431910094473601 Local number 98-33-07 CBAB

Sand and gravel aquifers (glaciated regions)
Pleistocene Series

Emmet County, IA

LOCATION.--Lat 43°19′10″, long 94°47′36″ referenced to North American Datum of 1927, in NE ¼ NW ¼ SW ¼ sec.7, T.98 N., R.33 W., Emmet County, IA, Hydrologic Unit 07100002.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1984, 1988, 1991, 2006.

COOPERATION.--Samples were collected by the U.S. Geological Survey and analyzed by the University of Iowa State Hygienic Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 7

[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Turbidity, water, unfltrd lab, NTU (82079)	pH, area weighted average std units (90400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)
Jun 21...	24	7.6	1,400	690	180	57.0	3.60	75.0	370	1.1	.47	24.0	400

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 7

[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Organic nitrogen, water, fltrd, mg/L (00607)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphate, water, unfltrd mg/L (00650)	Organic carbon, water, unfltrd mg/L (00680)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)
Jun 21...	1,040	6	1.4	1.20	<.050	.70	<.020	.030	2.1	<.10	<.01	M	<.1

431910094473601 Local number 98-33-07 CBAB—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 3 of 7
[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Beryll-ium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chrom-ium, water, fltrd, ug/L (01030)	Copper, water, fltrd, ug/L (01040)	Cyanide water unfltrd mg/L (00720)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan-ese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Selen-ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)
Jun													
21...	<.0	M	<.0	<.01	<.01	<.010	M	<.0	M	<.00	<.05	<.01	<.01

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 4 of 7
[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Stront-ium, water, fltrd, ug/L (01080)	Thall-ium, water, fltrd, ug/L (01057)	Zinc, suspnd sedimnt recover -able, ug/L (01091)	2,4,5-T water unfltrd ug/L (39740)	2,4-D water unfltrd ug/L (39730)	2,4-DB water unfltrd ug/L (30219)	CIAT, water, unfltrd ug/L (75981)	CEAT, water, unfltrd ug/L (75980)	Aceto-chlor, water, unfltrd ug/L (49259)	Aci-fluor-fen, water unfltrd ug/L (79193)	Ala-chlor, water, unfltrd ug/L (77825)	Ametryn water unfltrd ug/L (82184)	Atra-zine, water, unfltrd ug/L (39630)
Jun													
21...	M	<.0	<.02	<.20	<1.00	<1.0	<.1	<.1	<.050	<.20	<.1	<.1	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 5 of 7
[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Ben-tazon, water, unfltrd ug/L (38710)	Broma-cil, water, unfltrd ug/L (30234)	Brom-oxynil, water, fltrd 0.7u GF ug/L (49311)	Buta-chlor, water, unfltrd ug/L (30235)	Butyl-ate, water, unfltrd ug/L (30236)	Car-baryl, water, unfltrd ug/L (39750)	Carbo-furan, water, unfltrd ug/L (82615)	Chlor-amben, water, unfltrd ug/L (82051)	Cloma-zone, water, fltrd, ug/L (50344)	Cyana-zine, water, unfltrd ug/L (81757)	DCPA, water, unfltrd ug/L (39770)	Dicamba water unfltrd ug/L (82052)	Di-chlor-prop, water, unfltrd ug/L (30190)
Jun													
21...	<1.0	<.1	<.20	<.1	<.1	<.05	<.05	<.50	<.050	<.1	<.20	<.50	<1.0

431910094473601 Local number 98-33-07 CBAB—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 6 of 7
[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Dimethenamid water, fltrd, ug/L (61588)	Dinoseb water unfltrd ug/L (30191)	EPTC, water, unfltrd ug/L (81894)	Metolachlor, water, unfltrd ug/L (39356)	Metribuzin, water unfltrd ug/L (81408)	Pendimethalin, water unfltrd ug/L (79190)	Pentachlorophenol, water, unfltrd ug/L (39032)	Picloram water unfltrd ug/L (39720)	Prometon, water, unfltrd ug/L (39056)	Propachlor, water, unfltrd ug/L (77729)	Propazine, water, unfltrd ug/L (39024)	Silvex, water, unfltrd ug/L (39760)	Simazine, water, unfltrd ug/L (39055)
Jun													
21...	<.05	<.50	<.05	<.05	<.05	<.05	<.50	<.50	<.1	<.05	<.1	<.20	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 7 of 7
[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Triallate, water, fltrd 0.7u GF ug/L (82678)	Triclopyr, water, unfltrd ug/L (04092)	Trifluralin, water, unfltrd ug/L (39030)	Gross alpha radioac water, fltrd, U-nat, pCi/L (01515)	Gross beta radioac water, fltrd, Cs-137, pCi/L (03515)	Ra-226, water, fltrd, pCi/L (09503)	Ra-228, water, fltrd, pCi/L (81366)
Jun							
21...	<.050	<.20	<.1	2.6	5.9	<.60	2