue Extension

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
Industrial Place										
General Switch	City+ Abandoned Well	635.37	6" x 480"	Submersible 460'	2 gpm	None	537	268 mins @ 2 gpm	Well contaminated Well pumps dry in 20 mins. unless throttled back. Easy access, above ground	1981 Tomkins
17 Lubricants Inc. Packaging	City	No Well							Resident for 10 yrs. Use varsol, lubricants, trichloroethylene. Poor housekeeping	
2 Guild Molders (342 5701)	City (Drinking)	602.77	6" Centering guide @ 90'	Submersible 11 stage 11 HP		None	4		Plastic molding. Solvents used in decorating bottles	1975 Sullivan
Orange County Corrugated	No well City Used to be D&W Railroad					No well				

*Time required in minutes that well pumped @ selected gpm to obtain evacuation of 3 well volumes.

WALLKILL WELL DATA

Industrial Avenue
Highland Avenue Extension

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
Continental Telephone Offices	No well City Used to be D&W Railroad						No well			
Wooden clad sump opposite Continental telephone		600.15								
International Diesel Electric (Midland Avenue Ext.)	City no wells								Frank Cizek w/historical society of D&W confirmed no wells.	
409 R. C. Prior	Well	636.58	6" x 480'	Submersible 2 HP	3 gpm	None			Above ground. Slow recovery	1983 W. Roacke
409 Federal Cabinet	Well	-	6" x 200'	Submersible 2 HP					Well under bldg. slab	1955 -

*Time required in minutes that well pumped @ selected gpm to obtain evacuation of 3 well volumes

WALLKILL WELL DATA

Highland Avenue Extension

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
(Spring nearby elev 635.00)										
420 Orange Handling (343 0641)	Well	628.63	6" x 215'	Submersible 175'	60 gpm?	None				1968 -
408 F. Kuhl (343 0991)	Well	628.81	6" x 104'	Submersible 88'	10 gpm				Heavy concrete slab	1951 Davis
400 Kuhl Restaurant (343 8871) (Martin)	Well	638.84	6" x 264'	Submersible 224', 1 HP	30 gpm				Prolific. @ 30 gpm = 1 ft. drawdown	1977 Davis
363 Alan Lent (342 5497)	Well	-	6" x 285'	Submersible	Supplies Family	None			Well 16' from rear of house. TOC 7' below grade @ ctr line of house	1964 Noyes
361 Eliz. Noyes (342 6476) (343 8847)	Well	664.87	6" x 130'	Submersible 126'		None			Rash, burning on skin. Well below grade, son could dig up well	1960 -

WALLKILL WELL DATA

Highland Avenue Extension

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
357 Chas Schmall (Dght. 342 3528 343-3529)	Well	663.93	6" x 212'	Submersible 200' 1/2 HP	15 gpm	None			Wellhead under water 12/15/83. Please call daughter	1966 Davis
355 William Pitt (343 3717)	Well	664.54	6" x 110'	Jet 99' 3/4 HP	1 gpm	None			Well pumps dry @ 4 gpm in 40 mins. V. poor yielding well. Contaminated.	1940 -
353 Ken Ernest (343 4831) Katherine Wand	Well	Well inside house Empty lot	6" x 115'	Jet 90 3/4 HP	Supplies family of 2	None			Well under house	1960
341 Chas Courteau (342 2787)	Well		6" x 165'		-		-	-	Well below grade	-
339 Ray Perry (343 3820)	Well	652.63	6" x 210'	Submersible		Sediment Filter			Well below grade (2'). Dug up.	1955
338 Raymond Perez (343 0645)	Well Temp City	652.14	6" x 60'	Jet		None			Well used for garden only during summer. Temp. water from General Switch. Contaminated.	-

WALLKILL WELL DATA

Highland Avenue Extension

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
337 Olive Gady (342 1741)	Well	649.73	6" x 87'	Jet 3/4 HP	-	None			Well under house	1948
335 Janet Crocks (343 8452)	Well	653.17	6" x 106'	Jet 1/2 HP					Well below grade (4-5'). Contaminated	1960 Davis
334 William Roselli (342 1744)	Well Temp City	651.15	6" x 108'	Jet 1/2 HP		None			City water 1983 from General Switch. Well below grade. Contaminated	1953 Davis
328-332 Electra Mfg.	Well	643.95	6" x 100'+	None		None			Pulled hand pump. Well open.	
330 Cornelius Merle (813 343 0698) Local:Homer Carlisle (342-3126)	Well	650.48	6" x 265'	Submersible	-	None			Residents in Florida. Well above ground. Easy access.	1977 Davis
329 D. Osbourne (343-6745)	Well Temp City	649.65	6" x 200'	Submersible 180'					Well above ground. Easy access. Temp city water. Contaminated.	1980 Davis
327 Mrs. Lobb (342-2159)	Well Temp City	646.38	6" x 170'	Submersible 150'	4-5 pgm	None			Above ground-easy access. Contaminated.	1973 Davis

WALLKILL WELL DATA

Highland Avenue Extension

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
316 Stout (Janice) (343-4626)	Well Temp City	632.64	6" x	Jet		Yes			Contaminated	
306-314 Continental Telephone	No resident	630.35	6" x 192'	None					Obstruction. No resident. Above ground. Casing open/cut off	
313 Chris Lewis (342-0139)		637.34							Contaminated	
309 Robert Barry (342-0714)	Well	635.22	6" x 203'	Submersible 6 stage, 180'		None			Contaminated. Temporary city water	1977 Davis
307 George Ruppert (342-0009)	Well	633.17	6" x 205'	Submersible 1/2 HP		10 gpm			Contaminated. Temporary city water. Rock @ 90' (5' into rock)	1979 Davis
304 Edward Liska	Well	627.10	6" x 137'	1/3 HP					Well TOC 3' underground 6' from house	1959 Davis
299 Hilton Eckerson	Well	626.53								
298 Schmick	Well									
297 Francisco Robaina (343-0360)	Well	630.06	6" x 200'	Submersible		None	245 gal.		Contaminated. Temporary city water.	

WALLKILL WELL DATA

Highland Avenue Extension

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
295 Vicent Janiak (342-1610)	Well	623.38	6' x 200'+	Jet 1 HP		Softener	245 gal.	93 min @ 8 gpm Softener	Some sulfur. Contaminated. Kitchen sink 2 gpm + bath 4 gpm + + bath sink 2 gpm = 8 gpm	1950
293 Wayne Nixdorf	Well	623.45								
292 George Sleiter	Well	620.97								
291 Donna Smith (342-1157)	Well	621.87	4' x 17'	Jet 1/2 HP		Filter	25 gal	25 min @ 3 gpm. Filter	Hand dug	<1940
288 Seymour Healy (342-2998)	City					City - No Well				
286 Antonio Estrada (343-9824)	Well	616.45	6" x 170'	Submersible 1/2 HP						1976
287 Issy Tessler (342-2947)	Well		6" x 135'	Submersible 120' x 1/2 HP					Resident estimated Max pump rate 47 gpm	
282 Frank Shattuck	Well	614.29								
281 Arthur Condadi (343-2044)	City (McGawline)					No Well				
280 James Cole	Well	613.49								

WALLKILL WELL DATA

Highland Avenue Extension, Sands, Electric & Watkins Avenue

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
275 Neldham (343-3878)	City No well						No Well			
Sands										
24 Miller Realty (342-3974)	City No well						No Well			
Sam E. Fast										
Electric										
31 Van Pelt (342-0176)	Well	646.72	6" x 230"	Submersible 1/2 HP		None			Well above ground. Easy access.	1973
Watkins										
165 Sherman R. Stephens (342-1709)	City	618.13			None				Dug well. Easily accessible.	-
168 Alice Wegenroth (342-1479)	Well	636.47	6" x 70'	Submersible 60' 1/3 HP	Never ran dry				Well in sump under slab. Previous owner Perrello (361-3611)	-
170 Mrs. Brittings (342-3367)	City No well						City - No Well			
171 J.M. McEwan (343-8743)	City No well						City - No Well			

WALLKILL WELL DATA

Watkins Avenue

#	Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
174	Beatrice Holmes (343-4035)	Well	639.11	6" x	Jet	-	Calgon			Top of casing submerged.	-
175	Mrs. J.M. Holmes	Well	633.09	4' x 30'	Jet					Dug well. Easily access. Dry in August	
178	Mr. Benedict (343-8201)	City						City - No Well			
179	Charles R. Winner (342-4305)	City						City - No Well			
180	Mrs. Sutherlin (343-7043)	City						City - No Well			
181	Mrs. Vondung (342-0484)	City						City - No Well			
183	Phillip Scarlafava (343-8159)	City						City - No Well		Dug well filled in	
184	Isabella Hutchinson (342-4078)	City+ Aband. Well	648.72	6" x 155'	None	5 gpm	None			Sulfur/oily. Covered with large concrete slab.	1944
185	George Frank (343-3397)	City						City - No Well			

WALLKILL WELL DATA

Watkins Avenue

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
186 Gerald/Eva Winner (343-5406 Ofc.) (343-8100 Ho.)	Well	649.19	6" x 280"	Submersible 250' 3/4 HP	3 gpm	None	352 gal.	100 min @ 3.5 gpm	Well TOC below grade	1966 Davis
187 Peter H. Rasmussen (342-2329)	Well	639.64	6" x 146'	Submersible 135' 1/2 HP	7 gpm	Yes	156	44 min @ 3.5 gpm	Obstruction-centering guide at 80? Contaminated	1935
190 Louis W. Morse	Well	651.46	6" x 314'	Submersible 200 1/2 HP		Culligan			Had water supply problems with well since Palermo sunk wel. Contaminated	1970 Tompkins
194 Dianne Regan	City						City - No Well			
195 Hebrew Day School (343-8588)	City						City - No Well			
196 Wontz	City						City - No Well		Dug well filled	
198 Floyd Terwilleger (343-7150)	City						City - No Well		Authority on McGaw Line Water supply	
201 M. Smith (343-0319)	City						City - No Well			

WALLKILL WELL DATA

Watkins Avenue

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
200 Mrs. H. Reutzel (343-3716)	City						City - No Well			
202 Rose Mayfield (343-4440)	City Abandoned Well	659.52		Jet						
204 Paul Swizero	City						City - No Well			
208 Starr	City Shallow abandoned well	662.53		None	-	None			Property used to be a lake. Water 10' down for garden	-
213 Leroy Buck (343-6727)							City - No Well			
214 Helen Smith (342-0007)	City + Shallow abandoned well	666.47		None		None			5' from kitchen door, under round cement slab	-
216 Harvey Lybolt (342-1683)	City						City - No Well			
217 Robert Libario (343-6310)	City Aband. Dug well	662.66							Cement slab. Water level measurement easy. Shallow dug well.	

WALLKILL WELL DATA

Watkins Avenue

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
219 Fred Lybolt (343-7886)	City Aband. Well	659.75	3' x 40'	None		Charcoal			Well is on #217 (common well)	1960
220 Dennis De Rose (342-4110)	City Aband. Well	667.77		None		None			Jet pump in basement. Shallow dug well under cement slab.	-
221 Janice Panella (342-2506)	City	City - No Well								
222 Frank Currier (343-1498)	City	City - No Well								
223 Ronald Griffin (343-1191)	City	City - No Well								
225 Mr. Hubsch (342-1191)	City	City - No Well								
227 Chester Seeley (343-1074)	City	City - No Well								
228 Prior King Press (343-3318)	Well	673.27	6" x 200'	Submersible 180' 1/2 HP		None	235 gal.	78 min. @3.5 gpm	Well 6" below grade Chronic pressure loss.	1957

WALLKILL WELL DATA

Watkins Avenue

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
229 Joseph Radivoy (342-0735)	Well	668.69					221 gal assumed	63 min @ 3.5 gpm	Contaminated. TOC below ground.	
231 Clarence Campbell (342-0194)	Well	Prior King Press Well								
233 Jehovahs Witness	Well									
238 Cosmo Optics (343-2105)	Old Well#1 (Under house)	-	6" x 190'	Submersible 3/4 HP	8-10 gpm	None	280 gal.	80 min @ 3.5 min	Under house. Contaminated	1960 Davis
	New Well#2	675.96	6" x 290'	Submersible 3/4 HP	5-6 gpm	None	368 gal.	105 min. @ 3.5 gpm	Well under heavy concert slab. Contaminated	1980 Davis
239 Sal & Kay Wand (343-6643)	Well	676.07	6" x 214"	Submersible 168' 3/4 HP	8 gpm	None	256 gal	73 min @ 3.5 gpm	Contaminated. Centering guide @ 22'. Removed to water-table.	1958 Davis
251 Saxton (343-8748)	Well	684.35	6" x 250'	Submersible 200' x 1/2 HP	10 gpm	None	308 gal.	88 min. @ 3.5 gpm		

WALLKILL WELL DATA

Commonwealth Avenue

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
173 Norman P. Dickerson (343-1569)	Well	648.97	6" x 250'	Submersible 200' 1/2 HP	12-15 gpm	Filter for sulfur			Some sulfur-located left side yard. Green casing. Easy access.	1972 Davis
174 Miguel Lopez (343-5928)	Well	Well under house		Jet Pump 1/2 HP	Enough for a family of 5 (accept dry spells)	None			Wife-kidney infections Well under addition in back of house. Accessed through basement.	
176 Reagan	Well	Well under house								
177 Ira S. Clauson (343-4443)	Well	647.65	13'	None					Dug well-under round slab in backyard-easy access.	1925
179 Jeff & Dale Rieck (342-6383)	Well	Well under house	-	Submersible		For sulfur			Enters house by basement window near porch in back-exact location underground.	1960
182 Mrs. Harry Davis (343-4439) (343-1061 Wo)	Well + Abandoned Well		-	Submersible		None			Abandoned well under garage. Floor-opening available.	1975 Davis

WALLKILL WELL DATA

Commonwealth Avenue

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
183 John & Evelyn Palermo (342-3071)	Well + Abandoned Well + Dug well	654.90 651.79 651.96	276' x 6" 365' x 6" 10' x 3'	Submersible	5 gpm	None			Old well dry May. 1983 was 365' and have a dug well-both in left side yard, slight sulfur odor-use new well in front.	

WALLKILL WELL DATA

Commonwealth Avenue

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
186 Flynn	Well									
187 Gessner	Well									
188 Norma Demouth (342-0862)	Well	663.32	296' x 6"	Submersible 1.5 HP		None			Well on left side of house under orange bucket.	DeRossi
189 Michael Steels (343-5656)	Well		110' x 6"	Submersible 1 HP		Softner			Well between front door step and blue post to the right.	
191 Bertha Krawiec (343-8688)	Well	654.76	240' x 6"	Submersible	3 1/2 gpm	Softner			In backyard. Hard water and sulfur.	1968 Davis
192 Hite (342-0260)	Well	665.26	177' x 6"	Submersible		Softner			Drilled well on back-yard path under round slab-abandoned dug well in shed that is partially filled in. Explosive charge see data sheet.	1961 Davis
193 Theresa Kehm (342-0595)	Well	657.77	25-30' x 3'	Jet		None			Dug well. Pump in basement ment-well, rear of house near drive-covered with concrete slab.	

WALLKILL WELL DATA

Commonwealth Avenue

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
195 John Crudo, Jr. (342-4385)	Well	-	150' x 6"	Submersible 140'		Yes				
196 R.J. & Louise Reynolds (342-4355)	Well	667.27	240' x 6"	Submersible 200'	6 gpm	Yes			Hard water/occasional sulfur-well located in backyard in a U-shaped arrangement of concrete blocks-easy access.	1977 Davis
197 Allan J. Brincherhoff (343-2303)	Well	661.34	270' x 6"	Submersible 200' 1/2 HP	5 gpm	No			Hard water/sulfur. Well in corner of pump. Pulled yearly. Located near driveway near reflector. Plenty of water	1975 Davis
200 James Kieran (342-1152)	Well	671.56	189' x 6"	Submersible 160'		Yes. Caligan				1964
205 James Hawkins (343-5919)	Well	668.92	190' x 6"	180'	4 gpm	Softner			Pumps dry in 1 hr. very hard. Easy access through house -acess from outside.	1930
206 Wallace K. Bliven (342-0662)	Well	667.18	165' x 6"	Submersible 155'	2 gpm					

WALLKILL WELL DATA

Commonwealth Avenue

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
208 Hollis E. Johnson (342-2400)	Well	667.08	180' x 6"	Submersible 175' 1/2 HP	3 1/2 gpm	No			Slight bacteria contamination. Nauseous, boils, cleared up last week.	1974 Davis
209 Panero (342-2193)	Well		255' x 6"	Submersible 240' 1 1/2 or 2 HP	6-7 gpm	No			Well in front of house 4' out from left kitchen window (well 190' original). 1955 went dry, drilled to 255' in 1969.	1955
210 Harold C. Berry (343-8711)	Well	679.82	160' x 6"	Submersible 1/3 HP	40 gpm	No				
211 Bob Norbury (342-3962)	Well		212' x 6"	Submersible		Yes				
213 Letha Carey (342-2295)	Well	675.46	139' x 6"	Submersible		No			Sediment in water. Well covered by driveway. Do not like taste.	1950 Davis
214 Jay Mader (342-2850)	Well	680.44	170' x 6"	Jet 1 HP		No			Well covered by layer concrete slab, but hole in center. Sore throats, skin rashes.	

WALLKILL WELL DATA

Commonwealth Avenue

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
216 Joseph D. Brincherhoff and Son (343-7764)	Well	681.61	11' x 3'	Jet 1/3 HP		No			Do not drink. Use for toilet only. Dug well-inside shop.	
217 Marie Hoffman (343-9871)	Well	674.24	-			No				
220 Frank Varga (343-1754)	Well	684.56	200' x 6"	Jet 130' 1/2 HP					Drilled well for drinking, showers. Dug well for garden, washing clothes.	
221 George Muller (343-5619)	Well	681.47	-	-	-	No			1973	
223 Old Foundation										
224 William R & Marilyn Morris (342-1098)	Well	688.56	205' x 6"	Submersible		No				1966 Davis
226 Runnalls (342-5078)	Well	689.56	Below ground			Softner, calligan			Using bottled water, use well for shower.	

WALLKILL WELL DATA

Commonwealth Avenue

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
227 Charles J. & Alice MacEntee (342-1331) (343-7107 Work)	Well	681.50	280' x 6"	Submersible 275'	5 gpm	No			Hard/sulfur-well above ground directly to rear of house. Behind Cosmo Optics.	1977 Davis
228 W. Plantenga (342-1125)	Well	693.75		Submersible		No			Well water checked in Nov. 1 abandoned. well hard to access. Contact owner Mr. Mielke, Middletown	
229 David Ruppert (343-1753)	Well	683.26	265' x 8"	Submersible 220' 1/2 HP	5 gpm	No			2 residents w/rash 90' to bedrock 100' casing-bedrock @ 95'.	1975 Davis
230 C. Thacker (343-2155) (343-1580 Work)	Well	694.72	200' x 6"	Submersible 190'	5-6 gpm	No			Hard/sulfur. Facial rash/headaches/ nausea.	1960 Davis
231 Eugene & Shirley Block (342-4220)	Well	690.15	152' x 6"	Submersible		Softner			Well under front porch. Pump repaired in October. Galvanized pipe eaten away.	1955

WALLKILL WELL DATA

Commonwealth Avenue

# Resident (Telephone #)	Type of Water Supply	Elevation Top of Casing (Ft.)	Diameter Depth (Ft.)	Pump Type Depth (Ft.) H.P.	Max Pump Rate (Gal)	Water Filter	Submerged Well Volume (Gal)	Sample Protocol*	Comments	Year Drilled Driller
232 Linda Caffery (342-3533)	Well	695.73								
233 Paul Heilfurth (343-0310)	Well Dug well	683.84 686.47	155' x 6" 30' x 3'	Submersible 146' 1/2 HP	8 gpm	No			Reported rash-never goes dry 7/16/82 replaced pump and pipe dug well 30' no pump easy access.	
237 Bill Noha (343-6043)	Well	688.44							Malignant melanoma	
241 Hazel Gallo (343-0746)	Well	691.82	95' x 6"	Jet 1/2 HP		No			Gallo pump repaired 12/83.	
243 Shares Well with well #245 Meyers	Well	-								
244 Patrick Finlay (343-4929)	Well	697.32	163' x 6"	Submersible 135'	8 gpm	No				
245 M. Meyers (342-1895)	Well	695.59	256' x 8"	Submersible		Yes			Well turned cloudy for short time when 320 Highland Ave. started pumping.	

EPA-DEC-General Switch Meeting on Walkill
February 23, 1984

NAME	ORGANIZATION	TELEPHONE #
George Pavlou	EPA	212-264-0106
Dave Lypsky	Fred C. Hart Assoc.	212-840-3990
Walter S. Stern	General Switch	914-342-5801
Martin Baker	Rosenman, Colin	212-940-8800
Grace Goodman	Rosenman, Colin	212-940-8800
Albert Klauss	NYSDEC	914-255-5453
George H. Zachos	EPA	201-321-6647
William K. Sawyer	EPA	212-264-4472
David Rogers	EPA	212-264-4703
Louis A. Evans	NYSDEC	914-761-6660
John Bee	Roy F. Weston	201-225-6116

U.S. ENVIRONMENTAL PROTECTION AGENCY

POLLUTION REPORT

DATE: February 20, 1984

Region II
Emergency Response Branch
Edison, NJ 08837

(201) 321-6670 - Commercial
(201) 548-8730 - 24 Hour Emergency
340-6670 - FTS

TO: J. Schafer, EPA
R. Dewling, EPA
W. Librizzi, EPA
F. Rubel, EPA
J. Marshall, EPA
W. Muqdan, EPA
S. Dorrler, EPA
M. Chivinski, FEMA
N. Nosenchuck, NYSDEC
ERD, EPA Washington
P. Keller, NYSDEC
J. Anderson, HHS
R. Johnson, OCDOH
D. Cosgrove, Town of Wallkill
R. Hutching, City of Middletown

POLREP NO.: Eleven (11)
INCIDENT NAME: Wallkill, N.Y.
SITE/SPILL NO: A7
POLLUTANT: Tetrachloroethylene
CLASSIFICATION: Medium
SOURCE: Unknown
LOCATION: Wallkill, N.Y.
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION:

A. On Februarv 7, 1984, a Notice of Violation was sent to the General Switch Co., located on Industrial Place, Middletown, New York. The notice outlined their alledged responsibility for the groundwater contamination, by tetrachloroethylene, on Highland Avenue and the surrounding area.

B. Total samples collected as of February 17, 1984 are 368.

C. As of 2/10/84, 98 wells have been sampled in the affected area. Of these, eight had concentrations exceeding 50 ppb. Eleven wells contained tetrachloroethylene at levels between 1 and 50 ppb. In this summary, the Pitt well is listed as having concentrations less than 50 ppb. Although the concentration of one sample was 165 ppb, two subsequent samples exhibited concentrations less than 1 ppb.

D. Samples continue to be collected to determine the extent of groundwater contamination. Samples are also being taken from the Wallkill and Middletown Waste Water Treatment Plants, as well as the Wallkill River to provide baseline data. Samples are being analyzed on-site by NYSDEC/DSHW, using gas chromatography.

2. ACTION TAKEN:

A. On February 16, 1984, a meeting was held by the Heights Area Residents Against Pollution (HARP) to discuss the possibility of creating a water district in the affected area. Approximately 260

residents attended the meeting. Also present were Congressman Benjamin Gillman, representatives of the EPA, New York State DEC, Orange County Health Department and the Town of Wallkill.

B. During the week of February 13 thru 17, 1984, 23 additional samples were collected in the affected area.

C. A drilling and monitoring plan for the hydrogeologic investigation has been submitted to the NYSDEC for review.

D. On February 17, 1984, the General Switch Co. of Middletown, New York indicated responsiveness in evaluating what action they should undertake for the tetrachloroethylene groundwater contamination problem in the Washington Heights area of the Town of Wallkill.

E. Financial Status:

i. Total authorized for mitigation contracts (Trust Fund)	$ 100,000.00
ii. Expenditures for mitigation contracts	
1a. Amount obligated to Town of Wallkill (Doc. control# D2D-009) Contract No. 68-62-0006	20,000.00
1b. Estimated expenditures for Contract No. 68-62-0006 (D2D-009)	15,855.02
1c. Balance of obligated amount under (D2D-009) Contract No. 68-62-0006	4,144.98
2a. Amount obligated to HLF Plumbing (Doc. control# D2D-010) under Contract No. 68-92-0034	25,000.00
2b. Estimated expenditures to 2/10/84 under Control No. 68-92-0034 (D2D-010)	2,128.00
2c. Balance of obligated amount Under Contract No. 68-92-0034	22,872.00
iii. Unobligated balance remaining for mitigation contracts	55,000.00
iv. Estimate of Total Expenditures to date for all mitigation.	17,983.02
v. Other extramural Costs (through 2/10/84)	
1a. TAT special projects expenditures	18,071.98
1b. TAT, other expenses (salary/travel)	35,403.19
2. Total, other extramural costs	$53,475.17
vi. Total Extramural Expenditures (Items ii & v) and percentage of $1,000,000	$71,458.19 (=7.15% 1M)

F. On February 15, 1984, "Delivery Order" No. 6893-02-003 was sent to O.H. Materials to provide services for the hydrogeologic investigation of the affected area. The services are to be provided as detailed on the Daily Work Orders.

3. FUTURE PLANS AND RECOMMENDATIONS:

A. Same as previous polreps.

CASE PENDS X CASE CLOSED ____ SUBMITTED BY George H. Zachos

George Zachos OSC,
Emergency Response
Branch

(TAT)

l plots area of risk around wells

E20

By MELODEE ALVES
Staff Writer

GOSHEN — Orange County Health Commissioner Dr. Russell Johnson said yesterday that residents living beyond 1,000 feet of chemically contaminated wells in the Washington Heights section of Wallkill are not considered "at risk" at this time.

However, the safety of their private wells could not be guaranteed next month or next year, he said.

At risk are residents living within 500 feet of the wells, he said. Specifically, that includes residents with private wells living on Watkins and Commonwealth avenues and residents on the Commonwealth Avenue side of Rockwell Avenue, Johnson said.

Residents living between 500 to 1,000 feet of the contaminated wells on Highland Avenue Extension "are probably at risk and should use bottled water," he said.

The three areas contain one-family and some multi-unit housing, but the number of households involved could not be estimated.

According to the federal Environmental Protection Agency (EPA), 10 private wells within 500 feet of Highland Avenue Extension have shown traces of the contaminant, tetrachloroethylene (PCE).

Seven other wells on Highland Avenue Extension have been known since the last of October to be polluted at hazardous levels with PCE. The chemical has caused cancer in laboratory mice and rashes upon repeated contact and kidney and other internal organ deterioration in humans with repeated consumption over a long period.

Officials believe the pollution may be traceable to a nearby firm that manufacturers electrical switches.

The most polluted wells serving the seven homes have been condemned, and the households are receiving water from the city of Middletown.

Johnson said in a telephone interview yesterday that he defined the areas of risk to distinguish between those residents who should request bottled water from the town and those who should not. Some residents within the areas are already using bottled water.

The defined areas are based on studies of soil and water samples taken by the EPA, the state Department of Environmental Conservation (DEC) and the county Health Department. Jonnson said he supports a public water district proposal because there is no evidence to indicate the contamination is not spreading.

The EPA identified General Switch Co., near Highland Avenue Extension, an electrical switch box manufacturer, as a possible polluter. A meeting is expected this week with the company, the EPA and the DEC to discuss the voluntary actions for a cleanup suggested by the EPA to General Switch. An investigation of other potential polluters is continuing, said an EPA spokesman.

Anyone in the neighborhood with questions about his or her well may call 294-7961, Johnson said.

~~Al Tech~~
Al Klaus
330-025

p. 24 C. THR Saturday, February 18, 1984 THE

around the region

Firm to cooperate in well probe

MIDDLETOWN — The local company suspected of contaminating seven private wells in Wallkill agreed yesterday to cooperate with all of the agencies involved in the investigation of the pollution.

General Switch Co., of 20 Industrial Place, notified the Environmental Protection Agency (EPA) of its intent yesterday, an EPA spokesman said. The EPA had sent a letter to the firm naming it as the possible polluter and citing the voluntary actions the company should take.

"General Switch has responded to the EPA and we will cooperate with the EPA and all appropriate agencies in the investigation," said Walter S. Stern, president of General Switch.

Stern declined further comment. It could not be learned whether General Switch had agreed to clean up the pollution.

EPA spokesman Herman Phillips said there were still "a lot of details to be worked out." A meeting is scheduled for next week between General Switch representatives and the state and federal agencies, Phillips said.

Seven wells on Highland Avenue Extension have been condemned since October because they were polluted at hazardous levels with tetracholoroethylene (PCE), a dry cleaning and metal degreasing chemical. PCE has caused cancer in laboratory mice and rashes upon repeated contact and kidney and other internal organ deterioration if consumed in high quantities over a long period.

Washington Heights Meeting - February 16, 1984

On October 14, 1984, the owner of 320 Highland Avenue notified the O.C.H.D. and the N.Y.S.D.E.C. of test results on his well. The well was condemned that day by the County Health Department, and five surrounding wells were tested. One of those five was found to be polluted and was condemned twenty-four hours later. By January 25, 1984, seven wells had revealed concentrations of the pollutant to be considered hazardous for human consumption. The residents of those wells were personally visited by me, and medical information was taken.

The sequence of events have indicated a gradual but constant spread of the pollutant beyond the parameters set originally in October. The Department of Health has monitored all the results of water sample tests taken and, in some selected cases, has had repeat tests performed because the information on test results was not provided in a timely manner.

The long range potential for further spread of the pollutant is dependant on fractures in bedrocks, percolation characteristics of the soil, and the topography of aquifers. Only the Geohydrologists can provide such information. From the point of view of the Orange County Health Department, I cannot assure any private well owners in Washington Heights area that their private well water will ever be completely safe for human consumption.

This particular incident of ground water pollution with tetrachlorethylene is the worst in the State's history according to the best information available to the Department. The knowledge of it has attracted considerable attention by the communication media both in and out of the State.

WHEN ONE CONSIDERS THE UNCERTAINTY OF THE FUTURE GROUND WATER QUALITY; WHEN ONE CONSIDERS THE RESALE VALUE OF ONE'S PROPERTY; WHEN ONE CONSIDERS THE RESPONSIBILITY OF TESTING ONE'S WELL IS THE OWNER'S; IT BECOMES VERY EVIDENT THAT THE ONLY SOLUTION, THE ONLY WAY OUT OF THE UNCERTAINTY, AND THE ONLY ASSURANCE OF RECEIVING DRINKING WATER WHICH MEETS WATER QUALITY STANDARDS SET BY THE NEW YORK STATE DEPARTMENT OF HEALTH, IS TO BAND TOGETHER TO REQUEST THE TOWN OF WALLKILL TO ESTABLISH A WATER DISTRICT.

I STRONGLY ADVISE IT.

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TIMES HERALD RECORD
Middletown, N.Y.

15 FEB 84

E20

Washington Heights group airs tainted-well fears

By MELODEE ALVES
Staff Writer

GOSHEN — The newly formed citizens group in Washington Heights carried its fears and frustrations to an environmental forum last night in a step aimed at gathering support to form a water district.

David Ruppert, president of the group known as the Heights Area Residents Against Pollution (HARP), said the approximately 40 members were concerned that they have not received written results from tests run on wells in Washington Heights.

Test results by the Environmental Protection Agency on seven other private wells on Highland Avenue Extension have shown hazardous levels of tetrachloroethylene, a dry-cleaning and metal-degreasing chemical that can cause skin irritation and kidney and other internal organ deterioration.

HARP was formed Sunday night by residents who live near the contaminated wells and want to form a water district because they are afraid their wells will become contaminated.

Dr. Russell Johnson, county health commissioner, and Paul Keller, regional director of the state Department of Environmental Conservation (DEC) participated in the forum at the County Government Center sponsored by the Goshen Area Resources Association.

Johnson said test results from one sampling may conflict with another sampling and the county felt it was best first to notify those seven residents facing immediate risk. He added that anyone who wanted to know the results of their well testing could call the Health Department.

Both Johnson and Keller cited funding and staffing problems as difficulties in a quick response to environmental problems.

Rupert, however, argued that residents are entitled to a written reply, adding that he might file a freedom of information request.

The source of the pollution has not been found, and both Johnson and Keller said there is the possibility that the contamination will spread.

Ruppert asked that officials provide his group with data to show residents the contamination is spreading. He explained the information was necessary because those residents who do not live in the area of the contaminated wells may try to defeat a proposal to form a water district. HARP members want the water district because it would supply them with a safe public water supply.

Town of Wallkill Councilman Ernest Green has scheduled a meeting at 7:30 p.m. tomorrow at the Washington Heights Firehouse to discuss forming a water district in the area.

Klauss

U.S. ENVIRONMENTAL PROTECTION AGENCY

POLLUTION REPORT

DATE: February 15, 1984

TO: J. Schafer, EPA
R. Dewling, EPA
W. Librizzi, EPA
F. Rubel, EPA
J. Marshall, EPA
W. Mugdan, EPA
S. Dorrler, EPA
M. Chivinski, FEMA
N. Nosenchuck, NYSDEC
ERD, EPA Washington
P. Keller, NYSDEC
Andersen, HHS
R. Johnson, OCDOH
D. Cosgrove, Town of Wallkill
Hutchings, City of Middletown

Region II
Emergency Response Branch
Edison, NJ 08837

(201) 321-6670 - Commercial
(201) 548-8730 - 24 Hour Emergency
340-6670 - FTS

POLREP NO.: Ten (10)
INCIDENT NAME: Wallkill, N.Y.
SITE/SPILL NO: A7
POLLUTANT: Tetrachloroethylene
CLASSIFICATION: Medium
SOURCE: Unknown
LOCATION: Wallkill, N.Y.
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION:

A. Total samples collected since February 3, 1984 is 337.

B. As of 2/10/84, 96 wells have been sampled in the affected area. Of these, eight were greater than 50 ppb. Nine wells contained tetrachloroethylene at levels greater than 2 ppb but less than 50 ppb.

C. Samples continue to be collected to determine the extent of groundwater contamination. Samples are also being taken from the Wallkill and Middletown Waste Water Treatment Plant, and Wallkill River to provide baseline data. Samples are being analyzed by on-site NYSDEC/DSHW, by gas chromatography.

2. ACTION TAKEN:

A. On February 8, 1984, the Regional Administrator authorized an additional $50,000 for the continuation of the hydrogeological investigation. This increases the total authorized to $100,000.

B. During the week of February 6th thru 11th, 1984, 24 additional samples were collected in the affected area.

C. A drilling and monitoring plan for the hydrogeologic investigation is being prepared and will be submitted to the NYSDEC for review.

D. Financial Status:

Total authorized for mitigation contracts (Trust Fund)	$ 100,000.00
Expenditures for mitigation contracts	
1.a. Amount obligated to Town of Wallkill (Doc. control# D2D-009) contract no. 68-62-0006	20,000.00
1.b. Estimated expenditures for contract no. 68-62-0006 (D2D-009)	<15,855.02
1.c. Balance of obligated amount under (D2D-009) contract no. 68-62-0006	4,144.98
2.a. Amount obligated to HLF Plumbing (Doc. control# D2D-010) under contract no. 68-92-0034	25,000.00
2.b. Estimated expenditures to 2/10/84 under control no. 68-92-0034 (D2D-010)	2,128.00
2.c. Balance of obligated amount Under contract #68-92-0034	22,872.00
Estimated total expenditures of authorized trust fund amounts	17,983.02
Balance of authorized funding not currently obligated	55,000.00
Extramural costs (through 2/10/84)	
3.a. TAT special projects expenditures (invoice total)	18,071.98
3.b. TAT other expenses (salary/travel)	32,693.15
3.c. TAT total (estimated)	$50,765.13
Total Expenditures	$68,748.15

3. FUTURE PLANS AND RECOMMENDATIONS:

A. Same as previous polreps.

CASE PENDS X CASE CLOSED ____ SUBMITTED BY Paul R Ellis

for George Zachos OSC, Emergency Response Branch

(TAT)

TIMES HERALD RECORD
Middletown, N.Y.

13 FEB 84

Tainted-well woes trigger flood of rage

By PETER PANYCH
Middletown Bureau Chief

WASHINGTON HEIGHTS — About 40 Washington Heights residents last night witnessed the birth of a political force aimed at getting their polluted wells cleaned up.

The residents, who filled the Washington Heights Firehouse on Western Avenue, pored out their frustrations built up since November over the lack of information and action from federal, state and local officials in cleaning up polluted groundwater.

And at the end of the two hours, they elected officers and voted to organize a community group to push for identification of the source of the pollution, and to get residents a safe source of water.

"This is a living nightmare," Don Osborne of 329 Highland Ave. Ext. told those gathered.

Osborne lives across the street from 320 Highland Ave. Extension, where well water tested by the Environmental Protection Agency (EPA) showed 290,000 parts per billion of the dry-cleaning and metal-degreasing chemical, tetrachloroethylene — the highest level ever recorded by the state in drinking water. Osborne and six of his neighbors have been forced to disconnect their wells and now get water from the City of Middletown through a temporary, above-ground hookup.

Osborne and others complained bitterly of being forced to pay double and triple the rate of city of Middletown water users. "I don't want anybody in this room going through what I'm going through," Osborne said. "We're going to pay triple for the water we're using. When you're in trouble, that doesn't seem to be right. We have no place to go."

David Ruppert, who was unanimously elected president of the organization, dubbed Heights Area Residents Against Pollution (HARP), told the residents that, ultimately, the group should work for creation of a water district that would extend from the city of Middletown limits to Route 302. The water would be purchased from the Silver Lake Water District.

If that doesn't work, Ruppert suggested the residents request that the Washington Heights district be annexed into the corporate borders of the City of Middletown to take advantage of the city's water supply.

In emphasizing the importance of a water district, Ruppert said a group of neighbors met last week with Dr. Russell Johnson, Orange County health commissioner, who told them the polluted wells in the Highland-Commonwealth-Watkins avenue area may never be used for drinking "within our lifetimes."

When the pollution was discovered in November, Johnson issued an advisory to residents with wells on those streets not to drink the water.

"It behooves all of us," Ruppert said, to go to others in the district and say you're not safe. Dr. Johnson feels that in five years, every well within two miles will be affected."

Ruppert, of 229 Commonwealth Ave., complained that Washington Heights residents have heard nothing from the EPA or state Department of Environmental Conservation (DEC) concerning tests performed on their wells.

"Who has received a written report from the EPA?" Ruppert asked. No one in the group raised their hands. "They spent $50,000 of our money in the past six months and they haven't told us anything. We read it in the paper, but nobody's calling us."

Paul Heilfurth of 231 Commonwealth Ave., a group organizer, warned that it's up to the residents to get action on the problem. "The EPA will leave if they find the source or not; then we're stuck with it, unless the citizens decide to do something. In numbers we will be heard," he said.

The EPA recently announced that it has allocated another $50,000 for more water and soil sampling, but the agency's contracted commitment expires in mid-May.

Michael Gordon, a West Orange, N.J., environmental lawyer, advised the group that they should divide their work into two parts. First, it must meet with federal and state officials to push for a source of clean water for residents in the district. Then, if the culprit is found, Gordon suggested that a lawsuit be launched on behalf of the group to recover damages. Gordon sits on the board of directors of a newly-formed local environmental organization, Orange Environment Inc.

"If you stay together as a group and maximize your political power, things will happen," Gordon said."... It won't happen overnight. A lot of people have gone through this problem in New Jersey for 10 to 12 years."

The DEC has said it has several leads as to the identity of the source of pollution, however, they refuse to publicize their findings at this stage of the investigation.

Ruppert said the group's concerns will be presented at a Thursday Wallkill Town Board meeting at which time a discussion of the formation of a water district in Washington Heights is scheduled.

Klaus

U.S. ENVIRONMENTAL PROTECTION AGENCY

POLLUTION REPORT

DATE: February 7, 1984

TO: J. Schafer, EPA
R. Dewling, EPA
W. Librizzi, EPA
F. Rubel, EPA
J. Marshall, EPA
W. Muqdan, EPA
S. Dorrler, EPA
M. Chivinski, FEMA
N. Nosenchuck, NYSDEC
ERD, EPA Washington
P. Keller, NYSDEC
Andersen, HHS
R. Johnson, OCDOH
D. Cosgrove, Town of Wallkill
Hutchings, City of Middletown

Region II
Emergency Response Branch
Edison, NJ 08837

(201) 321-6670 - Commercial
(201) 548-8730 - 24 Hour Emergency
340-6670 - FTS

POLREP NO.: Nine (9)
INCIDENT NAME: Wallkill, N.Y.
SITE/SPILL NO: A7
POLLUTANT: Tetrachloroethylene
CLASSIFICATION: Medium
SOURCE: Unknown
LOCATION: Wallkill, N.Y.
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION:

A. The transportation of waste from the Parella well by tank truck and disposal into the Town of Wallkill Sewage Treatment Plant has ceased as of December 26, 1983, due to shortage of manpower from the Town of Wallkill and freezing conditions. During this period 33,400 gallons of groundwater contaminated with tetrachloroethylene was removed from the shale aquifer servicing residential and industrial wells in the affected area.

B. This week an additional 21 samples were collected and analyzed. A total of 316 samples have been collected and analyzed as of February 2, 1984.

C. As of February 2, 1984, ninety-five wells have been sampled in the affected area, of these 18 have shown positive results, nine wells above 50 ppb, and 9 homes in the range between 1 ppb and 50 ppb. An additional 2 residents (Prior King Press, 230 Watkins Avenue and Radivoy 229 Watkins Avenue) are now included in this list.

D. Samples continued to be collected and analyzed by New York State DEC/Division of Solid and Hazardous Waste/by gas chromatography.

E. The Robaina residence, 297 Highland Avenue was connected to a temporary water line from the Hebrew Day School, 189 Watkins Avenue, on February 2, 1984. In order to limit liability and eliminate operating costs (heat tape) the line was placed below ground.

2. ACTION TAKEN:

A. HLF Plumbing and Heating Company rehabilitated 13 wells to enable water-level measurements to be taken to assess the effect of pumping of the wells, to determine the interconnection of the wells and determine the direction of the groundwater flow.

B. On February 3, 1984, the Town of Wallkill was notified to proceed to revise the Plans and Specifications for the water line on Highland Avenue. Contract No 68-62-006 will be modified to include this additional work.

C. Financial Status:

Total authorized for mitigation contracts (Trust Fund)	$ 50,000.00
Expenditures for mitigation contracts	
1.a. Amount obligated to Town of Wallkill (Doc. control# D2D-009) contract no. 68-62-0006	20,000.00
1.b. Estimated expenditures for contract no. 68-62-0006 (D2D-009)	<15,855.02
1.c. Balance of obligated amount under (D2D-009) contract no. 68-62-0006	4,144.98
2.a. Amount obligated to HLF Plumbing (Doc. control# D2D-010) under contract no. 68-92-0034	25,000.00
2.b. Estimated expenditures to 2/3/84 under control no. 68-92-0034 (D2D-010)	2,128.00
2.c. Balance of obligated amount Under contract #68-92-0034	22,872.00
Estimated total expenditures of authorized trust fund amounts	17,983.02
Balance of authorized funding not currently obligated	5,000.00
Extramural costs (through 2/3/84)	
3.a. TAT special projects expenditures (estimated)	17,500.00
3.b. TAT other expenses (salary/travel)	28,755.51
3.c. TAT total (estimated)	$46,255.51
Total Expenditures	$64,238.53

3. FUTURE PLANS AND RECOMMENDATIONS:

A. Same as previous polreps.

CASE PENDS X CASE CLOSED ____ SUBMITTED BY Fred Rubel

George Zachos OSC, Emergency Response Branch

(TAT)

336 025

Area Code 914-342-5801

GENERAL SWITCH CORPORATION
20 Industrial Place • P.O. Box 640 • Middletown, New York 10940

January 30, 1984

U.S. Environmental Protection Agency, Region II
Air and Waste Management Division
26 Federal Plaza
New York, NY 10278

Att: Mr. Ernest A. Regna
Chief, Solid Waste Branch

Dear Mr. Regna,

In reply to the violations stemming from your November 9, 1983 inspection, as stated in your letter, the violations have been corrected. Waste material was labeled and dated in compliance with regulations, and shipped to Baron Blakeslee on November 29, 1983. (See attached copies of manifest # NY285939-9). Since the November 29 shipment, no other waste material has been accumulated. Our EPA ID# is NYD045845518.

Sincerely,

John Braghirol

GENERAL SWITCH CORP.
John Braghirol
Plant Manager

SRM/m
Encl.

CC: Richard A. Baker
Chief, Permits Administration Branch

Richard Gardineer
Regional Solid Waste Engineer, Region 3

14-1 (4/81)

See cover sheet for instructions

PLEASE TYPE

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

HAZARDOUS WASTE MANIFEST

DOCUMENT NO. NY 285939 9

art A:

GENERATOR NAME: General Switch Corp.	PHONE: (914) 342-5801	EPA ID NO.: NJD045845518
SITE ADDRESS: 20 Industrial Place Middletown, NY		10940
TRANSPORTER NO. 1: Baron Blakeslee	PHONE: (200) 687-7383	NJDO48810279
SITE ADDRESS: 49 Central Ave. South Kearny, NJ		07032
TRANSPORTER NO. 2	PHONE:	
SITE ADDRESS		
TREATMENT, STORAGE OR DISPOSAL (TSD) FACILITY: Baron Blakeslee	PHONE: (201) 687-7383	NJDO48810279
SITE ADDRESS: 49 Central Ave. South Kearny, NJ		07032

THIS FORM IS NO._____ OF A TOTAL OF_____. THE FIRST MANIFEST DOCUMENT NO. IS NY

	PROPER US DOT SHIPPING NAME	US DOT HAZARD CLASS	UN/NA NUMBER	FORM	NET QUANTITY	UNITS	CONTAINERS NO.	CONTAINERS TYPE	EPA HAZ CODE	EPA WASTE TYPE
1	WASTE TETRACHLOROETHYLENE MIXTURE	ORM-A	1897	1	1045	1	1D	01	T	F001
3										
4										
5										
6										

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION (i.e. IDENTIFICATION OF ADDITIONAL WASTES INCLUDED IN SHIPMENT OF A NONHAZARDOUS NATURE WHICH DO NOT HAVE TO BE MANIFESTED)

GENERATOR'S CERTIFICATION. This is to certify that the herein named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the EPA. The wastes described herein were consigned to the transporter named. The TSD Facility can and will accept the shipment of hazardous waste, and has a valid permit to do so. This shipment also conforms with all applicable State regulations. I certify that the foregoing is true and correct.

GENERATOR'S SIGNATURE: John Braghirol Please type name also John Braghirol, Plant Manager	DATE SHIPPED: 11 29 83 (Mo. Day Yr.)	EXPECTED ARRIVAL DATE: 11 21 83 (Mo. Day Yr.)
TRANSPORTER NO. 1 SIGNATURE "To the best of my knowledge the contents of the shipment I have accepted for transport conforms with the description on this manifest."	TRANSPORTER NO. 1 PERMIT NUMBER: 14-1-H0111	DATE RECEIVED: 11 27 83 (Mo. Day Yr.)

COPY 3 Generator—Retained by Generator

Tear at this Perforation

To Be TYPED by Generator

Baron-Blakeslee • Inc.

a subsidiary of Purex Industries, Inc.

AN EQUAL OPPORTUNITY EMPLOYER

BILLED TO

SHIPPED TO

PACKING SLIP

SHIPPER'S ADDRESS:
49 CENTRAL AVENUE
SOUTH KEARNY, N. J. 07032

ALL MERCHANDISE SHIPPED IN GOOD ORDER. CLERICAL ERRORS SUBJECT TO CORRECTIONS. CLAIMS FOR BREAKAGE SHOULD BE MADE IMMEDIATELY WITH TRANSPORTATION COMPANY.

OFFICE ADDRESS:
178 KEEN STREET
PATERSON, NEW JERSEY 07524

CUSTOMER ORDER NO.	SHIPPED VIA

REG. NO.	TERR.	SALESMAN	WHSE	CUST. CODE	S.P.O. NO.	INVOICE DATE	INVOICE NO.	F.O.B.	TERMS

QTY. SHIPPED	HM	DESCRIPTION	PROD. CODE	TOTAL UNITS SHIPPED

914-342-5801

RECEIVED BY:
Pick-up

DRIVER:

CONTAINER DEPOSITS

CONTAINERS RETURNED:

NO RETURNED GOODS ACCEPTED WITHOUT PRIOR AUTHORIZATION FROM BARON BLAKESLEE. SEE ADDITIONAL TERMS AND CONDITIONS ON REVERSE SIDE.

WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTIONS 6, 7 AND 12 OF THE FAIR LABOR STANDARDS ACT, AS AMENDED AND REGULATIONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UNDER SECTION 14 THEREOF.

THIS IS TO CERTIFY THAT THE ABOVE NAMED ARTICLES ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

PRODUCTS IDENTIFIED AS AS STABELENE OR VATRON ARE OR CONTAIN RE-REFINED SOLVENT.

Transporter—FILL OUT

Part B. GEN NAME General Switch Corp. GEN EPA ID# NY D045848513

TRANSPORTER NO. 1 SIGNATURE "I certify that I have not tampered with or materially altered the contents of this shipment." DATE DELIVERED 11 29 83 (Mo. Day Yr.)

TRANSPORTER NO. 2 SIGNATURE "To the best of my knowledge the contents of the shipment I have accepted for transport conforms with the description on this manifest." TRANSPORTER NO.2 PERMIT NUMBER DATE RECEIVED (Mo. Day Yr.)

TRANSPORTER NO. 2 SIGNATURE "I certify that I have not tampered with or materially altered the contents of this shipment." DATE DELIVERED (Mo. Day Yr.)

TSD Facility—FILL OUT

TSD NAME BARUN - BLAKESLEE, INC. TSD EPA ID # NJD048811717

HANDLING METHOD: 1 T 5 4 2 | 3 4 | 5 6

TREATMENT STORAGE OR DISPOSAL FACILITY INDICATION OF ANY DIFFERENCES BETWEEN MANIFEST AND SHIPMENT OR LISTING OF REASONS FOR AND DISPOSITION OF REJECTED MATERIALS

This waste is accepted subject to the completion of necessary analysis.

TREATMENT STORAGE OR DISPOSAL FACILITY SIGNATURE "Upon visual inspection, I certify that the contents of this shipment conform with the description on the manifest except those discrepancies noted on this form." SIGNATURE Robert E. Dittmar Please print or type name also ROBERT E. DITTMAR DATE RECEIVED 11 29 83 (Mo. Day Yr.)

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the N.Y. Department of Transportation (518) 457-7362. DOCUMENT NO. NY 285939 9

COPY 3 Generator—Mailed by TSD Facility

298

NEW YORK STATE DEPARTMENT OF HEALTH
CENTER FOR LABORATORIES AND RESEARCH

PAGE 1 RESULTS OF EXAMINATION FINAL REPORT

SAMPLE ID: 34412 SAMPLE RECEIVED:83/10/20/16
PROGRAM: 513:SPECIAL SAMPLES FOR DEC REGION 3
SOURCE ID: DRAINAGE BASIN:13 GAZETTEER CODE:3566
POLITICAL SUBDIVISION:WALLKILL COUNTY:ORANGE
LATITUDE: . LONGITUDE: . Z DIRECTION:
LOCATION: GENERAL SWITCH CORP.
DESCRIPTION:SOIL TAKEN FROM DOCK AREA
REPORTING LAB: TOX:LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: HOLD:NON-ROUTINE TEST PATTERN
SAMPLE TYPE: 600:SOIL,SAND
TIME OF SAMPLING: 83/10/18 15:05 DATE PRINTED:84/01/20

RECEIVED
JAN 25 1984
NYSDEC
WHITE PLAINS

	PARAMETER	RESULT	
T62003	CHLOROMETHANE		ND
T61803	BROMOMETHANE		ND
T70203	DICHLORODIFLUOROMETHANE		ND
T41003	VINYL CHLORIDE		ND
T61903	CHLOROETHANE		ND
T61703	TRICHLOROFLUOROMETHANE		ND
T23803	DICHLOROMETHANE		ND
T50903	1,1-DICHLOROETHENE		ND
T51903	1,1-DICHLOROETHANE		ND
T61203	TRANS-1,2-DICHLOROETHENE		ND
T39003	CHLOROFORM	< 0.01 MCG/G	
T50803	1,2-DICHLOROETHANE	< 0.01 MCG/G	
T23603	1,1,1-TRICHLOROETHANE	< 0.01 MCG/G	
T36603	CARBON TETRACHLORIDE	< 0.01 MCG/G	
T38903	BROMODICHLOROMETHANE	< 0.01 MCG/G	
T61303	1,2-DICHLOROPROPANE		ND
T61503	TRANS-1,3-DICHLOROPROPENE		ND
T41103	TRICHLOROETHENE	< 0.01 MCG/G	
T44903	DIBROMOCHLOROMETHANE	< 0.01 MCG/G	
T61403	CIS-1,3-DICHLOROPROPENE	< 0.01 MCG/G	
T51703	1,1,2-TRICHLOROETHANE	< 0.01 MCG/G	
T61103	2-CHLOROETHYLVINYL ETHER	< 0.01 MCG/G	
T42103	BROMOFORM	< 0.01 MCG/G	
T51803	1,1,2,2-TETRACHLOROETHANE	< 0.01 MCG/G	
T41203	TETRACHLOROETHENE	450. MCG/G	
T40903	CHLOROBENZENE		ND
T49703	1,3-DICHLOROBENZENE		ND
T44103	1,2-DICHLOROBENZENE		ND
T44203	1,4-DICHLOROBENZENE		ND

**** END OF REPORT ****

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N.Y.S.DEPT.OF ENVIRONMENTAL CONSERVATION
REGION 3
202 MAMARONECK AVE.
WHITE PLAINS,N.Y. 10602

SUBMITTED BY:DEANGELIS

299

NEW YOR[illegible]TE DEPARTMENT OF HEALTH
CENTER FOR LABORATORIES AND RESEARCH

PAGE 1 RESULTS OF EXAMINATION FINAL REPORT

SAMPLE ID: 34412 SAMPLE RECEIVED:83/10/20/16
PROGRAM: 513:SPECIAL SAMPLES FOR DEC REGION 3
SOURCE ID: DRAINAGE BASIN:13 GAZETTEER CODE:3566
POLITICAL SUBDIVISION:WALLKILL COUNTY:ORANGE
LATITUDE: . LONGITUDE: . Z DIRECTION:
LOCATION: GENERAL SWITCH CORP.
DESCRIPTION:SOIL TAKEN FROM DOCK AREA
REPORTING LAB: TOX:LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: HOLD:NON-ROUTINE TEST PATTERN
SAMPLE TYPE: 600:SOIL,SAND
TIME OF SAMPLING: 83/10/18 15:05 DATE PRINTED:84/01/20

	PARAMETER	RESULT	
T62003	CHLOROMETHANE		ND
T61803	BROMOMETHANE		ND
T70203	DICHLORODIFLUOROMETHANE		ND
T41003	VINYL CHLORIDE		ND
T61903	CHLOROETHANE		ND
T61703	TRICHLOROFLUOROMETHANE		ND
T23803	DICHLOROMETHANE		ND
T50903	1,1-DICHLOROETHENE		ND
T51903	1,1-DICHLOROETHANE		ND
T61203	TRANS-1,2-DICHLOROETHENE		ND
T39003	CHLOROFORM	< 0.01 MCG/G	
T50803	1,2-DICHLOROETHANE	< 0.01 MCG/G	
T23603	1,1,1-TRICHLOROETHANE	< 0.01 MCG/G	
T36603	CARBON TETRACHLORIDE	< 0.01 MCG/G	
T38903	BROMODICHLOROMETHANE	< 0.01 MCG/G	
T61303	1,2-DICHLOROPROPANE		ND
T61503	TRANS-1,3-DICHLOROPROPENE		ND
T41103	TRICHLOROETHENE	< 0.01 MCG/G	
T44903	DIBROMOCHLOROMETHANE	< 0.01 MCG/G	
T61403	CIS-1,3-DICHLOROPROPENE	< 0.01 MCG/G	
T51703	1,1,2-TRICHLOROETHANE	< 0.01 MCG/G	
T61103	2-CHLOROETHYLVINYL ETHER	< 0.01 MCG/G	
T42103	BROMOFORM	< 0.01 MCG/G	
T51803	1,1,2,2-TETRACHLOROETHANE	< 0.01 MCG/G	
T41203	TETRACHLOROETHENE	450. MCG/G	
T40903	CHLOROBENZENE		ND
T49703	1,3-DICHLOROBENZENE		ND
T44103	1,2-DICHLOROBENZENE		ND
T44203	1,4-DICHLOROBENZENE		ND

**** END OF REPORT ****

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N.Y.S.DEPT.OF ENVIRONMENTAL CONSERVATION
REGION 3
202 MAMARONECK AVE.
WHITE PLAINS,N.Y. 10602

SUBMITTED BY:DEANGELIS

300

NEW YORK STATE DEPARTMENT OF HEALTH
CENTER FOR LABORATORIES AND RESEARCH

PAGE 1 RESULTS OF EXAMINATION FINAL REPORT

SAMPLE ID: 34413 SAMPLE RECEIVED:83/10/20/16
PROGRAM: 513:SPECIAL SAMPLES FOR DEC REGION 3
SOURCE ID: DRAINAGE BASIN:13 GAZETTEER CODE:3566
POLITICAL SUBDIVISION:WALLKILL COUNTY:ORANGE
LATITUDE: . LONGITUDE: . Z DIRECTION:
LOCATION: GENERAL SWITCH CORP.
DESCRIPTION:SOIL TAKEN FROM REAR OF BLDG
REPORTING LAB: TOX:LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: HOLD:NON-ROUTINE TEST PATTERN
SAMPLE TYPE: 600:SOIL,SAND
TIME OF SAMPLING: 83/10/18 15:20 DATE PRINTED:84/01/20

	PARAMETER	RESULT	
T62003	CHLOROMETHANE		ND
T61803	BROMOMETHANE		ND
T70203	DICHLORODIFLUOROMETHANE		ND
T41003	VINYL CHLORIDE		ND
T61903	CHLOROETHANE		ND
T61703	TRICHLOROFLUOROMETHANE		ND
T23803	DICHLOROMETHANE		ND
T50903	1,1-DICHLOROETHENE		ND
T51903	1,1-DICHLOROETHANE		ND
T61203	TRANS-1,2-DICHLOROETHENE		ND
T39003	CHLOROFORM	< 0.01	MCG/G
T50803	1,2-DICHLOROETHANE	< 0.01	MCG/G
T23603	1,1,1-TRICHLOROETHANE	< 0.01	MCG/G
T36603	CARBON TETRACHLORIDE	< 0.01	MCG/G
T38903	BROMODICHLOROMETHANE	< 0.01	MCG/G
T61303	1,2-DICHLOROPROPANE		ND
T61503	TRANS-1,3-DICHLOROPROPENE		ND
T41103	TRICHLOROETHENE	< 0.01	MCG/G
T44903	DIBROMOCHLOROMETHANE	< 0.01	MCG/G
T61403	CIS-1,3-DICHLOROPROPENE	< 0.01	MCG/G
T51703	1,1,2-TRICHLOROETHANE	< 0.01	MCG/G
T61103	2-CHLOROETHYLVINYL ETHER	< 0.01	MCG/G
T42103	BROMOFORM	< 0.01	MCG/G
T51803	1,1,2,2-TETRACHLOROETHANE	< 0.01	MCG/G
T41203	TETRACHLOROETHENE	1.2	MCG/G
T40903	CHLOROBENZENE		ND
T49703	1,3-DICHLOROBENZENE		ND
T44103	1,2-DICHLOROBENZENE		ND
T44203	1,4-DICHLOROBENZENE		ND

**** END OF REPORT ****

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N.Y.S.DEPT.OF ENVIRONMENTAL CONSERVATION
REGION 3
202 MAMARONECK AVE.
WHITE PLAINS,N.Y. 10602

SUBMITTED BY:DEANGELIS

RESULTS OF EXAMINATION FINAL REPORT

SAMPLE ID: 34413 SAMPLE RECEIVED:83/10/20/16
PROGRAM: 513:SPECIAL SAMPLES FOR DEC REGION 3
SOURCE ID: DRAINAGE BASIN:13 GAZETTEER CODE:3566
POLITICAL SUBDIVISION:WALLKILL COUNTY:ORANGE
LATITUDE: . LONGITUDE: . Z DIRECTION:
LOCATION: GENERAL SWITCH CORP.
DESCRIPTION:SOIL TAKEN FROM REAR OF BLDG
REPORTING LAB: TOX:LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: HOLD:NON-ROUTINE TEST PATTERN
SAMPLE TYPE: 600:SOIL,SAND
TIME OF SAMPLING: 83/10/18 15:20 DATE PRINTED:84/01/20

	PARAMETER	RESULT
T62003	CHLOROMETHANE	ND
T61803	BROMOMETHANE	ND
T70203	DICHLORODIFLUOROMETHANE	ND
T41003	VINYL CHLORIDE	ND
T61903	CHLOROETHANE	ND
T61703	TRICHLOROFLUOROMETHANE	ND
T23803	DICHLOROMETHANE	ND
T50903	1,1-DICHLOROETHENE	ND
T51903	1,1-DICHLOROETHANE	ND
T61203	TRANS-1,2-DICHLOROETHENE	ND
T39003	CHLOROFORM	< 0.01 MCG/G
T50803	1,2-DICHLOROETHANE	< 0.01 MCG/G
T23603	1,1,1-TRICHLOROETHANE	< 0.01 MCG/G
T36603	CARBON TETRACHLORIDE	< 0.01 MCG/G
T38903	BROMODICHLOROMETHANE	< 0.01 MCG/G
T61303	1,2-DICHLOROPROPANE	ND
T61503	TRANS-1,3-DICHLOROPROPENE	ND
T41103	TRICHLOROETHENE	< 0.01 MCG/G
T44903	DIBROMOCHLOROMETHANE	< 0.01 MCG/G
T61403	CIS-1,3-DICHLOROPROPENE	< 0.01 MCG/G
T51703	1,1,2-TRICHLOROETHANE	< 0.01 MCG/G
T61103	2-CHLOROETHYLVINYL ETHER	< 0.01 MCG/G
T42103	BROMOFORM	< 0.01 MCG/G
T51803	1,1,2,2-TETRACHLOROETHANE	< 0.01 MCG/G
T41203	TETRACHLOROETHENE	1.2 MCG/G
T40903	CHLOROBENZENE	ND
T49703	1,3-DICHLOROBENZENE	ND
T44103	1,2-DICHLOROBENZENE	ND
T44203	1,4-DICHLOROBENZENE	ND

**** END OF REPORT ****

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REGION 3
202 MAMARONECK AVE.
WHITE PLAINS,N.Y. 10602

SUBMITTED BY:DEANGELIS

ROUTING AND TRANSMITTAL SLIP Date: Jan. 20, 1984

TO: (Name, office symbol, room number, building, Agency/Post)	Initials	Date
1. Al Klauss		
2.		
3.		
4.		
5.		

RECEIVED
JAN 25 1984
N.Y.S. D.E.C.
NEW PALTZ

	Action		File		Note and Return
	Approval		For Clearance		Per Conversation
	As Requested		For Correction		Prepare Reply
	Circulate		For Your Information		See Me
	Comment		Investigate		Signature
	Coordination		Justify		

REMARKS

Attached are the sampling results for the 28 water samples that were collected on January 5 and 6, 1984.

If you have any questions, please call me.

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)	Room No.—Bldg.
G.H. Zachos, USEPA	209
	Phone No. (201) 321-6647

5041-102

OPTIONAL FORM 41 (Rev. 7-76)
Prescribed by GSA
FPMR (41 CFR) 101-11.206

☆ GPO : 1981 O - 361-529 (148)

peed Message 44-900 GrayLine SNAP-A-WAY FORM

Speed Message

RECEIVED
JAN 30 1984
NYSDEC
WHITE PLAINS

To Peter Doshna

From Bernard Lohmann

Subject: Sampling T. Wallkill Orange Co

Date 1/16 84

On 1/16/84 I sampled the following locations and gave the samples to EPA Lab
Wall Kill River at Midway Rd (Down From T. Wallkill STP)
1st Manhole From Hertzberg Brush
Parella Well
Monhagen brook at Wisner Ave
Middletown STP Raw
Middletown STP final - Split with Dec Lab
Monhagen brook 100' upstream from Middletown
Monhagen brook 100' Down Stream From Middletown
Wall Kill River at Rt 17M

Signed

Speed Message 44-900

GrayLine SNAP-A-WAY® FORM

Speed Message

To Peter Doshna

From Bernard Kohn

Subject Sampling T. Wall Kill Orange Co

Date 11/17/84 19

On 11/17/84 I Sampled the following location and gave the Samples to DEC Lab.

T. Wall Kill STP RAW

T. Wall Kill STP Final

Midway Rd (Wall Kill River)

Wall Kill River up stream of T. Wall Kill STP

Wall Kill River at CORL 53

Middletown STP RAW

Middletown STP Final

20' upstream From Middletown STP

100' Down Stream From Middletown STP

7m Wall Kill River

Signed

WilsonJones

GRAYLINE FORM 44-900 2 PART

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581

Speed Message 44-911 GrayLine SNAP-A-WAY FORM

Speed Message

RECEIVED JAN 30 1984 NYSDEC WHITE PLAINS

To: Peter Doshna

From: Bernard Lohner

Subject: Sampling City of Middletown collection system

Date: 1/18 1984

I sampled the City of Middletown collection system on 1/18/84. At the time I was with Bill Johnson. We put Dye in the collection system to trace the flow sample to Dec lab

Manhole by 90° turn on Industrial Pl.
" Orange Corrugated Box
" at intersection of Wisner and Cottage St
" Sprague and Houston St. (Lateral)
" Spring and Sterling St. (Lateral)
" Little Ave (main trunk line)
" Stanton and Genung St
" Agway Fertilizer (main trunk)

Influent to STP (Ghilag) effluent STP. upstream and Down on Monhagen Brook

Signed

182

WilsonJones
GRAYLINE FORM 44-911 3 PART
PRINTED IN U.S.A.

Speed Message 44-911 GrayLine SNAP-A-WAY® FORM

Speed Message

RECEIVED
JAN 30 1984
NYSDEC
WHITE PLAINS

To Peter Doshna

From Bernard Coh

Subject

Date 1/19 1984

On 1/19/84 I sampled the following locations and gave the samples to the DEC lab

T. Wallkill Raw — Montgomery Parkwood / Highland Ave

T. Wallkill final

Midway Rd Bridge over Wall Kill River

Wallkill River upstream from T Wallkill STP

Wall Kill River at CoRD 53 Bridge

Middletown STP Raw

Middletown STP final

Monhagen brook 20' ft upstream

Monhagen brook 100' ft Down stream

Wall Kill River at D.M.

Signed

182

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
L. Lobb	–	10/14/83	OCHD	Envirotest	–	–	1,800
(327 Highland Ave.)	–	10/17/83	NYSDEC	NYSDEC	–	–	2,500
	68802	11/08/83	USEPA	ERT	ERT	11/11/83	1,600
	68512	11/22/83	↓	ERT	ERT	12/2/83	720
	69107	11/26/83		ERT	ERT	12/6/83	410
	69109	11/27/83		ERT	ERT	12/2/83	880
	69112	11/28/83	USEPA	Clayton	ERT	12/2/83	1,700

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
D. Osborne	–	11/7/83	OCHD	Envirotest	–	–	900
	68814	11/8/83	USEPA	ERT	ERT	11/11/83	2,400

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Finlay (244 Commonwealth Ave.)	68982	12/20/83	USEPA	Envirotest		12/28/83	<1
Davis (182 Commonwealth Ave)	69195	12/20/83	USEPA	Envirotest		12/28/83	<1
Steele (200 Commonwealth Ave.)	69200	12/19/83	USEPA	Envirotest		12/28/83	<1

NOTES: [1] Values in ppb of tetrachloroethylene unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	I/QC Analysis	Date of Results	Results (ppb) [1]
BLANK (in between runs)	Lab blank		USEPA	Envirotest		12/28/83	<1
Varsa (220 Commonwealth Ave.)	68979	12/20/83	USEPA	Envirotest		12/28/83	<1
Morris (224 Commonwealth Ave.)	68980	12/20/83	USEPA	Envirotest		12/28/83	<1
Reynolds (226 Commonwealth Ave.)	68981	12/22/83	USEPA	Envirotest		12/28/83	<1

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Norbury (211 Commonwealth Ave.)	69190	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Davis (182 Commonwealth Ave.)	69175	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Reynolds (196 Commonwealth Ave.)	68977	12/19/83	USEPA	Envirotest	TAT	12/28/83	<1
SPIKE (Ranalb, 600 Highland Ave)* * Fictitious address	68978	12/20/83	USEPA	Envirotest		12/28/83	92, 93

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
De Mouth (188 Commonwealth Ave.)	69174	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Clauson (177 Commonwealth Ave.)	69187	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Palerno (183 Commonwealth Ave.)	69188	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
BrincKerhoff (197 Commonwealth Ave.)	69189	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Van Pelt (31 Electric Ave.)	69170	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Dickerson (173 Commonwealth Ave)	69171	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Reagan (176 Commonwealth Ave.)	69172	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Hite (192 Commonwealth Ave.)	69173	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Carey (213 Commonwealth Ave.)	69196	12/14/83	USEPA	Envirotest	TAT	12/21/83	<1
Muller (221 Commonwealth Ave.)	69197	12/14/83	USEPA	Envirotest	TAT	12/21/83	<1
Ruppert (229 Commonwealth Ave.)	69198	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Brock (231 Commonwealth Ave.)	69199	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	QC Analysis	Date of Results	Results (ppb) [1]
Lopez (174 Commonwealth Ave.)	69191	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Johnson (208 Commonwealth Ave.)	69192	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Berry (210 Commonwealth Ave.)	69193	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Mader (214 Commonwealth Ave.)	69194	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Wand (239 Watkins Ave.)		11/29/83	USEPA				2
		12/9/83	USEPA				ND
Saxton (251 Watkins Ave.)		11/29/83	USEPA				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	A/QC Analysis	Date of Results	Results (ppb) [1]
Radivoy (229 Watkins Ave.)		11/28/83	USEPA				6
		12/09/83	USEPA				ND
Campbell (231 Watkins Ave.)							
Jehova's Witness Church (233 Watkins Ave.)							
Cosmo Optics (238 Watkins Ave.)		11/29/83	USEPA				New Well : Old Well :
		11/7/83	OCHD	Envirotest			ND
		12/9/83					New Well : Old Well :

NOTES : [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Winner		11/22/83	USEPA				ND
(186 Watkins Ave.)		11/29/83	USEPA				ND
Oatman/Rassmussen		11/29/83	USEPA				12
(187 Watkins Ave.)		12/09/83	USEPA				ND
Morse		11/29/83	USEPA				4
(190 Watkins Ave.)		12/9/83	USEPA				ND
Prior King Press		10/17/83	NYSDEC				ND
(228-230 Watkins Ave)		11/29/83	USEPA				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Hammarquist (164 Watkins Ave.)		11/29/83	USEPA				ND
Wegenroth (168 Watkins Ave.)		11/29/83	USEPA				ND
Schmick (174 Watkins Ave.)							
Holmes (175 Watkins Ave.)		11/29/83	USEPA				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Electra Manufacturing (328-332 Highland Ave.)							
Continental Telephone (306-314 Highland Ave.)							

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Lent (363 Highland Ave.)		11/28/83	USEPA				ND
Kuhl (408 Highland Ave.)		11/22/83	USEPA				ND
Kuhl (400 Highland Ave.) (Business)		11/22/83	USEPA				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	A/QC Analysis	Date of Results	Results (ppb) [1]
Ernest (353 Highland Ave.)		11/22/83	USEPA				ND
Schmall (357 Highland Ave.)		11/22/83	USEPA				ND
Noyes (361 Highland Ave.)		11/22/83	USEPA				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Eckerson (299 Highland Ave.)		11/28/83	USEPA				ND
Stout (Lot No. 4 Highland Ave.)		11/15/83	USEPA				ND
Gady (337 Highland Ave.)		12/1/83	OCHD	Envirotest			<1

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Smith (291 Highland Ave.)		11/28/83 11/7/83	USEPA OCHD	Envirotest			ND <1
Petrizzo (292 Highland Ave.)		11/22/83	USEPA				ND
Nixdorf (293 Highland Ave.)		11/29/83	NYSDEC				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSES

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Duco (287 Highland Ave.) extension (43 Park Ave.)		11/23/83	USEPA				ND
Estrada (286 Highland Ave.)		11/28/83	USEPA				ND
Tesseler (287 Highland Ave.)		11/28/83	USEPA				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
O. Knapp	68807	11/23/83	USEPA	ERT	ERT	11/11/83	ND
(317 Highland Ave.)		11/23/83	USEPA				ND
W. Roselli		10/14/83	OCHD	Envirotest			<1
(334 Highland Ave.)		11/7/83	OCHD	Envirotest			<1
	68812	11/8/83	USEPA	ERT	ERT	11/11/83	ND
Pucluch		11/23/83	NYSDEC				ND
(277 Highland Ave.)							
City Water							

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Result (ppb) [1]
K. Perry		11/22/83	USEPA				ND
(339 Highland Ave.)	68810	11/08/83	USEPA	ERT	ERT	11/11/83	ND
J. Seely		10/14/83	OCHD	Envirotest			ND
(321 Highland Ave.)		11/23/83	USEPA				ND
	68804	11/08/83	USEPA	ERT	ERT	11/11/83	ND
G. Ogden	68806	11/08/83	USEPA	ERT	ERT	11/11/83	ND
		11/23/83	USEPA				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
LisKa (304 Highland Ave.)		10/14/83	OCHD	Envirotest			<1
		11/30/83	OCHD	Envirotest			<1
		12/1/83	OCHD	Envirotest			<1
O. Gady (231 Highland Ave.)	68809	11/08/83	USEPA	ERT	ERT	11/11/83	ND
		11/30/83	OCHD	Envirotest			<1
C. Courteau (341 Highland Ave.)	68811	11/08/83	USEPA	ERT	ERT	11/11/83	ND
		11/22/83	USEPA				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Pitt (355 Highland Ave.)		11/28/83	USEPA				165
		12/9/83	OCHD	Envirotest			<1
G. Fiore (325 Highland Ave.)	68801	10/14/83	OCHD	Envirotest	ERT	11/11/83	<1
		11/08/83	USEPA	ERT			ND
		11/23/83	USEPA				
		11/30/83	OCHD	Envirotest			<1
		12/01/83	OCHD	Envirotest			<1
J. Gilbert (323 Highland Ave.)	68540	11/29/83	USEPA	Clayton			NG
		11/30/83	OCHD	Envirotest			<1
		12/01/83	OCHD	Envirotest			<1
		11/7/83	OCHD	Envirotest			<1
	68803	11/8/83	USEPA	ERT	ERT	11/11/83	ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Robaina (297 Highland Ave.)		11/28/83	USEPA				29
		12/9/83					37
Rupert (307 Highland Ave.)		11/25/83	USEPA				7,000
Barry (309 Highland Ave.)		11/23/83	USEPA				100
		12/09/83	OCHD	Envirotest			730

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
J. Crooks (335 Highland Ave.)	68808	11/08/83	USEPA	ERT	ERT	11/11/83	ND
		11/23/83	USEPA				28
		11/7/83	OCHD	Envirotest			<1
		12/9/83	USEPA				ND
R. Perez (338 Highland Ave.)	68813	11/08/83	USEPA	ERT	ERT	11/11/83	ND
		10/17/83	NYSDEC				7
		11/28/83	USEPA				2
Janiak (295 Highland Ave.)		10/17/83	NYSDEC				13 [2]
		11/28/83	USEPA				17
		12/9/83	USEPA				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSES

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
General Switch (Industrial Place)		10/17/83	NYSDEC				1,100 480 240

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

[2] Trichloroethylene

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
J. Stout	68805	11/08/83	USEPA	ERT	ERT	11/11/83	3,800
	63941	11/15/83	USEPA	ERT	ERT		ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233 -0001

Henry G. Williams
Commissioner

January 11, 1984

Fred N. Rubel, Chief
USEPA - Region II
Emergency Response Branch
Edison, NJ 08837

Dear Mr. Rubel:

Enclosed please find an evaluation of the Ground Penetrating Radar (GPR) techniques for the Wallkill study area. We estimate that such a subsurface examination could be conducted for approximately $5,000.00. Firm estimates could be developed between EPA and geophysical contractors who use this technique. A short list of these potential contractors is shown below.

ENSCO, Inc	(703) 321-7585
Metcalf and Eddy	(617) 367-4000
Battelle	(509) 946-2271

Sincerely,

Frederick E. VanAlstyne

Frederick VanAlstyne, Chief
Hydrological Services Section
Bureau of Monitoring and Assessment

Enclosure

cc: Al Klaus, DEC
New Paltz, Reg. 3

Ground penetrating radar (GPR) can detect the presence and depth of subsurface features using radar waves transmitted from a small antenna moved across the ground surface. This results in a continuous cross-sectional profile of shallow subsurface conditions. The time it takes for the pulse to travel down and back gives an indication of the depth of objects. Lateral surveying gives an indication of the spatial extent of objects. Responses are caused by radar wave reflections from interfaces of materials having different electrical properties. Reflectors can be objects such as drums and geologic formations and structures.

A variety of transmitting frequencies can be used (80 to 900 MH_z) with the appropriate frequency chosen according to soil conditions, desired penetration depth and resolution. The maximum penetration depth attainable depends on soil conditions and frequency used but it can range up to about 5 meters. A major limitation of GPR is that its penetration and overall performance is highly site specific. Depth penetration generally decreases with increasing silt/clay content.

Experiments have shown that when GPR techniques are used in a saturated fine grained soil the results are poor. A soil such as this can attenuate the signal before any significant penetration occurs. In addition, background conditions at any site may submerge the signal in noise. At the other end of the spectrum, however, GPR has been proven highly successful in locating buried objects in dry, sandy soils.

GPR can be used to evaluate natural soil and rock conditions and to detect buried wastes. Interfaces between dump sites and the surrounding areas show up

well because the reflection patterns change significantly going from undisturbed to disturbed ground. GPR is the preferred technique in finding a depth to a reflecting object.

The soil of the Wallkill study area is a gravelly till with boulders. It ranges in thickness from 0 to 25 feet and is underlain by shale bedrock which outcrops in one instance. It is difficult to determine if fill is present. A portion of the area is in an old railroad yard and cinders are present on the surface.

Of biggest concern in this area is the water table. If drums are buried above the water table, then GPR should give good results in this area. Any objects located in the water table may not be discernable through GPR.

An open, hand dug well exists which at the time of observation (mid-December) contained water which appeared to be 3 feet below the surface. As this was just after some heavy rainfall, the water table in the till was elevated and should be lower now, possibly about 5 feet. Since the drums, if present, are expected to be 3 to 6 feet below the surface, it is possible that a large percentage of them would be detected with GPR techniques.

Klauss

U.S. ENVIRONMENTAL PROTECTION AGENCY

POLLUTION REPORT

DATE: January 6, 1984

Region II
Emergency Response Branch
Edison, NJ 08837

(201) 321-6670 - Commercial
(201) 548-8730 - 24 Hour Emergency
340-6670 - FTS

TO: J. Schafer, EPA
R. Dewling, EPA
W. Librizzi, EPA
F. Rubel, EPA
J. Marshall, EPA
W. Mugdan, EPA
S. Dorrler, EPA
M. Chivinski, FEMA
N. Nosenchuck, NYSDEC
ERD, EPA Washington
P. Keller, NYSDEC
Andersen, HHS
R. Johnson, OCDOH
D. Cosgrove, Town of Wallkill
Hutchings, City of Middletown

POLREP NO.: Six (6)
INCIDENT NAME: Wallkill, N.Y.
SITE/SPILL NO: A7
POLLUTANT: Tetrachloroethylene
CLASSIFICATION: Medium
SOURCE: Unknown
LOCATION: Wallkill, N.Y.
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION:

A. As of January 6, 1984, 33,400 gallons of groundwater contaminated with tetrachloroethylene has been removed from the shale aquifer servicing residential and industrial wells in the Washington Heights section of Wallkill, NY. The water contained an estimated total 1.5 gallons of pure tetrachloroethylene.

B. Based on pumping tests to date conducted on the Parella Well, being used as an extraction well, pumping the Parella Well has a significant effect upon the surrounding wells with drawdown of the water table of up to 23 ft.

C. The transportation by tank truck of waste pumped from the Parella Well and disposed of into the Wallkill Sewage Treatment Plant has temporarily ceased as of December 26, 1983. Freezing conditions have continued to interrupt the recovery operation as it is presently been undertaken.

D. On December 30, and 31, 1983, the temporary water line to the Ruppert residence on 307 Highland Avenue was frozen due to cold ambient temperatures, Town of Wallkill personnel thawed the line on both occasions. This situation may continue due to inclement weather.

E. Contract with the Town of Wallkill was modified on January 3, 1984 to provide emergency temporary water supply lines to homes designated by the OSC and to provide necessary personnel to assist in determining the extent of contamination.

F. On January 5 and 6, 1984, 44 samples of 28 homes (some time/concentrations samples) were collected by joint NYSDEC/U.S. EPA to determine the extent of contamination.

2. ACTION TAKEN:

A. An interim report assessing the effectiveness of pumping the Parella Well has been produced.

B. A Briefing Document is being prepared to accompany a second application to Middletown Council to allow disposal of contaminated water from the affected wells.

C. Thirty-nine (39) residences on Commonwealth Avenue have been sampled. To date wells on Industrial Place, Highland, Watkins, and Commonwealth Avenues have been sampled along with samples taken from the Wallkill Sewage Treatment Plant and Wallkill River.

D. A meeting was held on January 4, 1984. A committment was made by NYSDEC to supply 1 photovac and operator for water sample analysis: Set up is scheduled beginning January 9, 1984.

Consenus were raised by the NYS Department of Health representatives that without rapid removal of the contaminant from the groundwater other wells might be threatened.

The NYSDEC investigation into possible sources for the contamination continues without conclusion to date.

NYSDEC undertook to begin a historic review of aerial photographs as part of their investigation.

3. FUTURE PLANS AND RECOMMENDATIONS:

A. Same as previous polreps.

CASE PENDS X CASE CLOSED ____ SUBMITTED BY Paul R Elliot
a/v Robert Cobiella, OSC
Emergency Response
Branch

(TAT)

1/4/84 Meeting

WALLKILL CONTAMINATION

AGENDA

1. Present status regarding sampling results.
   a) EPA
   b) NYS DEC
2. Additional well sampling requirements
   a) EPA
   b) NYS DEC
   c) OCHD
   d) NYS DOH
3. Status of NYS DEC - Involvement in identifying the source of contamination and Plume definition.
4. Need for, and status of, bringing DOH Photo Vac on site.
5. Disposal of contaminated water
   a) Carbon filtration
   b) Middletown STP
   c) Other
6. Status of providing alternate water supply.

SAMPLING ANALYSIS

WALLKILL, N.Y. AS OF 12/29/83

NYSDEC

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Parella	–	10/17/83	NYSDEC	–	–	–	120,000
(320 Highland Ave.)	63940	11/15/83	USEPA	ESD	ESD	11/17/83	260,000
	68501	11/22/83		ERT	ERT	12/2/83	76,000
	68535	11/23/83		Clayton	ERT	12/6/83	1,900
	69105	11/26/83		ERT	ERT	12/6/83	> 37,000
	69114	11/28/83	USEPA	ERT	ERT	12/6/83	160,000
	68548	11/29/83	USEPA	ERT	ERT	12/6/83	126,000
	–	11/29/83	NYSDEC	–	–	–	87,000
	69138	11/30/83	USEPA	Photovac/STP	TAT	12/15/83	96,480
	69124	12/01/83	USEPA	Photovac/STP	TAT	12/15/83	79,766
	69142	12/2/83	USEPA	ERT	ERT	12/8/83	83,000
	69142	12/2/83	USEPA	Photovac/STP	TAT	12/15/83	145,798
	69146	12/3/83	USEPA	Photovac/STP	TAT	12/15/83	140,122
	69152	12/5/83	USEPA	ERT	ERT	12/29/83	95,000
	69150	12/6/83	USEPA	ERT	ERT	12/29/83	73,000
	69157	12/7/83	USEPA	ERT	ERT	12/29/83	70,300
	–	12/7,8/83	NYSDEC	–	–	–	72,000
	69165	12/9/83	USEPA	ERT	ERT	12/29/83	61,400

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
L. Lobb	–	10/14/83	OCHD	Enviratest	–	–	1,800
(327 Highland Ave.)	–	10/17/83	NYSDEC	NYSDEC	–	–	2,500
	68802	11/08/83	USEPA	ERT	ERT	11/11/83	1,600
	68512	11/22/83	↓	ERT	ERT	12/2/83	720
	69107	11/26/83		ERT	ERT	12/6/83	410
	69109	11/27/83		ERT	ERT	12/2/83	880
	69112	11/28/83	USEPA	Clayton	ERT	12/2/83	1,700

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
D. Osborne	–	11/7/83	OCHD	Envirotest	–	–	900
	68814	11/8/83	USEPA	ERT	EAT	11/11/83	2,400

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
J. Stout	68805	11/08/83	USEPA	ERT	ERT	11/11/83	3,800
	63941	11/15/83	USEPA	ERT	ERT		ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
General Switch (Industrial Place)		10/17/83	NYSDEC				1,100 480 240

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

[2] Trichloroethylene

[3] Trans-1,2-dichloroethene

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
J. Crooks (335 Highland Ave.)	68808	11/08/83	USEPA	ERT	ERT	11/11/83	ND
		11/23/83	USEPA				28
		11/7/83	OCHD	Enviotest			<1
		12/9/83	USEPA				ND
R. Perez (338 Highland Ave.)	68813	11/08/83	USEPA	ERT	ERT	11/11/83	ND
		10/17/83	NYSDEC				7
		11/28/83	USEPA				2
Janiak (295 Highland Ave.)		10/17/83	NYSDEC				13 [2]
		11/28/83	USEPA				17
		12/9/83	USEPA				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

[2] Chloroform

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Robaina		11/28/83	USEPA				29
(297 Highland Ave.)		12/9/83					37
Rupert		11/25/83	USEPA				7,000
(307 Highland Ave.)							
Barry		11/23/83	USEPA				100
(309 Highland Ave.)		12/09/83	OCHD	Envirotest			730

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Pitt		11/28/83	USEPA				165
(355 Highland Ave.)		12/9/83	OCHD	Envirotest			<1
G. Fiore	68801	10/14/83	OCHD	Envirotest			<1
		11/08/83	USEPA	ERT	ERT	11/11/83	
(325 Highland Ave.)		11/23/83	USEPA				ND
		11/30/83	OCHD	Envirotest			<1
		12/01/83	OCHD	Envirotest			<1
J. Gilbert	68540	11/29/83	USEPA	Clayton			NG
(323 Highland Ave.)		11/30/83	OCHD	Envirotest			<1
		12/01/83	OCHD	Envirotest			<1
		11/7/83	OCHD	Envirotest			<1
	68803	11/8/83	USEPA	ERT	ERT	11/11/83	ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
LisKa		10/14/83	OCHD	Envirotest			<1
(304 Highland Ave.)		11/30/83	OCHD	Envirotest			<1
		12/1/83	OCHD	Envirotest			<1
O. Gady	68809	11/08/83	USEPA	ERT	ERT	11/11/83	ND
(231 Highland Ave.)		11/30/83	OCHD	Envirotest			<1
C. Courteau	68811	11/08/83	USEPA	ERT	ERT	11/11/83	ND
(341 Highland Ave.)		11/22/83	USEPA				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
K. Perry		11/22/83	USEPA				ND
(339 Highland Ave.)	68810	11/08/83	USEPA	ERT	ERT	11/11/83	ND
J. Seely		10/14/83	OCHD	Envirotest			ND
(321 Highland Ave.)		11/23/83	USEPA				ND
	68804	11/08/83	USEPA	ERT	ERT	11/11/83	ND
G. Ogden	68806	11/08/83	USEPA	ERT	ERT	11/11/83	ND
		11/23/83	USEPA				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
O. Knapp	68807	11/23/83	USEPA	ERT	ERT	11/11/83	ND
(317 Highland Ave.)		11/23/83	USEPA				ND
W. Roselli		10/14/83	OCHD	Envirotest			<1
(334 Highland Ave.)		11/7/83	OCHD	Envirotest			<1
	68812	11/8/83	USEPA	ERT	ERT	11/11/83	ND
Pucluch		11/29/83	NYSDEC				ND
(277 Highland Ave.) City Water							

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Duco (287 Highland Ave.) extension (43 Park Ave.)		11/23/83	USEPA				ND
Estrada (286 Highland Ave.)		11/28/83	USEPA				ND
Tesseler (287 Highland Ave.)		11/28/83	USEPA				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Smith (291 Highland Ave.)		11/28/83 11/7/83	USEPA OCHD	Envirotest			ND <1
Petrizzo (292 Highland Ave.)		11/22/83	USEPA				ND
Nixdorf (293 Highland Ave.)		11/29/83	NYSDEC				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
EcKerson (299 Highland Ave.)		11/28/83	USEPA				ND
Stout (Lot No. 4 Highland Ave.)		11/15/83	USEPA				ND
Gady (337 Highland Ave.)		12/1/83	OCHD	Envirotest			<1

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Ernest (353 Highland Ave.)		11/22/83	USEPA				N.D
Schmall (357 Highland Ave.)		11/22/83	USEPA				N.D
Noyes (361 Highland Ave.)		11/22/83	USEPA				N.D

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Lent (363 Highland Ave.)		11/28/83	USEPA				ND
Kuhl (408 Highland Ave.)		11/22/83	USEPA				ND
Kuhl (400 Highland Ave.) (Business)		11/22/83	USEPA				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Electra Manufacturing (328-332 Highland Ave.)							
Continental Telephone (306-314 Highland Ave.)							

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Hammarquist (164 Watkins Ave.)		11/29/83	USEPA				ND
Wegenroth (168 Watkins Ave.)		11/29/83	USEPA				ND
Schmick (174 Watkins Ave.)							
Holmes (175 Watkins Ave.)		11/29/83	USEPA				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Winner		11/22/83	USEPA				ND
(186 Watkins Ave.)		11/29/83	USEPA				ND
Oatman/Rassmussen		11/29/83	USEPA				12
(187 Watkins Ave.)		12/09/83	USEPA				ND
Morse		11/29/83	USEPA				4
(190 Watkins Ave.)		12/9/83	USEPA				ND
Prior King Press		10/17/83	NYSDEC				ND
(228 - 230 Watkins Ave.)		11/29/83	USEPA				ND

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Radivoy (229 Watkins Ave.)		11/28/83 12/09/83	USEPA USEPA				6 ND
Campbell (231 Watkins Ave.)							
Jehova's Witness Church (233 Watkins Ave.)							
Cosmo Optics (238 Watkins Ave.)		11/29/83 11/7/83 12/9/83	USEPA OCHD	 Envirotest			New Well = 3 Old Well = ND New Well = 1 Old Well = 1

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Wand		11/29/83	USEPA				2
(239 Watkins Ave.)		12/9/83	USEPA				ND
Saxton		11/29/83	USEPA				ND
(251 Watkins Ave.)							

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Lopez (174 Commonwealth Ave.)	69191	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Johnson (208 Commonwealth Ave.)	69192	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Berry (210 Commonwealth Ave.)	69193	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Mader (214 Commonwealth Ave.)	69194	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Carey (213 Commonwealth Ave.)	69196	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Muller (221 Commonwealth Ave.)	69197	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Ruppert (229 Commonwealth Ave.)	69198	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Brock (231 Commonwealth Ave.)	69199	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Van Pelt (31 Electric Ave.)	69170	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
DicKerson (173 Commonwealth Ave)	69171	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Reagan (176 Commonwealth Ave.)	69172	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Hite (192 Commonwealth Ave.)	69173	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
De Mouth (188 Commonwealth Ave.)	69174	12/19/83	USEPA	Envintest	TAT	12/21/83	<1
Clauson (177 Commonwealth Ave.)	69187	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Palerno (183 Commonwealth Ave.)	69188	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
BrincKerhoff (197 Commonwealth Ave.)	69189	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Norbury (211 Commonwealth Ave.)	69190	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Davis (182 Commonwealth Ave.)	69175	12/19/83	USEPA	Envirotest	TAT	12/21/83	<1
Reynolds (196 Commonwealth Ave.)	68977	12/19/83	USEPA	Envirotest	TAT	12/28/83	<1
SPIKE (Ranalb, 600 Highland Ave)* * Fictitious address	68978	12/20/83	USEPA	Envirotest		12/28/83	92, 93

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSES

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
BLANK (in between runs)	Lab blank		USEPA	Envirotest		12/28/83	< 1
Varsa (220 Commonwealth Ave.)	68979	12/20/83	USEPA	Envirotest		12/28/83	< 1
Morris (224 Commonwealth Ave.)	68980	12/20/83	USEPA	Envirotest		12/28/83	< 1
Reynolds (226 Commonwealth Ave.)	68981	12/20/83	USEPA	Envirotest		12/28/83	< 1

NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

SAMPLING ANALYSIS

Location	Sample No.	Date of Sample	Agency	Lab	QA/QC Analysis	Date of Results	Results (ppb) [1]
Finlay (244 Commonwealth Ave.)	68982	12/20/83	USEPA	Envirotest		12/28/83	<1
Davis (182 Commonwealth Ave.)	69195	12/20/83	USEPA	Envirotest		12/28/83	<1
Steele (200 Commonwealth Ave.)	69200	12/19/83	USEPA	Envirotest		12/28/83	<1

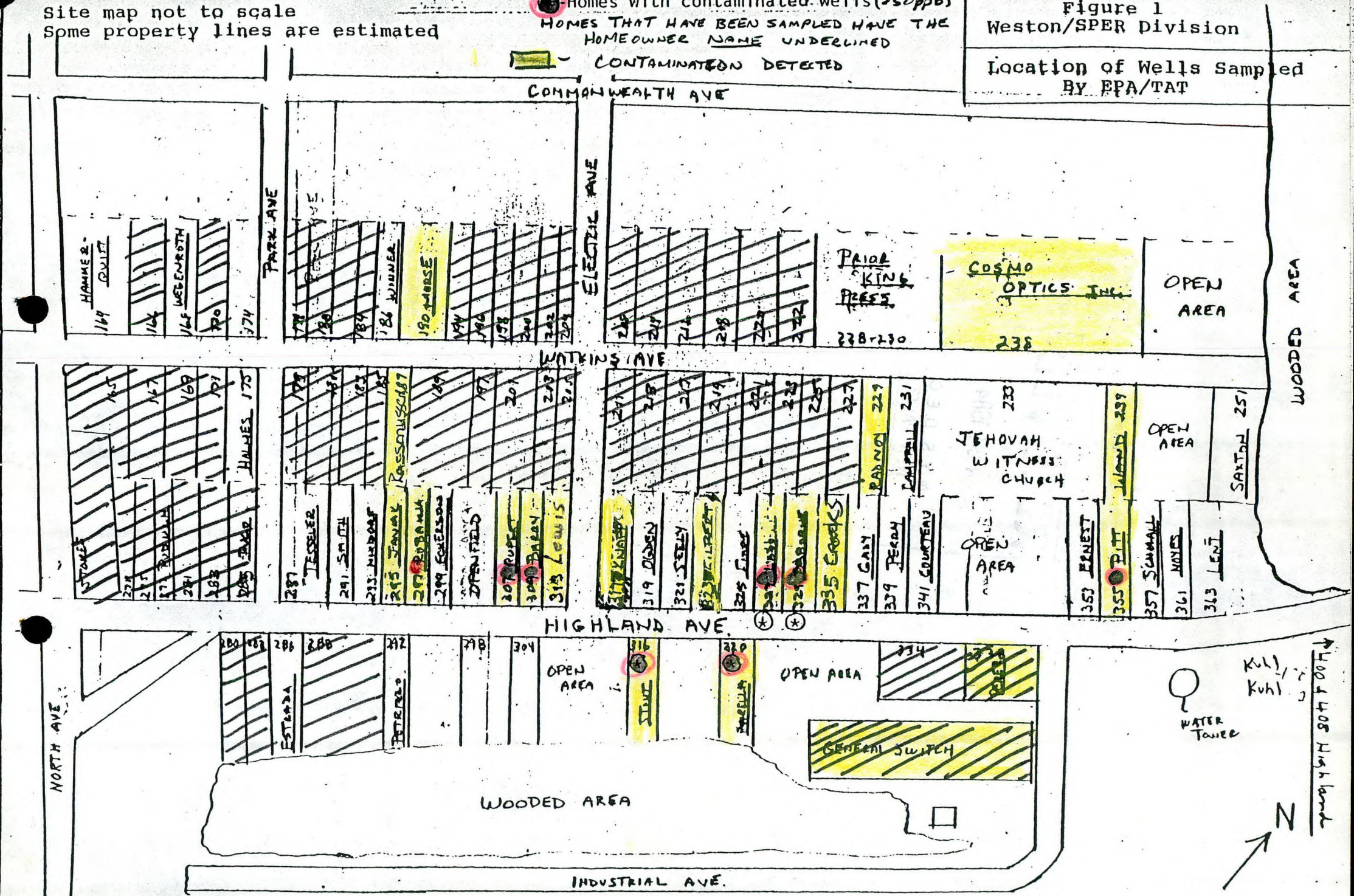
NOTES: [1] Values in ppb of tetrachloroethylene, unless otherwise noted

Site map not to scale
Some property lines are estimated

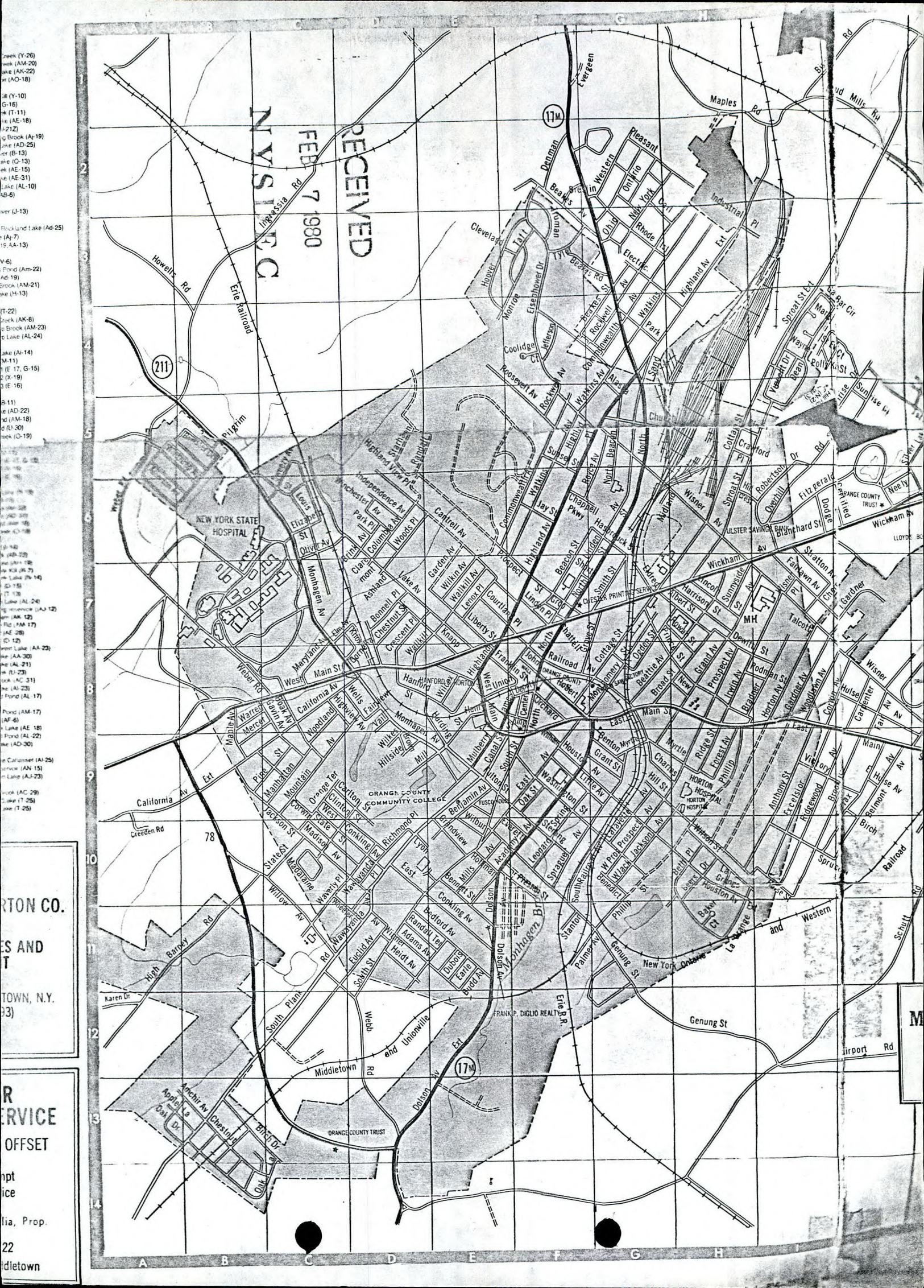
- HOMES WITH PERMANENT WATER HOOK-UP
- Homes with contaminated wells (>50ppb)
HOMES THAT HAVE BEEN SAMPLED HAVE THE HOMEOWNER NAME UNDERLINED
- CONTAMINATION DETECTED

Figure 1
Weston/SPER Division

Location of Wells Sampled By EPA/TAT



Properties with Lot # only use on city water
Properties with number & Lot # use on wells


RECEIVED
FEB 7 1980
NYSTEC
NEW YORK STATE HOSPITAL
ORANGE COUNTY COMMUNITY COLLEGE
HORTON HOSPITAL
ORANGE COUNTY TRUST
ULSTER SAVINGS BANK
FRANK P. DIGLIO REALTY
Erie Railroad
New York, Ontario and Western
Monhagen Brook
Maples Rd
Pleasant
Denman
Beakes Av
Evergeen
Howells Rd
Erie Railroad
Ingassia Rd
Pilgrim
Cleveland
Hoover
Tait
Eisenhower Dr
Monroe
Coolidge Ct
Jefferson
Roosevelt Av
Rockwell Av
Watkins Av
Alex
Highland Av
Ext
Industrial Pl
Ohio
New York
Rhode
Electric
Breakneck Rd
Commonwealth
Park
Sproat St Ext
Bar Cir
Wayne
Rolly Kin St
Sunrise Ln
Sunrise Dr
Crawford Pl
Robertson Dr
Overhill Rd
Fitzgerald
Neely
Double
Wickham Av
Blanchard St
Wisner Av
Midland
Spruce St
Hasbrouck St
Chaplin Pkwy
Jay St
Royce Av
North Beacon
Highland Pl
Starkins Rd
Highland View Pl
Independence Av
Manchester Av
Park Pl
Columbia Av
Woods Pl
Cantrell Av
Louis
Fitzgerald St
Oliver Av
Monhagen Av
Clarmont
Ashland
Lake Av
Garden Av
Wilkin Av
Wallkill Av
Lenox Pl
Courtland Pl
Liberty St
Knapp
Crescent Pl
Chestnut St
Bonnell Pl
Elm Av
Maryland Av
Main St
West
Weber Rd
Hanford
Wilson
Hanford Horton
Highland
Franklin St
West Union
Railroad
Orchard
North
Center
Cottage St
Orden St
Montgomery St
Factory
Beattie Av
Broad St
New
Grand Av
Prospect Av
Irwin Av
Bradner
Rodman Av
Horton Av
Gardner Av
Woodworth Av
Wisner
Hulse
Carpenter
Talcott
Dewitt St
Harrison St
Sunnyside Av
Fairview Av
Gardner
Stratton Av
Wickham
Lincoln
Gibbert St
Howell
Chestnut
Crawford
Northfield
Smith St
Andrews
Linden Pl
Hatfield Grove St
Cottage St
Chester Print Processing
Maple Av
Warren
Mercer
Soak Av
Gavin Av
California Av
Woodland
Highview Av
Wells
Fairview
Hanford
Wall
Monhagen Av
Bertha
Wilkes
Hillside
Mill
Mulberry
Canal St
South St
Hilton
Henry
Main St
East
Benton
Myrtle
Ridge St
Forest Av
Phillip
Grant St
Houston
Lake Av
Hill St
Charles
Anthony St
Excelsior
Ridgewood
Broad
Victory Av
Belmont Se Av
Birch
Railroad
Sprucy
Pipe St
Manhattan
Mountain
Orange Ter
Carlton
Clinton St
Crown
West
State
Madison
Jackson St
Conkling
Richmond Pl
Benjamin Av
Fusco House
Wilbur
Windview
Everett Av
Academy
Leonard
Sprague
Spring St
Washington St
Oak St
Lafayette Av
Prospect Av
Jackson
Wilson St
Beth Pl
Lafayette
Grange
Houston Av
Baker Ct
Prospect
Benedict
Wack
Phillip
Palmer Av
Stanton
Genung St
Schutt Rd
Airport Rd
California Av
Ext
Creeden Rd
78
State St
Medalaine
Willow Av
Wawayanda Pl
Wawayanda Av
Waverly Pl
Lyon
East
Bennett St
Mills
Dolson Av
Copkling Av
Bedford Av
Randall Ter
Adams Av
Heidt Av
Euclid Av
Smith St
Dubois
Earle
Budd Av
Barney Rd
High
Karen Dr
South Plank Rd
Webb
Middletown Rd
Union Ville
Ext
17M
Dolson Av
Anchor Av
Apple La
Oak Dr
Chestnut
Birch Dr
Oak
Genung St
Palmer Av
Phillip
Stanton
Genung St
Schutt Rd
Airport Rd

Tainted wells linked to General Switch Co.

TH-R 2/17/84
P.5, C.1

By MELODEE ALVES
Staff Writer

MIDDLETOWN — General Switch Co. in Middletown has been identified as a possible contamination source of seven private wells on Highland Avenue Extension in the town of Wallkill.

Rep. Benjamin A. Gilman of Middletown R-22, made the announcement yesterday morning. It was based on test results taken by the Environmental Protection Agency (EPA) in a three-month joint investigation with the state Department of Environmental Conservation (DEC).

In a Feb. 9 letter to company president Walter S. Stern, the EPA outlined a five-step voluntary course of action over the next four months for the company. It includes cleaning up of the contamination and starting the installation of a water main down Highland Avenue Extension by Feb. 29.

General Switch must respond to the EPA directive today.

Albert Klauss, DEC regional engineer, said the investigation is continuing, but he would not elaborate on how General Switch was singled out as a possible source of contamination. He said there was no evidence to indicate the contamination is continuing.

Stern could not be reached for comment. An associate of the company's legal representative, Tucker, Gellman and Mulderig in New York City, said she did not know if the firm was handling this particular case.

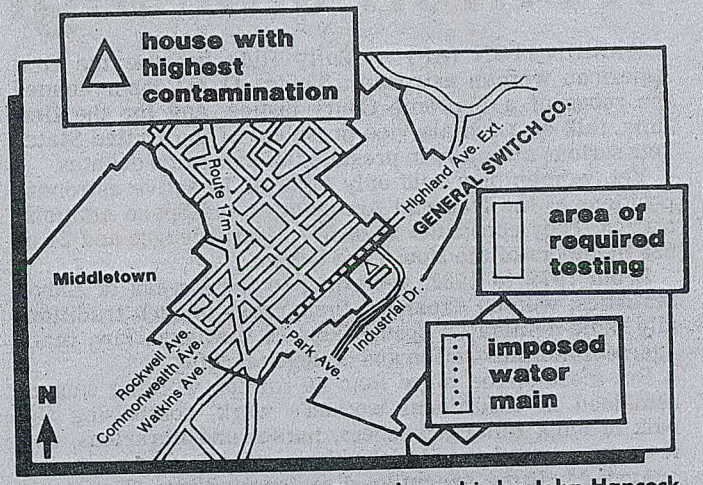
Local officials, including Town Supervisor Dennis Cosgrove and County Health Commissioner Russell Johnson expressed "relief" with the identification of the alleged polluter. But both said they would reserve further comment until they knew General Switch's response.

Resident Allan Warner of 320 Highland Ave. Ext. said the wait to find out the contamination source was hard.

"It's good to know at least where it's coming from," he said.

Since the end of October, seven wells have been polluted with hazardous levels of tetrachloroethylene (PCE), a dry cleaning and metal degreasing chemical.

The well located at 320 Highland Ave. Ext. is saturated with more than 290,000 parts per billion, the highest amount of PCE contamination reported in the state.



Record graphic by John Hancock

Map shows area of well contamination.

General Switch, which is approximately 100 yards from 320 Highland Ave. Ext., manufactures electrical switch boxes.

PCE has caused cancer in laboratory mice and causes rashes upon repeated contact. It also causes kidney and other internal organ deterioration if consumed in great quantities over a long period in humans.

A temporary above-ground pipeline funded by the EPA was installed to provide a safe water supply to the seven homes after use of the wells was terminated.Six of the homes draw city of Middletown water from the line through a connection at General Switch. The seventh home draws water from a connection at the Hebrew Day School.

Traces of PCE have spread beyond Highland to Commonwealth and Watkins avenues at varying levels below 50 parts per billion. Testing, however, was extended to Rockwell Avenue. The Town of Wallkill has been providing more than 50 households with five-gallon jugs of water because of an advisory from Johnson telling the residents not to drink the water.

However, the identification of a potential polluter will change the clean up responsibilities. According to EPA guidelines, the company may be liable for reimbursement from the federal Superfund and for any other federal, state or local funds spent on the project, said Herman Phillips, EPA spokesman.

The EPA, which authorized $100,000 from Superfund for the clean up, has spent $55,000 to date, Phillips said.

The town of Wallkill has spent approximately $15,000 in hooking up the temporary line. Also, Cosgrove estimated the town has provided more than 40 homes with the bottled water at $3.50 a jug.

Under the conditions stipulated by the EPA's letter, General Switch is required voluntarily to meet the following deadlines:

— Feb. 27 - Provide a study plan for government approval detailing the extent of soil contamination and the possible remedial work;

— Feb. 29 — Initiate the installation of a water main down Highland Avenue Extension between Park Avenue and the city of Middletown. This includes being responsible for the connection from the street to the homes and the inspection by a licensed plumber. The installation must be completed by April 30 and the hook ups by May 7;

— March 7 — Initiate the sampling and analysis of the drinking water of the homes that are not served by the temporary pipeline or the new water supply but that lie in the risk area designated by the county Health Department. The preliminary report must be made available to the EPA and DEC by April 7. The final report and a plan for the contamination removal should be made available by April 23;

— May 14 — Implement the plan approved by the government for the removal or decontamination of the contaminated soil with the removal complete by June 13; and

— May 28 — Complete a hydrogeological investigation and implement the groundwater contamination removal/control program approved by the government.

Officials refused to speculate on the next step if the company does not comply with the EPA conditions.

However, an attorney experienced in environmental matters said a voluntary compliance could reduce the company's liability in possible lawsuits from individuals.

Angry residents listen to water district plan

E20

WASHINGTON HEIGHTS — Anger and frustration over the uncertainty of further contamination of private wells in Washington Heights were expressed by residents last night as they listened to town officials present a proposal for the formation of a water district.

And there was even a call for annexing the section into the city of Middletown.

More than 200 residents filled the Washington Heights Firehouse to question a town proposal for a $2.2 million water district, which would serve more than 670 homes. The meeting was complicated by the identification earlier yesterday of a potential source of the contamination of seven wells on Highland Avenue Extension. Those who came to hear about the water district proposal were interested also in the contamination cleanup and the chemical's health effects.

The chemical was identified as PCE, a dry cleaning and metal de-greasing solvent.

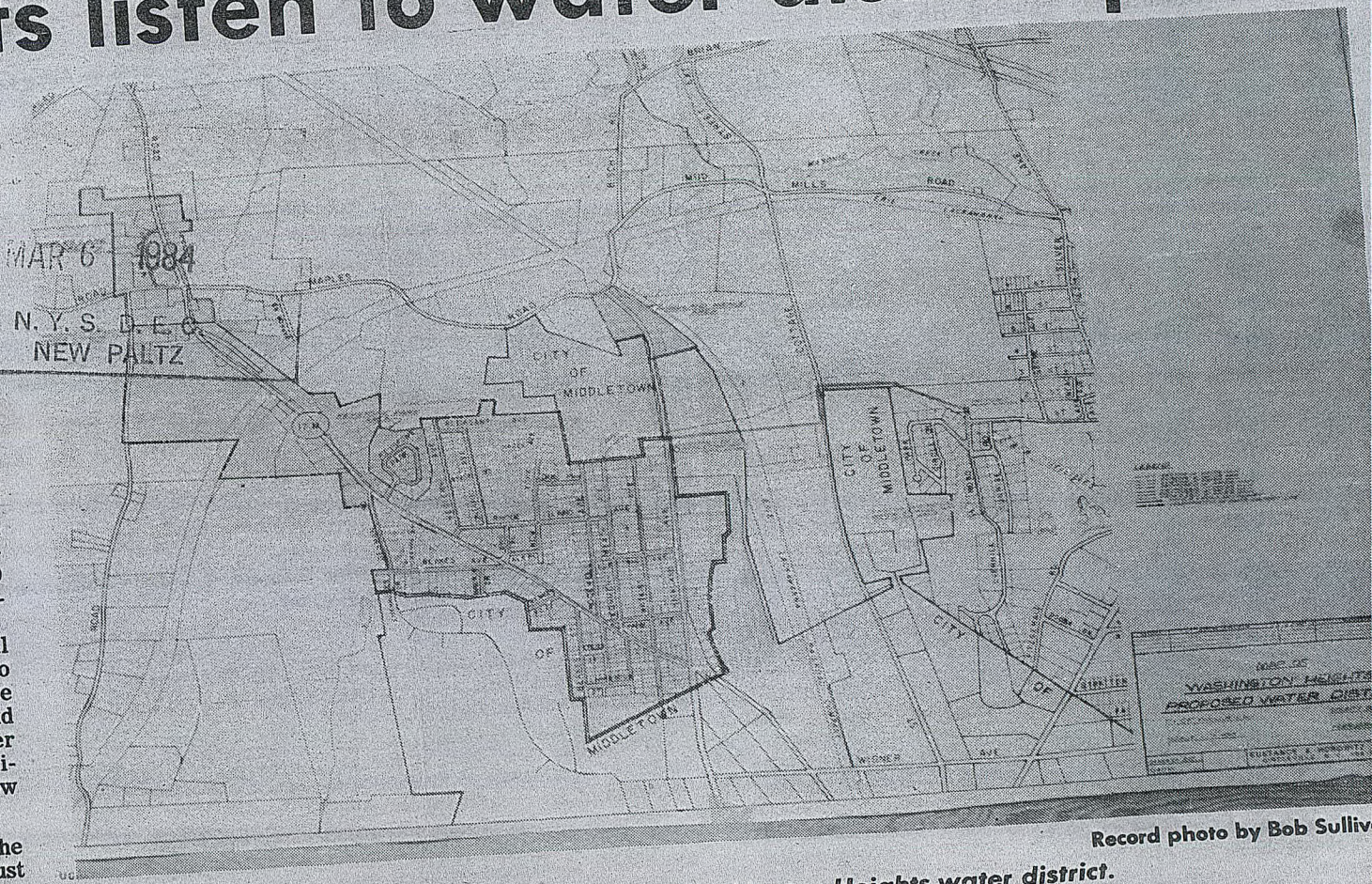
Supervisor Dennis Cosgrove said interest in forming a water district surfaced before the contamination was discovered. The town had received a petition containing 89 signatures asking for information on forming a water district.

The town's proposal for a water district would entail laying a pipeline from a water tank on Overhill Road to cross Cottage Street, connecting it at Highland Avenue Extension. A tank built on Ingrassia Road would extend another line across the district to equalize the water pressure. The average homeowner would pay approximately $330 a year for 30 years if the town could borrow the full amount.

But before a water district is formed, 51 percent of the residents with 51 percent of the assessed valuation must sign a petition stating approval. Cosgrove said a water system probably could be installed a year after the proposal passes.

However, many residents want a statement from the Environmental Protection Agency (EPA), the state Department of Environmental Conservation (DEC) or the county Health Department saying the contamination is spreading beyond Highland Avenue Extension in either direction, posing a danger to their wells.

County Health Commissioner Russell Johnson said he



Record photo by Bob Sulliv

A map of the proposed Washington Heights water district.

he strongly supported the formation of a water district. Wells that have been tested on Watkins, Commonwealth and Rockwell Avenues revealed traces of the chemical in 10 wells, he said. Anyone wanting to know the results of their well tests may call 294-7961.

Rockwell Avenue resident Bernard Petak asked Cosgrove to contact the City of Middletown and provide the residents with comparative figures before a petition was circulated. He also asked that the possibility of annexa with the city be considered.

Also attending the meeting were Rep. Benjamin A. man of Middletown, R-22, EPA offical Fred Rubel, engineer Albert Klauss, and Wallkill councilmen and neers.

— MELODEE AI

General Switch linked to tainted wells

By MELODEE ALVES
Staff Writer

MIDDLETOWN — General Switch Co. in Middletown has been identified as a possible source of the contamination of seven private wells on Highland Avenue Extension in the town of Wallkill.

Rep. Benjamin A. Gilman of Middletown, R-22, said yesterday that General Switch was pinpointed as the result of tests made by the federal Environmental Protection Agency (EPA) in a three-month joint investigation with the state Department of Environmental Conservation (DEC).

In a Feb. 9 letter to Walter S. Stern, president of General Switch, the EPA suggested a five-step voluntary course of action that the company should follow over the next four months. It includes cleaning up the contamination and starting the installation of a water main down Highland Avenue Extension by Feb. 29.

General Switch must respond to the EPA letter today.

Albert Klauss, DEC regional engineer, would not elaborate on how General Switch was singled out as a possible source of contamination. He said there was no evidence that the contamination is continuing, but that the case is still under investigation.

Stern could not be reached for comment. An associate of the company's legal representative, Tucker, Gellman and Mulderig in New York City, said she did not know if the firm was handling this particular case.

Local officials, including Town Supervisor Dennis Cosgrove and County Health Commissioner Russell Johnson expressed "relief" that the source of the pollution apparently has been determined. But both said they would not comment further until General Switch responds to the allegations.

Allan Warner of 320 Highland Ave. Ext. said waiting to learn the source of the contamination was hard.

"It's good to know at least where it's coming from," he said.

Since the end of October, seven wells have been polluted with hazardous levels of tetrachloroethylene (PCE), a dry cleaning and metal degreasing solvent.

The well located at 320 Highland Ave. Ext. is saturated with more than 290,000 parts per billion, the highest amount of PCE contamination reported in the state.

General Switch, which is approximately 100 yards from 320 Highland Ave. Ext., manufactures electrical switch boxes.

The chemical has been shown to cause cancer in laboratory mice and causes rashes in humans upon repeated contact. It also causes kidney and other internal organ deterioration if consumed by humans in great quantities over a long period.

A temporary above-ground pipeline funded by the EPA has been providing a safe water supply to the seven homes after use of the wells was terminated. Six of the homes draw on Middletown's water supply from the line through a connection at General Switch. The seventh home draws water from a connection at the Hebrew Day School.

Traces of PCE have spread beyond Highland to Commonwealth and Watkins avenues at varying levels below 50 parts per billion. Testing, however, was extended to Rockwell Avenue. The town has been providing more than 50 households in the area with five-gallon jugs of water because Johnson told the residents not to drink water from their wells.

However, the identification of a potential polluter will change the cleanup responsibilities. According to EPA guidelines, the company may be liable for reimbursement to the federal Superfund and for any other federal, state or local funds spent on the project, said Herman Phillips, EPA spokesman.

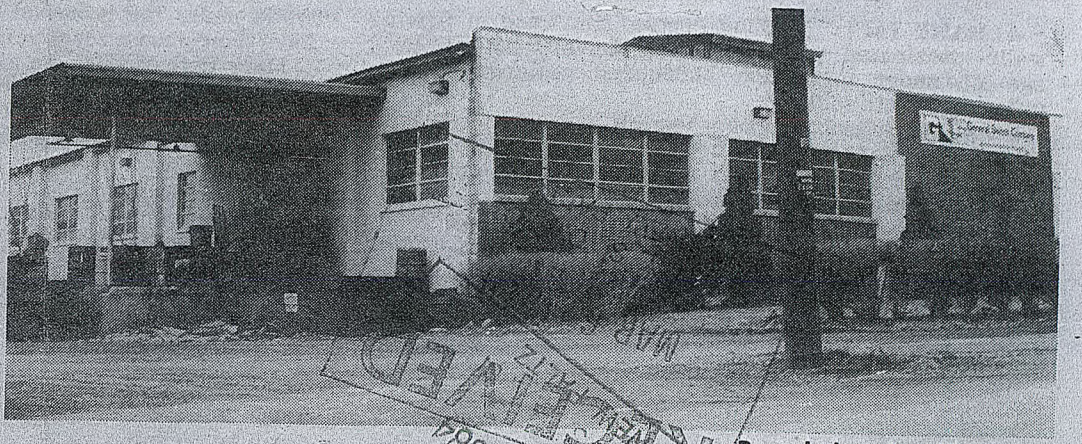
The EPA, which authorized $100,000 from the Superfund for the cleanup, has spent $55,000 to date, Phillips said.

The town spent approximately $15,000 to hook up the temporary line. Cosgrove estimated the town has provided more than 50 homes with the bottled water, which costs $3.50 a jug.

Under the terms of the voluntary agreement stipulated in the EPA's letter, General Switch would have to meet the following deadlines:

— Feb. 27 — Provide a study plan for government approval detailing the extent of soil contamination and the possible remedial work;

— Feb. 29 — Initiate the installation of a water main on Highland Avenue Extension between Park Avenue and the city of Middletown. This includes being responsible for the connection from the street to the homes and the inspection by a licensed plumber. The installation must be completed by April 30 and the hookups by May 7;



Record photo by Mike Carey

General Switch Co. on Industrial Drive in Middletown.

— March 7 — Initiate the sampling and analysis of the drinking water of the homes that are not served by the temporary pipeline or the new water supply but that lie in the risk area designated by the county Health Department. The preliminary report must be made available to the EPA and DEC by April 7. The final report and a plan for the contamination removal should be made available by April 23;

— May 14 — Implement the plan approved by the government for the removal or decontamination of the contaminated soil with the removal complete by June 13; and

— May 28 — Complete a hydrogeological investigation and implement the groundwater contamination removal/control program approved by the government.

Officials refused to speculate on the next step if the company does not comply with the EPA conditions.

However, an attorney experienced in environmental matters said a voluntary compliance could reduce the company's liability in possible lawsuits from individuals.

SAMPLE ANALYSIS (ORGANICS)

SURVEY : Wallkill

ANALYST : Emile Boulos, Kevin Kubik, Steve Stodola

DATE COLLECTED: 1/5/84

DATE REPORTED: 1/17/84

APPROVALS : Alex Goldberg 1/17/84

SAMPLE DESCRIPTION:

see attached sheets

RECEIVED

JAN 20 1984

From: Alex has thoroughly reviewed. George Zurlino would like to release OK Bob.

If they are all checked + are OK — let them be released KM

ANALYSES PERFORMED:

- ☒ Quantitation of priority pollutant
- ☐ Identification of other organics
- ☐ Specific compound(s) identification

METHOD USED: EPA 624

TECHNIQUE USED: Finnigan Model 3300 electron impact GC/MS/INCOS data system

- ☒ Interfaced with HP purge and trap sampler
- ☐ Using capillary column ☒ Using packed column
- ☐ Other (explain)

DATA REDUCTION PROCEDURES USED:

- ☒ Automatic search and quantitation procedure for priority pollutants
- ☐ Automatic search for section "311" compounds
- ☐ NBS mass spectral library search of chromatographic peaks with intensities greater than 50% of the internal standard
- ☐ Manual interpretation of chromatographic peaks with intensitites greater than 50% of the internal standard

Walkkill ; survey 1/5/84

Laboratory Number	Well
68551	363 Highland Avenue
68552	357 Highland Avenue
68553	361 Highland Avenue
68554	353 Highland Avenue
68555	341 Highland Avenue
68556	323 Highland Avenue
68557	317 Highland Avenue
68558	286 Highland Avenue
68559	355 Highland Avenue
68560	339 Highland Avenue
68561	321 Highland Avenue
68562	299 Highland Avenue
68563	304 Highland Avenue
68564	
68565	292 Highland Avenue
68566	
68567	409 Highland Avenue
68568	Parella
68569	Field Blank
68876	325 Highland Avenue
68877	337 Highland Avenue
68878	335 Highland Avenue
68885	319 Highland Avenue
68886	313 Highland Avenue
68900	297 Highland Avenue
68891	338 Highland Avenue

Laboratory Number	Well
68894	295 Highland Avenue
68895	293 Highland Avenue

Water Samples — Laboratory Number _____

Compound Name	No.	Stored no.	STD Scan #	68551	68552	68553	68554		Lab blank
Benzene	4	34030							
Carbon Tetrachloride	6	32102							
Chlorobenzene	7	34301							
1,2-Dichloroethane	10	32103							
1,1,1-Trichloroethane	11	34506							
1,1-Dichloroethane	13	34496							
1,1,2-Trichloroethane	14	34511							
1,1,2,2-Tetrachloroethane	15	34516							
Chloroethane	16	34311							
Bis (chloromethyl) ether	17	34268							
2-Chloroethyl vinyl ether (Mixed)	19	34576							
Chloroform	23	32106	132						2K
1,1-dichloroethylene	29	34501							
1,2-trans-Dichloroethylene	30	34546							
1,2-dichloropropane	32	34541							
1,3-Dichloropropylene (1,3-Dichloropropene)	33	34561							
Ethylbenzene	38	34371							
Methylene Chloride (Dichloromethane)	44	34423							
Methyl Chloride (Chloromethane)	45	34418							
Methyl bromide (Bromomethane)	46	34413							
Bromoform (Tribromomethane)	47	32104							
Bromodichloromethane	48	32101							
Trichlorofluoromethane	49	34488							
Dichlorodifluoromethane	50	34668							
Dibromochloromethane	51	32105							
Tetrachloroethylene	85	34475							
Toluene	86	34010							
Trichloroethylene	87	39180							
Vinyl chloride	88	39175							
Acrolein	2	34210							
Acrylonitrile	3	34215							
Internal Standards				2 Recovery					
Bromochloromethane			98	99	100	99	59		96
2-Bromo-1-chloropropane			293	120	100	130	83		110
1,4 Dichlorobutane			430	130	100	145	91		100

PURGEABLE ORGANICS Walkill Water CONCENTRATION ug/l 1/10/84

Compound Name	No.	Stored no.	Laboratory Number STD scan#		68556	68555	68557	68565	68566	68591	BLANK 10
Benzene	4	34030									
Carbon Tetrachloride	6	32102									
Chlorobenzene	7	34301									
1,2-Dichloroethane	10	32103									
1,1,1-Trichloroethane	11	34506	164						2K	2K	
1,1-Dichloroethane	13	34496									
1,1,2-Trichloroethane	14	34511									
1,1,2,2-Tetrachloroethane	15	34516									
Chloroethane	16	34311									
Bis (chloromethyl) ether	17	34268									
2-Chloroethyl vinyl ether (Mixed)	19	34576									
Chloroform	23	32106	131								2K
1,1-dichloroethylene	29	34501									
1,2-trans-Dichloroethylene	30	34546									
1,2-dichloropropane	32	34541									
1,3-Dichloropropylene (1,3-Dichloropropene)	33	34561									
Ethylbenzene	38	34371									
Methylene Chloride (Dichloromethane)	44	34423									
Methyl Chloride (Chloromethane)	45	34418									
Methyl bromide (Chloromethane)	46	34413									
Bromoform (Tribromomethane)	47	32104									
Bromodichloromethane	48	32101									
Trichlorofluoromethane	49	34488									
Dichlorodifluoromethane	50	34668									
Dibromochloromethane	51	32105									
Tetrachloroethylene	85	34475	420								
Toluene	86	34010									
Trichloroethylene	87	39180									
Vinyl chloride	88	39175									
Acrolein	2	34210									
Acrylonitrile	3	34215									
Surrogate Std % Recoveries											
#1			97		121	116	125	87	121	126	122
#2			293		92	97	95	86	89	107	98
#3			431		94	80	100	85	77	112	91

Wall hill

Concentration, ug/l

Compound Name	No.	Stored no.	Scan #	Blank	68561	68[illegible]	68556	68559	68560	68566
Benzene	4	34030								
Carbon Tetrachloride	6	32102								
Chlorobenzene	7	34301								
1,2-Dichloroethane	10	32103	147							2K
1,1,1-Trichloroethane	11	34506								
1,1-Dichloroethane	13	34496								
1,1,2-Trichloroethane	14	34511								
1,1,2,2-Tetrachloroethane	15	34516								
Chloroethane	16	34311								
Bis (chloromethyl) ether	17	34268								
2-Chloroethyl vinyl ether (Mixed)	19	34576								
Chloroform	23	32106	134	0.4						
1,1-dichloroethylene	29	34501								
1,2-trans-Dichloroethylene	30	34546								
1,2-dichloropropane	32	34541								
1,3-Dichloropropylene (1,3-dichloropropene)	33	34561								
Ethylbenzene	38	34371								
Methylene Chloride (Dichloromethane)	44	34423	61							2K
Methyl Chloride (Chloromethane)	45	34418								
Methyl bromide (Bromomethane)	46	34413								
Bromoform (Tribromomethane)	47	32104								
Bromodichloromethane	48	32101								
Trichlorofluoromethane	49	34488								
Dichlorodifluoromethane	50	34668								
Dibromochloromethane	51	32105								
Tetrachloroethylene	85	34475								
Toluene	86	34010	446	0.3						
Trichloroethylene	87	39180								
Vinyl chloride	88	39175								
Acrolein	2	34210								
Acrylonitrile	3	34215								
Internal Standards										
Bromochloromethane			101	62	102	103	101	107	109	106
2-Bromo-1-chloro-propane			296	91	93	96	86	96	97	97
1,4 Dichlorobutane			433	96	100	84	91	86	87	89

PURGEABLE ORGANICS — CONCENTRATION ug/l

Well Bill

Compound Name	No.	Stored no.	Laboratory Number 68567	68894
Benzene	4	34030		
Carbon Tetrachloride	6	32102		
Chlorobenzene	7	34301		
1,2-Dichloroethane	10	32103		
1,1,1-Trichloroethane	11	34506		
1,1-Dichloroethane	13	34496		
1,1,2-Trichloroethane	14	34511		
1,1,2,2-Tetrachloroethane	15	34516		
Chloroethane	16	34311		
Bis (chloromethyl) ether	17	34268		
2-Chloroethyl vinyl ether (Mixed)	19	34576		
Chloroform	23	32106		
1,1-dichloroethylene	29	34501		
1,2-trans-Dichloroethylene	30	34546		
1,2-dichloropropane	32	34541		
1,3-Dichloropropylene (1,3-Dichloropropene)	33	34561		
Ethylbenzene	38	34371		
Methylene Chloride (Dichloromethane)	44	34423		2K
Methyl Chloride (Chloromethane)	45	34418		
Methyl bromide (Chloromethane)	46	34413		
Bromoform (Tribromomethane)	47	32104		
Bromodichloromethane	48	32101		
Trichlorofluoromethane	49	34488		
Dichlorodifluoromethane	50	34668		
Dibromochloromethane	51	32105		
Tetrachloroethylene	85	34475		
Toluene	86	34010		
Trichloroethylene	87	39180		
Vinyl chloride	88	39175		
Acrolein	2	34210		
Acrylonitrile	3	34215		
Surrogate Standard Recoveries; %				
Bromochloromethane			104	105
2-Bromo-1-Chloropropane			86	111
1,4-dichlorobutane			63	114

Compound Name	No.	Stored no.	Laboratory Number							
			STD scan #		6856					blank 4
Benzene	4	34030								
Carbon Tetrachloride	6	32102								
Chlorobenzene	7	34301								
1,2-Dichloroethane	10	32103								
1,1,1-Trichloroethane	11	34506	165		28.9					2K
1,1-Dichloroethane	13	34496	108		2.2					
1,1,2-Trichloroethane	14	34511								
1,1,2,2-Tetrachloroethane	15	34516								
Chloroethane	16	34311								
Bis (chloromethyl) ether	17	34268								
2-Chloroethyl vinyl ether (Mixed)	19	34576								
Chloroform	23	32106	131							2K
1,1-dichloroethylene	29	34501	87		9.2					
1,2-trans-Dichloroethylene	30	34546	116		1.9					
1,2-dichloropropane	32	34541								
1,3-Dichloropropylene (1,3-Dichloropropene)	33	34561								
Ethylbenzene	38	34371								
Methylene Chloride (Dichloromethane)	44	34423								
Methyl Chloride (Chloromethane)	45	34418								
Methyl bromide (Chloromethane)	46	34413								
Bromoform (Tribromomethane)	47	32104								
Bromodichloromethane	48	32101								
Trichlorofluoromethane	49	34488								
Dichlorodifluoromethane	50	34668								
Dibromochloromethane	51	32105								
Tetrachloroethylene	85	34475	422		56000					2.2
Toluene	86	34010								2K
Trichloroethylene	87	39180	241		87					
Vinyl chloride	88	39175								
Acrolein	2	34210								
Acrylonitrile	3	34215								
Surrogate Stds					% Recovery					
Bromochloro Methane			98		110					110
2-Bromo-1-Chloro propane			294		89					100
1,4 Dichloro Butane			432		78					76

PURGEABLE ORGANICS — Walkill water Samples CONCENTRATION ug/L — 1/13/84

Compound Name	No.	Stored no.	Laboratory Number: STD Scan #	68563	68564	68565	68569	68876	68877	Lab Blank
Benzene	4	34030								
Carbon Tetrachloride	6	32102								
Chlorobenzene	7	34301								
1,2-Dichloroethane	10	32103								
1,1,1-Trichloroethane	11	34506	164							2K
1,1-Dichloroethane	13	34496								
1,1,2-Trichloroethane	14	34511								
1,1,2,2-Tetrachloroethane	15	34516								
Chloroethane	16	34311								
Bis (chloromethyl) ether	17	34268								
2-Chloroethyl vinyl ether (Mixed)	19	34576								
Chloroform	23	32106	131							2.7
1,1-dichloroethylene	29	34501								
1,2-trans-Dichloroethylene	30	34546								
1,2-dichloropropane	32	34541								
1,3-Dichloropropylene (1,3-Dichloropropene)	33	34561								
Ethylbenzene	38	34371								
Methylene Chloride (Dichloromethane)	44	34423	58			3.3				
Methyl Chloride (Chloromethane)	45	34418								
Methyl bromide (Chloromethane)	46	34413								
Bromoform (Tribromomethane)	47	32104								
Bromodichloromethane	48	32101								
Trichlorofluoromethane	49	34488								
Dichlorodifluoromethane	50	34668								
Dibromochloromethane	51	32105								
Tetrachloroethylene	85	34475	419		2K					2K
Toluene	86	34010	442							2K
Trichloroethylene	87	39180								
Vinyl chloride	88	39175								
Acrolein	2	34210								
Acrylonitrile	3	34215								
Surrogate Stds				% Recovery						
Bromo chloro Methane			98	110	92	110	100	114	110	98
2-Bromo-1-Chloro propane			291	120	91	110	130	100	100	100
1,4 Dichloro Butane			429	120	86	100	130	100	97	89

PURGEABLE ORGANICS Walkill Water samples CONCENTRATION ug/l 1/13/84

Compound Name	No.	Storet no.	Laboratory Number							
				std Scan#		68878	68895	68900		
Benzene	4	34030								
Carbon Tetrachloride	6	32102								
Chlorobenzene	7	34301								
1,2-Dichloroethane	10	32103								
1,1,1-Trichloroethane	11	34506								
1,1-Dichloroethane	13	34496								
1,1,2-Trichloroethane	14	34511								
1,1,2,2-Tetrachloroethane	15	34516								
Chloroethane	16	34311								
Bis (chloromethyl)ether	17	34268								
2-Chloroethyl vinyl ether (Mixed)	19	34576								
Chloroform	23	32106								
1,1-dichloroethylene	29	34501								
1,2-trans-Dichloroethylene	30	34546								
1,2-dichloropropane	32	34541								
1,3-Dichloropropylene (1,3-Dichloropropene)	33	34561								
Ethylbenzene	38	34371								
Methylene Chloride (Dichloromethane)	44	34423								
Methyl Chloride (Chloromethane)	45	34418								
Methyl bromide (Chloromethane)	46	34413								
Bromoform (Tribromomethane)	47	32104								
Bromodichloromethane	48	32101								
Trichlorofluoromethane	49	34488								
Dichlorodifluoromethane	50	34668								
Dibromochloromethane	51	32105								
Tetrachloroethylene	85	34475						40		
Toluene	86	34010								
Trichloroethylene	87	39180								
Vinyl chloride	88	39175								
Acrolein	2	34210								
Acrylonitrile	3	34215								
Surrogate Stds					% Recovery					
Bromochloro Methane						98	110	110		
2-Bromo-1-Chloro propane						120	120	100		
1,4 Dichloro Butane						130	130	100		