→ HACO, Inc, Groundwater Monitoring file
FID# 114010820

HACCO, INC.

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January 18, 1999

Mr. Mark Gordon, P.E., Chief
Technical Resources Section
Bureau of Remediation and Redevelopment
Wisconsin Department of Natural Resources
P.O. Box 7921
Madison, WI 53707

RE: HACCO, Inc. Randolph, WI

October 1998 Groundwater Monitoring Electronic Data Package
FID# 114010820

Dear Mr. Gordon:

Enclosed please find the Groundwater Monitoring Data Certification form and a computer disk with the subject data. A copy of the form has also been sent to Ms. Cynde English and the Southern District office.

If you have any questions regarding the disk, please contact Ms. Karrianne Killian at Environmental Chemistry Consulting Services at 221-8700.

Very Truly Yours,

HACCO, Inc.

Richard D. Yabroff, P.E.
Environmental Manager

enclosures

cc: Cynde English, Southern District WDNR.

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QUALITY FORMULATION OF RODENTICIDES AND OTHER PRODUCTS

HACCO Quarterly October 1998
Summary of Data Exceeding WI NR140 Standards

Location	Parameter	Concentration	PAL	ES	Exceedance Type
MW-02A	BROMACIL	7.1			None
MW-02A	FENURON	0.84			None
MW-02A	MONURON	5.7			None
MW-02A	TEBUTHIURON	47			None
MW-02A	CHLOROFORM	0.52	0.6	6	None
MW-02A	TETRACHLOROETHENE	0.86	0.5	5	PAL
MW-03A	DIELDRIN	41			None
MW-03A	HEPTACHLOR	170	0.04	0.4	ES
MW-03A	GAMMA-BHC (LINDANE)	290	0.02	0.2	ES
MW-03A	METHOXYCHLOR	3500	4	40	ES
MW-03A	4,4'-DDD	2600			None
MW-03A	4,4'-DDT	8200			None
MW-03A	ENDOSULFAN I	1400			None
MW-03A	ENDOSULFAN II	590			None
MW-03A	ALPHA-CHLORDANE	580	0.2	2	ES
MW-03A	GAMMA-CHLORDANE	540	0.2	2	ES
MW-03A	DIAZINON	540			None
MW-03A	DISULFOTON	190			None
MW-03A	MALATHION	63			None
MW-03A	PHORATE	55			None
MW-03A	BROMACIL	85			None
MW-03A	MONURON	220			None
MW-03A	TEBUTHIURON	32			None
MW-03A	1,2,3-TRIMETHYLBENZENE	810			None
MW-03A	1,2,4-TRIMETHYLBENZENE	4200			None
MW-03A	1,3,5-TRIMETHYLBENZENE	1400			None
MW-03A	NAPHTHALENE	320	8	40	ES
MW-03A	ETHYLBENZENE	1500	140	700	ES
MW-03A	N-PROPYLBENZENE	410			None
MW-03A	ISOPROPYLBENZENE	210			None
MW-03A	XYLENE, -O	5300	124	620	ES
MW-03A	XYLENES, -M, -P	11000	124	620	ES
MW-03B	DIELDRIN	0.0056			None
MW-03B	GAMMA-BHC (LINDANE)	0.35	0.02	0.2	ES
MW-03B	4,4'-DDD	0.094			None
MW-03B	4,4'-DDT	0.034			None
MW-03B	ENDOSULFAN I	0.084			None
MW-03B	DISULFOTON	0.9			None
MW-03B	BROMACIL	3.5			None
MW-03B	FENURON	0.98			None
MW-03B	MONURON	36			None
MW-03B	TEBUTHIURON	6.5			None
MW-03B	1,2,4-TRIMETHYLBENZENE	130			None
MW-03B	1,3,5-TRIMETHYLBENZENE	130			None
MW-03B	NAPHTHALENE	12	8	40	PAL
MW-03B	BENZENE	2.9	0.5	5	PAL
MW-03B	CHLOROBENZENE	4			None
MW-03B	ETHYLBENZENE	370	140	700	PAL
MW-03B	N-PROPYLBENZENE	65			None
MW-03B	ISOPROPYLBENZENE	35			None
MW-03B	XYLENES, -M, -P	260	124	620	PAL
MW-04A	BROMACIL	1.1			None
MW-04A	FENURON	0.49			None
MW-04A	MONURON	17			None
MW-04A	TEBUTHIURON	12			None
MW-04A	ETHYLBENZENE	4	140	700	None

HACCO Quarterly October 1998
Summary of Data Exceeding WI NR140 Standards

Location	Parameter	Concentration	PAL	ES	Exceedance Type
MW-04A	ISOPROPYLBENZENE	0.61			None
MW-04A	XYLENE, -O	2.1	124	620	None
MW-04A	XYLENES, -M, -P	15	124	620	None
MW-05A	HEPTACHLOR	810	0.04	0.4	ES
MW-05A	GAMMA-BHC (LINDANE)	1900	0.02	0.2	ES
MW-05A	METHOXYCHLOR	28000	4	40	ES
MW-05A	4,4'-DDD	1000			None
MW-05A	4,4'-DDT	2000			None
MW-05A	ENDOSULFAN I	6800			None
MW-05A	ENDOSULFAN II	3000			None
MW-05A	ALPHA-CHLORDANE	2100	0.2	2	ES
MW-05A	GAMMA-CHLORDANE	2000	0.2	2	ES
MW-05A	DIAZINON	1500			None
MW-05A	DISULFOTON	1700			None
MW-05A	MALATHION	260			None
MW-05A	PHORATE	340			None
MW-05A	BROMACIL	140			None
MW-05A	MONURON	16			None
MW-05A	TEBUTHIURON	34			None
MW-05A	1,2,3-TRIMETHYLBENZENE	1500			None
MW-05A	1,2,4-TRIMETHYLBENZENE	8800			None
MW-05A	1,3,5-TRIMETHYLBENZENE	2700			None
MW-05A	NAPHTHALENE	270	8	40	ES
MW-05A	ETHYLBENZENE	760	140	700	ES
MW-05A	N-PROPYLBENZENE	580			None
MW-05A	ISOPROPYLBENZENE	230			None
MW-05A	XYLENE, -O	2400	124	620	ES
MW-05A	XYLENES, -M, -P	6300	124	620	ES
MW-05A DUP	HEPTACHLOR	590	0.04	0.4	ES
MW-05A DUP	GAMMA-BHC (LINDANE)	1400	0.02	0.2	ES
MW-05A DUP	METHOXYCHLOR	20000	4	40	ES
MW-05A DUP	4,4'-DDD	710			None
MW-05A DUP	4,4'-DDT	1400			None
MW-05A DUP	ENDOSULFAN I	4800			None
MW-05A DUP	ENDOSULFAN II	2200			None
MW-05A DUP	ALPHA-CHLORDANE	1500	0.2	2	ES
MW-05A DUP	GAMMA-CHLORDANE	1400	0.2	2	ES
MW-05A DUP	DIAZINON	1100			None
MW-05A DUP	DISULFOTON	1200			None
MW-05A DUP	PHORATE	250			None
MW-05A DUP	BROMACIL	140			None
MW-05A DUP	MONURON	17			None
MW-05A DUP	TEBUTHIURON	39			None
MW-05A DUP	1,2,3-TRIMETHYLBENZENE	1500			None
MW-05A DUP	1,2,4-TRIMETHYLBENZENE	8500			None
MW-05A DUP	1,3,5-TRIMETHYLBENZENE	2600			None
MW-05A DUP	NAPHTHALENE	280	8	40	ES
MW-05A DUP	ETHYLBENZENE	700	140	700	PAL
MW-05A DUP	N-PROPYLBENZENE	540			None
MW-05A DUP	ISOPROPYLBENZENE	220			None
MW-05A DUP	XYLENE, -O	2200	124	620	ES
MW-05A DUP	XYLENES, -M, -P	5800	124	620	ES
MW-08A	BROMACIL	71			None
MW-08A	MONURON	5.4			None
MW-08A	TEBUTHIURON	17			None
MW-09A	4,4'-DDD	0.0075			None

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Location	Parameter	Concentration	PAL	ES	Exceedance Type
MW-09A	4,4'-DDT	0.028			None
MW-09A	BROMACIL	3.9			None
MW-09A	FENURON	0.07			None
MW-09A	MONURON	4.3			None
MW-09A	TEBUTHIURON	14			None
MW-09A DUP	GAMMA-BHC (LINDANE)	0.022	0.02	0.2	PAL
MW-09A DUP	4,4'-DDD	0.011			None
MW-09A DUP	4,4'-DDT	0.039			None
MW-09A DUP	ENDOSULFAN II	0.007			None
MW-09A DUP	ALPHA-CHLORDANE	0.0056	0.2	2	None
MW-09A DUP	GAMMA-CHLORDANE	0.0093	0.2	2	None
MW-09A DUP	BROMACIL	5.2			None
MW-09A DUP	FENURON	0.076			None
MW-09A DUP	MONURON	4.7			None
MW-09A DUP	TEBUTHIURON	16			None
MW-10A	BROMACIL	7.5			None
MW-10A	FENURON	1.2			None
MW-10A	MONURON	23			None
MW-10A	TEBUTHIURON	100			None
MW-10A	1,3,5-TRIMETHYLBENZENE	8.5			None
MW-10A	ETHYLBENZENE	68	140	700	None
MW-10A	N-PROPYLBENZENE	17			None
MW-10A	ISOPROPYLBENZENE	22			None
MW-10A	XYLENE, -O	53	124	620	None
MW-10A	XYLENES, -M, -P	630	124	620	ES
MW-10B	BROMACIL	12			None
MW-10B	FENURON	2.7			None
MW-10B	MONURON	72			None
MW-10B	TEBUTHIURON	21			None
MW-10B	1,2,3-TRIMETHYLBENZENE	33			None
MW-10B	1,2,4-TRIMETHYLBENZENE	170			None
MW-10B	1,3,5-TRIMETHYLBENZENE	48			None
MW-10B	ETHYLBENZENE	1400	140	700	ES
MW-10B	N-PROPYLBENZENE	50			None
MW-10B	ISOPROPYLBENZENE	48			None
MW-10B	XYLENE, -O	300	124	620	PAL
MW-10B	XYLENES, -M, -P	4000	124	620	ES
MW-13A	4,4'-DDT	0.0055			None
MW-13A	ENDOSULFAN I	0.0051			None
MW-13A	BROMACIL	0.98			None
MW-13A	FENURON	0.08			None
MW-13A	MONURON	8.5			None
MW-13A	TEBUTHIURON	4.9			None
MW-14A	BROMACIL	15			None
MW-14A	MONURON	1.8			None
MW-14A	TEBUTHIURON	2.9			None
MW-15A	METHYLENE CHLORIDE	0.4	0.5	5	None
MW-15B	METHYLENE CHLORIDE	0.42	0.5	5	None
MW-16A	4,4'-DDT	0.016			None
MW-16A	MONURON	0.1			None
MW-16A	TEBUTHIURON	0.43			None
MW-18B	METHYLENE CHLORIDE	0.38	0.5	5	None
MW-20A	BROMACIL	8.8			None
MW-20A	FENURON	0.23			None
MW-20A	MONURON	8.8			None
MW-20A	TEBUTHIURON	24			None

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Location	Parameter	Concentration	PAL	ES	Exceedance Type
MW-20A	1,2,3-TRIMETHYLBENZENE	3.3			None
MW-20A	1,2,4-TRIMETHYLBENZENE	21			None
MW-20A	1,3,5-TRIMETHYLBENZENE	5.9			None
MW-20A	NAPHTHALENE	2.9	8	40	None
MW-20A	ETHYLBENZENE	11	140	700	None
MW-20A	N-PROPYLBENZENE	3			None
MW-20A	TETRACHLOROETHENE	0.56	0.5	5	PAL
MW-20A	ISOPROPYLBENZENE	2.1			None
MW-20A	XYLENE, -O	1.2	124	620	None
MW-20A	XYLENES, -M, -P	22	124	620	None
MW-20A DUP	BROMACIL	9.9			None
MW-20A DUP	MONURON	8.6			None
MW-20A DUP	TEBUTHIURON	22			None
MW-20A DUP	1,2,3-TRIMETHYLBENZENE	4.2			None
MW-20A DUP	1,2,4-TRIMETHYLBENZENE	27			None
MW-20A DUP	1,2-DICHLOROBENZENE	0.37	60	600	None
MW-20A DUP	1,3,5-TRIMETHYLBENZENE	7			None
MW-20A DUP	NAPHTHALENE	3.1	8	40	None
MW-20A DUP	ETHYLBENZENE	14	140	700	None
MW-20A DUP	N-PROPYLBENZENE	3.7			None
MW-20A DUP	TETRACHLOROETHENE	0.6	0.5	5	PAL
MW-20A DUP	CIS-1,2-DICHLOROETHENE	0.61	7	70	None
MW-20A DUP	ISOPROPYLBENZENE	2.6			None
MW-20A DUP	XYLENE, -O	1.5	124	620	None
MW-20A DUP	XYLENES, -M, -P	27	124	620	None
MW-21A	BROMACIL	9.8			None
MW-21A	FENURON	0.37			None
MW-21A	MONURON	100			None
MW-21A	TEBUTHIURON	28			None
MW-21A	1,2,4-TRIMETHYLBENZENE	6.1			None
MW-21A	1,3,5-TRIMETHYLBENZENE	1			None
MW-21A	1,1-DICHLOROETHANE	2.7	85	850	None
MW-21A	BENZENE	1.1	0.5	5	PAL
MW-21A	ETHYLBENZENE	22	140	700	None
MW-21A	METHYLENE CHLORIDE	0.52	0.5	5	PAL
MW-21A	N-PROPYLBENZENE	4.5			None
MW-21A	CIS-1,2-DICHLOROETHENE	2.6	7	70	None
MW-21A	ISOPROPYLBENZENE	5.2			None
MW-21A	XYLENES, -M, -P	8.3	124	620	None
MW-21B	BROMACIL	11			None
MW-21B	FENURON	0.32			None
MW-21B	MONURON	17			None
MW-21B	TEBUTHIURON	8			None
MW-21B	1,2,4-TRIMETHYLBENZENE	0.5			None
MW-21B	BENZENE	0.61	0.5	5	PAL
MW-21B	ETHYLBENZENE	1.2	140	700	None
MW-21B	METHYLENE CHLORIDE	0.47	0.5	5	None
MW-21B	N-PROPYLBENZENE	1.9			None
MW-21B	CIS-1,2-DICHLOROETHENE	0.77	7	70	None
MW-21B	ISOPROPYLBENZENE	3.6			None
MW-21B	XYLENES, -M, -P	1.1	124	620	None
MW-22A	BROMACIL	39			None
MW-22A	MONURON	4.7			None
MW-22A	TEBUTHIURON	6.9			None
MW-22A	METHYLENE CHLORIDE	0.39	0.5	5	None
PW-04	BROMACIL	0.88			None

HACCO Quarterly October 1998
Summary of Data Exceeding WI NR140 Standards

Location	Parameter	Concentration	PAL	ES	Exceedance Type
PW-04	MONURON	0.33			None
PW-04	TEBUTHIURON	0.72			None
PW-04 DUP	BROMACIL	0.66			None
PW-04 DUP	MONURON	0.32			None
PW-04 DUP	TEBUTHIURON	1.3			None