APPENDIX D (1)

3158 S. KOLIN AVENUE
CHICAGO, ILL. 60623
(312) 254-2406

Scientific CONTROL LABORATORIES, INC.

TESTING • RESEARCH • CONSULTING

U.B.
AUG 2 1982

US EPA RECORDS CENTER REGION 5
527560

REPORT TO: Sherwin-Williams
11541 South Champlain
Chicago, IL 60638

ATTENTION: Mr. L.A. Marti

ORDER NO.: C 87036

REPORT NO.: 7-236

SPECIFICATION NO.:

RECEIVED: 5-18-82

TYPE TEST: Waste Analysis

REPORTED: 7-28-82

IDENTIFICATION OF MATERIAL

One (1) sludge sample identified as: E48C West Pond

The sample was analyzed in accordance with "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods SW-846 USEPA." The purpose of the testing was to obtain the necessary information to fill our the CHEMICAL WASTE MANAGEMENT PROFILE SHEET.

4. WASTE NAME E 48 C West Pond
5. PROCESS GENERATING WASTE
6. WASTE CHARACTERISTICS:
   A. BILAYERED ____ MULTILAYERED ____ NONE XX
   B. PHYSICAL STATE AT 70°F: SOLID XX SEMISOLID ____ LIQUID ____
   C. % TOTAL SOLIDS 46.7 % DISSOLVED SOLIDS 0.3
   D. SPECIFIC WEIGHT IN ~~LB/GAL~~ 88.8 lbs/ft^3 Suspended Solids 46.4
   E. pH 7.80 (Based on 10% by wt. AS % Not Required
   F. FLASH POINT (CLOSED CUP) greater than 200°F
   G. VAPOR PRESSURE (mmHg at 25°C) 20
   H. BTU PER LB: Negligible ASH CONTENT % 26.4
   I. CHARACTERISTIC COLOR Blue ODOR Mold
   J. HALOGENATED No SULFONATED No
   K. ALPHA RADIATION AS pCi/l Not Applicable
7. WASTE COMPOSITION:
   A. ORGANIC COMPONENTS
   Oil 800 ppm TOC 17.74%
   Phenol 228 ppm
   PRESENCE OF PESTICIDES Not Applicable

RECEIVED
DEC 31 1984
IEPA-DLPC

APPENDIX D (2)

Scientific
CONTROL LABORATORIES, INC.

Sherwin-Williams
Page Two

July 28, 1982
Lab. No. 7-236

B. HEAVY METALS (ppm)	TOTAL	LEACHABLE
Silica (as SiO2)	250.	Not Required
Silver	*1.0	Not Required
Arsenic	14.6	0.25
Barium	43.4	Not Required
Cadmium	1.9	Not Required
Chromium	67.2	*0.1
Copper	57.2	Not Required
Mercury	.350	*0.01
Nickel	67.6	Not Required
Lead	94.7	*0.1
Selenium	*0.1	Not Required
Zinc	192.	Not Required
Calcium	25,000.	Not Required
Aluminum	2,180.	Not Required
Titanium	20,000.	Not Required
Iron	4,200.	Not Required

C. INORGANIC COMPONENTS (ppm)		
Total Cyanide	55.7	
Free Cyanide	*1.0	
Sulfide	93.1	
Bisulfite	*1.0	AS
Sulfite	*1.0	AS
% Sulfur	2.78%	
% Water	53.%	

*Denotes less than

Respectfully submitted,

SCIENTIFIC CONTROL LABORATORIES, INC.

By Frank Altmayer

FA:ch
2c

RECEIVED
DEC 31 1984
IEPA-DLPC

APPENDIX D (3)

9. REGULATORY CLASSIFICATION OF WASTE

THE FOLLOWING INFORMATION IS PROVIDED BASED ON OUR INTERPRETATION OF THE REGULATIONS AND IS MEANT TO BE A GUIDE. PLEASE REVIEW THIS INFORMATION FOR ACCURACY AND COMPLETE ALL LINES THAT HAVE BEEN LEFT BLANK.

A. IS THIS WASTE A "HAZARDOUS MATERIAL" AS DEFINED BY REGULATIONS OF THE U.S. DEPARTMENT OF TRANSPORTATION PURSUANT TO THE HAZARDOUS MATERIALS TRANSPORTATION ACT? No (SEE 49 CFR 172.101 AND 173 FOR "HAZARDOUS MATERIALS" LIST AND CHARACTERISTICS.) IF SO, PLEASE ADVISE OF THE FOLLOWING:

(1) CORRECT SHIPPING DESCRIPTION: Does Not Apply

(2) HAZARD CLASS(ES): Does Not Apply

(3) MATERIAL I.D. NO.(S) Does Not Apply

B DOES THIS WASTE CONTAIN ANY "HAZARDOUS SUBSTANCE" AS DEFINED BY REGULATIONS OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY PURSUANT TO SECTION 311 OF THE CLEAN WATER ACT? No (SEE 40 CFR 117 FOR "HAZARDOUS SUBSTANCES" AND CATEGORIES.) IF SO, PLEASE ADVISE OF THE FOLLOWING:

(1) THE NAMES OF EACH HAZARDOUS SUBSTANCE PRESENT IN THE WASTE, THE HAZARD CATEGORY (X, A, B, C OR D) AND THE APPROXIMATE CONCENTRATION OF THE SUBSTANCE BY WEIGHT IN THE WASTE

Does Not Apply

(ATTACH ADDITIONAL PAGES IF NECESSARY)

C IS THIS WASTE A "HAZARDOUS WASTE" AS DEFINED BY REGULATIONS OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY PURSUANT TO SECTION 3001 OF THE RESOURCE CONSERVATION AND RECOVERY ACT? No (SEE 40 CFR, PART 261 FOR WHAT IS A "HAZARDOUS WASTE.") IF SO, STATE:

(1) THE USEPA HAZARDOUS WASTE NUMBER(S): Does Not Apply

(2) DO YOU CLAIM TO BE A SMALL QUANTITY GENERATOR? _____ (SEE 40 CFR 261.5.)

D. IS THIS WASTE A "HAZARDOUS WASTE" AS DEFINED BY THE ENVIRONMENTAL REGULATORY AGENCY IN YOUR STATE? No IF SO, STATE WHY IT IS SO DEFINED AND ANY STATE HAZARDOUS WASTE CODE NUMBERS ASSIGNED: Does Not Apply

10. IS THE INFORMATION PROVIDED IN SECTIONS 6-9 BASED UPON LABORATORY ANALYSIS OF THE WASTE MATERIAL? Yes IF SO, PLEASE ADVISE OF THE DATE OF THE MOST RECENT ANALYSIS: 6-10-82

11. HAVE YOU OBTAINED TOXICITY STUDIES OF THIS WASTE STREAM? No IF SO, PLEASE ATTACH A COPY OF THE RESULTS.

RECEIVED
DEC 31 1984
IEPA-DLPC

APPENDIX E

Groundwater Contamination Indicators

		3/30/83	6/23/83	10/ /83	12/20/83	3/14/84	6/05/84	9/18/84
pH	1A	7.75	7.925	7.775	7.3		7.65	
	2A	7.8	7.7	7.75	7.475	7.3	7.5	
	8				7.4	7.7	7.5	7.775
	9				8.8	9.6	9.15	8.6
Spec Cond	1A	1275	1000	1225	1100		1100	
	2A	5600	530	422.5	5150	4400	5625	
	8				1500	1600	1600	1745
	9				1300	1200	1100	1177.5
TOC	1A	12.25	7	12.75	12.75		7.75	
	2A	410	410	350	390	440	432.5	
	8				26.5	29	28.25	23.5
	9				80	72	66.75	52.75
TOX	1A	120	130	47.5	40		72.5	
	2A	120	70	17.5	35	1200(2)	34.5	
	8				37.5	62	64	165
	9				90	70	170	230

RECEIVED
DEC 31 1984
IEPA-DLPC

APPENDIX F

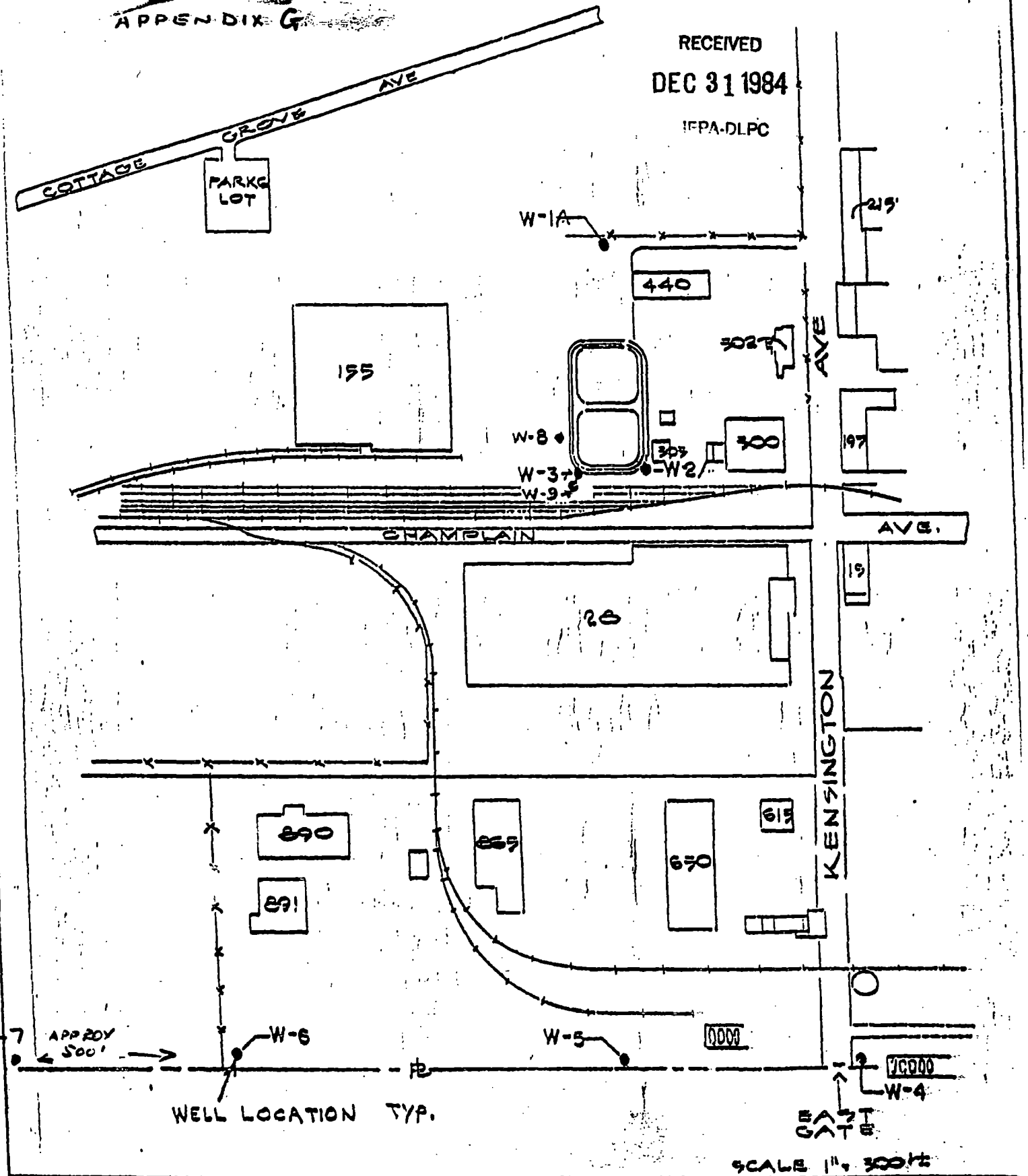
Groundwater Quality

		3/30/83	6/23/83	10/25/84	12/20/83	3/14/84	6/05/84	9/18/84	Avg
Chloride	1A	82	70	66	53				67.75
	2A	560	540	530	590				555.0
	8				34	62	39	48	45.75
	9				61	67	57	120	76.25
Iron	1A	0.026	0.083	0.41	.03				0.13725
	2A	0.05	0.20	1.0	1.4				0.6625
	8				0.16	0.095	1.4	0.15	0.45125
	9				1.4	0.095	0.6	0.16	0.56375
Manganese	1A	0.52	0.36	0.035	0.16				0.26875
	2A	2.1	1.6	1.1	1.1				1.475
	8				0.27	0.24	0.20	0.22	0.2325
	9				0.031	0.005	0.011	0.017	0.016
Phenolics	1A	0.035	0.010	0.04	.004				0.02225
	2A	0.088	ND (0.010)	0.04	0.02				0.0395
	8				0.054	0.028	0.02	0.017	0.02975
	9				0.62	0.36	0.880	0.39	0.5625
Sodium	1A	88	78	77	70				78.25
	2A	690	580	630	530				607.5
	8				98	100	120	110	107.0
	9				100	84	110	120	103.5
Sulfate	1A	160	130	64	150				126.0
	2A	2000	2100	1465	1900				1866.25
	8				180	240	360	440	305.0
	9				570	410	390	400	442.5

RECEIVED
DEC 31 1984
IEPA-DLPC

APPENDIX G

RECEIVED
DEC 31 1984
IEPA-DLPC



SOIL BORING LOCATION DIAGRAM
GROUND WATER MONITORING WELL INSTALLATION
SHERWIN WILLIAMS CHEMICAL COMPANY
11541 S. CHAMPLAIN, CHICAGO, ILLINOIS

STS Consultants Ltd.
111 Pfingsten Road
Northbrook, Illinois 60062

APPR	MGS	12-7-1982	7782-W

Well #3

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SUBPART F GROUNDWATER MONITORING DATA

Inventory #: 0316500-3
Site: Sherwin Williams Co.: Cook

Date: Rev. by:

Monitor Pt.	MW-3	MW-3	MW-3	MW-3
Collect. Date	3-23-83	6-18-83	9/21/82	11/24/82
~~Surf. Elev.~~				
~~Stick up Ht.~~				
~~Water Depth~~				
Grnowtr Surf. Elev	584.52	584.77	583.65	582.08
~~Laboratory~~	ERG	ERG	ERG	ERG

Parameters*	Standards (mg/l)				
Arsenic	.05	<0.004	0.002	0.005	<0.010
Barium	1.0	<0.2	0.40	<1	<0.2
Cadmium	0.01	0.006	0.023	0.008	0.006
Chromium	0.05	ND(<0.004)	ND(0.005)	ND(0.003)	<0.003
Fluoride	1.4 - 2.4	0.44	0.44	0.61	0.48
Lead	0.05	0.04	<0.029	0.046	0.050
Mercury	0.002	<0.0002	ND(0.0002)	0.0002	<0.0002
Nitrate (as N)	10	0.077	0.093	0.10	0.14
Selenium	0.01	<0.005	ND(0.01)	<0.002	<0.002
Silver	0.05	ND(0.005)	ND(0.018)	ND(0.005)	ND(0.004)
Endrin	~~0.0002~~ (0.2 ug/l)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Lindane	~~0.004~~ (4.0 ug/l)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Methoxychlor	~~0.1~~ (100.0 ug/l)	ND(0.50)	ND(0.50)	ND(0.50)	ND(1.0)
Toxaphene	~~0.005~~ (5.0 ug/l)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.5)
2,4 - D	~~0.1~~ (100.0 ug/l)	ND(1.0)	ND(1.0)	ND(0.1)	0.22
Silvex	~~0.01~~ (10.0 ug/l	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
** ~~Radium~~ TRITIUM	5 pCi/l	ND(2000)	<3000	<3000	ND(2000)
Gross Alpha	15 pCi/l	<5	<5	8	<5
*** Gross Beta	~~4 millirem/yr.~~	<8	<8	24	<8
Turbidity	1/TU	N/A	N/A		
Coliform Bacteria	1/100 ml	ND(1/100 ml)	ND(1/100 ml)	72	850
Chloride		15	15	14	14
Iron		0.058	0.35	0.73	0.39
Manganese		0.21	0.17	0.21	0.19
Phenols		0.088	0.039	0.048	0.088
Sodium		80	83	92	97
Sulfate		1200	1400	1100	1200
pH		8.2	8.1	7.6	7.9
Spec. Cond.		2100	2000	1700	2000
TOC		8	10	7.7	6.3
TOX		0.02	0.02	0.054	0.050

RECEIVED
OCT 13 1983
STATE OF ILLINOIS

DMF:mad/2-3

*All results reported as mg/l unless otherwise noted

Well #2 A

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SUBPART F GROUNDWATER MONITORING DATA

Inventory #: 0316500 3	Monitor Pt.	MW 2A	MW 2A	MW 2A	MW 2A	
Site: Sherwin Williams	Co.: Cook	Collect. Date	3-22-83	6-13-83	9/21/82	11/24/82	
		~~Surf. Elev.~~				
		Stick-up Ht.				
		~~Water Depth~~				
		Grndwtr Surf. Elev.	589.93	588.68	584.311	583.1	
Date:	Rev. by:	~~Laboratory~~	ERG	ERG	ERG	ERG	
Parameters*		Standards (mg/l)					
Arsenic		.05	0.015	0.13	<0.003	<0.010	
Barium		1.0	<1	0.56	<0.1	<0.2	
Cadmium		0.01	0.010	0.01	0.006	0.006	
Chromium		0.05	ND(<0.009)	<0.005	ND(0.003)	ND(0.003)	
Fluoride		1.4 - 2.4	0.33	0.26	0.45	0.39	
Lead		0.05	0.10	<0.029	0.030	0.028	
Mercury		0.002	ND(0.0002)	ND(0.0002)	ND(0.0001)	<0.0002	
Nitrate (as N)		10	0.061	0.025	ND(0.041)	0.13	
Selenium		0.01	0.005	ND(0.01)	<0.002	<0.002	
Silver		0.05	0.010	ND(0.018)	ND(0.005)	ND(0.004)	
Endrin		~~0.0002~~ (0.2 ug/l)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	
Lindane		~~0.004~~ (4.0 ug/l)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	
Methoxychlor		~~0.1~~ (100.0 ug/l)	ND(0.50)	ND(0.50)	ND(0.50)	ND(1.0)	
Toxaphene		~~0.005~~ (5.0 ug/l)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.5)	
2,4 - D		~~0.1~~ (100.0 ug/l)	ND(1.0)	ND(1.0)	ND(1.0)	1.1	
Silvex		~~0.01~~ (10.0 ug/l	ND(0.50)	ND(0.50)	ND(0.5)	0.52	
★ ~~Radium~~ TRITIUM		5 pCi/l	2000	<3000	ND(2000)	ND(2000)	
Gross Alpha		15 pCi/l	<5	17	<5	<5	
★★ Gross Beta		~~4 millirem/yr.~~	8	<8	<8	<8	
Turbidity		1/TU	N/A	N/A			
Coliform Bacteria		1/100 ml	ND(1/100 ml)	ND(1/100 ml)	No. colonies (<1/100 ml)	1800	
Chloride			560	540	52	48	
Iron			0.050	0.20	0.043	0.17	
Manganese			2.1	1.6	0.04	0.07	
Phenols			0.088	ND(0.010)	2.4	2.4	
Sodium			690	580	870	140	
Sulfate			2000	2100	340	240	
pH			7.8	7.7	8.2	8.0	
Spec. Cond.			5600	530	1430	1400	
TOC			410	410	10	130	
TOX			0.12	0.07	ND(0.05)	0.187	

RECEIVED
OCT 13 1983
ENVIRONMENTAL PROTECTION
STATE OF ILLINOIS

DMF:mad/2-3

*All results reported as mg/l unless otherwise noted

★★ REPORTED AS TRITIUM

★★★ Gross Beta Reported in pCi/l

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
RCRA GROUNDWATER MONITORING
Replicate Sample Results for Contamination Indicators

Facility: Sherwin Williams
Facility Inventory No.: 03165003
Upgradient Well - Well No. 1 A

Date Sampled: 3/30/83 G.W. Surface Elevation (MSL): ? 589.08

Parameters (*)	First Quarter Replicates (JAN-FEB-MARCH)				Mean	Variance
pH	7.7	7.6	7.7	8.0	7.75	0.03
Spec. Cond.	1300	1300	1200	1300	1275	2500
TOC	12	12	13	12	12.25	0.25
TOX	0.17	0.11	0.12	0.08	0.12	0.0014

Date Sampled: 6/16/83 G.W. Surface Elevation (MSL): ? 587.997

Parameters (*)	Second Quarter Replicates (APRIL-MAY-JUNE)				Mean	Variance
pH	7.9	7.9	8.0	7.9	7.925	0.0025
Spec. Cond.	1000	1000	1000	1000	1000	0
TOC	8	7	6	8	7.25	0.916
TOX	0.12	0.13	0.17	0.10	0.13	0.00087

Date Sampled: 9/21/82 G.W. Surface Elevation (MSL): 585.142

Parameters (*)	Third Quarter Replicates (JULY-AUG-SEPT)				Mean	Variance
pH	7.8	7.8	7.8	7.8	7.8	0
Spec. Cond.	3040	3040	3040	3070	3047.5	225
TOC	7	8	8	8	7.75	0.25
TOX	<0.05	<0.05	<0.05	<0.05	<0.05	0

Date Sampled: 11/24/82 G.W. Surface Elevation (MSL): 584.58

Parameters (*)	Fourth Quarter Replicates (OCT-NOV-DEC)				Mean	Variance
pH	7.7	7.7	7.7	7.7	7.7	0
Spec. Cond.	3100	3100	3100	3100	3100	0
TOC	4.9	4.9	4.9	4.9	4.9	0
TOX	0.067	0.074	0.057	0.046	0.061	0.00015

Groundwater surface elevations should be reported at mean sea level.
* Contamination indicators must be reported as four consecutive quarters without interruption.

*Report Parameters as following: pH (su) standard units
Spec. Cond. (umhos/cm)
TOC (mg/l)
TOX (ug/l)

RECEIVED
OCT 13 1983
STATE OF ILLINOIS

JP:mks:16/32

Well # 1 A
Upgradient

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SUBPART F GROUNDWATER MONITORING DATA

Inventory #: 03165003
Site: Co.:
Sherwin-Williams Cook

Date: Rev. by:

		First Quarter Jan-Feb-March	Second Quarter April-May-June	Third July-Aug-Sept	Fourth Oct-Nov.-Dec
	Monitor Pt.	MW 1A	MW 1A	MW 1A	MW 1A
	Collect. Date	3/23/83	6/13/83	9/21/82	11/24/82
	~~Surf. Elev.~~				
	~~Stick-up Ht.~~				
	~~Water Depth~~				
	*Grndwtr Surf. Elev	589.08	587.97	585.142	584.58
	~~Laboratory~~	ERG	ERG	ERG	ERG
Parameters*	Standards (mg/l)				
Arsenic	.05	0.005	0.08	<0.003	<0.01
Barium	1.0	<0.1	0.18	<1	<0.2
Cadmium	0.01	<0.004	0.03	0.052	0.006
Chromium	0.05	ND (0.009)	ND (0.005)	ND (0.003)	ND (0.003)
Fluoride	1.4 - 2.4	0.66	0.64	0.43	0.38
Lead	0.05	0.05	<0.029	0.076	0.052
Mercury	0.002	0.0003	ND (0.0002)	ND (0.0001)	ND (0.0002)
Nitrate (as N)	10	0.029	0.063	0.16	0.069
Selenium	0.01	<0.005	ND (0.01)	<0.005	<0.002
Silver	0.05	0.006	ND (0.018)	<0.005	ND (0.009)
Endrin	~~0.0002~~ (0.2 ug/l)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Lindane	~~0.004~~ (4.0 ug/l)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Methoxychlor	~~0.1~~ (100.0 ug/l)	ND (0.50)	ND (0.50)	ND (0.50)	ND (1.0)
Toxaphene	~~0.005~~ (5.0 ug/l)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.50)
2,4 - D	~~0.1~~ (100.0 ug/l)	ND (0.10)	ND (0.10)	ND (0.1)	0.37
Silvex	~~0.01~~ (10.0 ug/l	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
* ~~Radium~~ TRITIUM	5 pCi/l	ND (2000)	<3000	ND (2000)	ND (2000)
Gross Alpha	15 pCi/l	<5	<5	<5	<5
** Gross Beta	~~4 millirem/yr~~.	<8	<8	<8	<8
Turbidity	1/TU	N/A	N/A		
Coliform Bacteria	1/100 ml	ND (1/100 ml)	ND (1/100 ml)	No Colonies (<1/100 ml)	750
Chloride		82	70	140	130
Iron		0.026	0.083	1.1	3.2
Manganese		0.52	0.36	0.29	0.31
Phenols		0.035	<0.010	0.032	0.035
Sodium		88	78	200	140
Sulfate		160	130	1000	1800
pH					
Spec. Cond.					
TOC					
TOX					

RECEIVED
OCT 18 1983
STATE OF ILLINOIS

Report contamination indicators as replicates on attached form for upgradient well.

DMF:mad/2-3 * Report Groundwater surface elevations at mean sea level.

*All results reported as mg/l unless otherwise noted
** REPORTED AS TRITIUM
*** Gross Beta reported in pCi/l

APPENDIX E

Groundwater Contamination Indicators

		3/30/83	6/23/83	10/ /83	12/20/83	3/14/84	6/05/84	9/18/84
pH	1A	7.75	7.925	7.775	7.3		7.65	
	2A	7.8	7.7	7.75	7.475	7.3	7.5	
	8				7.4	7.7	7.5	7.775
	9				8.8	9.6	9.15	8.6
Spec Cond	1A	1275	1000	1225	1100		1100	
	2A	5600	530	422.5	5150	4400	5625	
	8				1500	1600	1600	1745
	9				1300	1200	1100	1177.5
TOC	1A	12.25	7	12.75	12.75		7.75	
	2A	410	410	350	390	440	432.5	
	8				26.5	29	28.25	23.5
	9				80	72	66.75	52.75
TOX	1A	120	130	47.5	40		72.5	
	2A	120	70	17.5	35	1200(2)	34.5	
	8				37.5	62	64	165
	9				90	70	170	230

RECEIVED
DEC 31 1984
IEPA-DLPC

APPENDIX F

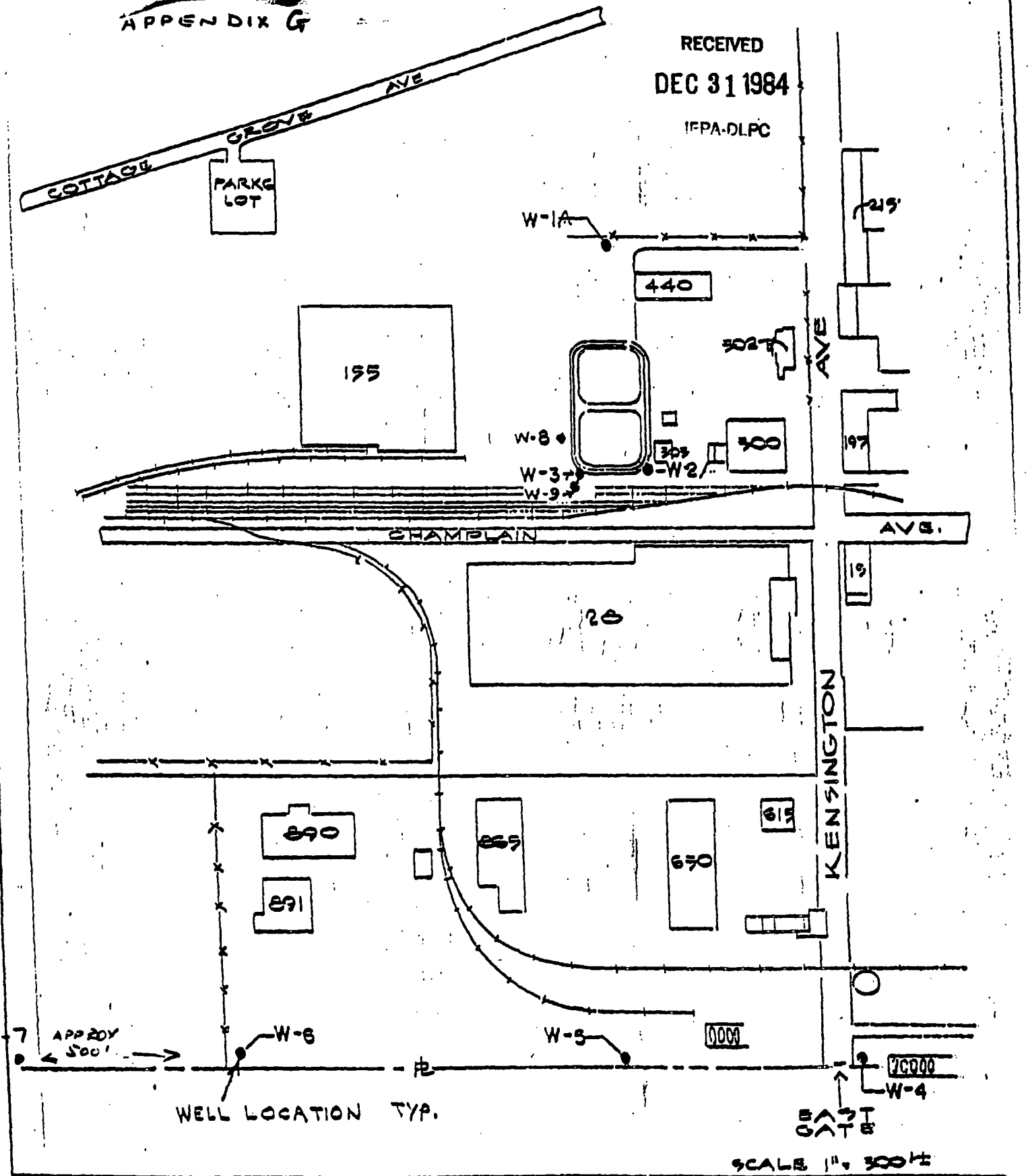
Groundwater Quality

		3/30/83	6/23/83	10/25/84	12/20/83	3/14/84	6/05/84	9/18/84	Avg
Chloride	1A	82	70	66	53				67.75
	2A	560	540	530	590				555.0
	8				34	62	39	48	45.75
	9				61	67	57	120	76.25
Iron	1A	0.026	0.083	0.41	.03				0.13725
	2A	0.05	0.20	1.0	1.4				0.6625
	8				0.16	0.095	1.4	0.15	0.45125
	9				1.4	0.095	0.6	0.16	0.56375
Manganese	1A	0.52	0.36	0.035	0.16				0.26875
	2A	2.1	1.6	1.1	1.1				1.475
	8				0.27	0.24	0.20	0.22	0.2325
	9				0.031	0.005	0.011	0.017	0.016
Phenolics	1A	0.035	0.010	0.04	.004				0.02225
	2A	0.088	ND (0.010)	0.04	0.02				0.0395
	8				0.054	0.028	0.02	0.017	0.02975
	9				0.62	0.36	0.880	0.39	0.5625
Sodium	1A	88	78	77	70				78.25
	2A	690	580	630	530				607.5
	8				98	100	120	110	107.0
	9				100	84	110	120	103.5
Sulfate	1A	160	130	64	150				126.0
	2A	2000	2100	1465	1900				1866.25
	8				180	240	360	440	305.0
	9				570	410	390	400	442.5

RECEIVED
DEC 31 1984
EPA-DLPC

APPENDIX G

RECEIVED
DEC 31 1984
IEPA-DLPC



SOIL BORING LOCATION DIAGRAM
GROUND WATER MONITORING WELL INSTALLATION
SHERWIN WILLIAMS CHEMICAL COMPANY
11541 S. CHAMPLAIN, CHICAGO, ILLINOIS

STS Consultants Ltd.
111 Pfingsten Road
Northbrook, Illinois 60062

APPR	MGS	12-7-1982	7782-1

APPENDIX H

Sherwin-Williams Company
Chemical Division
11541 S. Champlain AVe.
Chicago, IL. 60628

C.D. Baker

DATE: 8/4/83

APPROVED BY: Frank P. DeFranza, Mgr. ERG-Chicago

SAMPLE DATE: 6/23/83

SAMPLE IDENTIFICATION: # 4

PROJECT #: 2629

Results recorded in mg/l unless otherwise indicated.

DRINKING WATER STANDARDS

PARAMETER		ERG #: 18301
Arsenic		0.15
Barium		1.0
Cadmium		0.009
Chromium		<0.005
Flouride		.26
Lead		0.097
Mercury		0.0004
Nitrate, Nitrogen		.10
Selenium		ND(0.01)
Silver		ND(0.018)
Endrin	(µg/l)	ND(0.10)
Lindane	(µg/l)	ND(0.10)
Methoxychlor	(µg/l)	ND(.50)
Toxaphene	(µg/l)	ND(1.0)
2,4, D	(µg/l)	ND(0.10)
2,4,5 TP-Silvex	(µg/l)	ND(0.10)
Gross Alpha	(pCi/l)	<5
Gross Beta	(pCi/l)	<8
Tritium	(pCi/l)	<3000
Coliform Bacteria	(colonies/100 ml)	ND(3/100 mls)
Turbidity		N/A

GROUND WATER QUALITY

Chloride	460
Iron	23
Manganese	2.3
Total Phenolics	0.015
Sodium	420
Sulfate	1300

GROUND WATER CONTAMINATION INDICATORS

pH	1) 7.7
Specific Conductivity (µmhos @ 25°C)	1) 4200
Total Organic Carbon	1) 81
Total Organic Halogen	1) 0.16

RECEIVED
DEC 31 1984
IEPA-DLPC

APPENDIX 1

Sherwin-Williams Company
Chemical Division
11541 S. Champlain AVe.
Chicago, IL. 60628

C.D. Baker

DATE: 8/4/83

APPROVED BY: Frank P. DeFranza, Mgr. ERG-Chicago

SAMPLE DATE: 6/23/83

SAMPLE IDENTIFICATION: # 5

PROJECT #: 2629

Results recorded in mg/l unless otherwise indicated.

DRINKING WATER STANDARDS

PARAMETER		ERG #: 18302
Arsenic		0.15
Barium		0.50
Cadmium		0.008
Chromium		<0.005
Flouride		.34
Lead		0.071
Mercury		ND(0.0002)
Nitrate,Nitrogen		1.3
Selenium		ND(0.01)
Silver		ND(0.018)
Endrin	(µg/l)	ND(0.10)
Lindane	(µg/l)	ND(0.10)
Methoxychlor	(µg/l)	ND(.50)
Toxaphene	(µg/l)	ND(1.0)
2,4, D	(µg/l)	ND(0.10)
2,4,5 TP-Silvex	(µg/l)	ND(0.050)
Gross Alpha	(pCi/l)	<5
Gross Beta	(pCi/l)	<8
Tritium	(pCi/l)	<3000
Coliform Bacteria	(colonies/100 ml)	No count-obscured by solids
Turbidity		N/A

GROUND WATER QUALITY

Chloride	23
Iron	0.22
Manganese	0.16
Total Phenolics	0.097
Sodium	590
Sulfate	2000

GROUND WATER CONTAMINATION INDICATORS

pH	1) 8.1
Specific Conductivity (µmhos @ 25°C)	1) 3800
Total Organic Carbon	1) 190
Total Organic Halogen	1) ND(0.002)

RECEIVED
DEC 31 1984
IEPA-DLPC

TO: APPENDIX J

Sherwin-Williams Company
Chemical Division
11541 S. Champlain Ave.
Chicago, IL. 60628

C.D. Baker

DATE: 8/4/83

APPROVED BY: Frank P. DeFranza, Mgr. ERG-Chicago

SAMPLE DATE: 6/23/83

SAMPLE IDENTIFICATION: # 6

PROJECT #: 2629

Results recorded in mg/l unless otherwise indicated.

DRINKING WATER STANDARDS

PARAMETER		ERG #: 18303
Arsenic		0.035
Barium		0.64
Cadmium		0.005
Chromium		ND(0.005)
Flouride		.29
Lead		0.080
Mercury		0.0013
Nitrate,Nitrogen		.30
Selenium		ND(0.01)
Silver		ND(0.018)
Endrin	(µg/l)	ND(0.10)
Lindane	(µg/l)	ND(0.10)
Methoxychlor	(µg/l)	ND(.50)
Toxaphene	(µg/l)	ND(1.0)
2,4, D	(µg/l)	ND(0.10)
2,4,5 TP-Silvex	(µg/l)	ND(0.050)
Gross Alpha	(pCi/l)	<5
Gross Beta	(pCi/l)	21
Tritium	(pCi/l)	<3000
Coliform Bacteria	(colonies/100 ml)	ND(3/100 mls)
Turbidity		N/A

GROUND WATER QUALITY

Chloride	200
Iron	1.6
Manganese	0.58
Total Phenolics	0.012
Sodium	100
Sulfate	270

GROUND WATER CONTAMINATION INDICATORS

pH	1) 7.7
Specific Conductivity (µmhos @ 25°C)	1) 2200
Total Organic Carbon	1) 130
Total Organic Halogen	1) 0.69

RECEIVED
DEC 31 1984
USPA-DLPC

TO: APPENDIX K.

Sherwin-Williams Company
Chemical Division
11541 S. Champlain Ave.
Chicago, IL. 60628

C.D. Baker

DATE: 1/4/84

APPROVED BY: Frank P. DeFranza, Mgr. ERG-Chicago

SAMPLE DATE: 10/24/83

SAMPLE IDENTIFICATION: 7

PROJECT #: 2811

Results recorded in mg/l unless otherwise indicated.

DRINKING WATER STANDARDS

PARAMETER		ERG #:19746
Arsenic		<0.01
Barium		0.47
Cadmium		0.008
Chromium		0.006
Flouride		0.53
Lead		0.11
Mercury		<0.0002
Nitrate, Nitrogen		0.20
Selenium		<0.02
Silver		ND(0.08)
Endrin	(µg/l)	ND(0.10)
Lindane	(µg/l)	ND(0.10)
Methoxychlor	(µg/l)	ND(0.50)
Toxaphene	(µg/l)	ND(1.0)
2,4, D	(µg/l)	ND(0.50)
2,4,5 TP-Silvex	(µg/l)	ND(0.25)
Gross Alpha	(pCi/l)	27
Gross Beta	(pCi/l)	25
Tritium	(pCi/l)	ND(2000)
Coliform Bacteria	(colonies/100 ml)	<1/100 mls
Turbidity		29 NTU
GROUND WATER QUALITY		
Chloride		370
Iron		1.4
Manganese		0.84
Total Phenolics		0.016
Sodium		480
Sulfate		2400
GROUND WATER CONTAMINATION INDICATORS		
pH		8.0
Specific Conductivity (µmhos @ 25°C)		460
Total Organic Carbon		190
Total Organic Halogen		0.04

RECEIVED
DEC 31 1984
IEPA-DLPC

TO: APPENDIX H

Sherwin-Williams Company
Chemical Division
11541 S. Champlain AVe.
Chicago, IL. 60628

C.D. Baker

DATE: 8/4/83

APPROVED BY: Frank P. DeFranza, Mgr. ERG-Chicago

SAMPLE DATE: 6/23/83

SAMPLE IDENTIFICATION: # 4

PROJECT #: 2629

Results recorded in mg/l unless otherwise indicated.

DRINKING WATER STANDARDS

PARAMETER		ERG #: 18301
Arsenic		0.15
Barium		1.0
Cadmium		0.009
Chromium		<0.005
Flouride		.26
Lead		0.097
Mercury		0.0004
Nitrate,Nitrogen		.10
Selenium		ND(0.01)
Silver		ND(0.018)
Endrin	(µg/l)	ND(0.10)
Lindane	(µg/l)	ND(0.10)
Methoxychlor	(µg/l)	ND(.50)
Toxaphene	(µg/l)	ND(1.0)
2,4, D	(µg/l)	ND(0.10)
2,4,5 TP-Silvex	(µg/l)	ND(0.10)
Gross Alpha	(pCi/l)	<5
Gross Beta	(pCi/l)	<8
Tritium	(pCi/l)	<3000
Coliform Bacteria	(colonies/100 ml)	ND(3/100 mls)
Turbidity		N/A
GROUND WATER QUALITY		
Chloride		460
Iron		23
Manganese		2.3
Total Phenolics		0.015
Sodium		420
Sulfate		1300

GROUND WATER CONTAMINATION INDICATORS

pH	1) 7.7
Specific Conductivity (µmhos @ 25°C)	1) 4200
Total Organic Carbon	1) 81
Total Organic Halogen	1) 0.16

RECEIVED
DEC 31 1984
IEPA-DLPC

THE APPENDIX /

Sherwin-Williams Company
Chemical Division
11541 S. Champlain AVe.
Chicago, IL. 60628

C.D. Baker

DATE: 8/4/83

APPROVED BY: Frank P. DeFranza, Mgr. ERG-Chicago

SAMPLE DATE: 6/23/83

SAMPLE IDENTIFICATION: # 5

PROJECT #: 2629

Results recorded in mg/l unless otherwise indicated.

DRINKING WATER STANDARDS

PARAMETER		ERG #: 18302
Arsenic		0.15
Barium		0.50
Cadmium		0.008
Chromium		<0.005
Flouride		.34
Lead		0.071
Mercury		ND(0.0002)
Nitrate,Nitrogen		1.3
Selenium		ND(0.01)
Silver		ND(0.018)
Endrin	(µg/l)	ND(0.10)
Lindane	(µg/l)	ND(0.10)
Methoxychlor	(µg/l)	ND(.50)
Toxaphene	(µg/l)	ND(1.0)
2,4, D	(µg/l)	ND(0.10)
2,4,5 TP-Silvex	(µg/l)	ND(0.050)
Gross Alpha	(pCi/l)	<5
Gross Beta	(pCi/l)	<8
Tritium	(pCi/l)	<3000
Coliform Bacteria	(colonies/100 ml)	No count-obscured by solids
Turbidity		N/A

GROUND WATER QUALITY

Chloride	23
Iron	0.22
Manganese	0.16
Total Phenolics	0.097
Sodium	590
Sulfate	2000

GROUND WATER CONTAMINATION INDICATORS

pH	1) 8.1
Specific Conductivity (µmhos @ 25°C)	1) 3800
Total Organic Carbon	1) 190
Total Organic Halogen	1) ND(0.002)

RECEIVED
DEC 31 1984
IEPA-DLPC

TO: APPENDIX J

Sherwin-Williams Company
Chemical Division
11541 S. Champlain Ave.
Chicago, IL. 60628

C.D. Baker

DATE: 8/4/83

APPROVED BY: Frank P. DeFranza, Mgr. ERG-Chicago

SAMPLE DATE: 6/23/83

SAMPLE IDENTIFICATION: # 6

PROJECT #: 2629

Results recorded in mg/l unless otherwise indicated.

DRINKING WATER STANDARDS

PARAMETER		ERG #: 18303
Arsenic		0.035
Barium		0.64
Cadmium		0.005
Chromium		ND(0.005)
Flouride		.29
Lead		0.080
Mercury		0.0013
Nitrate,Nitrogen		.30
Selenium		ND(0.01)
Silver		ND(0.018)
Endrin	(µg/l)	ND(0.10)
Lindane	(µg/l)	ND(0.10)
Methoxychlor	(µg/l)	ND(.50)
Toxaphene	(µg/l)	ND(1.0)
2,4, D	(µg/l)	ND(0.10)
2,4,5 TP-Silvex	(µg/l)	ND(0.050)
Gross Alpha	(pCi/l)	<5
Gross Beta	(pCi/l)	21
Tritium	(pCi/l)	<3000
Coliform Bacteria	(colonies/100 ml)	ND(3/100 mls)
Turbidity		N/A

GROUND WATER QUALITY

Chloride	200
Iron	1.6
Manganese	0.58
Total Phenolics	0.012
Sodium	100
Sulfate	270

GROUND WATER CONTAMINATION INDICATORS

pH	1) 7.7
Specific Conductivity (µmhos @ 25°C)	1) 2200
Total Organic Carbon	1) 130
Total Organic Halogen	1) 0.69

RECEIVED
DEC 31 1984
IEPA-DLPC

TO: APPENDIX K.

Sherwin-Williams Company
Chemical Division
11541 S. Champlain Ave.
Chicago, IL. 60628

C.D. Baker

DATE: 1/4/84

APPROVED BY: Frank P. DeFranza, Mgr. ERG-Chicago

SAMPLE DATE: 10/24/83

SAMPLE IDENTIFICATION: 7

PROJECT #: 2811

Results recorded in mg/l unless otherwise indicated.

DRINKING WATER STANDARDS

PARAMETER		ERG #:19746
Arsenic		<0.01
Barium		0.47
Cadmium		0.008
Chromium		0.006
Flouride		0.53
Lead		0.11
Mercury		<0.0002
Nitrate, Nitrogen		0.20
Selenium		<0.02
Silver		ND(0.08)
Endrin	(µg/l)	ND(0.10)
Lindane	(µg/l)	ND(0.10)
Methoxychlor	(µg/l)	ND(0.50)
Toxaphene	(µg/l)	ND(1.0)
2,4, D	(µg/l)	ND(0.50)
2,4,5 TP-Silvex	(µg/l)	ND(0.25)
Gross Alpha	(pCi/l)	27
Gross Beta	(pCi/l)	25
Tritium	(pCi/l)	ND(2000)
Coliform Bacteria	(colonies/100 ml)	<1/100 mls
Turbidity		29 NTU
GROUND WATER QUALITY		
Chloride		370
Iron		1.4
Manganese		0.84
Total Phenolics		0.016
Sodium		480
Sulfate		2400
GROUND WATER CONTAMINATION INDICATORS		
pH		8.0
Specific Conductivity (µmhos @ 25°C)		460
Total Organic Carbon		190
Total Organic Halogen		0.04

RECEIVED
DEC 31 1984
IEPA-DLPC

ENVIRONMENTAL RESEARCH GROUP, INC.