



Water-Data Report 2011

344615086272201 Local number EHR-LUS31

Undefined Aquifer
Fort Payne Chert/formation

Madison County, AL

LOCATION.--Lat 34°46'14.7", long 86°27'21.9" referenced to North American Datum of 1983, in SW ¼ SW ¼ SE ¼ sec.18, T.3 S., R.2 E., Madison County, AL, Hydrologic Unit 06030002.

WATER-QUALITY RECORDS

WATER-QUALITY DATA

WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

[CaCO₃, calcium carbonate; ; nm, nanometers; N, nitrogen; NTRU, nephelometric turbidity ratio unit; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; <, less than]

Date	Sample start time	Temperature, water, °C (00010)	Temperature, air, °C (00020)	Specific conductance, water, unfiltered, μS/cm at 25 °C (00095)	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Hydrogen ion, water, unfiltered, calculated, mg/L (00191)	Carbon dioxide, water, unfiltered, mg/L (00405)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)
04-19-2011	1600	19.0	25.1	71	6.1	4.8	.01597	62	2

Date	Sample start time	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as CaCO ₃ (39086)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Organic nitrogen, water, filtered, mg/L (00607)	Ammonia, water, filtered, mg/L as N (00608)	Nitrite, water, filtered, mg/L as N (00613)	Nitrate, water, filtered, mg/L as N (00618)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Ammonia, water, filtered, mg/L as NH ₄ (71846)
04-19-2011	1600	2	.5	< .16	< .010	< .0010	4.29	4.29	< .013

344615086272201 Local number EHR-LUS31—Continued

WATER-QUALITY DATA**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

[P, phosphorus; mg/L, milligrams per liter; <, less than; U, analyzed for but not detected]

Date	Sample start time	Nitrate, water, filtered, mg/L (71851)	Nitrite, water, filtered, mg/L (71856)	Hydrogen sulfide, water, unfiltered, mg/L (71875)	Orthophos- phate, water, filtered, mg/L (00660)	Orthophos- phate, water, filtered, mg/L as P (00671)	Total nitrogen, water, analytically determined, mg/L (62854)	Bromide, water, filtered, mg/L (71870)
04-19-2011	1600	19.0	< .003	U	.023	.00741	4.44	.0166

344615086272201 Local number EHR-LUS31—Continued

PESTICIDE ANALYSES
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

[µg/L, micrograms per liter; <, less than; E, estimated]

Date	Terbutyl-	Hexa-	Simazine,	Prometryn,	Prometon,	2-Chloro-4-	Cyanazine,	Fonofos,	Chlor-	Dieldrin,
	azine, water, filtered, recover- able, µg/L (04022)	zinone, water, filtered, recover- able, µg/L (04025)	water, filtered, recover- able, µg/L (04035)	water, filtered, recover- able, µg/L (04036)	water, filtered, recover- able, µg/L (04037)	isopropyl- amino-6- amino-s- triazine, water, filtered, recover- able, µg/L (04040)	water, filtered, recover- able, µg/L (04041)	water, filtered, recover- able, µg/L (04095)	pyrifos, water, filtered, recover- able, µg/L (38933)	water, filtered, recover- able, µg/L (39381)
04-19-2011	< .0060	< .008	.0257	< .006	< .012	E .0582	< .022	< .0048	< .0036	< .008

Date	Metola-	Malathion,	Diazinon,	Atrazine,	Alachlor,	Aceto-	Metri-	2,6-	Trifluralin,	Phorate,
	chlor, water, filtered, recover- able, µg/L (39415)	water, filtered, recover- able, µg/L (39532)	water, filtered, recover- able, µg/L (39572)	water, filtered, recover- able, µg/L (39632)	water, filtered, recover- able, µg/L (46342)	chlor, water, filtered, recover- able, µg/L (49260)	buzin, water, filtered, recover- able, µg/L (82630)	Diethyl- aniline, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82660)	water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82661)	water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82664)
04-19-2011	< .020	< .016	< .0060	.0371	< .008	< .010	< .012	< .0060	.0024	< .020

Date	Methyl	EPTC,	Tebu-	Molinate,	Ethoprop,	Benfluralin,	Carbofuran,	Terbufos,	Propyz-
	parathion, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82667)	water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82668)	thiuron, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82670)	water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82671)	water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82672)	water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82673)	water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82674)	water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82675)	amide, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82676)
04-19-2011	< .008	< .0056	< .028	< .0040	< .016	< .014	< .060	< .018	< .0036

344615086272201 Local number EHR-LUS31—Continued

PESTICIDE ANALYSES
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

[µg/L, micrograms per liter; <, less than]

Date	Disulfoton, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82677)	Propanil, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82679)	Carbaryl, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82680)	Thioben- carb, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82681)	DCPA, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82682)	Pendi- methalin, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82683)	Propargite, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82685)	Azinphos- methyl, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82686)	cis- Permeth- rin, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82687)	1- Naphthol, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49295)
04-19-2011	< .040	< .010	< .06	< .016	< .0076	< .012	< .020	< .12	< .010	< .036

Date	2-Chloro- 2',6'- diethyl- acetanil- ide, water, filtered, recover- able, µg/L (61618)	2-Ethyl-6- methyl- aniline, water, filtered, recover- able, µg/L (61620)	3,4- Dichloro- aniline, water, filtered, recover- able, µg/L (61625)	3,5-Di- chloro- aniline, water, filtered, recover- able, µg/L (61627)	4-Chloro-2- methyl- phenol, water, filtered, recover- able, µg/L (61633)	alpha- Endo- sulfan, water, filtered, recover- able, µg/L (34362)	Azinphos- methyl oxygen analog, water, filtered, recover- able, µg/L (61635)	Chlorpyrifos oxygen analog, water, filtered, recoverable, µg/L (61636)	cis- Propicon- azole, water, filtered, recover- able, µg/L (79846)	Cyfluthrin, water, filtered, recover- able, µg/L (61585)
04-19-2011	< .010	< .010	< .0042	< .0040	< .0046	< .006	< .042	< .06	< .008	< .016

Date	lambda- Cyhalo- thrin, water, filtered, recover- able, µg/L (61595)	Cyper- methrin, water, filtered, recover- able, µg/L (61586)	Desulfiny- fipronil, water, filtered, recover- able, µg/L (62170)	Dicroto- phos, water, filtered, recover- able, µg/L (38454)	Dimetho- ate, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82662)	Disulfoton sulfone, water, filtered, recover- able, µg/L (61640)	Endosulfan sulfate, water, filtered, recover- able, µg/L (61590)	Ethion monoxon, water, filtered, recover- able, µg/L (61644)	Ethion, water, filtered, recover- able, µg/L (82346)	Fenami- phos sulfone, water, filtered, recover- able, µg/L (61645)
04-19-2011	< .010	< .020	< .012	< .08	< .006	< .014	< .016	< .021	< .008	< .054

PESTICIDE ANALYSES
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

[µg/L, micrograms per liter; <, less than]

Date	Fenami-phos sulfoxide, water, filtered, recoverable, µg/L (61646)	Fenami-phos, water, filtered, recoverable, µg/L (61591)	Desulfinyl-fipronil amide, water, filtered, recoverable, µg/L (62169)	Fipronil sulfide, water, filtered, recoverable, µg/L (62167)	Fipronil sulfone, water, filtered, recoverable, µg/L (62168)	Fipronil, water, filtered, recoverable, µg/L (62166)	Iprodione, water, filtered, recoverable, µg/L (61593)	Isofen-phos, water, filtered, recoverable, µg/L (61594)	Malaoxon, water, filtered, recoverable, µg/L (61652)	Metalaxyl, water, filtered, recoverable, µg/L (61596)
04-19-2011	< .08	< .030	< .029	< .012	< .024	< .018	< .014	< .006	< .022	< .014

Date	Methidathion, water, filtered, recoverable, µg/L (61598)	Methyl paraoxon, water, filtered, recoverable, µg/L (61664)	Myclobutanil, water, filtered, recoverable, µg/L (61599)	Oxyfluorfen, water, filtered, recoverable, µg/L (61600)	Phorate oxygen analog, water, filtered, recoverable, µg/L (61666)	Phosmet oxygen analog, water, filtered, recoverable, µg/L (61668)	Phosmet, water, filtered, recoverable, µg/L (61601)	Tefluthrin, water, filtered, recoverable, µg/L (61606)	Terbufos oxygen analog sulfone, water, filtered, recoverable, µg/L (61674)	trans-Propiconazole, water, filtered, recoverable, µg/L (79847)
04-19-2011	< .012	< .014	< .010	< .006	< .027	< .0511	< .014	< .010	< .045	< .010

Date	Tribuphos, water, filtered, recoverable, µg/L (61610)	Dichlorvos, water, filtered, recoverable, µg/L (38775)
04-19-2011	< .018	< .04