



P.O. Box 7545 • Madison, Wisconsin 53707 • 608/241-4471

A Division of Ralston Purina Company

REPORT

SEP 15 1981

DAVE STENSBY  
STATE OF WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES  
BOX 7921  
MADISON, WI 53707

RT LAB NO. 882779

ENTERED 07/31/81

REPORTED 09/11/81

SOIL SAMPLE: FIELD #6 *RIDGE & FURROW*

PURCHASE ORDER NUMBER NFB 93483

MISC. ENV. ANALYSIS

	(MCG/G)
NITROBENZENE	4.68
2-NITROTOLUENE	4.62
2,6-DINITROTOLUENE	4.90
2,4-DINITROTOLUENE	4.88
2,4,6-TRINITROTOLUENE	4.70
1,3,5-TRINITROBENZENE	2.48

METHOD: USATHAMA # ANIL-50-30

*ARMY Toxic & Hazardous Materials Agency ABERDEEN PROVING GRDE*

METHOD REFERENCES

MISC. ENV. ANALYSIS  
METHOD LISTED ABOVE WITH RESULTS



P.O. Box 7545 • Madison, Wisconsin 53707 • 608/241-4471

A Division of Ralston Purina Company

REPORT

SEP 15 1981

DAVE STENSBY  
STATE OF WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES  
BOX 7921  
MADISON, WI 53707

RT LAB NO. 882778

ENTERED 07/31/81

REPORTED 09/11/81

SOIL SAMPLE: FIELD #4

*BERM AREA  
TMX PRODUCTION ?*

PURCHASE ORDER NUMBER NRB 93483

MISC. ENV. ANALYSIS

	(MCG/G)
NITROBENZENE	4.64
2-NITROTOLUENE	4.72
2,6-DINITROTOLUENE	4.80
2,4-DINITROTOLUENE	6.60
2,4,6-TRINITROTOLUENE	5110
1,3,5-TRINITROBENZENE	6.12*

\*THE LARGE 2,4,6-TRINITROTOLUENE VALUE INTERFERES WITH THE 1,3,5-TRINITROBENZENE PEAK, MAKING IT APPEAR AS A SHOULDER.

METHOD: USATHAMA # ANIL-50-30

METHOD REFERENCES

MISC. ENV. ANALYSIS  
METHOD LISTED ABOVE WITH RESULTS

To: Barry O'Flanagan NWD Spooner

86

LAKE SUPERIOR

463534090341601 LAKE SUPERIOR AT MADIGAN BEACH NEAR ODANAH, WI

LOCATION.--LAT 46°35'34", LONG 90°34'16", IN NE 1/4 SE 1/4 SEC.35, T.48 N., R.2 W., ASHLAND COUNTY, HYDROLOGIC UNIT 04010301, IN SOUTHWEST PART OF LAKE SUPERIOR, 6 MI (10 KM) SOUTHEAST OF ODANAH.

PERIOD OF RECORD.--AUGUST TO SEPTEMBER 1978.

REMARKS.--BEACH MATERIAL SAMPLE COLLECTED AT EDGE OF WATER. WATER SAMPLE COLLECTED 50 FT (15 M) FROM EDGE OF WATER.

WATER-QUALITY DATA, AUGUST TO SEPTEMBER 1978

SURFACE BEACH MATERIAL

DATE	TIME	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	NITRO- GEN, NITRIT- E TOT IN BOT MAT (MG/KG AS N)	NITRO- GEN, NO2+NO3 TOT. IN HOT MAT (MG/KG AS N)	NITRO- GEN+NH4 TOTAL IN HOT MAT. (MG/KG AS N)	NITRO- GEN+NH4 + ORG. TOT IN HOT MAT. (MG/KG AS N)	PHOS- PHORUS, TOTAL IN ROT. MAT. (MG/KG AS P)
AUG * 1978								
01...	1340	21.5	100	.0	.9	.9	140	75

RECEIVED

SEP 17 1978

Northwest District  
Headquarters

LAKE SAMPLE

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT
SEP * 1978												
20...	1305	110	8.1	15.0	7.0	9.4	40	0	10	3.6	1.6	N

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CUNSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
SEP * 1978											
20...	.1	.5	45	3.0	1.5	.0	2.2	66	49	.09	.24

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN+NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS- SOLVED TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
SEP * 1978											
20...	.02	.00	.00	.00	.00	.24	1.1	.01	.00	3.4	.2

From: Water Resources Data for Wisconsin Water Year 1978  
U.S. Dept of the Interior, Geological Survey

463534090341601 LAKE SUPERIOR AT MADIGAN BEACH NEAR ODANAH, WI--CONTINUED

WATER-QUALITY DATA, AUGUST TO SEPTEMBER 1978

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDD TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDD RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CU)	CADMIUM SUS- PENDD RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	
SEP . 1978	2R...	1305	1	0	1	0	0	0	2	2	0

DATE	TIME	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDD RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDD RECOV- ERABLE (UG/L AS CU)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDD RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
SEP . 1978	2R...	20	20	0	4	3	1	4	3	1	170

DATE	TIME	IRON, SUS- PENDD RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PR)	LEAD, SUS- PENDD RECOV- ERABLE (UG/L AS PR)	LEAD, DIS- SOLVED (UG/L AS PR)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDD RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDD RECOV- ERABLE (UG/L AS HG)
SEP . 1978	2R...	170	0	4	4	10	10	0	<.5	.0	

DATE	TIME	MERURY DIS- SOLVED (UG/L AS HG)	SELF- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELF- NIUM, SUS- PENDD RECOV- ERABLE (UG/L AS SF)	SELF- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, SUS- PENDD RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDD RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
SEP . 1978	2R...	<.5	0	0	0	0	0	0	10	10	0

463533090341701 MADIGAN BEACH BLUFF NEAR ODANAH, WI

LOCATION.--LAT 46°35'33", LONG 90°34'17", IN NE 1/4 SE 1/4 SEC.35, T.48 N., R.2 W., ASHLAND COUNTY, HYDROLOGIC UNIT 04010301, ABOUT 100 FT (30 M) SOUTHWEST OF LAKE SUPERIOR, 6 MI (10 KM) SOUTHEAST OF ODANAH.

PERIOD OF RECORD.--AUGUST 1978.

REMARKS.--BLUFF SAMPLED AT SURFACE.

WATER-QUALITY DATA, AUGUST 1978

DATE	TIME	NITRO- GEN, NITRITE TOT IN BOT MAT (MG/KG AS N)	NITRO- GEN, NO2+NO3 TOT IN BOT MAT (MG/KG AS N)	NITRO- GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N)	NITRO- GEN,NH4 + UMG. TOT IN BOT MAT (MG/KG AS N)	PHOS- PHORUS, TOTAL IN BOT. MAT. (MG/KG AS P)	
AUG . 1978	01...	1340	.0	.4	1.3	760	390