



Waste Management of North America, Inc.  
Midwest District Office  
22180 West Nine Mile Road  
Southfield, Michigan 48034  
313/352-7840

October 9, 1985

Mr. Martin Schumacher  
U.S. Nuclear Regulatory Commission  
Region III  
799 Roosevelt Road  
Glen Ellyn, IL 60137

RE: Hartley & Hartley Facility; Kawkawlin, Michigan

Dear Mr. Schumacher:

Enclosed find monitoring results for the subject facility. These results are from our May, 1985 site sampling event and are provided upon your request.

I look forward to seeing you at the site for our November 4, 1985 sample event.

Very truly yours,

W. Jeff Passeno, P.E.  
District Engineer

WJP/lab

Enclosure

A/35

OCT 15 1985

# DATA MANAGEMENT SUMMARY REPORT (DM-OL) - All Parameters Tested, Samples Linked by Order

DATE: 05/29/1  
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Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	760	See Below
ETC Sample No.	Company	Facility	Sample Point Date

		Sample Points, Sampling Dates, and ETC Sample No's						
Parameters	Units	INS01 850502 H5496	INS02 850502 H5497	INS03 850502 H5498				
PP Pesticide Compounds								
Endrin (GC)	ug/l	x .1	x .1	x .1				
Toxaphene (GC)	ug/l	x 2.5	x 2.5	x 2.5				
PP Metals								
Arsenic	ug/l	3	2	17				
Cadmium	ug/l	8	8	12				
Chromium	ug/l	150	130	30				
Lead	ug/l	55	90	80				
Mercury	ug/l	x .5	x .5	x .5				
Selenium	ug/l	x 1	x 1	x 1				
Silver	ug/l	x 3	x 3	x 3				
Phenolics, Total	ug/l	1600	380	10				
GW Conventionals								
Chloride	mg/l	430	3000	2400				
Fluoride	mg/l	7.2	8.5	2.4				
Nitrate as N	mg/l	3.2	2.6	17.9				
Sulfate as SO4	mg/l	14	38	24				
Total Organic Halides (TOX)	ug/l	> 2000	160	170				
Total Organic Halides (TOX)	ug/l	-	150	200				
Total Organic Carbon	mg/l	280	150	95				
Total Organic Carbon	mg/l	270	150	96				
Gross Alpha	pCi/l	x 6.7	x 24	x 11				
Gross Beta	pCi/l	24	53	69				
Gross Beta	pCi/l	+/- 13	+/- 43	+/- 24				
Miscellaneous Parameters								
2,4,5-TP (Silvex)	ug/l	x 5	x 5	x 5				
2,4-D	ug/l	x 50	x 50	x 50				
Ammonia as N	mg/l	5.8	21	9.4				
Barium	ug/l	x 25	x 25	x 25				

# DATA MANAGEMENT SUMMARY REPORT (DM-OL) - All Parameters Tested, Samples Linked by Order

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Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No. WASTE MANAGEMENT, INC. Company 760 Facility See Below Sample Point Date

		Sample Points, Sampling Dates, and ETC Sample No.'s							
		011B 850502 H5452	011B 850503 H5470	MJ12 850501 H5453	MJ15 850501 H5454	MJ18 850502 H5455	MJ39 850501 H5456	MJ40 850501 H5457	MJ43 850501 H5458
Parameters	Units								
PP Pesticide Compounds									
Endrin (GC)	ug/l	1	-	1	1	1	1	1	1
Toxaphene (GC)	ug/l	2.5	-	2.5	2.5	2.5	2.5	2.5	2.5
PP Metals									
Arsenic	ug/l	3	-	1	4	1	1	1	1
Cadmium	ug/l	3	-	3	3	3	5	12	10
Chromium	ug/l	5	-	8	8	6	5	47	33
Lead	ug/l	12	-	32	33	30	22	83	72
Mercury	ug/l	5	-	5	5	5	5	5	5
Selenium	ug/l	1	-	2	1	2	1	2	1
Silver	ug/l	3	-	3	3	4	12	3	3
Phenolics, Total	ug/l	50	-	10	10	10	600	10	50
GW Conventional									
Chloride	mg/l	1.0	-	650	520	320	12	2700	2000
Fluoride	mg/l	1	-	2.7	2.9	1.5	1	44	2
Nitrate as N	mg/l	18	-	6	8	4	1	2.30	30
Sulfate as SO4	mg/l	1.0	-	2.0	2.0	1.0	2.0	1.5	2000
Total Organic Halides (TOX)	ug/l	19	-	20	38	20	33	170	-
Total Organic Halides (TOX)	ug/l	18	-	28	41	35	34	160	15
Total Organic Carbon	mg/l	3.6	-	12	12	10	9.6	140	14
Total Organic Carbon	mg/l	3.7	-	12	12	10	9.8	150	-
Gross Alpha	pCi/l	8	-	4.2	3.1	2.1	8	21	-
Gross Beta	pCi/l	7	-	8.6	12	13	2.9	68	-
Gross Beta	pCi/l	-	-	7	6	4.4	5	39	-
Miscellaneous Parameters									
2,4,5-TP (Silvex)	ug/l	5	-	5	5	5	5	5	5
2,4-D	ug/l	50	-	50	50	50	50	50	50
Ammonia as N	mg/l	.05	-	32	29	06	11	24	24
Barium	ug/l	17	-	17	17	21	17	770	17

# DATA MANAGEMENT SUMMARY REPORT

  
(DM-OL) - All Parameters Tested, Samples Linked by Order

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Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	760	See Below
ETC Sample No.	Company	Facility	Sample Point Date

		Sample Points, Sampling Dates, and ETC Sample No's							
Parameters	Units	MJ47 850502 H5459	MJ47N02 850502 H5461	MJ47N03 850502 H5462	MJ47P01 850502 H5460	SW17 850501 H5463	SW23 850501 H5464	SW25 850501 H5465	SW28 850501 H5466
<b>PP Pesticide Compounds</b>									
Endrin (GC)	ug/l	x .1	x .1	x .1	x .1	-	-	-	-
Toxaphene (GC)	ug/l	x 2.5	x 2.5	x 2.5	x 2.5	-	-	-	-
<b>PP Metals</b>									
Arsenic	ug/l	10	4	2	2	-	-	-	-
Cadmium	ug/l	9	12	8	6	-	-	-	-
Chromium	ug/l	52	28	88	50	x 8	x 8	x 8	x 8
Lead	ug/l	50	63	43	32	30	28	30	32
Mercury	ug/l	.5	.5	.5	.5	-	-	-	-
Selenium	ug/l	3	1	1	1	-	-	-	-
Silver	ug/l	x 3	x 3	x 3	x 3	x 10	x 10	x 10	x 10
Phenolics, Total	ug/l	200	10	10	10	-	-	-	-
<b>GW Conventionals</b>									
Chloride	mg/l	2300	1100	320	410	220	320	290	320
Fluoride	mg/l	40.2	2.4	3.4	13.7	-	-	-	-
Nitrate as N	mg/l	4.1	1.7	2.6	1.7	-	-	-	-
Sulfate as SO4	mg/l	5.0	62	26	8.0	-	-	-	-
Total Organic Halides (TOX)	ug/l	140	76	62	26	-	-	-	-
Total Organic Halides (TOX)	ug/l	230	62	40	48	-	-	-	-
Total Organic Carbon	mg/l	160	36	48	9.0	25	21	18	17
Total Organic Carbon	mg/l	160	36	47	9.1	24	21	16	17
Gross Alpha	pCi/l	x 21	x 8.4	x 4.8	x 3.7	-	-	-	-
Gross Beta	pCi/l	371	23	26	17	-	-	-	-
Gross Beta	pCi/l	+/- 55	+/- 16	+/- 10	+/- 7	-	-	-	-
<b>Miscellaneous Parameters</b>									
2,4,5-TP (Silvex)	ug/l	x 5	x 5	x 5	x 5	-	-	-	-
2,4-D	ug/l	x 50	x 50	x 50	x 50	-	-	-	-
Ammonia as N	mg/l	230	2.9	4.1	31	-	-	-	-
Barium	ug/l	17	17	17	17	-	-	-	-