Water-Data Report 2011

345547089243101 Local number G0136 MARSHALL

Mississippi embayment aquifer system
Sparta Sand

Marshall County, MS

LOCATION.--Lat 34°55′47″, long 89°24′31″ referenced to North American Datum of 1983, in NE ¼ NW ¼ NE ¼ sec.9, T.2 S., R.2 W., Marshall County, MS, Hydrologic Unit 08010210, Chickasaw Meridian.

WATER-QUALITY RECORDS

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

[NTRU, nephelometric turbidity ratio unit; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Depth to water level, ft below land surface (72019)	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conduc-tance, water, unfiltered, µS/cm at 25 °C (00095)	Tempera-ture, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Depth of well, feet below land surface datum (72008)
03-16-2011	**1430**	768	25.69	8.6	5.4	130	18.6	20	38.00

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

[$CaCO_3$, calcium carbonate; mg/L, milligrams per liter; °C, degrees Celsius]

Date	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Calcium, water, filtered, mg/L (00915)	Magne-sium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as $CaCO_3$ (39086)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)	Bromide, water, filtered, mg/L (71870)	Carbon dioxide, water, unfiltered, mg/L (00405)
03-16-2011	98	8.35	4.17	2.26	4.77	9	11	.02	68.9

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 345547089243101, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/345547089243101.2011.pdf

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[N, nitrogen; SiO_2, silicon dioxide; mg/L, milligrams per liter; <, less than; U, analyzed for but not detected]

Date	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Hydrogen sulfide, water, unfiltered, mg/L (71875)	Silica, water, filtered, mg/L as SiO_2 (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)	Dissolved nitrogen gas, water, unfiltered, milligrams per liter (00597)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)
03-16-2011	14.9	< .04	U	15.4	2.29	< .010	16.82	5.62	< .001

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[P, phosphorus; mg/L, milligrams per liter; µg/L, micrograms per liter]

Date	Orthophosphate, water, filtered, mg/L as P (00671)	Total nitrogen, water, filtered, analytically determined, mg/L (62854)	Aluminum, water, filtered, µg/L (01106)	Barium, water, filtered, µg/L (01005)	Beryllium, water, filtered, µg/L (01010)	Cadmium, water, filtered, µg/L (01025)	Chromium, water, filtered, µg/L (01030)	Cobalt, water, filtered, µg/L (01035)	Copper, water, filtered, µg/L (01040)
03-16-2011	.005	5.70	5.0	136	.05	.08	.42	8.3	.69

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[µg/L, micrograms per liter; <, less than]

Date	Iron, water, filtered, µg/L (01046)	Lead, water, filtered, µg/L (01049)	Lithium, water, filtered, µg/L (01130)	Manganese, water, filtered, µg/L (01056)	Molybdenum, water, filtered, µg/L (01060)	Nickel, water, filtered, µg/L (01065)	Silver, water, filtered, µg/L (01075)	Strontium, water, filtered, µg/L (01080)	Thallium, water, filtered, µg/L (01057)
03-16-2011	5	< .01	.6	414	.02	6.2	< .01	131	.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[µg/L, micrograms per liter; <, less than]

Date	Vanadium, water, filtered, µg/L (01085)	Zinc, water, filtered, µg/L (01090)	Antimony, water, filtered, µg/L (01095)	Argon, water, unfiltered, milligrams per liter (82043)	Arsenic, water, filtered, µg/L (01000)	Boron, water, filtered, µg/L (01020)	Selenium, water, filtered, µg/L (01145)
03-16-2011	< .08	7.2	< .03	.6296	.02	5	.18

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[µg/L, micrograms per liter; <, less than; E, estimated]

Date	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49295)	2,4-D methyl ester, water, filtered, recoverable, µg/L (50470)	2,4-D, water, filtered, recoverable, µg/L (39732)	2,4-DB, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (38746)	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82660)	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, µg/L (61618)	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, µg/L (04040)	2-Chloro-6-ethylamino-4-amino-s-triazine, water, filtered, recoverable, µg/L (04038)	2,4-D plus 2,4-D methyl ester, sum on a molar basis, micrograms per liter as 2,4-D (66496)
03-16-2011	< .036	< .200	< .06	< .02	< .006	< .010	E .046	< .06	< .06

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[µg/L, micrograms per liter; <, less than; E, estimated]

Date	2-Ethyl-6-methylaniline, water, filtered, recoverable, µg/L (61620)	2-Hydroxy-4-isopropylamino-6-ethylamino-s-triazine, water, filtered, recoverable, µg/L (50355)	3,4-Dichloroaniline, water, filtered, recoverable, µg/L (61625)	3,5-Dichloroaniline, water, filtered, recoverable, µg/L (61627)	3-Hydroxy carbofuran, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49308)	4-Chloro-2-methylphenol, water, filtered, recoverable, µg/L (61633)	Acetochlor, water, filtered, recoverable, µg/L (49260)	Acifluorfen, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49315)	Alachlor, water, filtered, recoverable, µg/L (46342)
03-16-2011	< .010	.018	< .004	< .004	< .040	< .005	< .010	E .192	< .008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[µg/L, micrograms per liter; <, less than]

Date	Aldicarb sulfone, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49313)	Aldicarb sulfoxide, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49314)	Aldicarb, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49312)	alpha-Endosulfan, water, filtered, recoverable, µg/L (34362)	Atrazine, water, filtered, recoverable, µg/L (39632)	Azinphos-methyl oxygen analog, water, filtered, recoverable, µg/L (61635)	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82686)	Bendiocarb, water, filtered, recoverable, µg/L (50299)	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82673)
03-16-2011	< .08	< .060	< .12	< .006	.024	< .04	< .120	< .04	< .014

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[µg/L, micrograms per liter; <, less than]

Date	Benomyl, water, filtered, recoverable, µg/L (50300)	Bensulfuron-methyl, water, filtered, recoverable, µg/L (61693)	Bentazon, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (38711)	Bromacil, water, filtered, recoverable, µg/L (04029)	Bromoxynil, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49311)	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49310)	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82680)	Carbofuran, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49309)	Carbofuran, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82674)
03-16-2011	< .060	< .06	< .06	< .06	< .12	< .04	< .060	< .040	< .060

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[µg/L, micrograms per liter; <, less than]

Date	Chloramben methyl ester, water, filtered, recoverable, µg/L (61188)	Chlorimuron-ethyl, water, filtered, recoverable, µg/L (50306)	Chlorpyrifos oxygen analog, water, filtered, recoverable, µg/L (61636)	Chlorpyrifos, water, filtered, recoverable, µg/L (38933)	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82687)	cis-Propiconazole, water, filtered, recoverable, µg/L (79846)	Clopyralid, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49305)	Cyanazine, water, filtered, recoverable, µg/L (04041)	Cycloate, water, filtered, recoverable, µg/L (04031)
03-16-2011	< .10	< .080	< .06	< .004	< .010	< .008	< .06	< .022	< .04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[µg/L, micrograms per liter; <, less than]

Date	Cyfluthrin, water, filtered, recoverable, µg/L (61585)	Cypermethrin, water, filtered, recoverable, µg/L (61586)	Dacthal monoacid, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49304)	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82682)	Desulfinylfipronil amide, water, filtered, recoverable, µg/L (62169)	Desulfinylfipronil, water, filtered, recoverable, µg/L (62170)	Diazinon, water, filtered, recoverable, µg/L (39572)	Dicamba, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (38442)	Dichlorprop, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49302)
03-16-2011	< .016	< .020	< .04	< .008	< .029	< .012	< .006	< .04	< .04

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[µg/L, micrograms per liter; <, less than]

Date	Dichlorvos, water, filtered, recoverable, µg/L (38775)	Dicrotophos, water, filtered, recoverable, µg/L (38454)	Dieldrin, water, filtered, recoverable, µg/L (39381)	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82662)	Dinoseb, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49301)	Diphenamid, water, filtered, recoverable, µg/L (04033)	Disulfoton sulfone, water, filtered, recoverable, µg/L (61640)	Disulfoton, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82677)	Diuron, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49300)
03-16-2011	< .04	< .08	< .008	< .006	< .04	< .04	< .01	< .04	< .04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[µg/L, micrograms per liter; <, less than]

Date	Endosulfan sulfate, water, filtered, recoverable, µg/L (61590)	EPTC, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82668)	Ethion monoxon, water, filtered, recoverable, µg/L (61644)	Ethion, water, filtered, recoverable, µg/L (82346)	Ethoprop, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82672)	Fenamiphos sulfone, water, filtered, recoverable, µg/L (61645)	Fenamiphos sulfoxide, water, filtered, recoverable, µg/L (61646)	Fenamiphos, water, filtered, recoverable, µg/L (61591)	Fenuron, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49297)
03-16-2011	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .06

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[µg/L, micrograms per liter; <, less than; E, estimated]

Date	Fipronil sulfide, water, filtered, recoverable, µg/L (62167)	Fipronil sulfone, water, filtered, recoverable, µg/L (62168)	Fipronil, water, filtered, recoverable, µg/L (62166)	Flumetsulam, water, filtered, recoverable, µg/L (61694)	Fluometuron, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (38811)	Fonofos, water, filtered, recoverable, µg/L (04095)	Hexazinone, water, filtered, recoverable, µg/L (04025)	Imazaquin, water, filtered, recoverable, µg/L (50356)	Imazethapyr, water, filtered, recoverable, µg/L (50407)
03-16-2011	< .012	< .024	< .018	< .06	.07	< .005	< .008	E .06	< .06

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[µg/L, micrograms per liter; <, less than]

Date	Imidacloprid, water, filtered, recoverable, µg/L (61695)	Iprodione, water, filtered, recoverable, µg/L (61593)	Isofenphos, water, filtered, recoverable, µg/L (61594)	lambda-Cyhalothrin, water, filtered, recoverable, µg/L (61595)	Linuron, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (38478)	Malaoxon, water, filtered, recoverable, µg/L (61652)	Malathion, water, filtered, recoverable, µg/L (39532)	MCPA, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (38482)	MCPB, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (38487)
03-16-2011	< .060	< .014	< .006	< .010	< .04	< .022	< .016	< .04	< .20

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[µg/L, micrograms per liter; <, less than]

Date	Metalaxyl, water, filtered, recoverable, µg/L (50359)	Metalaxyl, water, filtered, recoverable, µg/L (61596)	Methidathion, water, filtered, recoverable, µg/L (61598)	Methiocarb, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (38501)	Methomyl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49296)	Methyl paraoxon, water, filtered, recoverable, µg/L (61664)	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82667)	Metolachlor, water, filtered, recoverable, µg/L (39415)	Metribuzin, water, filtered, recoverable, µg/L (82630)
03-16-2011	< .04	< .014	< .012	< .040	< .120	< .01	< .008	.075	< .012

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[µg/L, micrograms per liter; <, less than]

Date	Metsulfuron-methyl, water, filtered, recoverable, µg/L (61697)	Molinate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82671)	Myclobutanil, water, filtered, recoverable, µg/L (61599)	N-(4-Chlorophenyl)-N'-methylurea, water, filtered, recoverable, µg/L (61692)	Neburon, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49294)	Nicosulfuron, water, filtered, recoverable, µg/L (50364)	Norflurazon, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49293)	Oryzalin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49292)	Oxamyl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (38866)
03-16-2011	< .14	< .004	< .010	< .06	< .02	< .10	.09	< .04	< .12

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[µg/L, micrograms per liter; <, less than]

Date	Oxy-fluorfen, water, filtered, recover-able, µg/L (61600)	Pendi-methalin, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (82683)	Phorate oxygen analog, water, filtered, recover-able, µg/L (61666)	Phorate, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (82664)	Phosmet oxygen analog, water, filtered, recover-able, µg/L (61668)	Phosmet, water, filtered, recover-able, µg/L (61601)	Picloram, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (49291)	Prometon, water, filtered, recover-able, µg/L (04037)	Prometryn, water, filtered, recover-able, µg/L (04036)
03-16-2011	< .006	< .012	< .03	< .020	< .05	< .140	< .12	< .012	< .006

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[µg/L, micrograms per liter; <, less than]

Date	Propanil, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (82679)	Propargite, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (82685)	Propham, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (49236)	Propicon-azole, water, filtered, recover-able, µg/L (50471)	Propoxur, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (38538)	Propyz-amide, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (82676)	Siduron, water, filtered, recover-able, µg/L (38548)	Simazine, water, filtered, recover-able, µg/L (04035)	Sulfo-meturon-methyl, water, filtered, recover-able, µg/L (50337)
03-16-2011	< .010	< .02	< .040	< .04	< .060	< .004	< .04	< .006	< .060

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[µg/L, micrograms per liter; <, less than]

Date	Tebu-thiuron, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (82670)	Tefluthrin, water, filtered, recover-able, µg/L (61606)	Terbacil, water, filtered, recover-able, µg/L (04032)	Terbufos oxygen analog sulfone, water, filtered, recover-able, µg/L (61674)	Terbufos, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (82675)	Terbuthyl-azine, water, filtered, recover-able, µg/L (04022)	Thioben-carb, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (82681)	trans-Propicon-azole, water, filtered, recover-able, µg/L (79847)	Tribuphos, water, filtered, recover-able, µg/L (61610)
03-16-2011	< .03	< .010	< .040	< .04	< .02	< .01	< .016	< .01	< .018

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than]

Date	Triclopyr, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (49235)	Trifluralin, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (82661)	Caffeine, water, filtered, recover-able, µg/L (50305)	Methane, water, unfiltered, recoverable, milligrams per liter (85574)	Organic carbon, water, filtered, mg/L (00681)	Tritium, water, unfiltered, picocuries per liter (07000)	Uranium (natural), water, filtered, µg/L (22703)
03-16-2011	< .08	.006	< .080	.0000	.6	7.7	.01

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
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Date	Sample start time	Sulfur hexafluoride, water, unfiltered, recoverable, femtograms per kilogram (63149)
03-16-2011	**1431**	84.1
03-16-2011	**1432**	80.7