Water-Data Report 2009

420922096514401 Local number 25N 5E 8ADDD1 CNBRLUSCR1 W-18

Alluvial aquifers
Loess

Wayne County, NE

LOCATION.--Lat 42°09'22.39", long 96°51'44.46" referenced to North American Datum of 1983, in SE ¼ SE ¼ NE ¼ sec.8, T.25 N., R.5 E., Wayne County, NE, Hydrologic Unit 10220004.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 39 ft. Upper casing diameter 2 in; top of first opening 34 ft, bottom of last opening 39 ft.

DATUM.--Land-surface datum is 1,442 ft above National Geodetic Vertical Datum of 1929. Measuring point: TOP OF CASING ABOVE LSD, 3 ft above land-surface datum, Sep. 26, 2002, to present.

PERIOD OF RECORD.--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 1 of 13
[Remark codes: <, less than; E, estimated.]

Date	Time	Barometric pressure, mm Hg (00025)	Depth to water level below LSD, meters (30210)	Depth to water level, feet below LSD (72019)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Flow rate, instantaneous gal/min (00059)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unf lab, µS/cm @ 25 degC (90095)	Specific conductance, wat unf µS/cm @ 25 degC (00095)	Temperature, water, deg C (00010)	Altitude of land surface feet (72000)
May													
28...	1200	720	7.30	23.94	4.3	44	.25	7.1	7.2	1,020	1,010	14.1	1,442

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 2 of 13
[Remark codes: <, less than; E, estimated.]

Date	Depth of well, feet below LSD (72008)	Pump or flow period prior to sampling, minutes (72004)	Sampling depth, feet (00003)	alpha-HCH-d6, surrog, Sch2003 wat flt percent recovry (99995)	Diazinon-d10 surrog, Sch2003 wat flt percent recovry (99994)	Purpose site visit, code (50280)	Sample purpose code (71999)
May							
28...	39.00	51	36.0	90.9	91.8	Temporal char GW	NAWQA

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 3 of 13
[Remark codes: <, less than; E, estimated.]

Date	Sampler type, code (84164)	Sampling condition, code (72006)	Sampling method, code (82398)	Dissolved solids dried @ 180degC wat flt mg/L (70300)	Dissolved solids, sum of constituents, mg/L (70301)	Dissolved solids, water, tons/ acre-ft (70303)	Hardness, water, mg/L as CaCO3 (00900)
May							
28...	Sbmrsbl gear pump	Pumping	Sbmrsbl gear pump	663	656	.90	430

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 4 of 13
[Remark codes: <, less than; E, estimated.]

Date	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium fraction of cations percent (00932)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inf tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt infl pt titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Hydrogen ion, water, unfltrd calcd, mg/L (00191)
May													
28...	20	125	28.2	14.5	1.0	18	46.5	408	498	.06	8.39	.60	.00008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 5 of 13
[Remark codes: <, less than; E, estimated.]

Date	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)	Total nitrogen, wat flt by analysis, mg/L (62854)	Aluminum, water, fltrd, µg/L (01106)	Barium, water, fltrd, µg/L (01005)	Beryllium, water, fltrd, µg/L (01010)	Cadmium water, fltrd, µg/L (01025)	Chromium, water, fltrd, µg/L (01030)
May													
28...	37.1	25.8	<.020	28.1	<.002	.070	.023	28.2	<4.0	409	<.02	.02	11.0

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 6 of 13
[Remark codes: <, less than; E, estimated.]

Date	Cobalt water, fltrd, µg/L (01035)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lithium water, fltrd, µg/L (01130)	Mangan-ese, water, fltrd, µg/L (01056)	Molyb-denum, water, fltrd, µg/L (01060)	Nickel, water, fltrd, µg/L (01065)	Silver, water, fltrd, µg/L (01075)	Stront-ium, water, fltrd, µg/L (01080)	Thall-ium, water, fltrd, µg/L (01057)	Vana-dium, water, fltrd, µg/L (01085)	Zinc, water, fltrd, µg/L (01090)
May													
28...	.07	<1.0	6	<.06	82.3	.2	2.1	1.1	<.008	592	<.04	.36	<2.0

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 7 of 13
[Remark codes: <, less than; E, estimated.]

Date	Anti-mony, water, fltrd, µg/L (01095)	Arsenic water, fltrd, µg/L (01000)	Boron, water, fltrd, µg/L (01020)	Selen-ium, water, fltrd, µg/L (01145)	1-Naph-thol, water, fltrd 0.7µ GF µg/L (49295)	2,6-Di-ethyl-aniline water, fltrd 0.7µ GF µg/L (82660)	2Chloro -2',6'-diethyl acet-anilide wat flt µg/L (61618)	CIAT, water, fltrd, µg/L (04040)	2-Ethyl-6-methyl-aniline wat flt µg/L (61620)	3,4-Di-chloro-aniline water, fltrd, µg/L (61625)	3,5-Di-chloro-aniline water, fltrd, µg/L (61627)	4-Chloro-2-methyl-phenol, wat flt µg/L (61633)	Aceto-chlor, water, fltrd, µg/L (49260)
May													
28...	.13	.42	162	15.0	<.04	<.006	<.010	<.014	<.010	<.004	<.004	<.005	<.010

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 8 of 13
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Date	Ala-chlor, water, fltrd, µg/L (46342)	alpha-Endo-sulfan, water, fltrd, µg/L (34362)	Atra-zine, water, fltrd, µg/L (39632)	Azin-phos-methyl oxon, water, fltrd, µg/L (61635)	Azin-phos-methyl, water, fltrd 0.7µ GF µg/L (82686)	Ben-flur-alin, water, fltrd 0.7µ GF µg/L (82673)	Car-baryl, water, fltrd 0.7µ GF µg/L (82680)	Carbo-furan, water, fltrd 0.7µ GF µg/L (82674)	Chlor-pyrifos oxon, water, fltrd, µg/L (61636)	Chlor-pyrifos water, fltrd, µg/L (38933)	cis-Per-methrin water fltrd 0.7µ GF µg/L (82687)	cis-Propi-cona-zole, water, fltrd, µg/L (79846)	Cyana-zine, water, fltrd, µg/L (04041)
May													
28...	<.008	<.006	<.007	<.04	<.120	<.014	<.200	<.060	<.05	<.010	<.014	<.006	<.040

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 9 of 13
[Remark codes: <, less than; E, estimated.]

Date	Cyflu-thrin, water, fltrd, µg/L (61585)	Cyper-methrin water, fltrd, µg/L (61586)	DCPA, water, fltrd 0.7µ GF µg/L (82682)	Desulf-inyl-fipro-nil amide, wat flt µg/L (62169)	Desulf-inyl-fipro-nil, water, fltrd, µg/L (62170)	Diazi-non, water, fltrd, µg/L (39572)	Di-chlor-vos, water, fltrd, µg/L (38775)	Dicro-tophos, water, fltrd, µg/L (38454)	Diel-drin, water, fltrd, µg/L (39381)	Dimeth-oate, water, fltrd 0.7µ GF µg/L (82662)	Disulf-oton sulfone water, fltrd, µg/L (61640)	Disul-foton, water, fltrd 0.7µ GF µg/L (82677)	Endo-sulfan sulfate water, fltrd, µg/L (61590)
May													
28...	<.016	<.020	<.006	<.029	<.012	<.005	<.02	<.08	<.009	<.006	<.01	<.04	<.022

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 10 of 13
[Remark codes: <, less than; E, estimated.]

Date	EPTC, water, fltrd 0.7µ GF µg/L (82668)	Ethion monoxon water, fltrd, µg/L (61644)	Ethion, water, fltrd, µg/L (82346)	Etho-prop, water, fltrd 0.7µ GF µg/L (82672)	Fenami-phos sulfone water, fltrd, µg/L (61645)	Fenami-phos sulf-oxide, water, fltrd, µg/L (61646)	Fenami-phos, water, fltrd, µg/L (61591)	Fipro-nil sulfide water, fltrd, µg/L (62167)	Fipro-nil sulfone water, fltrd, µg/L (62168)	Fipro-nil, water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexa-zinone, water, fltrd, µg/L (04025)	Ipro-dione, water, fltrd, µg/L (61593)
May													
28...	<.002	<.02	<.012	<.016	<.053	<.08	<.03	<.013	<.024	<.040	<.010	<.008	<.014

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 11 of 13
[Remark codes: <, less than; E, estimated.]

Date	Isofen-phos, water, fltrd, µg/L (61594)	lambda-Cyhalo-thrin, water, fltrd, µg/L (61595)	Mala-oxon, water, fltrd, µg/L (61652)	Mala-thion, water, fltrd, µg/L (39532)	Meta-laxyl, water, fltrd, µg/L (61596)	Methid-athion, water, fltrd, µg/L (61598)	Methyl para-oxon, water, fltrd, µg/L (61664)	Methyl para-thion, water, fltrd 0.7µ GF µg/L (82667)	Metola-chlor, water, fltrd, µg/L (39415)	Metri-buzin, water, fltrd, µg/L (82630)	Moli-nate, water, fltrd 0.7µ GF µg/L (82671)	Myclo-butanil water, fltrd, µg/L (61599)	Oxy-fluor-fen, water, fltrd, µg/L (61600)
May													
28...	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	E.004	<.016	<.002	<.010	<.006

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 12 of 13
[Remark codes: <, less than; E, estimated.]

Date	Pendimethalin, water, fltrd 0.7µ GF µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water, fltrd 0.7µ GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet water, fltrd, µg/L (61601)	Prometon, water, fltrd, µg/L (04037)	Prometryn, water, fltrd, µg/L (04036)	Propanil, water, fltrd 0.7µ GF µg/L (82679)	Propargite, water, fltrd 0.7µ GF µg/L (82685)	Propyzamide, water, fltrd 0.7µ GF µg/L (82676)	Simazine, water, fltrd, µg/L (04035)	Tebuthiuron water, fltrd 0.7µ GF µg/L (82670)	Tefluthrin, water, fltrd, µg/L (61606)
May													
28...	<.012	<.03	<.020	<.05	<.200	<.01	<.006	<.014	<.02	<.004	<.010	<.02	<.010

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 13 of 13
[Remark codes: <, less than; E, estimated.]

Date	Terbufos oxon sulfone water, fltrd, µg/L (61674)	Terbufos, water, fltrd 0.7µ GF µg/L (82675)	Terbuthylazine, water, fltrd, µg/L (04022)	Thiobencarb water, fltrd 0.7µ GF µg/L (82681)	trans-Propiconazole, water, fltrd, µg/L (79847)	Tribuphos, water, fltrd, µg/L (61610)	Trifluralin, water, fltrd 0.7µ GF µg/L (82661)	Uranium natural water, fltrd, µg/L (22703)
May								
28...	<.04	<.02	<.01	<.016	<.02	<.035	<.012	75.5