# GROUND WATER RESOURCES

# Of JACKSON COUNTY, MISSISSIPPI

**By**

**Lindsey Stewart**

Open-File Report 286

Mississippi Department of Environmental Quality
Office of Geology
In Cooperation with the Office of Land and Water Resources

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State Geologist

August 2017
Updated June 2019

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This Report Prepared Under the Supervision of James H. Hoffmann, RPG




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# Acknowledgments

Over the years there have been many who helped collect field information used in this report. There are far too many to list here, but the author would like to give a sincere thank you to all of those who did participate in the collection of data. One person that must be mentioned though is Jo F. Everett who, as being the author's field partner for many years, was integral in the collection of field data and co-authored several previous reports from which much of the data in this report was derived. James H. Hoffmann was indispensable in advising on the content of the report and making helpful suggestions on the presentation of the data. The author is grateful for the contributions made by John C. Marble, Jo F. Everett, and James E. Starnes in mapping the surface geology of Jackson County; without their input the Surface Geology Map of Jackson County would not have been possible. Pat A. Phillips and John V. Banks graciously reviewed and edited the report and made helpful comments. Michael B. E. Bograd was the State Geologist when this report was initiated but retired before its completion. Dr. David T. Dockery III assumed the responsibilities of State Geologist following Michael's retirement, and the author would like to thank David for his continued support of the project, and for facilitating the publication of the report. Special thanks to Kay Whittington, the head of the Office of Land and Water Resources, for allowing the author to undertake a project of this magnitude and for providing the necessary resources to accomplish the work.

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# Section I

# Ground Water Resources of Jackson County, Mississippi

# Ground Water Resources of Jackson County

## Introduction

Jackson County is located in Southeast Mississippi on the Mississippi Gulf Coast and is one of the most important industrial areas in the state. The availability of water resources in the county has been a major topic of interest for many years, and there have been many reports published on the subject. Two of the earlier reports by Brown, et al (1944) and Harvey, et al (1965) discussed the geology and ground water resources in detail and are the foundation for this report. The reports by Brown and Harvey were excellent reports at the time, but they had limited geological information, which made it difficult to fully understand the ground water resources of the area. The availability of additional surface and subsurface data has greatly improved our understanding of the geology of Jackson County and has made it possible to subdivide the aquifer system into individual aquifer intervals. This has allowed us to relate the water levels and water quality information from one well to the next, and to improve our ability to predict the availability of ground water at a given location. This report presents the current interpretation of the geology and ground water resources of the county, and it provides detailed information, both recent and historic, on the water levels and water quality for the aquifers presently in use.

## Surface Geology of Jackson County

General Discussion:

The surface geology of Jackson County can be divided into four parts: the alluvium of the Pascagoula and Escatawpa Rivers and their tributaries, river terraces, coastal terraces, and uplands. The uplands include the Graham Ferry and Pascagoula Formations. Both formations were deposited in very similar environments, and there is very little difference in appearance or composition between the two. Subdivision of these formations is based on geologic age, which is supported by fossil evidence. The Graham Ferry is Pliocene in age, while the Pascagoula Formation is late Miocene. Brown, et al (1944) mapped these formations together as undifferentiated Graham Ferry and Pascagoula, noting the difficulty of dividing these units. Harvey, et al (1965) mapped the Graham Ferry along the stream valleys on the west side of the Pascagoula River, but he did not recognize the formation on the east side of the river nor did he map any Pascagoula in Jackson County. In this report, on Plate 1, the Graham Ferry Formation is shown in grey and is present at the surface in the

northwestern part of the county and in a few places along the Mississippi and Alabama state line. The Pascagoula Formation, mapped in a rose color, is exposed on the slopes of the terrace capped hills in the northeastern part of the county. The presence of these formations was field verified, and a detailed report is given in *The Surface Geology of Jackson County* Open-File Report 285 by Stewart and Starnes (2017). The Graham Ferry and Pascagoula Formations dip into the subsurface and are unconformably overlain by alluvium and terraces to the south. The alluvium and terrace deposits can easily be distinguished from the uplands by topography alone. Surfaces of the alluvium and terrace deposits are characterized by a flat to gently sloping topography, while the surfaces of the Graham Ferry and Pascagoula Formations are more rugged and hilly. Brown divided the terraces in Jackson County into the Pamlico Sand, Low Terrace, High Terrace, and the Citronelle Formation. The Pamlico and the Low Terrace were mapped along the coast and along the lower reaches of the Pascagoula and Escatawpa Rivers. The terraces that occur at higher elevations in the northeastern part of the county were mapped as High Terrace, and those in the northwestern part of the county were mapped as the Citronelle Formation. Brown differentiated between the High Terrace and Citronelle based on topography. Harvey mapped the Pamlico and (Low) Terrace very much like Brown, but he included all the high terraces east and west of the Pascagoula River in the Citronelle Formation, assuming that it would act as one hydrologic unit. He also included much of the area mapped by Brown as Graham Ferry and Pascagoula undifferentiated with the Citronelle. Marble and Crellin (1995 unpublished maps) found that the Graham Ferry Formation was at the surface over most of the area in the northwestern part of Jackson County, with a few residual terraces on the highest hill tops. Marble concluded that much of the area mapped as Citronelle by Harvey was weathered Graham Ferry. To better understand the terraces in Jackson County, Stewart, Everett, and Marble (1995) subdivided the terraces based on the elevations at which they occurred and mapped them as individual units. It was noted that the terraces in Jackson County were very similar in elevation to the terraces of Cooke (1965). Cooke began delineating the terraces on the Atlantic Coast in the early 1920's while working with the United States Geological Survey (USGS) and continued mapping these terraces around the Florida peninsula, and into the Gulf Coast area. He concluded that the terraces in the Gulf Coast area were equivalent to the terraces on the Atlantic coast. Figure 1 provides a comparison of the terraces in this report to those of Brown, Harvey, and Cooke.

Alluvium:

The Pascagoula River Basin is a very prominent feature in Jackson County, having a broad alluvial plain that divides the county east and west. This basin was formed by erosion and downcutting of the Pascagoula River into the underlying formations during the latter part of the Pleistocene when sea levels were much lower than today. After being eroded, a subsequent sea level rise submerged the basin, and sediment deposited from the Pascagoula River flowing into the bay formed the broad flat alluvial plain that is seen today. The basin is a little over five miles wide in the northern part of the county, and the alluvium in that area has a thickness of about 60 feet. The Escatawpa River has a smaller basin that

trends north to south on the east side of the county, and it flows into the Pascagoula River from the east, just north of Moss Point. Both rivers have changed courses over the years. They once entered the Gulf to the east of the City of Pascagoula and formed Grand Bay and Grand Batture Islands which are mapped as marsh on Plate 1. Meander scrolls of the abandoned course of Pascagoula River are evident north of the town of Escatawpa. Red Creek is another major tributary of the Pascagoula River. It has a general northwest to southeast flow into the Pascagoula River Basin just south of the northern boundary of Jackson County. Red Creek is incised into the underlying Graham Ferry and Pascagoula Formations and forms the northern limit of the Graham Ferry in Jackson and George Counties. Several other smaller tributaries flow into the Pascagoula or Escatawpa basins and their associated alluvium is mapped as such. Streams in the western part of the county are much younger than the Pascagoula and Escatawpa Rivers and have much smaller basins. These rivers flow directly into Biloxi Bay.

River Terraces:

The terraces that parallel the Pascagoula and Escatawpa Rivers were deposited in the same way the broad flat plain of the Pascagoula River Basin was formed. These terraces have been given local names that relate to the locations where flat benches occur. From the lowest to the highest, these terraces and their elevations are: Wade at 50 feet, Big Point at 70 feet, Hurley at 100 feet, Harleston at 130 feet, and Movella at 150 feet (all elevations are relative to mean sea level - msl). Each successive higher terrace is an older terrace with the Movella terrace being the highest and the oldest in the study area. As would be expected, the older terraces are typically more eroded than the younger terraces and are more difficult to delineate. The terraces are relatively thin, typically no more than 30 feet thick in most places. Contacts between the terraces are typically masked by colluvium deposited on the slopes of the eroded surface between the upper terrace and lower terrace. This gives a gentler appearance of the transition from one terrace to another. A scarp separating the Hurley and Big Point Terraces has been preserved, however, and is located between the communities of Wade and Hurley on Highway 614. The land surface at the base of the scarp is very flat with an elevation of 45 to 50 feet, and the topography at the top of the scarp is also flat with an elevation of about 70 feet. The difference in elevation between the terraces, and the fact that there is a scarp separating them, is an indication that they were deposited by different stream systems and are not equivalent to one another. Even though the contacts between some of the other terraces are not as definitive as the one between the Wade and Big Point Terraces, each terrace was deposited in the same way and each should be regarded as an individual mapping unit.

Coastal Terraces:

The coastal terraces were formed in much the same way as the river terraces, but they parallel the coast and were deposited in a near shore coastal environment. These terraces and their elevations, from the lowest to the highest are: Pamlico at 25 feet, Big

Ridge at 50 feet, and Good Hope at 70 to 100 Feet. The Pamlico Terrace, as mapped here, includes the interval below an elevation of 30 feet. A flat bench typically occurs at an elevation of 25 feet on the Pamlico surface, but the Pamlico interval also includes other flat benches at lower elevations. Brown, et al (1944) and Harvey, et al (1965) treated the Pamlico as a separate geological unit from the other terraces, most likely because of the previous work by Cooke (1965 inclusive of earlier reports). The Pamlico is a prominent terrace found along the Atlantic Coast and continues around Florida into the Gulf Coastal Plain. It was named by Stephenson (1912) for exposures in the area of Pamlico Sound in North Carolina. Other names have been introduced for this interval, but due to its large regional extent and the general acceptance of the Pamlico name elsewhere, it seems appropriate to continue the use of the Pamlico nomenclature for this report. The thickness of the Pamlico Terrace varies depending on location, but it appears to be thicker than the other coastal terraces. Based on well samples and geophysical well logs, the Pamlico Terrace may be up to 70 feet thick in some places along the coast, and it thins to the north where it truncates along the southern edge of the Big Ridge and Wade terraces. A wave cut scarp is evident between the Pamlico and Big Ridge terraces, and it parallels the present coastline just to the north of D'Iberville and Ocean Springs. The southern boundary of the Big Ridge Terrace coincides with the northern limit of the Pamlico Terrace and includes the interval from 30 feet up to an elevation of 50 feet. A flat bench occurs at an elevation of about 50 feet on the crest of the terrace and is equivalent to the higher elevations of the Wade River Terrace. The estimated thickness of the Big Ridge Terrace is 25 to 30 feet just north of the contact with the Pamlico Terrace and thins to the north where it grades into the Good Hope Terrace. The Good Hope Terrace is the combination of two terraces that occur at elevations of 70 and 100 feet. Although these terraces were deposited at different times, they could not be reliably mapped as separate terraces due to the gradational contact between the two. The surface of the Good Hope Terrace is slightly rolling and includes the interval that lies between 50 to 110 feet in elevation. This interval is equivalent to the combined Big Point and Hurley River Terraces. The Good Hope Terrace is no more than 25 to 30 feet thick where it is exposed along the south side of Bluff Creek. It is characterized as fine grained clayey sand that weathers to a dark red brick color. The contact with the underlying Graham Ferry Formation is unconformable, and where observed along outcrop there is a pronounced contrast in the bedding between the two.

Citronelle Formation:

Although no Citronelle is represented on the present geologic map of Jackson County, it requires some discussion because of having been previously mapped on earlier maps of Jackson County. It was named by Matson (1916) for outcrops that occur in Citronelle, Alabama along the Mobile and Ohio Railroad (now abandoned). At the type locality, the formation is composed of fine clayey sand that weathers to a red brick color with no apparent bedding. The interval mapped as Citronelle is clearly associated with a terrace that occurs at 340 to 350 feet in elevation where the town of Citronelle is located. This is similar in elevation to the 360-foot Morley terrace of Cooke (1965). The Citronelle

Formation was deposited at an earlier time when sea levels were at a much higher elevation. Even though the terraces present in Jackson County are similar in deposition and appearance to the terrace at Citronelle, they are not related. The terraces in Jackson County are much younger and were deposited when sea levels were at lower levels. Each terrace that occurs at a lower elevation was formed first by the erosion of the previous higher terrace when sea levels were lower, and then deposition of a new terrace in its place when sea levels rose. Previous higher terraces were destroyed in those areas where the new lower terraces were deposited. Brown, et al and Harvey, et al both reported that the Citronelle dipped into the subsurface beneath the coastal terraces in Jackson County, but they mistakenly included the underlying sands of the Pascagoula and Graham Ferry Formations with the Citronelle. The Pascagoula and Graham Ferry Formations do dip into the subsurface, but the Citronelle and other lower terraces do not. Stewart and Starnes (2017) concluded that the use of the term Citronelle should be restricted to the terrace that occurs at 340 to 350 feet. A more detailed discussion on this subject is given in *The Geology of Jackson County* Open-File Report 285 for the interested reader.

Graham Ferry Formation:

The Graham Ferry Formation was named by Brown, et al (1944) for exposures of deltaic deposits on the west side of the Pascagoula River in Section 38, Township 5 South, Range 7 West. Brown differentiated the Graham Ferry from the underlying Pascagoula Formation based on fossil evidence which indicated that the Graham Ferry was younger than the Pascagoula Formation. Other than age, there is very little difference between the two. They were both deposited in deltaic to near-shore marine environments and are very similar in composition. The Graham Ferry does, however, appear to be a little more terrestrial than the Pascagoula. Clays in the Graham Ferry tend to weather to a reddish orange to tan color having a characteristic mottled appearance on outcrop. Pascagoula clays occasionally weather to a red color in places, but having less iron content, they commonly maintain a medium grey color on outcrop. Although the contact between the Graham Ferry and Pascagoula Formations was not observed at the surface, it appears that the Graham Ferry is a continuation of the Pascagoula depositional system, and it is assumed that the contact between the two is conformable. The formation dips into the subsurface and is overlain by terrace deposits and alluvium. The contact between the Graham Ferry and the overlying terraces is unconformable, and there are distinct differences in the bedding and composition between the two. On outcrop, the Graham Ferry is typically composed of clean, cross-bedded sands and medium gray to red clay. Heavy minerals are common in the sand intervals. The river and coastal terraces are generally composed of clayey sands that weather to a dark red color which are easy to distinguish from the Graham Ferry. The clayey texture and dark red color may be due to the weathering of glauconite. There are some residual terraces on the higher elevations where the Graham Ferry is mapped, but they are thin and very limited in aerial extent.

Pascagoula Formation:

The Pascagoula Formation is the oldest unit exposed at the surface in Jackson County. It was named by Johnson (1893) for exposures located along the Chickasawhay River at a place locally known as Shell Landing in Section 28, Township 1 North, Range 7 West in Green County, Mississippi. At this location, the Pascagoula Formation is fossiliferous and is characterized by the mollusk fossil *Rangia johnsoni*. Where *Rangia johnsoni* is present the formation is considered to be Pascagoula, but the lack of *Rangia johnsoni* does not preclude an interval from being part of the formation. In Jackson County, the Pascagoula is generally composed of clays and sands with some small gravel that were deposited in a near-shore estuarine or deltaic environment. The formation is exposed on the slopes of the hills in the northeastern corner of the county, and the tops of those hills are capped with terraces which unconformably overlie the Pascagoula. Access to outcrops of the Pascagoula in Jackson County is limited due to the sparse number of roads in the area in which it outcrops and much of the area being covered with vegetation. Clays of the Pascagoula can be seen along the banks of the Escatawpa River when the water is low, and cross-bedded sands of the Pascagoula are present in a sandpit just to the north in George County in Section 31, Township 3 South, Range 5 West. The Pascagoula Formation dips to the south beneath the overlying terrace deposits and Graham Ferry. Where the terrace deposits overlie the Pascagoula Formation the contact is unconformable, and, as previously discussed, the contact with the Graham Ferry Formation appears to be conformable. The Pascagoula also appears to conformably overlie the Hattiesburg Formation, although this contact is not exposed at the surface in Jackson County.

**Subsurface Geology and Geohydrology of the Grand Gulf Aquifer System**

The Grand Gulf Aquifer System consists of sediments overlying the Vicksburg Group and underlying the Pleistocene terraces, and includes, in ascending order, the Catahoula, Hattiesburg, Pascagoula, and Graham Ferry Formations. These formations are further divided into lower and upper aquifer intervals, such as the Lower and Upper Graham Ferry, and so on. The primary aquifers used in Jackson County are the Upper Pascagoula up through the Upper Graham Ferry and to a lesser extent the Upper Hattiesburg and Lower Pascagoula. The Lower Hattiesburg appears to be fresh in the northern part of the county, but it is not presently being used. The Upper Catahoula does not appear to be fresh in Jackson Co., and the Lower Catahoula in this area is a marine unit called the Tatum Limestone (Eargle, 1964). The Tatum Limestone and the underlying Chickasawhay-Vicksburg-Jackson Group provide the foundation to subdivide the overlying sands and clays into individual aquifer intervals. Figure 2 is a stratigraphic table showing the subdivision of the formations above the Cook Mountain and aquifer intervals of the Grand Gulf Group as defined by Hoffmann, et al (2017).

To subdivide the aquifers in Jackson Co., four cross-sections were constructed, two oriented north-south and two oriented east-west (Plates 3-6). The locations of these cross-

sections are shown on Plate 2, and a list of the wells used in constructing these cross-sections is given in Table 1. Geophysical well logs from oil and gas tests were used to establish the base of the aquifer system on top of the Tatum Limestone and the underlying Chickasawhay-Vicksburg-Jackson Group. It was assumed that the overlying formations generally had the same dip (slope) as the top of the Tatum and Chickasawhay Limestone intervals. Delineation of the Pascagoula and Hattiesburg Aquifers was largely based on previous work by Boswell, et al (1987) and Sumner, et al (1989). The base of the Graham Ferry was based on work by Sumner, and unpublished work by Marble and Crellin. The subdivision of aquifers in this report agrees with the regional work of Hoffmann, et al (2017). Earlier subsurface interpretations by Brown, et al (1944) and Harvey, et al (1965) were made by correlating relatively shallow sands without the advantage of having the more recent subsurface information to determine the dip rate or direction of dip of the formations. This led to aquifer intervals being miscorrelated, and water level and water quality information being misinterpreted. The cross-sections in this report establish the dip of the underlying Tatum and Chickasawhay Limestone intervals, and the overlying aquifers have been subdivided with respect to the dip. This permits equivalent sands to be identified and for the comparison of water levels and water quality information to be related from these equivalent sands. Based on the subdivision of aquifers from the cross-sections, six maps (Plates 7-12) were constructed on the tops of the individual aquifer intervals from the Lower Graham Ferry down to the Lower Hattiesburg, and on top of the Chickasawhay Limestone. There was insufficient data to produce a map for the Upper Graham Ferry, and maps were not produced for the Upper and Lower Catahoula due to these intervals not containing freshwater in Jackson County.

As shown on Cross Sections A-A′ and B-B′ (Plates 3-4), the apparent dip of the geologic units is to the south, and Cross Sections C-C′ and D-D′ (Plates 5-6) indicate that there is some slight dip to the west. The aquifer intervals thicken from north to south and slightly to the west. This indicates a basin subsiding to the south-southwest during deposition, although not rapidly. As indicated on the cross-sections, there is also an increase in the occurrence of sands containing freshwater from north to south and from east to west. It is not uncommon for there to be two or more sands in an aquifer interval, each of which may act as an individual aquifer (not being in connection with the other sands in the same aquifer interval). Care should be taken when comparing water levels and water quality data, even from the same aquifer interval. As shown on Cross Section A-A′, the Upper Graham Ferry subcrops beneath the Pamlico Terrace in the southern part of the county and is exposed in the central and northern part of the county. On the east side of the Pascagoula River (Cross Section B-B′) the Upper Graham Ferry is entirely covered by the Pamlico Terrace and is not exposed at the surface. The primary source of recharge for the Upper Graham Ferry is the exposed sands on the west side of the Pascagoula River and to a lesser extent the Pamlico. The Lower Graham Ferry is exposed at the surface in the northern part of the county west of the Pascagoula River and is almost entirely subcropping below the river terraces in the northeastern part of the county. As with the Upper Graham Ferry, the recharge for the Lower Graham Ferry is primarily from the exposed sands in the northwestern part of the county, and to a lesser extent from the river terraces to the

northeast. On Cross Section B-B' the Upper Pascagoula interval is projected to be at the surface in the northern part of the county on the east side of the Pascagoula River and is exposed on the slopes of the terrace-capped hills in that area. The recharge area for the Upper Pascagoula interval is in the northeastern part of Jackson County and further to the north in George County where the sands are exposed at the surface. The Lower Pascagoula and Hattiesburg intervals are not exposed at the surface in Jackson County. The terrace deposits, overlying the Grand Gulf Aquifer System, also contain freshwater, but they are relatively thin and are not commonly used. Some small capacity wells have been made in the Pamlico Terrace where it becomes a little thicker along the coast, but these wells are typically only used for irrigation due to the generally poor water quality in this interval. Water from this aquifer is commonly high in iron and manganese, and locally it may be brackish when in contact with surface water from the Gulf of Mexico or estuaries.

On the Top of Chickasawhay Formation Map (Plate 12), the dip rate is indicated to be 50 to 70 feet per mile to the south-southwest, depending on location. This dip rate continues to be reflected up through the Lower and Upper Hattiesburg (Plates 10 and 11). As shown on Plates 7-9, the rate of dip decreases in the shallower formations and averages about 30 to 60 feet per mile on top of the Lower Graham Ferry. On Plates 10 and 11, the downdip limits of freshwater in the Upper and Lower Hattiesburg Aquifers generally trend east and west and are in the central and northern parts of the county respectively. Any pumpage from these intervals would not affect the water availability from the aquifers being used along the coast. There appears to be an abundance of ground water resources available for future development from these intervals, and one well of particular interest is the Humble-Dantzler Lumber Company well in Section 20, Township 5 South, Range 8 West shown on Cross Section C-C', Plate 5. This well has roughly 200 feet of sand in the Upper Hattiesburg from a log depth of 1,380 feet to 1,600 feet. There are substantial sands elsewhere in the Upper and Lower Hattiesburg intervals in Jackson County, but none are as impressive as in the Humble well. Freshwater is available over the entire county in the Upper and Lower Pascagoula intervals. As shown on Plate 8, the top of the Upper Pascagoula is exposed at the surface in the northeastern part of the county and is 1,100 feet below mean sea level (bmsl) along the coast. The top of the Lower Pascagoula (Plate 9) ranges between 100 feet bmsl in the northeastern part of the county down to 1,500 feet bmsl to the south. Water use from the Upper Pascagoula is more common in the northern part of the county where it is available at shallower depths than to the south, and there are only a few wells which produce water from the Lower Pascagoula interval. Sands of one hundred feet in thickness are not uncommon in the Pascagoula intervals, but two wells of particular interest are the Davis Oil Company-Dees Well in Section 18, Township 6 South, Range 7 West, and the Imperial Resources-Allar Company Well in Section 38, Township 7 South, Range 7 West, as shown on Cross Sections A-A' and D-D', Plates 3 and 6. The Davis Oil Company well has two sands in the Lower Pascagoula interval, both over 100 feet thick, and a 60 foot sand in the Upper Pascagoula. The Imperial Resources well has a sand in the Lower Pascagoula that is 150 feet thick and another sand in the Upper Pascagoula that is slightly less than 100 feet. Both aquifers are underutilized, and, needless to say, significant additional ground water resources are available for future development from these

intervals particularly in the northern part of the county. Due to the shallow depth and relatively good aquifer qualities, the Upper and Lower Graham Ferry Aquifers are the primary aquifers used along the coast. As shown on Plate 7, the top of the Lower Graham Ferry is exposed at the surface in the northern part of the county and is 600 feet bmsl along the coast. The Upper Graham Ferry is a major source for water in the Pascagoula area but is sparsely used in the western part of the county due to a lack of sand in that area. The Lower Graham Ferry Aquifer is available along the entire coast, and thick sands are common in this interval. Three wells of particular interest are the Imperial Resources-Allar Company well in Section 38, Township 7 South, Range 7 West; the Ingalls well in Section 6, Township 8 South, Range 6 West, and the Moon, Hines & Tigrett well in Section 12, Township 7 South, Range 6 West all of which are shown on Cross Section D-D' Plate 6. Both the Imperial Resources and Ingalls wells have sands in the Lower Graham Ferry interval that are close to 100 feet thick, and a sand 140 feet thick is present in the Moon, Hines & Tigrett well. Although the Upper and Lower Graham Ferry Aquifers are heavily pumped along the coast, the pumpage in these intervals has not caused significant water level declines. This is most likely due to the close proximity of the recharge area to the north, and the good quality sands available in these intervals.

**Base of Freshwater**

For the purpose of this report, freshwater is considered to be water that contains less than 1,000 mg/l of total dissolved solids (TDS), and geophysical electric logs, such as those used to construct the cross-sections, are commonly used to estimate the base of freshwater in the subsurface. These logs are produced from tools run on a wireline in an open wellbore and provide an indirect way of characterizing aquifer qualities. There are analytical methods to calculate TDS in aquifers using geophysical well logs, but these methods are not reliable for ranges considered to be fresh. It is possible, however, to estimate the relative TDS of ground water using well logs. The spontaneous potential (SP) and resistivity curves on geophysical electric logs exhibit particular characteristics with varying TDS concentrations. Water with less than 1,000 mg/l TDS typically has a relatively high resistivity and a suppressed (to the right) SP. Conversely, water with greater than 10,000 mg/l TDS will have a very low resistivity with a much more pronounced SP development (to the left). The transition interval between 1,000 and 10,000 mg/l TDS generally has resistivities of more than 3 ohms and a positive SP curve. For this report, the base of freshwater (1,000 mg/l TDS) was picked at the point on each log there was a decrease in the resistivity and an increase in the SP curve. The Base of Fresh Water Map, Plate 13, was constructed using all the available geophysical well logs that logged through the freshwater interval. Well control in Jackson County is somewhat limited, having only 17 wells from which the base of the freshwater section could be estimated. The Base of Fresh Water Map will likely be improved as additional well control becomes available in the future.

Gandl's report, *Characterization of Aquifers Designated as Potential Water Sources in Mississippi*, 1982, treated the values that were calculated for the base of freshwater as if they all occurred in the same aquifer interval. The present Base of Fresh Water Map takes into account the aquifer intervals within which the base of freshwater occurs and is mapped accordingly. The base of freshwater ascends in the stratigraphic section from the Lower Hattiesburg aquifer in the northern part of the county to the Lower Pascagoula in the south. Depth to the base of freshwater ranges from 1,000 to more than 1,800 feet bmsl, depending on location and aquifer interval. In general, the base of freshwater is shallower to the east and north, and deeper to the west and south. Along the coast, the base of freshwater varies from about 1,600 feet bmsl in the Bayou Casotte area to an estimated depth of 1,700 feet bmsl in the Ingalls Shipyard area. Further to the west, in Ocean Springs, the base of freshwater is projected to be as deep as 1,900 feet bmsl; however, no wells have been drilled deep enough in this area to establish this depth. As shown on the log of the Floto well, Figure 3, the base of freshwater is in the Lower Graham Ferry Aquifer at a log depth of 1,483 feet. The Floto well is located offshore, just to the north of Horn Island, and freshwater is expected to extend to the south of the island.

**Water Use**

The main areas of ground water use in Jackson County are along the coast in the towns of Moss Point – Escatawpa, Pascagoula, Gautier, and Ocean Springs. There has been an increase in population in recent years in the communities of Hurley, Wade, and Vancleave in the northern part of the county, and correspondingly there has been an increase in water use in those areas. The largest industrial users are in the Bayou Casotte and Ingalls areas, which are located on the east and west sides of Pascagoula, respectively, and Mississippi Power Co. at Plant Daniel north of Escatawpa. Industries in the Bayou Casotte area use surface water from the Pascagoula River for their process water and fire protection and use ground water for their potable water needs.

Prior to 1918, 36 water wells were reported to have been drilled in Jackson County, mainly in the more populated areas along the coast. Most of these wells were completed in the Lower Graham Ferry and Pascagoula Aquifers, at depths of 514 feet to 993 feet. Initially, flowing wells were common in these intervals. With increasing use, however, natural flow could not satisfy the demand, so pumping became necessary (Brown, et al 1944). As a result, in the 1940's & 1950's water use tended to shift from the deeper sands to the shallower Upper Graham Ferry sands. Reported water use for Jackson County has increased from about 10 million gallons per day (mgd) in the 1950's to over 20 mgd in the 1990's (Stewart & Everett 1999). As shown in Figure 4, ground water use declined after Hurricane Katrina in 2005 to less than 15 mgd. Water use is projected to slowly increase to slightly more than 18 mgd by 2025.

**Selection of Wells for Measuring Water Levels and Sampling**

The Office of Land and Water Resources (OLWR) began investigating the ground-water resources of Jackson County in 1992 to evaluate the possibility of salt water intrusion into the Pascagoula area due to increasing ground water production. Wells selected at that time were mainly located near the coast, and were only being sampled for pH, specific conductance, chlorides, and color. Static water levels were also measured in these wells to compare the changes in water levels to the changes in water quality. The scope of this study was expanded in 1994 to include the entire county. Every well that had sufficient historical data for the comparison of water levels and water quality data was included in this study. A report for this investigation was published by Stewart and Everett, 1999, on the *Historical Water-Level and Water Quality Data in Jackson County*. For the present report every available municipal, industrial, and water association well was sampled, and water level measured. Some home wells were also measured and sampled in order to supplement the available information from the industrial and public supply wells in the northern part of the county. One hundred sixty-one wells were used in this study: thirty-eight in the Upper Graham Ferry, ninety-five in the Lower Graham Ferry, twenty-two in the Upper Pascagoula, five in the Lower Pascagoula, and one in the Upper Hattiesburg. Of the one hundred sixty-one wells, water levels were measured in one hundred thirty-five, and water samples were analyzed from one hundred eighteen wells (including both recent and historical). A list of wells from which water levels were measured or samples collected is presented in Table 2. The well numbering system used in Table 2 was originally established by the USGS many years ago, and the Office of Geology and Office of Land and Water Resources have continued its use. The letter designation is related to the Township or partial Township of the well location, and the number is, in general, based on the order in which the well was drilled in that grid. Typically wells with lower numbers are older, and wells with higher numbers are newer.

**Measurement of Water Levels**

Prior to measuring water levels in each well, the pump was turned off long enough to allow for reasonable recovery of the water level. The water level was then measured, using a graduated steel tape or a 30-psi pressure gauge if the well was flowing. The measurement was recorded in feet relative to both land surface and mean sea level.

Measuring static water levels can be a very useful tool to monitor water availability for a given aquifer in a localized area, but in some cases the measurement may be influenced by factors other than the pumpage. Some factors influencing water levels are the length of time a well is allowed to recover after pumping, interference from other nearby wells pumping from the same aquifer as the well being measured, and mechanical problems in the well itself. Water level trends (either up or down) should only be

determined from wells that have had a sufficient number of water levels measured over many years. Most of the water levels measured for this study were from wells which were actively being used and could only be turned off for a brief period (usually 20 minutes to an hour). As such, the water levels measured in these wells may not represent true static water levels. All available water levels are presented in Table 3.

**Summary of Water Levels**

Water levels were recently measured in sixty-six wells for this report. Currently, the highest water level measured is 129.2 feet above mean sea level, in the Vestry Community Center Well A135. This well was completed in the Upper Pascagoula Aquifer at 243 feet below land surface. The deepest water level measured is 235.9 feet bmsl in Moss Point Well Q600. Four flowing wells were observed. Two of these wells, McVey Well O74, and Orange Grove School Well Q34, were not gauged due to there being only a very a small amount of flow. The other two wells, Vancleave High School Well K322, and Mississippi Department of Transportation Well M349, had water levels 41.86 and 19.21 feet above mean sea level respectively.

Water levels in most wells have been relatively stable for many years. The largest water level declines have been in the Moss Point wells. These are large capacity wells which are relatively close to one another, and the aquifer appears to be of limited lateral extent. Pumpage has recently been reduced in this area and the water levels are now fairly stable at about 200 feet bmsl. Water levels are rising in some wells in the Pascagoula area that are completed in the Upper Graham Ferry. Several of the wells, such as P429, have higher water levels now than when they were first drilled. The well with the longest period of measurement is at Moss Point Presbyterian Church, Well P45, which was measured from 1919 to 2006. This well was completed in 1908 in the Lower Graham Ferry at 806 feet. Water levels in this well have ranged from 51 feet above mean sea level in 1919 to 22.8 feet bmsl in 2006. Other wells in the Moss Point area completed in the same interval have had much lower water levels over some of the same time period, leading the author to believe that the casing in the P45 well has integrity problems and that the water levels after 1970 may not be reliable. A Pascagoula well at the Communy Street water plant, P124, is another well that has a long history of water level measurements. Water levels have been periodically measured in this well since 1959, and the most recent measurement of -45.50 bmsl, made in 2015, is a few feet higher than a measurement of -49.88 made in 1966.

**Collection and Analysis of Water Samples**

Before sampling a well, the pump was allowed to run for a reasonable amount of time to avoid collecting water that had been in the well casing or the tank for a long period.

Flowing wells and pumping wells that were used on a regular basis required little or no purging before being sampled. Wells not in continuous use were allowed to flow for a longer period before a sample was collected. Unchlorinated water samples were collected from a sampling point as close as possible to each well. The pH and specific conductance were measured on site using a YSI meter. Each sample bottle was labeled with the county, well number, owner's name and sample date, and the sample was delivered to the Office of Pollution Control laboratory for analysis.

The U. S. Geological Survey was responsible for most of the water quality analysis for samples that were collected prior to 1992. After that date, the Office of Pollution Control laboratory has been responsible for the analysis. Some variation in chloride values is to be expected, even under ideal circumstances. According to laboratory personnel, a 3% variation between analyses using the same method is normal, and as much as 10% variation in results between different methods is acceptable. Over the years, the Pollution Control lab has used more than one method to analyze for chlorides, so some variation in the chloride values may be due to changing analytical methods. Other factors that may affect chloride values are holding time, temperature, and length of time the well is pumped prior to sampling. Due to these normal variations, it is necessary to analyze several samples over time to detect a trend. For quality control, the lab results were checked against the historic data for each well. If the chloride concentration differed greatly from previous analyses, the well was resampled as soon as possible. The basic water quality data are presented in Table 4.

The Office of Land and Water Resources began collecting water samples for a more detailed analysis of ground water constituents in 2003. The samples were analyzed for manganese, iron, magnesium, potassium, calcium, silicon, sodium, chlorides, alkalinity, fluoride, and sulfate. For the detailed analysis, two unchlorinated samples were collected. Nitric acid was added as a preservative to the sample to be analyzed for metals, and no preservatives were added to the sample to be analyzed for chlorides and other nonmetals. The Office of Pollution Control laboratory was responsible for all detailed water quality analysis, and the analyses are presented in Table 5.

**Summary of Water Quality Analyses**

Of the one hundred sixty-one wells used in this study, one hundred eighteen were sampled for chloride concentrations. The chloride concentrations vary from well to well, generally increasing with depth. The lowest chloride concentration was found in Jackson County Utility Authority Well C145 east of Wade, with a chloride concentration of 2.7 mg/l. The highest concentration, averaging about 500 mg/l, was found in a 1,395-foot private well, McVey O74, southeast of Ocean Springs. The southernmost well is National Park Service Well O392, located about 12 miles south of Gautier on Horn Island. This well is 835 feet deep and has a chloride concentration of about 70 mg/l. The pH was eight or above for all but six of the wells, and the remaining six had a pH above seven. Water color was

measured in fifty-four wells, and only five of these wells had color analysis within the Environmental Protection Agency recommended secondary water quality standard of fifteen cobalt units. In general, color increases with depth in Jackson County and is higher in the eastern part of the county than the west. The overall lowest measured color was in Ocean Springs Well N520, with a measurement of 8 cobalt units. The highest color was measured in the Omega Protein Inc. Well Q19, to the east of Pascagoula, with 262 cobalt units.

The detailed water quality analyses are available for one hundred and two wells used in this study. The analyses for all the wells sampled indicate that the ground water is of a soft sodium bicarbonate type and is generally low in other constituents. A few wells have slightly higher than desired iron and manganese concentrations, the highest of which is the Grand Bay Coastal Research Lab Well, Q633, having 4.81 mg/l iron and a pH of 7.34. This is the shallowest well sampled, completed at 168 feet, and it is common for wells in this depth range to have a lower pH and higher iron and manganese concentrations.

The main water quality concerns in the Jackson County area are higher chlorides in the Pascagoula-Moss Point area, and high color common in many of the wells. The high chloride problem has been addressed with the installation of reverse osmosis systems in Pascagoula and Moss Point, and both are now producing very good quality water. The high color problem is also being remedied with reverse osmosis in Pascagoula and Moss Point, and a sand filter and ionic exchange filtration system has been successfully used in Gautier.

**Ground Water Resources by Area**

Moss Point – Escatawpa Area:

Most of the wells used for public water supplies in the Moss Point and Escatawpa areas are completed in sands of the Lower Graham Ferry at depths between 800 to 900 feet, and 400 to 650 feet below land surface. Only a few wells have been completed in the Upper Graham Ferry and the Upper Pascagoula. In the early twentieth century, a few wells were completed in the Moss Point area from sands in the 1,000 to 1,100-foot depth range. Wells were drilled to these depths because they flowed, but as the pressures declined and pumps were required to lift the water, the shallower aquifers became more desirable. There is an area in the eastern part of Moss Point in which sands in the Upper Pascagoula and Lower Graham Ferry Aquifers are scarce, and several test wells have been drilled in the area with little encouragement. Moss Point completed a well, Q434, near the intersection of Interstate 10 and Hwy 63 that only had 25 to 30 feet of what appears to be poor quality sand in the Lower Graham Ferry. This well is now abandoned due to excessive drawdown problems. The wells in Escatawpa were sufficient for the water supply needs of the community for many years, but they also had poor sand development and have also been abandoned. Moss Point has been servicing the Escatawpa area since 2009 after a reverse osmosis

treatment facility was built to improve their water quality. Recently drilled wells in the downtown area of Moss Point and an older well, P229, located further to the west along the Pascagoula River, indicate that thicker sands are available on the western side of Moss Point and Escatawpa. Future test wells should be drilled to the west, where better quality sands may be found.

Prior to 2009, the water levels in the lower sand of the Lower Graham Ferry were very stable in the 100 to 130 feet bmsl range with little to no decline. When additional wells were drilled to supply the recently-built reverse osmosis treatment facility, pumpage from the Lower Graham Ferry was increased, and the water levels began to decline. Water levels are now in the 200 to 250 feet bmsl range and appear to have stabilized.

The water quality for the Lower Graham Ferry in the Moss Point area is relatively good except for having some color and possibly a slight hydrogen sulfide odor. The chloride levels are 50 to 60 mg/l in the upper sands of the Lower Graham Ferry and 120 to 250 mg/l in the lower sands. These chlorides are naturally occurring and are not the result of salt water intrusion. A well completed on the east side of Moss Point at 950 feet in the Upper Pascagoula (the Omega Protein Inc. Well Q19) has chlorides in the 400 mg/l range. Even though the chlorides are higher in this well than the secondary water quality standard recommended by EPA, this water would be suitable for use after being treated with reverse osmosis. This sand interval should certainly be considered as a potential source of water when looking for additional water supplies in the future. As reported by Wasson (1978), the deepest water well in Moss Point, P49, was drilled in 1926 to 1,807 feet, and as would be expected the chlorides are increasing with depth, in the 1,500 mg/l range. Obviously, water from sands at this depth would not be suitable as a source for potable water.

Pascagoula Area:

The main sources for public water supply in the City of Pascagoula are the Upper and Lower Graham Ferry Aquifers. The Upper Graham Ferry Aquifer is the most widely used due to its shallow depth and relatively good aquifer qualities. The sands that comprise the Upper Graham Ferry are present over most of the area in Pascagoula, and the wells that produce from the Upper Graham Ferry are generally at a depth of 250 to 400 feet below land surface. There are three individual sands in the Lower Graham Ferry Aquifer that are somewhat discontinuous, but at least one of these sands should be present over most of the Pascagoula area. The lowermost sand, between 700 and 800 feet below land surface, is produced on the west side of Pascagoula from wells P124, P134 & P150, while the middle sand, between 600 to 700 feet below land surface, is produced on the east side of town from wells Q180 & Q181. The upper sand in the Lower Graham Ferry interval is present on the west side of town but is not currently being produced. A well just to the east of Pascagoula in Orange Grove, Q34, was completed in the Upper Pascagoula Aquifer at a depth of 1,250 feet, and the chlorides are in the 170 to 190 mg/l range. This suggests that the Upper Pascagoula Aquifer may be a potential source of water for the area in the future, particularly on the east side of town. As reported by Wasson (1978), a well just south of

U.S. Highway 90 on the west side of town, P111, is the deepest well in the Pascagoula area for which chloride information is available. This well was completed in the lower part of the Upper Pascagoula interval at a depth of 1470 feet and had chlorides in the 550 mg/l range. Water from this interval would be suitable for use after being treated with reverse osmosis and should be considered as a potential source of water when looking for additional water supplies in the future.

The static water levels in the Upper Graham Ferry have been very stable, in the 40 to 70 feet bmsl range, with little to no overall decline in the past 20 to 30 years. Static water levels in the middle sand of the Lower Graham Ferry interval have varied greatly, depending on pumpage and the amount of recovery time allowed. Since the early 1980's water levels in this aquifer have been as high as 62 feet bmsl and as low as 198 feet bmsl in wells Q180 & Q181, with the most recent measurement in January of 2007 being 120 feet bmsl in the Q181 well. Based on the variation of water levels measured in these wells, this aquifer appears to be limited aerially or to have poor aquifer qualities. The static water levels in the lower sand of the Lower Graham Ferry have been stable for many years. Since the late 1960's, they have been in the 40 to 70 feet bmsl range in the Communy Street Wells, P124 & P150, and Beach Well P134, with the most recent measurement taken in 2015 being 45.5 feet bmsl in P124.

Except for having higher chlorides in some wells, the water quality for the Upper and Lower Graham Ferry intervals are very similar to the water quality in the Moss Point area. The chlorides, however, vary greatly between wells depending on location and the aquifer from which the water is produced. The Upper Graham Ferry Aquifer has a little less color than the Lower Graham Ferry, and the chlorides are generally in the 100 to 200 mg/l range. The chlorides in the Lower Graham Ferry are in the general range of 300 to 450 mg/l. Well P145, on the east bank of Ingalls Shipyard, is completed at a depth of 805 feet in the lower sand of the Lower Graham Ferry and has chlorides in the 500 to 600 mg/l range. Chlorides in this well are higher than would normally be expected at that depth and location, and it is likely that this well has been contaminated from another source with higher chlorides (possibly well P111). Wells P124 & P150 at Communy Street, and the Beach Well, P134, are completed in the same sand as the P145 well, and the source of higher chlorides in these wells is likely the same as the P145 well. The City of Pascagoula started using reverse osmosis in 2000 to remove the high chlorides and color from their water and have been quite successful. They now have three reverse osmosis plants in operation and are producing very good quality drinking water.

Gautier Area:

All of the public water supply in the Gautier area is produced from the Lower Graham Ferry. As in the Pascagoula area, there are three sands in the Lower Graham Ferry interval. The primary sands used in this area are the upper sand, which occurs at about 500 feet below land surface and the lower sand, at 700 feet below land surface. There are four wells producing from the upper sand in the downtown area along Highway 90, and four

wells producing from the lower sand further to the north near Interstate 10. Many of the home wells in the Gautier area are completed in the Upper Graham Ferry at depths generally around 300 to 400 feet below land surface, and there are a few shallow wells completed at less than 100 feet in the Pamlico interval. Water from the Pamlico is typically high in iron and manganese and is normally only used for irrigation. The base of freshwater in this area is about 1,700 to 1,800 feet bmsl, and, as indicated by well logs, additional freshwater sands are available in the Upper and Lower Pascagoula.

The most recent static water levels from the wells completed in the lower sand of the Lower Graham Ferry range from 14 to 44 feet bmsl. Water levels from the upper sand are a little lower, in the 49 to 87 feet bmsl range. The lower water levels measured in the upper sand are due to the wells being in close proximity to one another in the downtown area of Gautier and heavy pumpage. Some of the stress could be relieved on the aquifer by drilling additional wells and spreading pumpage over a larger area. Water level information from the Upper Graham Ferry and Pamlico is essentially nonexistent due to the difficulty of accessing these wells.

The water quality in the Lower Graham Ferry in this area is similar to that in Pascagoula and Moss Point, with the exception of having slightly lower chlorides. Chlorides in the upper sand are about 40 mg/l, and they generally range between 100 and 170 mg/l in the lower sand. Chlorides are generally less than 20 mg/l and commonly in the single digits in the Upper Graham Ferry and Pamlico Aquifers. The deepest well in this area for which water quality data is available is a private well, O13. This well was completed at 964 feet below land surface and had chlorides in the 150 mg/l range (Wasson, 1978). Gautier started using a sand filter and ionic exchange system on one of their wells, O307, in 2015 to remove color. The most recent sample of finished water taken in April 2017 had a color of 0 cobalt units.

Ocean Springs Area:

The Lower Graham Ferry Aquifer is the main source for water in the Ocean Springs area. As in the Gautier area, there are three sands within this interval. The upper sand at 500 to 600 feet and the lower sand at 800 to 900 feet are the primary sands being produced. There are a few home wells completed in the Upper Graham Ferry from 300 to 400 feet and even fewer wells completed in the Pamlico. Some wells have been completed in the Upper Pascagoula Aquifer at depths of about 1,200 feet, but most of these wells were drilled in the early 1900's and are now abandoned. Additional water resources in the Ocean Springs area are likely available from the Upper and Lower Pascagoula Aquifers.

There is not enough historical data to establish a definite trend in water level declines in the Lower Graham Ferry Aquifer. The most recent static water levels were measured in 2015, and the water levels are generally in the 50-foot bmsl range in the lower sand and 100- to 130-foot bmsl range in the upper sand. These water levels seem to be stable with only minor yearly declines. There is very little information on water levels in the Upper Graham Ferry, but the few water levels that are available in this interval indicate that they are at a

shallow depth, in the 8 to 12-foot bmsl range. Water levels in the Upper and Lower Pascagoula aquifers would likely be above land surface in this area.

Water quality from the Lower Graham Ferry Aquifer in the Ocean Springs area is relatively good, having much lower color and chlorides than that from the same aquifers to the east. Chlorides in the upper sand are generally less than 10 mg/l and vary greatly from less than 10 mg/l to over 100 mg/l in the lower sand. Information on the water quality from the Upper Graham Ferry is sparse, but what little information is available indicates that the color is fairly low and the chlorides are generally less than 10 mg/l. As reported by Harvey, et al (1965), two Upper Pascagoula wells on the north side of Highway 90, N42 and N44, had chloride concentrations in the 340 mg/l range, and another well on the south side of Highway 90, N49, had chlorides in the 700 mg/l range. Due to the close proximity of the N49 well to the N42 and N44 wells and the substantial difference in chlorides, it appears that the N49 well may have been contaminated by another source with higher chlorides. All three of these wells (N42, N44, & N49) are now abandoned.

Hurley and Wade Area:

Until recently the main source of water in the Hurley and Wade area, in northeastern Jackson County, was from private wells or from small rural water associations. Many of the homes in this area still have their own wells, but the more populated areas of Hurley and Wade are now using water produced by the Jackson County Utility Authority. The Utility Authority was formed in 2006, and they assumed responsibility for a few of the pre-existing wells and drilled two additional wells, C145 and C146. They have also started providing water to the local communities north and east of the community of Escatawpa from a surface water plant that just became operational in 2016. The source of water for the plant is from the Pascagoula River via a surface water pipeline operated by the Jackson County Port Authority. The primary source for ground water in the area is from the Upper Pascagoula interval, but additional water resources are available for future use from the Lower Graham Ferry and Lower Pascagoula intervals.

Historic water level information in this area is nonexistent. Recent water levels were measured in C145, C146, and the Mississippi Power Co. Plant Daniel Well L127. All three had relatively high static water levels, but the highest measurement was in C146 at 57.1 feet above mean sea level. The Jackson County Utility Authority Well, L183, is a flowing well, but due to the well configuration, the water level was not gauged.

There is very little historic water quality information for this area. Recent water quality analyses from wells sampled in this area indicate that chloride concentrations are very low, and iron concentrations are also low with the exception of the analysis from well C145. This well has a slightly higher than desired iron concentration of 0.766 mg/l, and a lower pH than most wells in this area of 7.58. The most notable water quality problem in the Wade and Hurley area is color. Well L183 is the deepest well sampled in the area, and by visual inspection, the color is very similar to the Orange Grove School Well Q34, which had a color of 250 cobalt color units. The other wells sampled in this area do not appear to

have as much color as well L183, but it is apparent that they are well above the maximum recommended color of 15 cobalt units. There are ample water resources available in this area, but the color is somewhat of a problem for well operators due to the byproduct of trihalomethanes being formed when water with high color is chlorinated. With recent advances in filtration systems to remove color, water in this area can be greatly improved, and the problem with trihalomethanes can be eliminated.

Vancleave Area:

The Vancleave area is very similar to the Hurley and Wade area. The Jackson County Utility Authority assumed responsibility for providing water to Vancleave and the surrounding area in 2006. Prior to that, the main source of water was from private wells or small water associations. Vancleave is the most populated community in the northwestern part of Jackson County, while the population in the surrounding area is sparse but growing. Much of the water used in this area is still being produced from private wells, but the Utility Authority has been providing water to Vancleave and the more recently developed neighborhoods for several years. The Utility Authority has assumed responsibility for maintaining the pre-existing wells in Vancleave and has drilled five new wells to provide services to this area. Four of the new wells are completed in the Upper Pascagoula in the 700 to 1100 feet below land surface range, and the fifth is completed in the Lower Graham Ferry at 325 feet below land surface. Other aquifers available in the area include the Lower Pascagoula and further to the north, the Upper and Lower Hattiesburg.

There is very little historic water level information for wells in this area, but recent water level measurements indicate that the static water levels are relatively high. Water levels in the four Jackson County Utility wells completed in the Upper Pascagoula vary from 24.3 feet above mean sea level to 26.2 feet below mean sea level, depending on location. Of these, the wells to the west of Vancleave have less pumpage and higher water levels than the K696 well located in the community of Vancleave. The Jackson County Utility Well K738, completed in the Lower Graham Ferry, is also located in the Vancleave community and had a static water level of 20.4 bmsl. The Vancleave High School Well K322 is completed at 1,254 feet and is a flowing well with a water level of 41.86 feet above mean sea level. The highest water level measured was 129.2 feet above mean sea level in Vestry Community Center Well A135.

Historic water quality information is also nonexistent for wells in the Vancleave area. Recent water quality analyses from wells sampled in this area indicate that the chloride concentrations are very low for most wells, in the range of 20 mg/l or less. The highest chloride concentration was in the San Juan Fish Camp well to the east of Vancleave, with 74.8 mg/l chlorides. Iron concentrations are slightly higher than desired in Vancleave High School Well K322, and Jr. High School Well K147, having 1.4 mg/l and 1.05 mg/l iron respectively. The GMTE Enterprise Well F464, north of Vancleave, also has a little higher iron concentration than desired at 0.531 mg/l iron. Except for a private well, F120, having a pH of 7.38, the wells in this area all have a pH above 8. As in the Hurley and Wade area,

the most notable water quality problem in the Vancleave area is color. As previously discussed, the main problem with color is the byproduct of trihalomethanes being formed when water with high color is chlorinated. In the past, treating water for color was not considered to be practical or economical, but with the recent advances in filtration systems it is much simpler and cost effective to remove the color.

**Summary**

Earlier reports by Brown, et al (1944) and Harvey, et al (1965) were mainly focused on the availability of water resources to support the growing population and industrial development in Jackson County. The more recent reports of Wasson (1978) and others were concerned with the sustainability of the water resources and the possibility of saltwater intrusion into the coastal area due to ground water pumpage. The Office of Land and Water Resources has been monitoring the static water levels and water quality since 1992 and has studied the aquifer system in detail. This report has presented the water level and water quality information collected over the years and provides a detailed discussion of the geology and available ground water resources in Jackson County. There are at least four conclusions that can be drawn from this report:

1. The static water levels in Jackson County have generally been stable or slightly declining since the mid-1970's. At present pumping rates, there are ample water resources available to satisfy the water supply needs of Jackson County for the foreseeable future.

2. With an improved understanding of the geology and the availability of ground water resources in Jackson County, it is apparent that there is an abundance of water resources available for future use (particularly in the central and northern parts of the county).

3. Saltwater intrusion has not occurred in the confined aquifers being produced along the coast; furthermore, there is no concern of saltwater intrusion occurring in the future.

4. The main water quality problem in Jackson County is color (which is associated with naturally occurring organics in the aquifer). With the recent advances in filtration systems the color can be effectively removed and the associated problem with trihalomethanes eliminated.

It was the intent of the author to present the information in this report in such a way that it could be used as a resource for those responsible for developing future ground water resources in Jackson County, and for the wise management of the ground water resources presently being produced. The Office of Land and Water Resources will continue to monitor the water resources of Jackson County and will update this report as needed in the future.

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# Section II

# Figures

Comparison of Terrace Classifications to Previous Work

| Terraces in Jackson Co. This Report | | | | Cooke (1966) | | Brown (1944) | Harvey (1965) |
|---|---|---|---|---|---|---|---|
| Stream Terraces | Coastal Terraces | Map Interval | Terrace Elv. | | Terrace Elv. | | |
| | Pamlico | 0' to 30' | 25' | Pamlico & Silver Bluff | 6' & 25' | Pamlico | Pamlico |
| Wade | Big Ridge | 30' to 50' | 50' | Talbot | 42' | Low Terrace | Terrace |
| Big Point | Good Hope | 50' to 80' | 70' | Penholoway | 70' | High Terrace & Citronelle | Citronelle |
| Hurley | | 80' to 110' | 100' | Wicomico | 100' | | |
| Harleston | | 110' to 130' | 130' | Not Recognized | Not Recognized | | |
| Movella | | 130' to 180' | 150' | Okefenokee & Sunderland | 145' & 170' | | |
| Agricola | | 190' to 230' | 220' | Coharie | 215' | | |
| Lucedale | | 250' to 270' | 270' | Hazlehurst | 275' | | |
| Sand Hill | | 280' to 300' | 300' | Not Recognized | Not Recognized | | |
| Citronelle | | 300' to 350' | 340' | Morley | 360' | | |

Note: All elevations are relative to sea level (MSL)

Figure 1

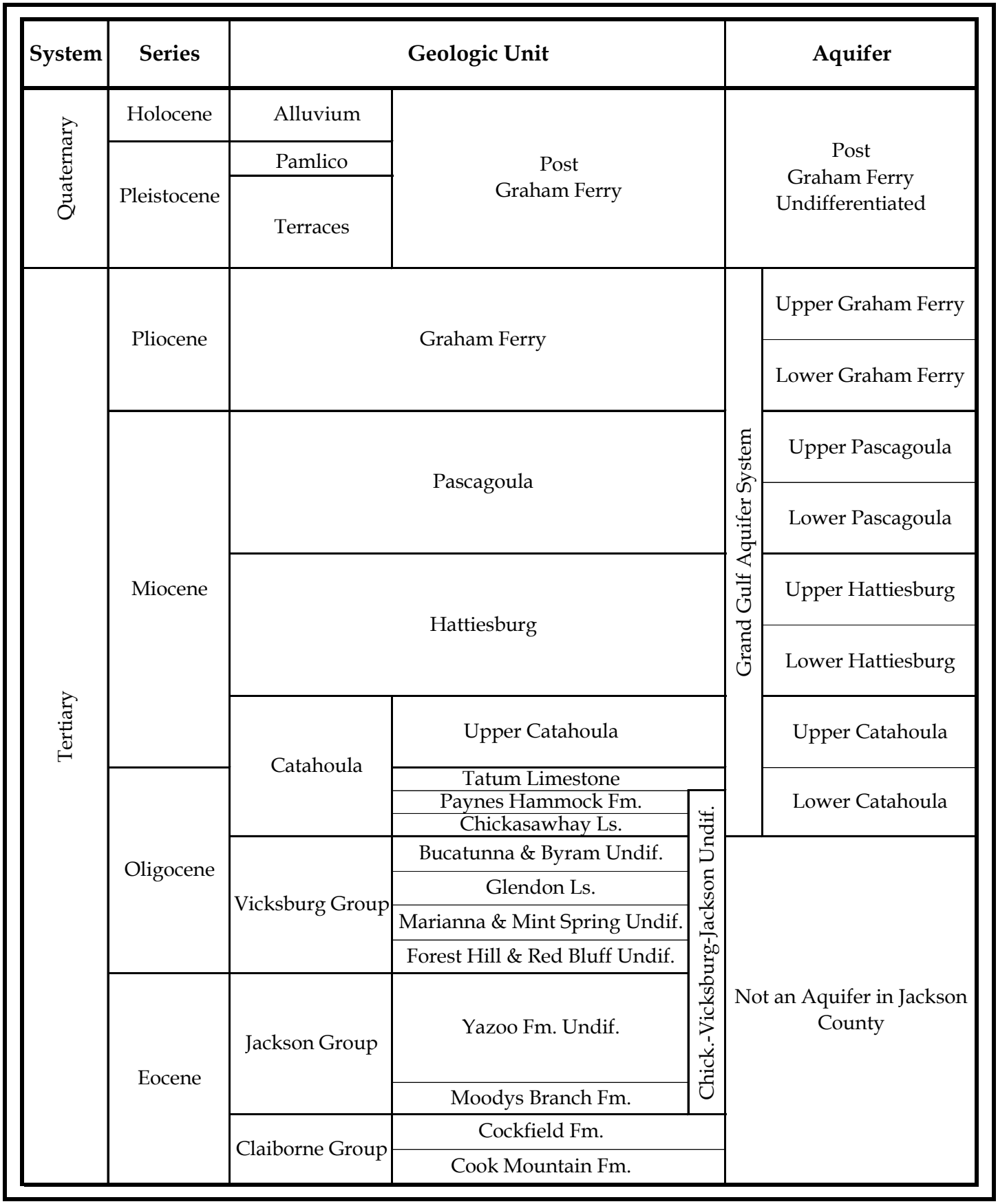
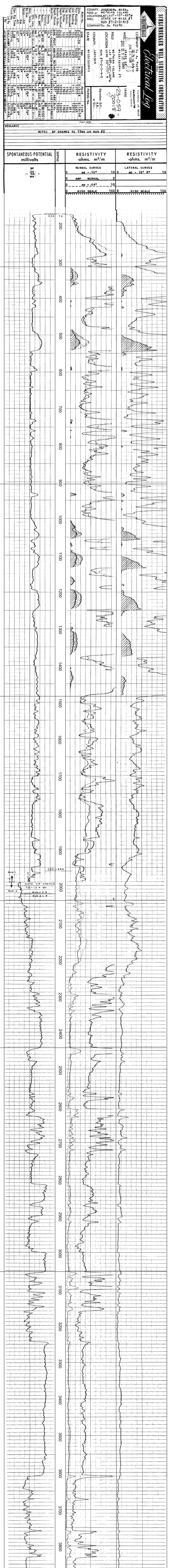



Figure 2: Stratigraphic Section and Geohydrologic Subdivision of Grand Gulf Aquifer System in Jackson County

(Modified from Hoffmann, et al, 2017)

C. A. Floto
State of Mississippi Well
Located 1000 Ft. North of Horn Island
in Mississippi Sound

Lat. 30 15’ 00” Scale 1” = 200’
Long. 88 43’ 48” Elv. KB 17’




Post Graham Ferry

Upper Graham Ferry

Lower Graham Ferry

Base of Fresh Water (1000 PPM TDS) @ 1483 ft.

Upper Pascagoula

Lower Pascagoula

Upper Hattiesburg

Lower Hattiesburg

Upper Catahoula

Lower Catahoula

Chickasawhay- Vicksburg-Jackson Group Udiff.
and the Cockfied Formation

Cook Mountain

Figure 3

## Jackson Co. Water Use and Projected Water Use

| Date | Population | Domestic Water Use | Other Water Use | Total Water Use |
|---|---|---|---|---|
| 2000 Actual | 131,420 | 15.47 | 5.81 | 21.28 |
| 2005 Actual | 134,950 | 11.45 | 2.75 | 14.20 |
| 2010 Actual | 139,668 | 13.37 | 2.62 | 15.99 |
| 2015 Estimated | 141,425 | 14.14 | 2.88 | 17.02 |
| 2020 Projected | 144,760 | 14.48 | 3.17 | 17.65 |
| 2025 Projected | 148,095 | 14.81 | 3.49 | 18.30 |

All water use volumes shown in millions of gallons per day.

The source of the actual water use for 2000, 2005, and 2010 is from the United States. Geological Survey (based on MDEQ water use surveys). The population for those years were reported by the U.S. Census Bureau, and the population reported for 2015 is an estimation. Population projections for 2020 and 2025 were made by assuming a constant growth rate of 3,335 people per five year period, based on the average population increase from 2000 to 2015. The domestic water use projections for 2015, 2020 and 2025 were made by multiplying the population by the average water use from 2000 to 2010 of 100 gallons per day per person. That value was then divided by 1,000,000 to convert it to millions of gallons per day (MGD). The other water use projections, such as industrial, irrigation, etc., were made by cumulatively increasing the 2010 volumes by 10% each five year period.

Figure 4

# Section III

# Tables

# Table 1

## Wells Used in Jackson County Cross Sections and Maps

# Wells Used in Jackson County Cross Sections and Maps

| Map No. | Well Owner | Well Name | Sec | Town | T-Dir | Range | R-Dir | Latitude | Longitude | Elv. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | S. Hagar & Others | #1 Phoenix #2 | 34 | 3 | S | 6 | W | 30.737786 | -88.577836 | 76 DF |
| 2 | The Ohio Oil Co. | L. N. Dantzler #2 | 30 | 3 | S | 8 | W | 30.759204 | -88.820805 | 82 DF |
| 3 | Jackson Co. School Bd. | East Central High School | 31 | 4 | S | 5 | W | 30.655139 | -88.518889 | 82 GR |
| 4 | Conoco Inc. | W. K. Middleton #1 | 35 | 4 | S | 5 | W | 30.657899 | -88.457702 | 75 DF |
| 5 | Jackson Co. Utility Auth. | Test Well #1 C127 | 13 | 4 | S | 6 | W | 30.702222 | -88.546111 | 80 GR |
| 6 | Langdon & Anderson | #1 E. H. Bacot et al | 25 | 4 | S | 6 | W | 30.663829 | -88.546055 | 59 DF |
| 7 | Mr. Jenkins | Well B4 | 34 | 4 | S | 7 | W | 30.657222 | -88.676388 | 143 GR |
| 8 | Pan American Petro. | #1 Gladys Carter | 14 | 4 | S | 8 | W | 30.703936 | -88.753203 | 134 DF |
| 9 | Office of Geology | Test Well Elico #1 | 34 | 4 | S | 8 | W | 30.651639 | -88.770972 | 168 GR |
| 10 | Amoco Prod. Co. | #1 Cumbest Unit 13-11 | 13 | 5 | S | 6 | W | 30.609788 | -88.540742 | 63.4 DF |
| 11 | Chesley Pruet | #1 ALCO Land & Lumber | 38 | 5 | S | 6 | W | 30.572057 | -88.608460 | 19 DF |
| 12 | J. R Brown & Crow Drlg. | #2 International Paper Co. | 17 | 5 | S | 7 | W | 30.615181 | -88.701874 | 125 DF |
| 13 | Davis Oil Co. | International Paper Co. #1 | 22 | 5 | S | 7 | W | 30.591108 | -88.670370 | 57.9 DF |
| 14 | J. R. Brown | International Paper Co. #1 | 22 | 5 | S | 7 | W | 30.589290 | -88.670241 | 63 DF |
| 15 | Southeastern Drlg. Co. | C. L. Dees #1 | 28 | 5 | S | 7 | W | 30.575405 | -88.682589 | 95 DF |
| 16 | Chesley Pruet | #1 International Paper Co. | 14 | 5 | S | 8 | W | 30.605359 | -88.764770 | 130 DF |
| 17 | Humble Oil & Ref. | L. N. Dantzler Lbr, Co. #B-1 | 20 | 5 | S | 8 | W | 30.601787 | -88.802062 | 108 DF |
| 18 | Weston Drlg. Co. | USA #1-J | 15 | 5 | S | 9 | W | 30.615861 | -88.878020 | 116 DF |
| 19 | St. Joseph Petroleum | #1 Dr. Mac J. Roberts | 29 | 6 | S | 4 | W | 30.490083 | -88.409515 | 29 KB |
| 20 | Arco Oil & Gas | #1 Fred Woods Jr. | 33 | 6 | S | 5 | W | 30.475199 | -88.491986 | 25 DF |
| 21 | Jackson Co. Utility Auth. | Test Well #7 L183 | 24 | 6 | S | 6 | W | 30.530278 | -88.544167 | 18 GR |
| 22 | Charles Ladner | Well L28 | 36 | 6 | S | 6 | W | 30.479100 | -88.540156 | 14 GR |
| 23 | Vancleave High School | Well K322 | 16 | 6 | S | 7 | W | 30.524722 | -88.686806 | 21 GR |
| 24 | Davis Oil Co. | #1 C. M. Dees | 18 | 6 | S | 7 | W | 30.528336 | -88.720559 | 72.3 DF |
| 25 | Jackson Co. Utility Auth. | Test Well #2 J512 | 2 | 6 | S | 8 | W | 30.550000 | -88.750556 | 85 GR |
| 26 | Christopher Gates | Well J492 | 24 | 6 | S | 9 | W | 30.510000 | -88.837778 | 40 GR |
| 27 | Moon-Hines-Tigrett | Coastal Exp. Van Camp 12-11 | 12 | 7 | S | 5 | W | 30.447950 | -88.439920 | 17.1 DF |
| 28 | Thiokol Chemical Corp. | Waste Disposal Well #2 | 19 | 7 | S | 5 | W | 30.427420 | -88.516327 | 20 DF |
| 29 | Browning & Welch | Green 33-2 #1 | 33 | 7 | S | 5 | W | 30.396008 | -88.487059 | 11.5 DF |
| 30 | Schooner Investments | Well O422 | 7 | 7 | S | 7 | W | 30.447222 | -88.718333 | 20 GR |
| 31 | Chesley Pruet | Willam C. Quinn #1 | 15 | 7 | S | 7 | W | 30.429496 | -88.678544 | 46 DF |
| 32 | City of Gautier | Well O286 | 35 | 7 | S | 7 | W | 30.397500 | -88.658300 | 21 GR |
| 33 | Imperial Resources | #1 Allar Co. | 38 | 7 | S | 7 | W | 30.391150 | -88.702549 | 31.4 DF |
| 34 | Chuck Stone | Well N1035 | 8 | 7 | S | 8 | W | 30.453611 | -88.812222 | 43 GR |
| 35 | St. Martin School | Well N150 | 16 | 7 | S | 8 | W | 30.440556 | -88.796667 | 25 GR |
| 36 | GC Research Lab | Well N497 | 33 | 7 | S | 8 | W | 30.394528 | -88.796250 | 18 GR |
| 37 | West Jackson Co. Utility | Well N996 | 11 | 7 | S | 9 | W | 30.446222 | -88.862222 | 25 GR |
| 38 | Chevron | Industrial Well Q103 | 20 | 8 | S | 5 | W | 30.332500 | -88.501389 | 5 GR |
| 39 | Ingalls Shipbuilding | Well #2 P145 | 6 | 8 | S | 6 | W | 30.356333 | -88.560778 | 13 DF |
| 40 | St. Andrews | Well O549 | 7 | 8 | S | 7 | W | 30.362500 | -88.721389 | 14 GR |

# Table 2

# Water Wells from Which Water Levels Were Measured or Samples Collected

# Water Wells From Which Water Levels Were Measured or Samples Collected

| Well No. | Permit No. | BOH No. | Well Owner | Well Name | Sec. | Town | Rng | Depth | Aquifer | Date Drilled | Lat | Long |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A108 | | | Brian Davis | | 14 | 4S | 8W | 624' | PCGLL | 10/31/07 | 30.6925 | -88.7539 |
| A135 | | | Jackson Co. Maintenance | Vestry Com. Center | 11 | 4S | 8W | 234' | PCGLU | 01/19/10 | 30.7189 | -88.7586 |
| B60 | | | Tommy Tootle Jr. | | 34 | 4S | 7W | 676' | PCGLU | 10/26/06 | 30.6481 | -88.6783 |
| C145 | MS-GW-16625 | 0300166-02 | Jackson Co. Utility Authority | Well #2 | 36 | 4S | 6W | 390' | PCGLU | 01/21/10 | 30.6494 | -88.5353 |
| C146 | MS-GW-16602 | 0300166-01 | Jackson Co. Utility Authority | Well #1 | 13 | 4S | 6W | 355' | PCGLU | 10/07/10 | 30.6989 | -88.5408 |
| D267 | | | First Federal Savings | | 33 | 4S | 5W | 300' | PCGLU | 04/21/07 | 30.6556 | -88.4928 |
| E176 | | | Jackson Co. Maintenance | Larue Com. Center | 12 | 5S | 9W | 786' | PCGLU | 12/30/10 | 30.6244 | -88.8481 |
| F120 | | | Tommy Tootle | | 04 | 5S | 7W | 243' | PCGLU | 09/29/94 | 30.6456 | -88.6822 |
| F164 | | | Vancleave Fire Dept. | | 19 | 5S | 7W | 840' | PCGLU | 06/10/03 | 30.5953 | -88.72 |
| F464 | | | GMTE Enterprises | | 30 | 5S | 7W | 288' | GRMFL | 05/30/12 | 30.5679 | -88.7203 |
| H172 | | | Jackson Co. Recreation Dept. | Soccer Field | 06 | 5S | 5W | 460' | PCGLU | 09/05/08 | 30.6169 | -88.4947 |
| J67 | | 0300087-01 | Tucker Hill Water Works | | 36 | 6S | 9W | 800' | GRMFL | 01/01/37 | 30.4764 | -88.8447 |
| J241 | MS-GW-15075 | 0300156-01 | West Jackson Co Utility Dist. | Jordan Road Sub. | 25 | 6S | 9W | 750' | GRMFL | 04/18/96 | 30.4989 | -88.8367 |
| J344 | MS-GW-16173 | 0300156-03 | West Jackson Co Utility Dist. | Bonanza Rd.- Well #3 | 34 | 6S | 9W | 780' | GRMFL | 07/15/06 | 30.4767 | -88.8731 |
| J566 | MS-GW-16585 | 0300164-01 | Jackson Co. Utility Authority | Well #1 | 24 | 6S | 9W | 1050' | PCGLU | 09/23/09 | 30.5094 | -88.8375 |
| J567 | MS-GW-16603 | 0300164-02 | Jackson Co. Utility Authority | Well #2 | 02 | 6S | 8W | 970' | PCGLU | 09/04/09 | 30.5494 | -88.7503 |
| J590 | MS-GW-16967 | 0300164-08 | Jackson Co. Utility Authority | Ridgeland | 15 | 6S | 8W | 730' | PCGLU | 07/28/14 | 30.5306 | -88.7719 |
| K147 | | 0300164-04 | Vancleave Jr. High School | | 09 | 6S | 7W | 260' | GRMFL | 11/09/80 | 30.5436 | -88.6892 |
| K163 | | | San Juan Fish Camp | | 38 | 6S | 7W | 1327' | PCGLL | 06/23/90 | 30.4927 | -88.6414 |
| K322 | MS-GW-15712 | 0300164-06 | Vancleave High School | | 16 | 6S | 7W | 1254' | PCGLL | 05/20/99 | 30.5247 | -88.6867 |
| K696 | MS-GW-16611 | 0300164-03 | Jackson Co. Utility Authority | Well #3 | 20 | 6S | 7W | 760' | PCGLU | 11/06/09 | 30.5036 | -88.7028 |
| K738 | MS-GW-16969 | 0300164-09 | Jackson Co. Utility Authority | Lab Well | 09 | 6S | 7W | 325' | GRMFL | 08/22/14 | 30.5325 | -88.6967 |
| K2044 | | 0300130-01 | Vancleave Community Center | | 16 | 6S | 7W | 318' | GRMFL | 09/27/77 | 30.5221 | -88.6941 |
| L9 | | | Lionell Smith | | 14 | 6S | 6W | 957' | PCGLL | 01/01/57 | 30.5217 | -88.5522 |
| L32 | MS-GW-12020 | 0300008-13 | Moss Point | Escatawpa (Well No.4) | 26 | 6S | 6W | 245' | GRMFL | 12/31/65 | 30.4917 | -88.5539 |
| L127 | MS-GW-11575 | 0300071-02 | Miss Power Co. Plant Daniel | | 11 | 6S | 6W | 636' | PCGLU | 02/01/90 | 30.5358 | -88.5567 |
| L183 | | | Jackson Co. Utility Authority | Surface Water Plant | 13 | 6S | 6W | 1180' | HBRGU | 01/10/09 | 30.53 | -88.5442 |
| M349 | MS-GW-01279 | | MDOT | | 32 | 6S | 4W | 403' | GRMFL | 09/12/83 | 30.4736 | -88.4053 |
| N37 | MS-GW-02065 | 0300043-01 | Coast Waterworks | Carolyn Dr. | 25 | 7S | 8W | 496' | GRMFL | 01/01/58 | 30.4075 | -88.7472 |
| N42 | | | Treasure Oak Country Club | | 20 | 7S | 8W | 1224' | PCGLU | 01/01/26 | 30.4192 | -88.805 |

# Water Wells From Which Water Levels Were Measured or Samples Collected

| Well No. | Permit No. | BOH No. | Well Owner | | Sec. | Town | Rng | Depth | Aquifer | Date Drilled | Lat | Long |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N48 | | | L and N Railroad | | 19 | 7S | 8W | 535' | GRMFL | 01/01/12 | 30.4147 | -88.8253 |
| N49 | | | L and N Railroad | | 19 | 7S | 8W | 1290' | PCGLU | 01/01/12 | 30.4147 | -88.825 |
| N51 | MS-GW-13850 | 0300005-02 | Ocean Springs | Porter St. | 25 | 7S | 9W | 872' | GRMFL | 01/01/25 | 30.4125 | -88.8339 |
| N53 | | | Ocean Springs | | 19 | 7S | 8W | 500' | GRMFL | 01/01/56 | 30.4125 | -88.8336 |
| N66 | | 0300156-12 | Coast Waterworks Inc. | Shore Dr. | 19 | 7S | 8W | 525' | GRMFL | 05/01/58 | 30.4242 | -88.8311 |
| N69 | MS-GW-13848 | 0300005-07 | Ocean Springs | Bechtel Rd. Well #7 | 29 | 7S | 8W | 540' | GRMFL | 05/10/95 | 30.4089 | -88.8058 |
| N73 | | | Magnolia Park | | 28 | 7S | 8W | 536' | GRMFL | 01/01/38 | 30.3994 | -88.7944 |
| N90 | | | Ocean Springs | Well #4 | 28 | 7S | 8W | 565' | GRMFL | 01/01/66 | 30.4089 | -88.7864 |
| N95 | MS-GW-00180 | 0300156-18 | West Jackson Co. Utility Dist. | Madison St. | 10 | 7S | 9W | 599' | GRMFL | 10/09/67 | 30.4503 | -88.8744 |
| N96 | MS-GW-02067 | 0300156-11 | West Jackson Co. Utility Dist. | Cherry Park - Apple Dr. | 10 | 7S | 9W | 853' | GRMFL | 01/01/68 | 30.4475 | -88.8778 |
| N159 | MS-GW-13849 | 0300005-01 | Ocean Springs | City Hall Well #1 | 37 | 7S | 8W | 881' | GRMFL | 05/14/63 | 30.4106 | -88.8269 |
| N175 | MS-GW-02068 | 0300156-10 | West Jackson Co Utility Dist. | April Bayou | 16 | 7S | 9W | 825' | GRMFL | 10/18/66 | 30.4389 | -88.8761 |
| N217 | MS-GW-02060 | 0300156-14 | West Jackson Co Utility Dist. | Hotel Well | 24 | 7S | 9W | 525' | GRMFL | 06/28/68 | 30.4272 | -88.8386 |
| N278 | MS-GW-00183 | 0300156-08 | West Jackson Co Utility Dist. | Windsor Park Sub. | 18 | 7S | 8W | 499' | GRMFL | 05/23/69 | 30.4283 | -88.8228 |
| N288 | MS-GW-00185 | 0300156-09 | West Jackson Co Utility Dist. | Fort Bayou Well #9 | 18 | 7S | 8W | 505' | GRMFL | 01/01/72 | 30.4407 | -88.8242 |
| N355 | MS-GW-00182 | 0300156-19 | West Jackson Co Utility Dist. | Waycross Tower | 10 | 7S | 9W | 792' | GRMFL | 11/10/71 | 30.45 | -88.8764 |
| N381 | MS-GW-02061 | 0300156-15 | West Jackson Co Utility Dist. | Puerto | 13 | 7S | 9W | 874' | GRMFL | 12/28/72 | 30.4353 | -88.845 |
| N391 | MS-GW-02062 | 0300156-13 | West Jackson Co Utility Dist. | El Bonita | 13 | 7S | 9W | 876' | GRMFL | 07/01/59 | 30.4317 | -88.8389 |
| N425 | MS-GW-13086 | 0300044-02 | Gulf Park Water Utility Service | Barnacle Rd | 11 | 8S | 8W | 1058' | GRMFL | 07/20/73 | 30.3661 | -88.7608 |
| N451 | MS-GW-02063 | 0300156-06 | West Jackson Co Utility Dist. | Sweet Brier-Twin By. | 07 | 7S | 8W | 865' | GRMFL | 06/11/74 | 30.4497 | -88.8253 |
| N461 | MS-GW-00181 | 0300156-17 | West Jackson Co Utility Dist. | Orleans St. | 10 | 7S | 9W | 792' | GRMFL | 06/01/64 | 30.4442 | -88.8686 |
| N462 | MS-GW-13085 | 0300044-01 | Gulf Park Water Utility Service | Marina Dr.-Well #2 | 35 | 7S | 8W | 525' | GRMFL | 10/15/73 | 30.3867 | -88.7656 |
| N472 | | | Frasiers Nursery | | 11 | 7S | 9W | 235' | GRMFU | 01/01/75 | 30.4442 | -88.8558 |
| N479 | MS-GW-01144 | | Gulf Coast Research Lab | | 33 | 7S | 8W | 578' | GRMFL | 06/07/76 | 30.3947 | -88.7961 |
| N487 | | | L. W. Ross | | 10 | 7S | 9W | 280' | GRMFU | 08/19/79 | 30.4528 | -88.8825 |
| N496 | MS-GW-01402 | | Ocean Springs Seafood | | 37 | 7S | 8W | 940' | GRMFL | 04/01/81 | 30.4056 | -88.8308 |
| N500 | MS-GW-12794 | 0300156-27 | West Jackson Co Utility Dist. | Well #27 | 14 | 7S | 9W | 798' | GRMFL | 12/01/81 | 30.4397 | -88.8544 |
| N505 | MS-GW-00184 | 0300156-07 | West Jackson Co Utility Dist. | Lancaster Well-Well #7 | 18 | 7S | 8W | 482' | GRMFL | 11/01/82 | 30.4336 | -88.8211 |
| N511 | | | Tommy Moreton | | 20 | 7S | 8W | 1280' | PCGLU | 07/01/84 | 30.4178 | -88.8036 |
| N512 | MS-GW-02064 | 0300156-16 | West Jackson Co. Utility Dist. | Ridge & Pine | 13 | 7S | 9W | 512' | GRMFL | 02/02/78 | 30.4297 | -88.8331 |

# Water Wells From Which Water Levels Were Measured or Samples Collected

| Well No. | Permit No. | BOH No. | Well Owner | | Sec. | Town | Rng | Depth | Aquifer | Date Drilled | Lat | Long |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N517 | MS-GW-13851 | 0300005-06 | Ocean Springs | Halstead Rd.-Well #8 | 29 | 7S | 8W | 566' | GRMFL | 03/12/85 | 30.4053 | -88.7997 |
| N520 | MS-GW-13847 | 0300005-03 | Ocean Springs | Hardy St.-Well #2 | 19 | 7S | 8W | 533' | GRMFL | 05/01/83 | 30.415 | -88.8233 |
| N535 | MS-GW-02066 | 0300042-01 | West Jackson Co. Utility Dist. | Honey Suckle Rd, | 12 | 7S | 9W | 476' | GRMFL | 01/01/61 | 30.4458 | -88.8436 |
| N543 | MS-GW-11991 | 0300005-09 | Ocean Springs | Pabst Rd.-Well #9 | 27 | 7S | 8W | 535' | GRMFL | 08/14/90 | 30.4086 | -88.7753 |
| N544 | MS-GW-13150 | | Custom Pack Inc. | | 01 | 8S | 8W | 1330' | PCGLU | 01/08/91 | 30.3786 | -88.7472 |
| N566 | MS-GW-14731 | 0300005-10 | Ocean Springs | Washington St. | 37 | 7S | 8W | 955' | GRMFL | 04/01/94 | 30.4108 | -88.8275 |
| N715 | MS-GW-15303 | 0300044-06 | Gulf Park Water Utility Service | 7th Street Well | 35 | 7S | 8W | 565' | GRMFL | 05/20/98 | 30.3939 | -88.7586 |
| N719 | MS-GW-15302 | 0300044-07 | Gulf Park Water Utility Service | Edge Water Blvd | 02 | 8S | 8W | 576' | GRMFL | 10/20/98 | 30.3772 | -88.7564 |
| N738 | MS-GW-15368 | 0300160-01 | Gulf Park Water Utility Service | Point Aux Chenes | 01 | 8S | 8W | 576' | GRMFL | 10/11/99 | 30.3739 | -88.7431 |
| N739 | MS-GW-15305 | 0300156-02 | West Jackson Co Utility Dist. | Tucker Rd.-Well #2 | 01 | 7S | 9W | 820' | GRMFL | 12/13/99 | 30.4614 | -88.8439 |
| N741 | MS-GW-15935 | 0300156-04 | West Jackson Co Utility Dist. | Tucker Rd.-Well #4 | 16 | 7S | 8W | 873' | GRMFL | 02/09/01 | 30.4283 | -88.7911 |
| N743 | MS-GW-15702 | 0300044-08 | Gulf Park Water Utility Service | Shell St. (Starfish) | 11 | 8S | 8W | 593' | GRMFL | 10/16/01 | 30.36 | -88.7517 |
| N888 | MS-GW-16149 | 0300156-28 | West Jackson Co Utility Dist. | Well #28 | 14 | 7S | 9W | 820' | GRMFL | 03/21/05 | 30.4414 | -88.8631 |
| N1043 | MS-GW-16239 | 0300156-23 | West Jackson Co Utility Dist. | Well #23 | 11 | 7S | 9W | 800' | GRMFL | 03/17/09 | 30.4464 | -88.8617 |
| N1048 | MS-GW-16345 | 0300005-12 | Ocean Springs | Deana Rd. | 23 | 7S | 8W | 510' | GRMFL | 03/05/08 | 30.4172 | -88.7642 |
| N1050 | MS-GW-16521 | 0300156-24 | West Jackson Co Utility Dist. | St. Martin High Sch. | 16 | 7S | 8W | 465' | GRMFL | 05/18/09 | 30.4408 | -88.7972 |
| O74 | | | James Grimsley | McVey | 07 | 8S | 7W | 1395' | PCGLU | 01/01/62 | 30.3664 | -88.7203 |
| O156 | MS-GW-07203 | 0300004-02 | Gautier | Woodlane | 13 | 8S | 7W | 768' | GRMFL | 08/17/70 | 30.3814 | -88.6475 |
| O197 | MS-GW-14496 | 0300033-01 | Saint Andrews Water | Golf Course | 17 | 8S | 7W | 628' | GRMFU | 05/16/69 | 30.3533 | -88.7142 |
| O206 | MS-GW-07205 | 0300004-05 | Gautier | Springwood Rd. | 12 | 8S | 7W | 773' | GRMFL | 05/19/72 | 30.3736 | -88.6433 |
| O208 | MS-GW-07201 | 0300004-04 | Gautier | Westgate | 24 | 7S | 7W | 762' | GRMFL | 11/06/72 | 30.415 | -88.6475 |
| O213 | MS-GW-14495 | 0300033-02 | Saint Andrews Water | Woods | 18 | 8S | 7W | 717' | GRMFL | 10/31/72 | 30.3506 | -88.7183 |
| O273 | | | W. W. Richardson | | 12 | 8S | 7W | 330' | GRMFU | 01/01/75 | 30.3625 | -88.6497 |
| O283 | MS-GW-01468 | | Miss. Gulf Coast Com. Col. | | 36 | 7S | 7W | 870' | GRMFL | 06/07/78 | 30.3939 | -88.6467 |
| O286 | MS-GW-15184 | 0300004-07 | Gautier | Mall | 35 | 7S | 7W | 577' | GRMFL | 11/04/79 | 30.3975 | -88.6583 |
| O288 | | | Mallette Brothers Construction | | 35 | 7S | 7W | 315' | GRMFU | 06/14/79 | 30.3867 | -88.6525 |
| O295 | MS-GW-03433 | 0300004-09 | Gautier | Honduras-Merida | 15 | 8S | 7W | 584' | GRMFL | 03/14/81 | 30.3778 | -88.6628 |
| O297 | | 0300113-02 | Ocean Beach Utility | | 19 | 8S | 7W | 365' | GRMFU | 05/28/83 | 30.36 | -88.7056 |
| O300 | MS-GW-03431 | 0300004-03 | Gautier | Bonita | 15 | 8S | 7W | 596' | GRMFL | 09/21/70 | 30.3842 | -88.6628 |

# Water Wells From Which Water Levels Were Measured or Samples Collected

| Well No. | Permit No. | BOH No. | Well Owner | | Sec. | Town | Rng | Depth | Aquifer | Date Drilled | Lat | Long |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O307 | MS-GW-15185 | 0300004-08 | Gautier | Office | 35 | 7S | 7W | 573' | GRMFL | 05/13/80 | 30.3897 | -88.6525 |
| O310 | MS-GW-00348 | 0300005-11 | Ocean Springs | Sunplex | 19 | 7S | 7W | 493' | GRMFL | 07/01/86 | 30.4228 | -88.7194 |
| O313 | MS-GW-05615 | 0300004-10 | Gautier | Old Drive-in - Beasley | 34 | 7S | 7W | 541' | GRMFL | 11/24/86 | 30.3933 | -88.6672 |
| O314 | MS-GW-01388 | 0300004-06 | Gautier | Martin Bluff Well #2 | 37 | 7S | 7W | 847' | PCGLU | 02/06/73 | 30.44 | -88.6322 |
| O319 | MS-GW-01309 | 0300004-01 | Gautier | Martin Bluff Well #1 | 37 | 7S | 7W | 730' | PCGLU | 01/21/68 | 30.44 | -88.6319 |
| O392 | | | National Park Service | Horn Island | 22 | 9S | 7W | 835' | GRMFU | 12/01/94 | 30.2339 | -88.6686 |
| O422 | MS-GW-15736 | 0300004-11 | Gautier | HWY 57 | 07 | 7S | 7W | 830' | GRMFL | 01/25/01 | 30.4478 | -88.7172 |
| O605 | MS-GW-17154 | 0300113-04 | Ocean Beach Utility Service | Willow | 08 | 8S | 7W | 580' | GRMFU | 09/02/14 | 30.3589 | -88.7136 |
| O613 | MS-GW-15329 | 0300113-03 | Ocean Beach Utility Service | Apple | 19 | 8S | 7W | 610' | GRMFU | 04/01/99 | 30.3511 | -88.6908 |
| P45 | | | Moss Point Presbyterian Church | | 10 | 7S | 6W | 806' | GRMFL | 01/01/08 | 30.4158 | -88.5483 |
| P54 | MS-GW-01411 | 0300008-01 | Moss Point | Parallel | 16 | 7S | 6W | 828' | GRMFL | 01/01/58 | 30.4064 | -88.5367 |
| P68 | MS-GW-01957 | 0300006-03 | Pascagoula | North Market | 07 | 8S | 6W | 292' | GRMFU | 01/01/56 | 30.3789 | -88.5486 |
| P69 | MS-GW-01958 | 0300006-04 | Pascagoula | Telephone | 01 | 8S | 6W | 302' | GRMFU | 01/01/56 | 30.3786 | -88.5378 |
| P72 | MS-GW-02721 | | Pascagoula Ice | | 07 | 8S | 6W | 336' | GRMFU | 01/01/49 | 30.3717 | -88.5533 |
| P108 | MS-GW-01649 | 0300014-01 | Jackson Co. Port Athority | West Bank | 00 | 8S | 6W | 777' | GRMFL | 03/01/57 | 30.3597 | -88.5683 |
| P124 | MS-GW-01954 | 0300006-01 | Pascagoula | Communy-Well #1 | 05 | 8S | 6W | 801' | GRMFL | 01/01/43 | 30.3592 | -88.5528 |
| P134 | MS-GW-14952 | 0300006-11 | Pascagoula | Beach | 06 | 8S | 6W | 750' | GRMFL | 01/01/46 | 30.3447 | -88.5547 |
| P145 | MS-GW-01680 | 0300009-02 | Ingalls Shipbuilding | East Bank | 05 | 8S | 6W | 805' | GRMFL | 03/29/68 | 30.3564 | -88.5608 |
| P150 | MS-GW-01955 | 0300006-02 | Pascagoula | Communy-Well #2 | 05 | 8S | 6W | 788' | GRMFL | 07/29/65 | 30.3592 | -88.5533 |
| P226 | MS-GW-12018 | 0300008-11 | Moss Point | Neese | 12 | 7S | 6W | 345' | GRMFL | 01/03/66 | 30.4433 | -88.5378 |
| P228 | | | Escatawpa Subur. Utility | | 12 | 7S | 6W | 415' | GRMFL | 01/01/64 | 30.4469 | -88.5386 |
| P229 | MS-GW-01412 | 0300008-02 | Moss Point | Bellview | 10 | 7S | 6W | 890' | GRMFL | 06/15/66 | 30.4122 | -88.5594 |
| P326 | | | Tiki Restaurant | | 08 | 7S | 6W | 262' | GRMFU | 01/01/70 | 30.3894 | -88.6142 |
| P348 | MS-GW-01679 | 0300009-01 | Ingalls Shipbuilding | East Bank | 06 | 8S | 6W | 809' | GRMFL | 03/03/72 | 30.3497 | -88.5606 |
| P349 | MS-GW-01681 | 0300010-02 | Ingalls Shipbuilding | West Bank No. 2 | 00 | 8S | 6W | 782' | GRMFL | 09/01/72 | 30.3544 | -88.5719 |
| P355 | MS-GW-01414 | 0300008-04 | Moss Point | Community | 36 | 7S | 6W | 827' | GRMFL | 03/16/73 | 30.3978 | -88.535 |
| P372 | MS-GW-01956 | 0300006-09 | Pascagoula | Communy-Well #3 | 05 | 8S | 6W | 346' | GRMFU | 02/05/75 | 30.3592 | -88.5531 |
| P373 | MS-GW-01678 | 0300010-01 | Ingalls Shipbuilding | West Bank No. 1 | 00 | 8S | 6W | 320' | GRMFU | 09/01/76 | 30.3558 | -88.5783 |
| P376 | MS-GW-12019 | 0300008-12 | Moss Point-Escatawpa | Rabie | 12 | 7S | 6W | 417' | GRMFL | 03/01/76 | 30.4467 | -88.5386 |
| P382 | MS-GW-01415 | 0300008-05 | Moss Point | Howze | 15 | 7S | 6W | 846' | GRMFL | 12/14/78 | 30.4075 | -88.5475 |

# Water Wells From Which Water Levels Were Measured or Samples Collected

| Well No. | Permit No. | BOH No. | Well Owner | | Sec. | Town | Rng | Depth | Aquifer | Date Drilled | Lat | Long |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P395 | MS-GW-01141 | | Magnolia Oaks Condos | | 02 | 8S | 6W | 300' | GRMFU | 07/14/74 | 30.3828 | -88.6147 |
| P409 | MS-GW-01682 | 0300010-03 | Ingalls Shipbuilding | West Bank No. 3 | 00 | 8S | 6W | 597' | GRMFL | 05/01/69 | 30.3547 | -88.5717 |
| P429 | MS-GW-07765 | 0300147-01 | State of Mississippi | Home Port | 00 | 8S | 6W | 360' | GRMFU | 03/21/90 | 30.3339 | -88.5772 |
| P430 | MS-GW-07766 | 0300147-02 | State of Mississippi | Home Port | 00 | 8S | 6W | 362' | GRMFU | 12/01/88 | 30.3372 | -88.5722 |
| P455 | MS-GW-14774 | 0300008-07 | Moss Point | Payne | 16 | 7S | 6W | 860' | GRMFL | 10/07/97 | 30.4056 | -88.5367 |
| P458 | MS-GW-15791 | 0300006-12 | Pascagoula | 14th street | 01 | 8S | 6W | 325' | GRMFU | 02/01/02 | 30.3757 | -88.5406 |
| P488 | MS-GW-16158 | 0300008-08 | Moss Point | Palmetto | 36 | 7S | 6W | 846' | GRMFL | 12/02/05 | 30.3969 | -88.5353 |
| P495 | MS-GW-16862 | 0300006-13 | Pascagoula | Communy-Well #4 | 05 | 8S | 6W | 330' | GRMFU | 04/08/11 | 30.3586 | -88.5519 |
| Q19 | MS-GW-08529 | | Omega Protein Inc. | Zapata | 19 | 7S | 5W | 950' | PCGLU | 01/01/56 | 30.4239 | -88.5136 |
| Q25 | | | Smith Fisheries | | 20 | 7S | 5W | 200' | GRMFU | 01/01/42 | 30.4264 | -88.5111 |
| Q34 | | | Orange Grove School | | 14 | 7S | 5W | 1253' | PCGLL | 01/01/47 | 30.4308 | -88.4478 |
| Q43 | | | John Glennon | Fish Camp | 36 | 7S | 5W | 370' | GRMFU | 01/01/53 | 30.3864 | -88.4394 |
| Q96 | | | Longfellow House | | 18 | 8S | 5W | 810' | GRMFL | 01/01/14 | 30.3431 | -88.5272 |
| Q100 | | | Chevron Corp. | | 20 | 8S | 5W | 374' | GRMFU | 01/01/57 | 30.3325 | -88.5022 |
| Q106 | | | US Geological Survey | | 16 | 8S | 5W | 348' | GRMFU | 01/01/59 | 30.3414 | -88.4947 |
| Q110 | MS-GW-06127 | 0300012-01 | Miss. Phosphate | | 17 | 8S | 5W | 363' | GRMFU | 04/01/57 | 30.3489 | -88.5006 |
| Q112 | | | Jackson County | | 09 | 8S | 5W | 202' | GRMFU | 01/01/60 | 30.3567 | -88.4939 |
| Q137 | MS-GW-02132 | 0300011-02 | Chevron Products Co. | North Well | 16 | 8S | 5W | 387' | GRMFU | 05/31/62 | 30.3517 | -88.4892 |
| Q149 | | | Dairy Fresh Corp. | | 31 | 7S | 5W | 333' | GRMFU | 01/01/63 | 30.3853 | -88.5169 |
| Q159 | MS-GW-02140 | | Rohm and Haas Chemicals LLC | | 19 | 7S | 5W | 231' | GRMFU | 09/08/64 | 30.4258 | -88.5142 |
| Q160 | MS-GW-02141 | | Morton East | | 17 | 7S | 5W | 236' | GRMFU | 08/23/65 | 30.425 | -88.5164 |
| Q164 | MS-GW-01963 | 0300006-07 | Pascagoula | | 18 | 8S | 5W | 682' | GRMFL | 06/11/65 | 30.3553 | -88.5239 |
| Q166 | | | Moss Point | | 29 | 7S | 5W | 645' | GRMFL | 01/01/64 | 30.4028 | -88.5081 |
| Q180 | MS-GW-01961 | 0300006-05 | Pascagoula | B. C. | 30 | 8S | 5W | 663' | GRMFL | 06/09/65 | 30.3617 | -88.5253 |
| Q181 | MS-GW-01962 | 0300006-06 | Pascagoula | Douglas | 18 | 8S | 5W | 682' | GRMFL | 06/11/65 | 30.3583 | -88.5233 |
| Q293 | MS-GW-01959 | 0300006-08 | Pascagoula | Sears | 06 | 8S | 5W | 337' | GRMFU | 06/05/69 | 30.3839 | -88.5211 |
| Q379 | | 0300013-01 | Jackson Co. Port Authority | | 17 | 8S | 5W | 374' | GRMFU | 01/01/64 | 30.3472 | -88.5039 |
| Q403 | | | US Geological Survey | | 17 | 8S | 5W | 346' | GRMFU | 01/01/74 | 30.3472 | -88.4972 |
| Q407 | | | Pascagoula | Old Chateau | 05 | 7S | 5W | 327' | GRMFU | 01/01/74 | 30.3794 | -88.5075 |

# Water Wells From Which Water Levels Were Measured or Samples Collected

| Well No. | Permit No. | BOH No. | Well Owner | | Sec. | Town | Rng | Depth | Aquifer | Date Drilled | Lat | Long |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q417 | MS-GW-01413 | 0300008-03 | Moss Point | Sue Ellen | 30 | 7S | 5W | 802' | GRMFL | 08/29/68 | 30.3997 | -88.5233 |
| Q420 | MS-GW-01960 | 0300006-10 | Pascagoula | Chateau | 05 | 8S | 5W | 352' | GRMFU | 05/24/76 | 30.3792 | -88.5078 |
| Q424 | | | Pascagoula | | 30 | 8S | 5W | 182' | GRMFU | 09/02/76 | 30.3622 | -88.5253 |
| Q429 | MS-GW-01277 | 0300149-01 | MDOT | | 01 | 7S | 5W | 565' | GRMFL | 03/16/83 | 30.4622 | -88.4347 |
| Q430 | MS-GW-01278 | | MDOT | | 01 | 7S | 5W | 577' | GRMFL | 09/01/83 | 30.4592 | -88.4356 |
| Q434 | MS-GW-01416 | 0300008-14 | Moss Point | Hardy's | 18 | 7S | 5W | 435' | GRMFL | 10/01/84 | 30.4383 | -88.5256 |
| Q445 | | | Jackson Co. Port Authority | Surface Water Plant | 34 | 7S | 5W | 279' | GRMFU | 06/04/82 | 30.3961 | -88.4783 |
| Q456 | | | John Hudson | Alligator Farm | 13 | 7S | 5W | 563' | GRMFL | 05/26/92 | 30.4344 | -88.4381 |
| Q464 | | | Jimmy Stork | | 19 | 7S | 4W | 340' | GRMFL | 07/13/84 | 30.415 | -88.4178 |
| Q465 | | | Norman Saksa | | 18 | 7S | 4W | 339' | GRMFL | 01/03/89 | 30.4417 | -88.42 |
| Q600 | MS-GW-16157 | 0300008-09 | Moss Point | New Sue Ellen | 30 | 7S | 5W | 830' | GRMFL | 12/02/05 | 30.3997 | -88.5242 |
| Q601 | MS-GW-16159 | 0300008-10 | Moss Point | Hubert | 31 | 7S | 5W | 830' | GRMFL | 06/02/06 | 30.3964 | -88.5297 |
| Q633 | | | Grand Bay Coastal Research | NERR | 18 | 7S | 4W | 168' | GRMFU | 05/01/08 | 30.4297 | -88.4283 |

# Table 3

# Jackson County Water Levels

# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| A0135 | Jackson Co. Maintenance | Vestry Com. Center | | 03/22/16 | 45.8 | 129.2 | 175' Elv. |
| C0145 | Jackson Co. Utility Auth. | Well #2 | MS-GW-16625 | 04/17/15 | 15.50 | 35.50 | 51' Elv. |
| C0146 | Jackson Co. Utility Auth. | Well #1 | MS-GW-16602 | 04/17/15 | 7.90 | 57.10 | 65' Elv. |
| E0176 | Jackson Co. Maintenance | Larue Com. Center | | 03/22/16 | 88.30 | 43.70 | 132' Elv. |
| J0067 | Tucker Hill Waterworks Inc. | | | 07/01/62<br>03/10/94 | 11.00<br>53.75 | 39.00<br>-3.75 | 50' Elv. |
| J0241 | West Jackson Co. Utility | Jordan Road Sub. | MS-GW-15075 | 09/22/15 | 65.10 | -24.10 | 41' Elv. |
| J0344 | West Jackson Co. Utility | Bonanza Rd | MS-GW-16173 | 09/22/15 | 84.70 | -48.70 | 36' Elv. |
| J0566 | Jackson Co. Utility Auth. | Well #1 | MS-GW-16585 | 04/17/15 | 17.70 | 24.30 | 42' Elv. |
| J0567 | Jackson Co. Utility Auth. | Well #2 | MS-GW-16603 | 08/13/15 | 72.60 | 20.40 | 93' Elv. |
| J0590 | Jackson Co. Utility Auth. | Ridgeland | MS-GW-16967 | 08/13/15 | 59.70 | 10.30 | 70' Elv. |

**WL BLS - Water level below land surface  Water levels with a negative value are above GL  GL - Ground level**
**WL ELV. - Water level relative to mean sea level  Water levels with a negative value are below sea level**

# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| K0147 | Vancleave Jr. High School | | | 11/09/80 | 25.00 | 6.00 | 31' Elv. |
| | | | | 10/28/82 | 27.97 | 3.03 | |
| | | | | 12/05/85 | 30.00 | 1.00 | |
| | | | | 07/20/94 | 35.90 | -4.90 | |
| | | | | 01/28/16 | 7.00 | 24.00 | |
| K0322 | Vancleave High School | | | 01/28/16 | -13.86 | 41.86 | 28' Elv. |
| K0696 | Jackson Co. Utility Auth. | Well #3 | MS-GW-16611 | 04/17/15 | 72.2 | -26.20 | 46' Elv. |
| K0738 | Jackson Co. Utility Auth. | Lab Well | MS-GW-16969 | 01/28/16 | 65.4 | -20.40 | 45' Elv. |
| K2044 | Vancleave Community Center | | | 05/03/94 | 43.06 | -15.06 | 28' Elv. |
| L0009 | Lionell Smith | | | 01/01/58 | -18.00 | 30.00 | 12' Elv. |
| | | | | 10/27/82 | -13.00 | 25.00 | |
| | | | | 11/20/85 | -10.50 | 22.50 | |
| | | | | 10/05/86 | -10.40 | 22.40 | |
| | | | | 07/07/88 | -9.70 | 21.70 | |
| | | | | 07/21/94 | -13.00 | 25.00 | |
| L0032 | Moss Point | Ecatawpa - Well No.4 | MS-GW-12020 | 10/01/82 | 54.72 | -38.72 | 16' Elv. |
| | | | | 02/17/94 | 82.37 | -66.37 | |
| L0127 | Miss Power Co. | | | 01/13/16 | 41.20 | -21.20 | 20' Elv. |

**WL BLS - Water level below land surface  Water levels with a negative value are above GL  GL - Ground level**
**WL ELV. - Water level relative to mean sea level  Water levels with a negative value are below sea level**

# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| M0349 | MDOT | | MS-GW-01279 | 02/15/94 | -12.00 | 24.00 | 10' Elv. |
| | | | | 01/27/16 | -9.24 | 19.24 | |
| N0037 | Coast Waterworks | Carolyn Dr. | | 03/09/94 | 71.70 | -51.70 | 20' Elv. |
| N0048 | L and N Railroad | | | 01/01/28 | -30.00 | 53.00 | 23' Elv. |
| | | | | 01/01/39 | -8.00 | 31.00 | |
| | | | | 12/09/58 | 11.58 | 11.42 | |
| | | | | 01/13/60 | 14.24 | 8.76 | |
| | | | | 10/26/61 | 18.20 | 4.80 | |
| | | | | 01/31/62 | 12.87 | 10.13 | |
| | | | | 07/24/63 | 13.94 | 9.06 | |
| | | | | 07/07/65 | 16.60 | 6.40 | |
| | | | | 01/04/66 | 15.62 | 7.38 | |
| | | | | 04/06/67 | 22.82 | 0.18 | |
| | | | | 04/09/68 | 17.07 | 5.93 | |
| | | | | 04/10/69 | 22.37 | 0.63 | |
| | | | | 04/22/70 | 21.55 | 1.45 | |
| | | | | 04/30/71 | 38.67 | -15.67 | |
| | | | | 04/21/72 | 42.29 | -19.29 | |
| | | | | 04/25/73 | 48.80 | -25.80 | |
| | | | | 12/04/74 | 55.56 | -32.56 | |
| | | | | 06/11/75 | 50.90 | -27.90 | |
| | | | | 04/20/76 | 55.58 | -32.58 | |
| | | | | 04/20/77 | 56.24 | -33.24 | |
| | | | | 04/11/78 | 61.84 | -38.84 | |
| | | | | 03/05/79 | 61.34 | -38.34 | |
| | | | | 06/04/80 | 65.67 | -42.67 | |
| | | | | 03/19/81 | 73.13 | -50.13 | |
| | | | | 04/28/82 | 73.26 | -50.26 | |
| | | | | 04/21/83 | 77.56 | -54.56 | |
| | | | | 03/29/84 | 79.92 | -56.92 | |

**WL BLS - Water level below land surface  Water levels with a negative value are above GL  GL - Ground level**
**WL ELV. - Water level relative to mean sea level  Water levels with a negative value are below sea level**

# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| N0048 | L and N Railroad (Continued) | | | 10/24/84 | 76.22 | -53.22 | 23' Elv. |
| | | | | 04/16/85 | 77.88 | -54.88 | |
| | | | | 04/23/86 | 82.15 | -59.15 | |
| | | | | 04/08/87 | 82.00 | -59.00 | |
| | | | | 04/26/88 | 84.21 | -61.21 | |
| | | | | 04/06/89 | 92.17 | -69.17 | |
| | | | | 04/18/90 | 95.00 | -72.00 | |
| | | | | 04/03/91 | 95.10 | -72.10 | |
| | | | | 04/15/92 | 96.64 | -73.64 | |
| | | | | 05/19/93 | 94.30 | -71.30 | |
| | | | | 01/20/94 | 97.70 | -74.70 | |
| | | | | 04/11/95 | 86.97 | -63.97 | |
| | | | | 01/18/96 | 95.58 | -72.58 | |
| | | | | 04/03/97 | 61.81 | -38.81 | |
| | | | | 03/12/98 | 42.94 | -19.94 | |
| N0049 | L and N Railroad | | | 05/17/74 | -28.50 | 53.50 | 25' Elv. |
| | | | | 12/04/74 | -24.30 | 49.30 | |
| | | | | 04/20/77 | -24.00 | 49.00 | |
| | | | | 04/11/78 | -23.71 | 48.71 | |
| | | | | 10/05/78 | -21.87 | 27.87 | |
| | | | | 03/05/79 | -23.95 | 28.95 | |
| | | | | 11/06/79 | -20.90 | 45.90 | |
| | | | | 10/22/81 | -11.98 | 36.98 | |
| N0051 | Ocean Springs | Porter St. | MS-GW-13850 | 02/15/94 | 32.70 | -17.70 | 15' Elv. |
| N0053 | Ocean Springs | | | 10/22/82 | 82.40 | -62.40 | 20' Elv. |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| N0066 | Coast Waterworks | Shore Dr. | | 10/29/82 | 59.00 | -49.00 | 10' Elv. |
| | West Jackson Co. Utility Dist. | | | 05/12/05 | 97.50 | -87.50 | |
| N0069 | Ocean Springs | Bechtel Rd.- Well #7 | MS-GW-13848 | 05/01/84 | 75.00 | -52.00 | 23' Elv. |
| | | | | 02/15/94 | 41.00 | -18.00 | |
| N0073 | Magnolia Park | | | 06/22/56 | 1.82 | 20.18 | 22' Elv. |
| | | | | 03/22/57 | 1.22 | 20.78 | |
| | | | | 01/16/58 | 1.59 | 20.41 | |
| | | | | 03/05/59 | 2.47 | 19.53 | |
| | | | | 01/08/60 | 3.76 | 18.24 | |
| | | | | 01/24/61 | 6.49 | 15.51 | |
| | | | | 01/31/62 | 5.01 | 16.99 | |
| | | | | 07/24/63 | 7.50 | 14.50 | |
| | | | | 04/21/64 | 6.98 | 15.02 | |
| | | | | 04/13/65 | 8.79 | 13.21 | |
| | | | | 04/06/67 | 13.26 | 8.74 | |
| | | | | 04/09/68 | 11.55 | 10.45 | |
| | | | | 04/10/69 | 16.40 | 5.60 | |
| | | | | 04/30/71 | 27.96 | -5.96 | |
| | | | | 04/21/72 | 31.75 | -9.75 | |
| | | | | 04/25/73 | 37.09 | -15.09 | |
| | | | | 06/07/74 | 49.65 | -27.65 | |
| | | | | 06/12/75 | 45.68 | -23.68 | |
| | | | | 04/20/76 | 48.61 | -26.61 | |
| | | | | 04/20/77 | 51.14 | -29.14 | |
| | | | | 04/11/78 | 54.82 | -32.82 | |
| | | | | 03/05/79 | 60.23 | -38.23 | |

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**WL ELV. - Water level relative to mean sea level  Water levels with a negative value are below sea level**

# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| N0073 | Magnolia Park (Continued) | | | 06/04/80 | 63.83 | -41.83 | 22' Elv. |
| | | | | 03/19/81 | 62.19 | -40.19 | |
| | | | | 04/29/82 | 66.20 | -44.20 | |
| | | | | 04/21/83 | 68.08 | -46.08 | |
| | | | | 03/29/84 | 68.99 | -46.99 | |
| | | | | 04/16/85 | 70.57 | -48.57 | |
| | | | | 04/22/86 | 69.41 | -47.41 | |
| | | | | 04/08/87 | 74.75 | -52.75 | |
| | | | | 04/27/88 | 76.34 | -54.34 | |
| | | | | 04/06/89 | 80.12 | -58.12 | |
| | | | | 04/18/90 | 78.90 | -56.90 | |
| N0090 | Ocean Springs | Well #4 | | 04/01/66 | 10.00 | 10.00 | 20' Elv. |
| | | | | 06/19/79 | 67.38 | -47.38 | |
| | | | | 10/22/82 | 74.64 | -54.64 | |
| | | | | 04/26/85 | 74.58 | -54.58 | |
| N0095 | West Jackson Co. Utility Dist. | Madison St. | MS-GW-00180 | 10/01/67 | 25.00 | 15.00 | 39' Elv. |
| | | | | 02/16/94 | 73.00 | -33.00 | |
| N0096 | West Jackson Co. Utility Dist. | Cherry Park - Apple Dr. | MS-GW-02067 | 01/26/68 | 13.00 | -2.00 | 11' Elv. |
| | | | | 02/16/94 | 46.70 | -9.70 | |
| N0159 | Ocean Springs | City Hall - Well #1 | MS-GW-13849 | 05/14/63 | 5.00 | 17.00 | 22' Elv. |
| | | | | 02/15/94 | 38.00 | -16.00 | |
| N0175 | West Jackson Co. Utility Dist. | April Bayou | MS-GW-02068 | 10/01/66 | 11.00 | -2.00 | 9' Elv. |
| | | | | 02/16/94 | 22.70 | -13.70 | |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| N0217 | West Jackson Co. Utility Dist. | Hotel Well | MS-GW-02060 | 10/26/82 | 65.20 | -50.20 | 17' Elv. |
| | | | | 02/16/94 | 81.10 | -66.10 | |
| N0278 | West Jackson Co. Utility Dist. | Carban Place Windsor Park Sub. | MS-GW-00183 | 09/01/82 | 64.00 | -54.00 | 10' Elv, |
| | | | | 02/16/94 | 84.60 | -74.60 | |
| N0288 | West Jackson Co. Utility Dist. | Fort Bayou Rd. | MS-GW-00185 | 09/01/82 | 75.30 | -50.30 | 25'Elv. |
| | | | | 02/16/94 | 97.30 | -72.30 | |
| N0355 | West Jackson Co. Utility Dist. | Waycross Tower | MS-GW-00182 | 07/13/88 | 59.20 | -18.20 | 41' Elv. |
| | | | | 02/16/94 | 51.10 | -10.10 | |
| N0381 | West Jackson Co. Utility Dist. | Puerto Rd. | MS-GW-02061 | 10/29/82 | 30.00 | -13.00 | 17' Elv. |
| | | | | 02/16/94 | 29.50 | -12.50 | |
| | | | | 05/12/05 | 46.50 | -29.50 | |
| N0391 | West Jackson Co. Utility Dist. | El Bonito | MS-GW-02062 | 10/29/82 | 39.60 | -16.60 | 23' Elv. |
| | | | | 02/16/94 | 39.50 | -16.50 | |
| | | | | 05/12/05 | 55.80 | -32.80 | |
| N0425 | Gulf Park Utility Services | Barnacle - Lake Mars | MS-GW-13086 | 03/09/94 | 35.52 | -16.52 | 20' Elv. |
| | | | | 12/08/15 | 67.90 | -47.90 | |
| N0451 | West Jackson Co. Utility Dist. | Sweet Briar | MS-GW-02063 | 06/01/74 | 32.00 | 0.00 | 32' Elv. |
| | | | | 02/16/94 | 41.30 | -9.30 | |
| | | | | 09/22/15 | 66.40 | -34.40 | |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| N0461 | West Jackson Co. Utility Dist. | Orleans St. | MS-GW-00181 | 06/01/64 | 4.00 | 16.00 | 20' Elv. |
| | | | | 02/16/94 | 33.40 | -13.40 | |
| N0462 | Gulf Park Utility Services | Marina | MS-GW-13085 | 10/01/73 | 15.00 | 0.00 | 15' Elv. |
| | | | | 03/10/94 | 74.20 | -59.20 | |
| N0472 | Frasiers Nursery | | | 07/20/94 | 25.99 | -8.99 | 17' Elv. |
| N0479 | Gulf Coast Research Lab | | MS-GW-01144 | 06/07/76 | 23.00 | -13.00 | 10' Elv. |
| | | | | 10/22/82 | 68.85 | -58.85 | |
| | | | | 08/30/95 | 92.00 | -82.00 | |
| | | | | 01/18/96 | 86.60 | -76.60 | |
| | | | | 01/17/97 | 91.00 | -81.00 | |
| | | | | 01/14/98 | 94.25 | -84.25 | |
| | | | | 01/20/99 | 101.50 | -91.50 | |
| | | | | 11/02/99 | 110.90 | -100.90 | |
| | | | | 03/22/00 | 105.60 | -95.60 | |
| | | | | 02/22/01 | 104.50 | -94.50 | |
| | | | | 01/16/02 | 104.90 | -94.90 | |
| | | | | 05/08/03 | 104.50 | -94.50 | |
| | | | | 04/15/04 | 106.50 | -96.50 | |
| N0487 | L. W. Ross | | | 07/20/94 | 49.70 | -12.70 | 37' Elv. |
| N0496 | Ocean Springs Seafood | | MS-GW-01402 | 04/01/81 | 20.00 | -18.00 | 2' Elv. |
| | | | | 07/20/94 | 34.92 | -32.92 | |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| N0505 | West Jackson Co. Utility Dist. | Lancaster St. | MS-GW-00184 | 11/01/82 | 81.00 | -56.00 | 25' Elv. |
| | | | | 02/16/94 | 99.20 | -74.20 | |
| | | | | 09/22/15 | 89.20 | -64.20 | |
| N0511 | Tommy Moreton | | | 10/24/84 | -23.10 | 43.10 | 20' Elv. |
| | | | | 04/16/85 | -14.00 | 34.00 | |
| | | | | 04/23/86 | -17.30 | 37.30 | |
| | | | | 04/08/87 | -16.17 | 36.17 | |
| | | | | 04/27/88 | -13.86 | 33.86 | |
| | | | | 04/06/89 | -13.90 | 33.90 | |
| | | | | 04/18/90 | -11.50 | 31.50 | |
| | | | | 04/03/91 | -14.75 | 34.75 | |
| | | | | 06/09/92 | -13.92 | 33.92 | |
| | | | | 04/20/94 | -8.80 | 28.80 | |
| | | | | 08/09/95 | -7.00 | 27.00 | |
| | | | | 07/10/96 | -5.50 | 25.50 | |
| | | | | 04/04/97 | -7.00 | 27.00 | |
| | | | | 03/12/98 | -9.50 | 29.50 | |
| | | | | 04/07/99 | -3.00 | 23.00 | |
| N0512 | West Jackson Co. Utility Dist. | Ridge & Pine | MS-GW-02064 | 02/02/78 | 54.00 | -31.00 | 23' Elv. |
| | | | | 02/16/94 | 91.50 | -68.50 | |
| | | | | 05/12/05 | 110.60 | -87.60 | |
| N0517 | Ocean Springs | Halstead Rd. Well #8 | MS-GW-13851 | 12/14/83 | 82.00 | -60.00 | 22' Elv. |
| | | | | 03/12/85 | 78.00 | -56.00 | |
| | | | | 02/15/94 | 93.00 | -71.00 | |
| | | | | 05/12/05 | 132.00 | -110.00 | |
| | | | | 11/03/15 | 88.60 | -66.60 | |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| N0520 | Ocean Springs | Hardy St. Replacement Well #2 | MS-GW-13847 | 02/15/94<br>05/12/05<br>11/03/15 | 96.60<br>120.70<br>89.20 | -76.60<br>-100.70<br>-69.20 | 20' Elv. |
| N0535 | West Jackson Co. Utility Dist. | Laura Acres Honey Suckle Rd, | MS-GW-02066 | 01/01/61<br>02/16/94 | 6.00<br>83.10 | 14.00<br>-68.10 | 20' Elv. |
| N0543 | Ocean Springs | Pabst Rd.- Well #9 | MS-GW-11991 | 08/14/90<br>02/15/94<br>11/03/15 | 86.00<br>87.50<br>79.70 | -69.00<br>-70.50<br>-77.70 | 22' Elv. |
| N0544 | Custom Pack Inc. | | MS-GW-13150 | 07/20/94 | -14.00 | 21.00 | 7' Elv. |
| N0566 | Ocean Springs | Washington | MS-GW-14731 | 05/12/05<br>11/03/15 | 55.00<br>61.00 | -37.00<br>-43.00 | 18' Elv. |
| N0715 | Gulf Park Water Utility Services | 7th Street Well | MS-GW-15303 | 12/08/15 | 76.10 | -56.10 | 20' Elv. |
| N0738 | Gulf Park Water Utility Services | Point Aux Chenes | MS-GW-15368 | 12/08/15 | 58.10 | -51.10 | 7' Elv. |
| N0739 | West Jackson Co. Utility Dist. | Tucker Rd. Well #2 | MS-GW-15305 | 09/22/15 | 71.00 | -46.00 | 25' |
| N0741 | West Jackson Co. Utility Dist. | Kippee-Cut Off Rd Well #4 | MS-GW-15935 | 09/22/15 | 63.30 | -40.30 | 23' |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| N0743 | Gulf Park Water Utility Services | Shell St. (Starfish) | MS-GW-15702 | 12/08/15 | 60.00 | -49.00 | 11' Elv. |
| N1043 | West Jackson Co. Utility Dist. | Well #23 | MS-GW-16239 | 09/22/15 | 62.60 | -38.60 | 24' |
| N1048 | Ocean Springs | Deana Rd. | MS-GW-16345 | 11/03/15 | 83.00 | -60.00 | 23' Elv. |
| O0074 | James Grimsley | McVey | | 12/04/74 | -34.00 | 44.00 | 10' Elv. |
| | | | | 07/20/94 | -17.00 | 27.00 | |
| | | | | 07/31/96 | -16.00 | 26.00 | |
| | | | | 04/07/05 | -28.40 | 38.40 | |
| | | | | 08/17/16 | Flowing No Guage | | |
| O0156 | Gautier | Woodlane | MS-GW-07203 | 08/01/70 | 15.00 | 0.00 | 15' Elv. |
| | | | | 02/17/94 | 39.70 | -24.70 | |
| | | | | 08/30/95 | 42.30 | -27.30 | |
| | | | | 01/17/96 | 43.40 | -28.40 | |
| | | | | 01/16/97 | 43.30 | -28.30 | |
| | | | | 02/18/98 | 41.40 | -26.40 | |
| | | | | 06/16/99 | 48.70 | -33.70 | |
| | | | | 04/05/00 | 46.10 | -31.10 | |
| | | | | 02/21/01 | 51.90 | -36.90 | |
| O0197 | Saint Andrews Water | Golf Course | MS-GW-14496 | 06/24/69 | -12.00 | 27.00 | 15' Elv. |
| | | | | 10/27/82 | 48.34 | -33.34 | |
| | | | | 03/10/94 | 46.82 | -31.82 | |
| | | | | 09/06/95 | 48.30 | -33.30 | |
| | | | | 02/21/96 | 48.60 | -33.60 | |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| O0197 | Saint Andrews Water (Continued) | Golf Course | MS-GW-14496 | 08/07/97 | 38.70 | -23.70 | 15' Elv. |
| | | | | 02/19/98 | 49.40 | -34.40 | |
| | | | | 01/21/99 | 55.50 | -40.50 | |
| | | | | 09/13/00 | 64.00 | -49.00 | |
| | | | | 02/21/01 | 60.40 | -45.40 | |
| | | | | 01/16/02 | 61.90 | -46.90 | |
| | | | | 05/08/03 | 67.30 | -52.30 | |
| | | | | 05/21/04 | 58.90 | -43.90 | |
| | | | | 04/07/05 | 59.00 | -44.00 | |
| | | | | 12/07/07 | 65.80 | -50.80 | |
| | | | | 01/14/09 | 72.40 | -57.40 | |
| | | | | 04/08/10 | 65.70 | -50.70 | |
| | | | | 04/12/12 | 68.60 | -53.60 | |
| | | | | 12/09/15 | 66.95 | -51.95 | |
| O0206 | Gautier | Springwood Rd. | MS-GW-07205 | 02/17/94 | 37.20 | -24.20 | 13' Elv. |
| O0208 | Gautier | Westgate | MS-GW-07201 | 11/01/72 | 12.00 | -4.00 | 8' Elv. |
| | | | | 02/17/94 | 25.90 | -17.90 | |
| O0213 | Saint Andrews Water | Woods | MS-GW-14495 | 08/16/72 | 17.00 | -5.00 | 12' Elv. |
| | | | | 10/27/82 | 33.79 | -21.79 | |
| | | | | 11/07/85 | 36.00 | -24.00 | |
| | | | | 03/09/94 | 56.00 | -44.00 | |
| | | | | 08/30/95 | 87.00 | -75.00 | |
| | | | | 02/21/96 | 67.80 | -55.80 | |
| | | | | 08/07/97 | 65.70 | -53.70 | |
| | | | | 02/19/98 | 66.00 | -54.00 | |
| | | | | 01/21/99 | 77.50 | -65.50 | |
| | | | | 09/13/00 | 80.50 | -68.50 | |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| O0213 | Saint Andrews Water (Continued) | Woods | MS-GW-14495 | 02/21/01 | 80.90 | -68.90 | 12' Elv. |
| | | | | 01/16/02 | 81.00 | -69.00 | |
| | | | | 05/21/04 | 82.40 | -70.40 | |
| | | | | 04/07/05 | 79.70 | -67.70 | |
| | | | | 01/14/09 | 67.60 | -55.60 | |
| | | | | 04/08/10 | 73.10 | -61.10 | |
| | | | | 04/12/12 | 66.80 | -54.80 | |
| | | | | 12/09/15 | 62.10 | -51.95 | |
| O0286 | Gautier | Mall | MS-GW-15184 | 09/06/79 | 29.00 | -8.00 | 21' Elv. |
| | | | | 10/29/82 | 46.62 | -25.62 | |
| | | | | 11/07/85 | 49.00 | -28.00 | |
| | | | | 02/17/94 | 68.20 | -47.20 | |
| | | | | 03/17/99 | 85.80 | -64.80 | |
| | | | | 06/16/99 | 80.10 | -59.10 | |
| | | | | 11/09/99 | 83.40 | -62.40 | |
| | | | | 04/05/00 | 79.60 | -58.60 | |
| | | | | 03/10/05 | 108.80 | -87.80 | |
| | | | | 07/23/15 | 70.70 | -49.70 | |
| O0288 | Mallette | | | 07/21/94 | 26.90 | -7.90 | 19' Elv. |
| O0295 | Gautier | Honduras - Merida | MS-GW-03433 | 03/14/81 | 59.00 | -41.00 | 16' Elv. |
| | | | | 02/17/94 | 59.50 | -41.50 | |
| | | | | 07/23/15 | 67.30 | -51.30 | |
| O0297 | Ocean Beach Utility Service | Main - Guy | | 07/20/94 | 54.55 | -38.55 | 15' Elv. |

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# Jackson Co. Water Levels

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|---|---|---|---|---|---|---|---|
| O0300 | Gautier | Bonita | MS-GW-03431 | 09/21/70 | 45.00 | -28.00 | 17' Elv. |
| | | | | 02/17/94 | 63.50 | -46.50 | |
| | | | | 08/30/95 | 70.90 | -53.90 | |
| | | | | 01/17/96 | 68.10 | -51.10 | |
| | | | | 08/01/96 | 66.00 | -49.00 | |
| | | | | 08/06/97 | 66.80 | -49.80 | |
| | | | | 02/18/98 | 62.60 | -45.60 | |
| | | | | 07/17/98 | 67.50 | -50.50 | |
| | | | | 01/21/99 | 75.10 | -58.10 | |
| | | | | 06/16/99 | 52.40 | -35.40 | |
| O0307 | Gautier | Office | MS-GW-15185 | 05/13/80 | 46.00 | -27.00 | 19' Elv. |
| | | | | 02/17/94 | 73.30 | -54.30 | |
| | | | | 03/09/05 | 104.10 | -85.10 | |
| | | | | 07/23/15 | 106.20 | -87.20 | |
| O0310 | Ocean Springs (Was Gautier) | Sunplex | MS-GW-00348 | 02/17/94 | 62.50 | -39.50 | 19' Elv. |
| | | | | 05/12/05 | 85.90 | -66.90 | |
| | | | | 11/04/15 | 70.50 | -59.50 | |
| O0313 | Gautier | Old Drive-in Beasley | MS-GW-05615 | 11/24/86 | 51.00 | -32.00 | 19' Elv. |
| | | | | 02/17/94 | 65.10 | -46.10 | |
| | | | | 04/05/00 | 80.70 | -61.70 | |
| | | | | 09/14/00 | 80.70 | -61.70 | |
| | | | | 03/21/01 | 78.30 | -59.30 | |
| | | | | 01/16/02 | 81.50 | -62.50 | |
| | | | | 05/08/03 | 84.40 | -65.40 | |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| O0313 | Gautier (Continued) | Old Drive-in Beasley | MS-GW-05615 | 04/14/04 | 83.10 | -62.10 | 19' Elv. |
| | | | | 03/10/05 | 87.20 | -68.20 | |
| | | | | 04/18/07 | 87.30 | -68.30 | |
| | | | | 07/28/10 | 76.40 | -57.40 | |
| | | | | 04/13/12 | 81.90 | -62.90 | |
| | | | | 07/23/15 | 84.70 | -65.70 | |
| O0314 | Gautier | Martin Bluff - Well #2 | MS-GW-01388 | 01/01/73 | 22.00 | 1.00 | 23' Elv. |
| | | | | 10/26/82 | 43.58 | -20.58 | |
| | | | | 02/17/94 | 43.63 | -20.63 | |
| | | | | 03/17/99 | 51.50 | -28.50 | |
| | | | | 03/10/05 | 58.10 | -35.10 | |
| | | | | 07/23/15 | 67.40 | -44.40 | |
| O0319 | Gautier | Martin Bluff - Well #1 | MS-GW-01309 | 10/27/68 | 8.00 | 16.00 | 24' Elv. |
| | | | | 10/26/82 | 43.60 | -19.60 | |
| | | | | 12/06/85 | 47.00 | -23.00 | |
| | | | | 02/17/94 | 45.10 | -21.10 | |
| | | | | 03/17/99 | 53.90 | -29.90 | |
| | | | | 11/03/99 | 54.50 | -30.50 | |
| | | | | 03/10/05 | 58,30 | -34.30 | |
| O0392 | National Park Service | Horn Is. | | 12/01/94 | 17.00 | -12.00 | 5' Elv. |
| O0422 | Gautier | HWY 57 | MS-GW-15736 | 04/18/07 | 26.00 | -4.00 | 22' Elv. |
| | | | | 07/23/15 | 36.60 | -14.60 | |
| O0605 | Gulf Park Utility Service | Willow | MS-GW-17154 | 12/08/15 | 55.40 | -43.40 | 12' Elv. |

**WL BLS - Water level below land surface Water levels with a negative value are above GL GL - Ground level**
**WL ELV. - Water level relative to mean sea level Water levels with a negative value are below sea level**

# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| O0613 | Gulf Park Utility Service | Apple | MS-GW-15329 | 12/08/15 | 54.80 | -43.80 | 11' Elv. |
| P0045 | Moss Point Presbyterian Church | | | 09/06/19 | -28.00 | 51.00 | 23' Elv. |
| | | | | 09/04/58 | 17.30 | 5.70 | |
| | | | | 11/19/59 | 21.49 | 1.51 | |
| | | | | 07/26/60 | 20.75 | 2.25 | |
| | | | | 07/27/61 | 19.98 | 3.02 | |
| | | | | 04/18/62 | 21.55 | 1.45 | |
| | | | | 01/17/63 | 22.79 | 0.21 | |
| | | | | 01/21/64 | 22.80 | 0.20 | |
| | | | | 04/12/65 | 26.32 | -3.32 | |
| | | | | 04/01/66 | 28.19 | -5.19 | |
| | | | | 04/06/67 | 33.29 | -10.29 | |
| | | | | 04/09/68 | 38.03 | -15.03 | |
| | | | | 04/08/69 | 38.41 | -15.41 | |
| | | | | 04/23/70 | 40.97 | -17.97 | |
| | | | | 04/30/71 | 42.54 | -19.54 | |
| | | | | 04/21/72 | 44.19 | -21.19 | |
| | | | | 04/26/73 | 44.10 | -21.10 | |
| | | | | 05/15/74 | 46.70 | -23.70 | |
| | | | | 06/12/75 | 48.35 | -25.35 | |
| | | | | 04/20/76 | 49.17 | -26.17 | |
| | | | | 04/21/77 | 50.87 | -27.87 | |
| | | | | 04/12/78 | 49.65 | -26.65 | |
| | | | | 04/05/79 | 48.04 | -25.04 | |
| | | | | 06/04/80 | 50.92 | -27.92 | |
| | | | | 03/20/81 | 51.55 | -28.55 | |
| | | | | 04/29/82 | 49.03 | -26.03 | |
| | | | | 04/21/83 | 45.49 | -22.49 | |
| | | | | 03/28/84 | 45.42 | -22.42 | |
| | | | | 04/16/85 | 43.80 | -20.80 | |
| | | | | 04/22/86 | 44.14 | -21.14 | |

**WL BLS - Water level below land surface  Water levels with a negative value are above GL  GL - Ground level**
**WL ELV. - Water level relative to mean sea level  Water levels with a negative value are below sea level**

# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| P0045 | Moss Point Presbyterian Church (Continued) | | | 04/08/87 | 41.52 | -18.52 | 23' Elv. |
| | | | | 04/26/88 | 47.45 | -24.45 | |
| | | | | 04/05/89 | 44.29 | -21.29 | |
| | | | | 04/17/90 | 43.80 | -20.80 | |
| | | | | 04/03/91 | 41.75 | -18.75 | |
| | | | | 04/14/92 | 38.70 | -15.70 | |
| | | | | 04/20/94 | 38.52 | -15.52 | |
| | | | | 08/09/95 | 38.35 | -15.35 | |
| | | | | 07/10/96 | 37.99 | -14.99 | |
| | | | | 04/03/97 | 37.51 | -14.51 | |
| | | | | 03/13/98 | 36.30 | -13.30 | |
| | | | | 04/07/99 | 35.44 | -12.44 | |
| | | | | 06/06/01 | 37.69 | -14.69 | |
| | | | | 10/09/02 | 39.14 | -16.14 | |
| | | | | 09/17/03 | 38.39 | -15.39 | |
| | | | | 08/25/04 | 40.75 | -17.75 | |
| | | | | 08/23/06 | 45.80 | -22.80 | |
| P0054 | Moss Point | Parallel | MS-GW-01411 | 10/01/82 | 125.00 | -112.00 | 13' Elv. |
| | | | | 01/26/94 | 114.46 | -101.46 | |
| P0068 | Pascagoula | North Market | MS-GW-01957 | 01/01/56 | 29.00 | -17.00 | 12' Elv. |
| | | | | 04/07/59 | 57.57 | -45.57 | |
| | | | | 04/20/61 | 64.00 | -52.00 | |
| | | | | 01/18/62 | 60.03 | -48.03 | |
| | | | | 01/17/63 | 52.25 | -40.25 | |
| | | | | 01/22/64 | 74.50 | -62.50 | |
| | | | | 01/21/65 | 74.70 | -62.70 | |
| | | | | 01/05/66 | 78.00 | -66.00 | |
| | | | | 01/11/67 | 79.48 | -67.48 | |
| | | | | 01/09/68 | 77.35 | -65.35 | |

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**WL ELV. - Water level relative to mean sea level  Water levels with a negative value are below sea level**

# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| P0068 | Pascagoula (Continued) | North Market | MS-GW-01957 | 04/09/69 | 67.09 | -55.09 | 12' Elv. |
| | | | | 04/23/70 | 66.90 | -54.90 | |
| | | | | 04/30/71 | 66.08 | -54.08 | |
| | | | | 04/21/72 | 74.48 | -62.48 | |
| | | | | 04/26/73 | 68.66 | -56.66 | |
| | | | | 05/15/74 | 73.79 | -61.79 | |
| | | | | 06/12/75 | 80.40 | -68.40 | |
| | | | | 06/08/76 | 89.65 | -77.65 | |
| | | | | 06/12/77 | 95.90 | -83.90 | |
| | | | | 11/06/79 | 81.15 | -69.15 | |
| | | | | 04/12/80 | 80.73 | -68.73 | |
| | | | | 03/20/81 | 85.15 | -73.15 | |
| | | | | 10/20/82 | 88.62 | -76.62 | |
| | | | | 10/26/83 | 84.63 | -72.63 | |
| | | | | 03/29/84 | 72.40 | -60.40 | |
| | | | | 04/16/85 | 77.09 | -65.09 | |
| | | | | 10/15/86 | 62.24 | -50.24 | |
| | | | | 10/15/87 | 59.55 | -47.55 | |
| | | | | 10/19/88 | 71.11 | -59.11 | |
| | | | | 04/05/89 | 65.94 | -53.94 | |
| | | | | 04/17/90 | 68.29 | -56.29 | |
| | | | | 04/03/91 | 62.10 | -50.10 | |
| | | | | 06/09/92 | 71.75 | -59.75 | |
| | | | | 10/14/92 | 64.20 | -52.20 | |
| | | | | 04/20/94 | 61.59 | -49.59 | |
| | | | | 04/11/95 | 76.12 | -64.12 | |
| | | | | 04/24/96 | 77.72 | -65.72 | |

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**WL ELV. - Water level relative to mean sea level  Water levels with a negative value are below sea level**

# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| P0069 | Pascagoula | Telephone | MS-GW-01958 | 01/01/56 | 30.00 | -18.00 | 14' Elv. |
| | | | | 04/07/59 | 50.74 | -38.74 | |
| | | | | 04/07/60 | 53.53 | -41.53 | |
| | | | | 04/20/61 | 48.58 | -36.58 | |
| | | | | 10/26/61 | 54.38 | -42.38 | |
| | | | | 04/18/62 | 61.05 | -49.05 | |
| | | | | 01/17/63 | 70.10 | -58.10 | |
| | | | | 04/23/63 | 72.03 | -60.03 | |
| | | | | 10/22/63 | 62.60 | -50.60 | |
| | | | | 09/14/72 | 83.23 | -71.23 | |
| | | | | 06/20/79 | 86.45 | -74.45 | |
| | | | | 10/28/81 | 99.73 | -87.73 | |
| | | | | 05/08/03 | 84.60 | -70.60 | |
| | | | | 09/01/15 | 59.00 | -45.00 | |
| P0108 | Jackson Co. Port Athority | West Bank | MS-GW-01649 | 04/17/07 | 80.80 | -75.80 | 5' Elv. |
| | | | | 08/12/15 | 51.50 | -46.50 | |
| P0124 | Pascagoula | Communy | MS-GW-01954 | 05/20/59 | 23.83 | -13.83 | 11' Elv. |
| | | | | 11/20/59 | 25.55 | -15.55 | |
| | | | | 04/18/60 | 7.24 | 2.76 | |
| | | | | 04/19/61 | 27.84 | -17.84 | |
| | | | | 04/18/62 | 32.94 | -22.94 | |
| | | | | 01/22/64 | 40.57 | -30.57 | |
| | | | | 04/13/65 | 42.98 | -32.98 | |
| | | | | 04/01/66 | 59.88 | -49.88 | |
| | | | | 04/05/67 | 63.34 | -53.34 | |
| | | | | 05/16/68 | 76.62 | -66.62 | |
| | | | | 04/09/69 | 67.33 | -57.33 | |
| | | | | 04/23/70 | 75.20 | -65.20 | |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| P0124 | Pascagoula (Continued) | Communy Well No.1 | MS-GW-01954 | 04/30/71 | 81.52 | -71.52 | 11' Elv. |
| | | | | 04/21/72 | 100.26 | -90.26 | |
| | | | | 06/08/76 | 106.78 | -96.78 | |
| | | | | 07/12/77 | 91.20 | -81.20 | |
| | | | | 10/05/78 | 76.19 | -66.19 | |
| | | | | 04/05/79 | 72.59 | -62.59 | |
| | | | | 06/04/80 | 85.63 | -75.63 | |
| | | | | 10/22/81 | 72.38 | -62.38 | |
| | | | | 10/20/82 | 72.19 | -62.19 | |
| | | | | 04/21/83 | 91.19 | -81.19 | |
| | | | | 03/29/84 | 69.89 | -59.89 | |
| | | | | 04/16/85 | 75.37 | -65.37 | |
| | | | | 04/22/86 | 70.25 | -60.25 | |
| | | | | 04/08/87 | 79.42 | -69.42 | |
| | | | | 04/27/88 | 76.05 | -66.05 | |
| | | | | 04/05/89 | 57.55 | -47.55 | |
| | | | | 04/17/90 | 57.41 | -47.41 | |
| | | | | 04/03/91 | 55.96 | -45.96 | |
| | | | | 04/14/92 | 50.98 | -40.98 | |
| | | | | 05/19/93 | 60.03 | -50.03 | |
| | | | | 04/12/94 | 63.20 | -53.20 | |
| | | | | 05/08/03 | 71.00 | -61.00 | |
| | | | | 03/09/05 | 71.10 | -61.10 | |
| | | | | 05/08/07 | 71.00 | -61.00 | |
| | | | | 11/15/11 | 70.10 | -61.10 | |
| | | | | 04/11/14 | 26.80 | -16.80 | |
| | | | | 09/01/15 | 55.50 | -45.50 | |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| P0134 | Pascagoula | Beach | MS-GW-14952 | 04/07/59 | 12.20 | -1.20 | 11' Elv. |
| | | | | 04/19/61 | 24.36 | -13.36 | |
| | | | | 04/18/62 | 21.25 | -10.25 | |
| | | | | 04/23/63 | 29.44 | -18.44 | |
| | | | | 04/20/64 | 19.52 | -8.52 | |
| | | | | 04/13/65 | 33.29 | -22.29 | |
| | | | | 04/01/66 | 43.61 | -32.61 | |
| | | | | 04/05/67 | 45.61 | -34.61 | |
| | | | | 04/09/68 | 61.50 | -50.50 | |
| | | | | 04/09/69 | 57.06 | -46.06 | |
| | | | | 04/23/70 | 61.50 | -50.50 | |
| | | | | 04/30/71 | 81.00 | -70.00 | |
| | | | | 04/21/72 | 92.83 | -81.83 | |
| | | | | 04/26/73 | 85.54 | -74.54 | |
| | | | | 06/08/76 | 99.37 | -88.37 | |
| | | | | 07/12/77 | 82.56 | -71.56 | |
| | | | | 04/12/78 | 66.52 | -55.52 | |
| | | | | 04/05/79 | 64.96 | -53.96 | |
| | | | | 06/04/80 | 75.98 | -64.98 | |
| | | | | 03/20/81 | 65.69 | -54.69 | |
| | | | | 04/29/82 | 56.23 | -45.23 | |
| | | | | 04/21/83 | 71.01 | -60.01 | |
| | | | | 05/10/84 | 65.93 | -54.93 | |
| | | | | 04/16/85 | 66.88 | -55.88 | |
| | | | | 04/22/86 | 63.53 | -52.53 | |
| | | | | 04/08/87 | 71.67 | -60.67 | |
| | | | | 04/27/88 | 66.37 | -55.37 | |
| | | | | 04/05/89 | 53.26 | -42.26 | |
| | | | | 04/17/90 | 48.72 | -37.72 | |
| | | | | 04/03/91 | 53.18 | -42.18 | |
| | | | | 04/14/92 | 55.25 | -44.25 | |
| | | | | 04/20/94 | 52.93 | -41.93 | |
| | | | | 08/09/95 | 59.45 | -48.45 | |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| P0134 | Pascagoula (Continued) | Beach | MS-GW-14952 | 07/10/96 | 59.61 | -48.61 | 11' Elv. |
| | | | | 04/03/97 | 54.29 | -43.29 | |
| | | | | 03/17/99 | 47.60 | -36.60 | |
| | | | | 05/07/03 | 69.70 | -58.70 | |
| | | | | 03/09/05 | 65.30 | -54.30 | |
| | | | | 01/28/09 | 63.00 | -52.00 | |
| | | | | 04/09/10 | 66.70 | -55.70 | |
| | | | | 11/15/11 | 68.60 | -57.60 | |
| | | | | 09/01/15 | 52.00 | -41.00 | |
| P0145 | Ingalls Shipbuilding | East Bank | MS-GW-01680 | 11/04/15 | 58.20 | -48.20 | 10' Elv. |
| P0150 | Pascagoula | Communy - Well No.2 | MS-GW-01955 | 04/06/67 | 55.06 | -45.06 | 10' Elv. |
| | | | | 10/20/82 | 68.00 | -58.00 | |
| | | | | 12/02/85 | 64.00 | -54.00 | |
| | | | | 02/16/94 | 55.08 | -45.08 | |
| | | | | 07/27/95 | 65.90 | -55.90 | |
| | | | | 07/31/96 | 58.40 | -48.40 | |
| | | | | 07/23/97 | 48.00 | -38.00 | |
| | | | | 07/16/98 | 43.90 | -33.90 | |
| | | | | 11/03/99 | 46.10 | -36.10 | |
| | | | | 04/06/00 | 56.20 | -46.20 | |
| | | | | 02/02/01 | 75.20 | -65.20 | |
| | | | | 01/15/02 | 99.70 | -89.70 | |
| | | | | 05/08/03 | 67.60 | -57.60 | |
| | | | | 04/15/04 | 68.40 | -58.40 | |
| | | | | 03/09/05 | 66.80 | -56.80 | |
| | | | | 12/07/07 | 68.00 | -58.00 | |
| | | | | 04/09/10 | 70.60 | -60.60 | |
| | | | | 11/15/11 | 73.60 | -63.60 | |
| | | | | 05/06/15 | 48.80 | -38.80 | |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| P0226 | Moss Point | Neese | MS-GW-12018 | 10/01/65 | 16.00 | -8.00 | 8' Elv. |
| P0228 | Escatawpa Subur. Utility | | | 11/01/85 | 137.00 | -125.00 | 12' Elv. |
| | | | | 03/09/94 | 103.92 | -91.92 | |
| P0229 | Moss Point | Bellview | MS-GW-01412 | 06/15/66 | 28.00 | -18.00 | 10' Elv. |
| | | | | 10/28/82 | 89.96 | -79.96 | |
| | | | | 06/21/88 | 124.48 | -114.48 | |
| | | | | 01/27/94 | 85.05 | -75.05 | |
| | | | | 03/18/99 | 80.20 | -70.20 | |
| | | | | 11/08/99 | 78.20 | -68.20 | |
| P0326 | Tiki Restaurant | | | 07/21/94 | 24.09 | -17.09 | 7' Elv. |
| P0348 | Ingalls Shipbuilding | East Bank | MS-GW-01679 | 11/10/71 | 81.00 | -71.00 | 10' Elv. |
| | | | | 10/27/82 | 94.90 | -84.90 | |
| | | | | 04/25/85 | 93.37 | -83.37 | |
| | | | | 01/01/88 | 40.00 | -30.00 | |
| | | | | 04/20/94 | 49.05 | -39.05 | |
| P0349 | Ingalls Shipbuilding | West Bank No. 2 | MS-GW-01681 | 05/12/05 | 54.00 | -44.00 | 10' Elv. |
| | | | | 11/04/15 | 48.90 | -38.90 | |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| P0355 | Moss Point | Community | MS-GW-01414 | 10/01/82 | 132.00 | -113.00 | 19' Elv. |
| | | | | 01/26/94 | 111.47 | -92.47 | |
| | | | | 05/09/03 | 147.10 | -128.10 | |
| | | | | 02/11/05 | 123.20 | -104.20 | |
| P0372 | Pascagoula | Communy - Well #3 | MS-GW-01956 | 02/01/75 | 50.00 | -39.00 | 11' Elv. |
| | | | | 10/20/82 | 61.08 | -50.08 | |
| | | | | 04/24/85 | 51.37 | -40.37 | |
| | | | | 02/16/94 | 42.63 | -31.63 | |
| | | | | 07/27/95 | 49.90 | -38.90 | |
| | | | | 07/31/96 | 42.50 | -31.50 | |
| | | | | 07/23/97 | 35.20 | -24.20 | |
| | | | | 07/16/98 | 37.10 | -26.10 | |
| | | | | 08/26/99 | 43.10 | -32.10 | |
| | | | | 04/06/00 | 49.20 | -38.20 | |
| | | | | 02/21/01 | 49.90 | -38.90 | |
| | | | | 01/15/02 | 37.90 | -26.90 | |
| | | | | 05/07/03 | 40.70 | -29.70 | |
| | | | | 04/15/04 | 42.50 | -31.50 | |
| | | | | 03/09/05 | 52.30 | -41.30 | |
| | | | | 01/09/07 | 45.90 | -34.90 | |
| | | | | 01/28/09 | 39.70 | -28.70 | |
| | | | | 04/09/10 | 34.20 | -23.20 | |
| | | | | 11/15/11 | 36.50 | -25.50 | |
| P0373 | Ingalls Shipbuilding | West Bank | MS-GW-01678 | 11/04/15 | 38.70 | -28.70 | 10' Elv. |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| P0382 | Moss Point | Howze | MS-GW-01415 | 01/01/78 | 112.00 | -104.00 | 8' Elv. |
| | | | | 10/20/82 | 135.00 | -127.00 | |
| | | | | 01/27/94 | 104.55 | -96.55 | |
| | | | | 03/11/05 | 122.05 | -114.05 | |
| | | | | 11/16/11 | 189.90 | -181.90 | |
| | | | | 04/10/13 | 186.70 | -178.70 | |
| | | | | 04/10/14 | 206.90 | -198.90 | |
| | | | | 08/12/15 | 193.80 | -185.80 | |
| P0395 | Magnolia Oaks Condos | | MS-GW-01141 | 07/23/98 | 32.40 | -16.40 | 16' Elv. |
| | | | | 04/07/99 | 29.24 | -13.24 | |
| | | | | 10/24/02 | 32.25 | -16.25 | |
| | | | | 05/12/05 | 29.88 | -13.88 | |
| | | | | 08/23/06 | 34.85 | -18.85 | |
| | | | | 06/10/09 | 29.20 | -13.20 | |
| | | | | 01/12/16 | 29.00 | -13.00 | |
| P0409 | Ingalls Shipbuilding | West Bank | MS-GW-01682 | 11/04/15 | 48.90 | -38.90 | 10' Elv. |
| P0429 | State of Mississippi | Home Port | MS-GW-07765 | 03/21/90 | 53.00 | -41.00 | 10' Elv. |
| | | | | 02/17/94 | 47.13 | -35.13 | |
| | | | | 07/26/95 | 47.60 | -37.60 | |
| | | | | 01/17/96 | 47.30 | -35.30 | |
| | | | | 01/16/97 | 42.20 | -30.20 | |
| | | | | 07/16/98 | 44.60 | -32.60 | |
| | | | | 01/21/99 | 44.40 | -34.40 | |
| | | | | 04/05/00 | 46.10 | -36.10 | |
| | | | | 02/21/01 | 47.10 | -37.10 | |
| | | | | 01/16/02 | 37.20 | -27.20 | |
| | | | | 05/08/03 | 40.50 | -30.50 | |

**WL BLS - Water level below land surface  Water levels with a negative value are above GL  GL - Ground level**
**WL ELV. - Water level relative to mean sea level  Water levels with a negative value are below sea level**

# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| P0429 | State of Mississippi (Continued) | Home Port | MS-GW-07765 | 04/14/04 | 42.00 | -32.00 | 10' Elv. |
| | | | | 03/10/05 | 43.70 | -33.70 | |
| | | | | 01/10/07 | 46.10 | -46.10 | |
| | | | | 07/28/10 | 35.10 | -25.10 | |
| | | | | 03/29/12 | 37.10 | -27.10 | |
| | | | | 08/12/15 | 41.20 | -31.20 | |
| P0430 | State of Mississippi | Home Port | MS-GW-07766 | 03/28/90 | 49.00 | -37.00 | 10' Elv. |
| | | | | 02/17/94 | 46.68 | -34.68 | |
| | | | | 07/31/96 | 48.50 | -36.50 | |
| | | | | 02/18/98 | 40.20 | -28.20 | |
| | | | | 06/16/99 | 41.70 | -31.70 | |
| | | | | 04/05/00 | 45.50 | -35.50 | |
| | | | | 02/21/01 | 50.10 | -40.10 | |
| | | | | 01/16/02 | 39.30 | -29.30 | |
| | | | | 05/07/03 | 40.90 | -30.90 | |
| | | | | 04/14/04 | 42.40 | -31.40 | |
| | | | | 03/10/05 | 43.00 | -33.00 | |
| | | | | 01/10/07 | 41.90 | -31.90 | |
| | | | | 07/28/10 | 34.80 | -24.80 | |
| | | | | 03/29/12 | 36.60 | -26.60 | |
| | | | | 08/12/15 | 41.90 | -31.90 | |
| P0455 | Moss Point | Payne | MS-GW-14774 | 10/07/97 | 110.50 | -92.50 | 18' Elv. |
| | | | | 05/09/03 | 147.90 | -129.90 | |
| | | | | 03/11/05 | 128.80 | -110.80 | |
| | | | | 03/03/09 | 213.40 | -195.40 | |
| | | | | 11/16/11 | 218.20 | -200.20 | |
| | | | | 04/10/14 | 240.70 | -222.70 | |
| | | | | 05/05/15 | 195.90 | -177.90 | |

**WL BLS - Water level below land surface  Water levels with a negative value are above GL  GL - Ground level**
**WL ELV. - Water level relative to mean sea level  Water levels with a negative value are below sea level**

# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| P0458 | Pascagoula | 14th street | MS-GW-15791 | 05/08/03 | 88.50 | -78.50 | 10' Elv. |
| | | | | 03/09/05 | 85.60 | -75.60 | |
| | | | | 11/15/11 | 66.60 | -56.60 | |
| | | | | 09/01/15 | 73.00 | -63.00 | |
| P0488 | Moss Point | Palmeto | MS-GW-16158 | 04/10/13 | 248.80 | -229.80 | 19' Elv. |
| | | | | 04/10/14 | 254.80 | -235.80 | |
| | | | | 05/05/15 | 210.10 | -191.10 | |
| P0495 | Pascagoula | P372 Replacement Well No.4 | MS-GW-16862 | 04/09/10 | 34.20 | -23.20 | 11' Elv. |
| | | | | 05/06/15 | 47.60 | -36.60 | |
| Q0019 | Omega Protein Inc, | | MS-GW-08529 | 05/18/94 | 6.40 | -1.40 | 5' Elv. |
| Q0025 | Smith Fisheries | | | 01/30/59 | 19.25 | -15.25 | 4' Elv. |
| | | | | 04/15/60 | 10.07 | -6.07 | |
| | | | | 04/19/61 | 17.46 | -13.46 | |
| | | | | 10/27/61 | 14.94 | -10.94 | |
| | | | | 04/11/62 | 15.73 | -11.73 | |
| | | | | 04/16/63 | 19.93 | -15.93 | |
| | | | | 04/20/64 | 24.05 | -20.05 | |
| | | | | 04/12/65 | 29.57 | -25.57 | |
| | | | | 04/01/66 | 26.68 | -22.68 | |
| | | | | 04/04/67 | 27.50 | -23.50 | |
| | | | | 04/09/68 | 30.65 | -26.65 | |
| | | | | 04/08/69 | 32.42 | -28.42 | |
| | | | | 04/23/70 | 38.03 | -34.03 | |
| | | | | 04/27/72 | 42.50 | -38.50 | |

**WL BLS - Water level below land surface  Water levels with a negative value are above GL  GL - Ground level**
**WL ELV. - Water level relative to mean sea level  Water levels with a negative value are below sea level**

# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| Q0025 | Smith Fisheries (Continued) | | | 04/26/73 | 33.05 | -29.05 | 4' Elv. |
| | | | | 05/15/74 | 41.20 | -37.20 | |
| | | | | 06/12/75 | 38.94 | -34.94 | |
| | | | | 04/20/76 | 38.53 | -34.53 | |
| | | | | 04/21/77 | 42.08 | -38.08 | |
| | | | | 04/12/78 | 42.83 | -38.83 | |
| | | | | 04/05/79 | 35.97 | -31.97 | |
| | | | | 06/04/80 | 42.15 | -38.15 | |
| | | | | 10/22/81 | 36.03 | -32.03 | |
| | | | | 04/29/82 | 37.98 | -33.98 | |
| | | | | 10/26/83 | 40.32 | -36.32 | |
| | | | | 03/28/84 | 38.58 | -34.58 | |
| | | | | 04/16/85 | 31.94 | -27.94 | |
| | | | | 04/22/86 | 31.62 | -27.62 | |
| | | | | 04/08/87 | 30.30 | -26.30 | |
| | | | | 04/26/88 | 31.85 | -27.85 | |
| | | | | 04/05/89 | 32.52 | -28.52 | |
| | | | | 04/25/90 | 31.90 | -27.90 | |
| | | | | 04/03/91 | 29.75 | -25.75 | |
| | | | | 04/15/92 | 21.73 | -17.73 | |
| | | | | 05/18/93 | 21.34 | -17.34 | |
| | | | | 04/20/94 | 24.80 | -20.80 | |
| | | | | 04/11/95 | 24.22 | -20.22 | |
| | | | | 11/29/95 | 22.56 | -18.56 | |
| | | | | 04/24/96 | 22.00 | -18.00 | |
| | | | | 04/03/97 | 23.00 | -19.00 | |
| | | | | 03/13/98 | 17.72 | -13.72 | |
| | | | | 12/02/03 | 7.82 | -3.82 | |
| | | | | 05/12/05 | 7.40 | -3.40 | |

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**WL ELV. - Water level relative to mean sea level  Water levels with a negative value are below sea level**

# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| Q0034 | Orange Grove School | | | 04/04/00 | Flowing No Gauge | | 6' Elv. |
| | | | | 01/26/16 | Flowing No Gauge | | |
| Q0096 | Longfellow House | | | 01/26/94 | 16.70 | -9.70 | 7' Elv. |
| Q0100 | | | | 05/05/94 | 61.00 | -53.00 | 8' Elv. |
| Q0106 | US Geological Survey | | | 09/01/59 | 45.26 | -41.26 | 4' Elv. |
| | | | | 04/11/60 | 48.24 | -44.24 | |
| | | | | 03/15/61 | 51.86 | -47.86 | |
| | | | | 03/01/62 | 59.11 | -55.11 | |
| | | | | 04/17/63 | 104.06 | -100.06 | |
| | | | | 04/05/64 | 82.90 | -78.90 | |
| | | | | 04/05/65 | 84.00 | -80.00 | |
| | | | | 04/05/66 | 82.20 | -78.20 | |
| | | | | 04/05/67 | 88.50 | -84.50 | |
| | | | | 04/05/68 | 86.30 | -82.30 | |
| | | | | 05/16/69 | 91.20 | -87.20 | |
| | | | | 06/10/70 | 106.00 | -102.00 | |
| | | | | 04/30/71 | 97.30 | -93.30 | |
| | | | | 04/21/72 | 96.80 | -92.80 | |
| | | | | 04/26/73 | 95.01 | -91.01 | |
| | | | | 06/12/75 | 110.73 | -106.73 | |

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**WL ELV. - Water level relative to mean sea level  Water levels with a negative value are below sea level**

# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| Q0112 | Jackson County | | | 04/20/94 | 10.39 | -5.39 | 5' Elv. |
| | | | | 08/09/95 | 6.11 | -1.11 | |
| | | | | 07/10/96 | 11.05 | -6.05 | |
| | | | | 04/03/97 | 10.25 | -5.25 | |
| | | | | 08/10/98 | 10.74 | -5.74 | |
| | | | | 04/07/99 | 10.43 | -5.43 | |
| | | | | 06/06/01 | 10.4 | -5.4 | |
| | | | | 10/24/02 | 6.23 | -1.23 | |
| | | | | 12/02/03 | 8.83 | -3.83 | |
| | | | | 08/25/04 | 8.52 | -3.52 | |
| | | | | 08/23/06 | 11.72 | -6.72 | |
| Q0137 | Chevron Products Co. | North Well | MS-GW-02132 | 09/13/63 | 56.00 | -49.00 | 7' Elv. |
| | | | | 10/28/82 | 62.36 | -55.36 | |
| | | | | 11/05/85 | 60.00 | -53.00 | |
| Q0149 | Dairy Fresh Corp. | | | 06/01/63 | 63.00 | -48.00 | 15' Elv. |
| | | | | 08/30/77 | 116.30 | -101.30 | |
| | | | | 05/17/78 | 111.52 | -96.52 | |
| | | | | 04/05/79 | 108.52 | -93.52 | |
| | | | | 06/03/80 | 102.39 | -87.39 | |
| | | | | 10/21/81 | 106.84 | -91.84 | |
| | | | | 04/29/82 | 102.80 | -87.80 | |
| | | | | 10/26/83 | 103.84 | -88.84 | |
| | | | | 05/10/84 | 101.03 | -86.03 | |
| | | | | 04/16/85 | 102.74 | -87.74 | |
| | | | | 04/22/86 | 98.43 | -83.43 | |
| | | | | 04/08/87 | 95.95 | -80.95 | |
| | | | | 04/27/88 | 91.51 | -76.51 | |
| | | | | 04/05/89 | 84.50 | -69.50 | |

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**WL ELV. - Water level relative to mean sea level  Water levels with a negative value are below sea level**

# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| Q0159 | Rohm and Haas Chemicals LLC | | MS-GW-02140 | 05/18/94 | 24.60 | -18.60 | 6' Elv. |
| Q0164 | Pascagoula | Martin - Ingalls | MS-GW-01963 | 10/06/65 | 41.00 | -31.00 | 10' Elv. |
| | | | | 11/05/85 | 144.70 | -134.70 | |
| Q0166 | Moss Point | | | 03/01/64 | 24.00 | -14.00 | 10' Elv. |
| | | | | 11/05/85 | 139.23 | -129.23 | |
| Q0180 | Pascagoula | B. C. | MS-GW-01961 | 10/05/65 | 54.00 | -44.00 | 10' Elv. |
| | | | | 03/20/81 | 157.00 | -147.00 | |
| | | | | 10/20/82 | 198.47 | -188.47 | |
| | | | | 04/24/85 | 183.95 | -173.95 | |
| | | | | 02/16/94 | 195.65 | -185.65 | |
| | | | | 02/24/95 | 75.30 | -65.30 | |
| | | | | 02/21/96 | 127.80 | -117.80 | |
| | | | | 07/31/96 | 142.50 | -132.50 | |
| | | | | 01/16/97 | 110.85 | -100.85 | |
| | | | | 02/18/98 | 92.30 | -82.30 | |
| | | | | 01/21/99 | 98.40 | -88.40 | |
| | | | | 09/14/00 | 147.80 | -137.80 | |
| | | | | 01/15/02 | 139.60 | -138.60 | |
| | | | | 05/07/03 | 110.90 | -100.90 | |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| Q0181 | Pascagoula | Douglas | MS-GW-01962 | 10/01/65 | 59.00 | -49.00 | 10' Elv. |
| | | | | 02/16/94 | 193.12 | -183.12 | |
| | | | | 02/24/95 | 72.10 | -62.10 | |
| | | | | 02/21/96 | 128.70 | -118.70 | |
| | | | | 11/03/99 | 141.70 | -131.70 | |
| | | | | 11/15/02 | 145.00 | -135.00 | |
| | | | | 12/07/07 | 130.20 | -120.20 | |
| Q0293 | Pascagoula | Sears | MS-GW-01959 | 06/01/62 | 62.00 | -47.00 | 15' Elv. |
| | | | | 10/28/81 | 104.60 | -89.60 | |
| | | | | 04/24/85 | 117.55 | -102.55 | |
| | | | | 12/03/85 | 102.00 | -87.00 | |
| | | | | 02/16/94 | 97.43 | -82.43 | |
| | | | | 03/17/99 | 96.70 | -81.70 | |
| | | | | 09/14/00 | 65.30 | -50.30 | |
| | | | | 05/08/03 | 97.50 | -82.50 | |
| | | | | 03/09/05 | 90.40 | -75.40 | |
| | | | | 09/01/15 | 84.50 | -74.50 | |
| Q0403 | US Geological Survey | | | 06/19/74 | 145.10 | -141.10 | 4' Elv. |
| | | | | 04/09/75 | 140.48 | -136.48 | |
| | | | | 04/20/76 | 138.30 | -134.30 | |
| | | | | 04/21/77 | 124.44 | -120.44 | |
| | | | | 04/04/78 | 121.55 | -117.55 | |
| | | | | 04/05/79 | 131.50 | -127.50 | |
| | | | | 06/03/80 | 125.90 | -121.90 | |
| | | | | 07/28/81 | 112.31 | -108.31 | |
| | | | | 04/01/82 | 83.21 | -79.21 | |
| | | | | 04/21/83 | 80.07 | -76.07 | |
| | | | | 05/10/84 | 102.23 | -98.23 | |
| | | | | 04/16/85 | 87.48 | -83.48 | |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| | | | | 04/22/86 | 88.21 | -84.21 | |
| Q0403 | US Geological Survey | | | 04/08/87 | 87.44 | -83.44 | 4' Elv. |
| | (Continued) | | | 04/26/88 | 55.62 | -51.62 | |
| | | | | 04/05/89 | 95.25 | -91.25 | |
| | | | | 04/03/91 | 60.05 | -56.05 | |
| | | | | 04/15/92 | 85.24 | -81.24 | |
| | | | | 01/19/94 | 90.39 | -86.39 | |
| | | | | 10/29/96 | 91.05 | -87.05 | |
| | | | | 04/03/97 | 89.56 | -85.56 | |
| | | | | 01/13/99 | 89.4 | -85.40 | |
| | | | | 12/02/03 | 91.4 | -87.40 | |
| | | | | 08/25/04 | 95.43 | -91.43 | |
| | | | | 05/11/05 | 92.83 | -88.83 | |
| | | | | 09/02/15 | 79.90 | -75.90 | |
| Q0407 | Pascagoula | Old Chateau | | 03/01/75 | 92.00 | -79.00 | 13' Elv. |
| | | | | 04/12/78 | 136.08 | -123.08 | |
| | | | | 04/05/79 | 145.76 | -132.76 | |
| | | | | 06/03/80 | 141.90 | -128.90 | |
| | | | | 10/22/81 | 142.99 | -129.99 | |
| | | | | 04/29/82 | 126.30 | -113.30 | |
| | | | | 10/26/83 | 128.83 | -115.83 | |
| | | | | 05/10/84 | 137.17 | -124.17 | |
| | | | | 04/16/85 | 137.16 | -124.16 | |
| | | | | 04/22/86 | 134.20 | -121.20 | |
| | | | | 04/08/87 | 140.40 | -127.40 | |
| | | | | 04/26/88 | 128.33 | -115.33 | |
| | | | | 04/05/89 | 132.91 | -119.91 | |
| | | | | 04/03/91 | 114.80 | -101.80 | |
| | | | | 04/15/92 | 131.13 | -118.13 | |
| | | | | 02/16/94 | 119.20 | -106.20 | |
| | | | | 04/20/94 | 133.71 | -120.71 | |
| | | | | 01/18/96 | 137.18 | -124.18 | |

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# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| Q0407 | Pascagoula (Continued) | Old Chateau | | 05/14/97 | 138.50 | -125.50 | 13' Elv. |
| | | | | 11/04/98 | 137.20 | -124.20 | |
| | | | | 04/07/99 | 138.9 | -125.9 | |
| | | | | 12/02/03 | 111.70 | -98.70 | |
| Q0417 | Moss Point | Sue Ellen | MS-GW-01413 | 08/29/68 | 84.00 | -67.00 | 17' Elv. |
| | | | | 10/01/82 | 128.39 | -111.39 | |
| | | | | 01/27/94 | 109.11 | -92.11 | |
| | | | | 05/09/03 | 147.30 | -130.30 | |
| Q0420 | Pascagoula | Chateau | MS-GW-01960 | 05/24/76 | 97.00 | -84.00 | 13' Elv. |
| | | | | 10/20/82 | 127.72 | -114.72 | |
| | | | | 04/24/85 | 126.06 | -113.06 | |
| | | | | 12/03/85 | 121.00 | -108.00 | |
| | | | | 02/16/94 | 112.30 | -99.30 | |
| | | | | 03/17/99 | 115.50 | -102.50 | |
| | | | | 09/14/00 | 73.50 | -60.50 | |
| | | | | 05/07/03 | 116.10 | -103.10 | |
| | | | | 04/15/04 | 67.40 | -54.40 | |
| | | | | 03/09/05 | 99.20 | -86.20 | |
| | | | | 09/01/15 | 94.20 | -81.20 | |
| Q0424 | Pascagoula | | | 10/01/92 | 17.96 | -6.96 | 11' Elv. |
| | | | | 01/28/94 | 19.35 | -8.35 | |
| | | | | 04/20/94 | 18.82 | -7.82 | |
| | | | | 09/19/94 | 19.18 | -8.18 | |
| | | | | 08/09/95 | 18.88 | -7.88 | |
| | | | | 01/18/96 | 18.78 | -7.78 | |
| | | | | 07/10/96 | 19.90 | -8.90 | |

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**WL ELV. - Water level relative to mean sea level  Water levels with a negative value are below sea level**

# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| Q0424 | Pascagoula (Continued) | | | 10/29/96 | 19.20 | -8.20 | 11' Elv. |
| | | | | 04/13/97 | 18.64 | -7.64 | |
| | | | | 10/21/97 | 19.51 | -8.51 | |
| | | | | 03/12/98 | 17.80 | -6.80 | |
| | | | | 09/16/98 | 18.65 | -7.65 | |
| | | | | 04/07/99 | 18.42 | -7.42 | |
| Q0429 | MDOT | | MS-GW-01277 | 11/19/85 | 5.00 | 7.00 | 12' Elv. |
| | | | | 02/15/94 | 6.22 | 5.78 | |
| | | | | 01/27/16 | 16.60 | -4.60 | |
| Q0430 | MDOT | | MS-GW-01278 | 01/01/85 | 2.00 | 10.00 | 12' Elv. |
| | | | | 02/15/94 | 1.15 | 10.85 | |
| | | | | 01/27/16 | 11.80 | 0.20 | |
| Q0434 | Moss Point | Hardy's | MS-GW-01416 | 11/01/85 | 137.10 | -131.10 | 6' Elv. |
| | | | | 01/27/94 | 197.40 | -191.40 | |
| Q0456 | John Hudson | Alligator Farm | | 02/23/95 | -1.00 | 5.00 | 4' Elv. |
| | | | | 08/06/97 | -1.00 | 5.00 | |
| | | | | 02/18/98 | -1.00 | 5.00 | |
| Q0600 | Moss Point | New Sue Ellen | MS-GW-16157 | 03/03/09 | >275 | | 17' Elv. |
| | | | | 11/16/09 | 242.70 | -225.70 | |
| | | | | 11/16/11 | 242.70 | -225.70 | |
| | | | | 04/10/13 | 258.00 | -241.00 | |
| | | | | 04/10/14 | 255.90 | -235.90 | |

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**WL ELV. - Water level relative to mean sea level  Water levels with a negative value are below sea level**

# Jackson Co. Water Levels

| Well No. | Owner Name | Well Name | OLWR Permit No. | WL Date | WL BLS | WL ELV. | GL |
|---|---|---|---|---|---|---|---|
| Q0601 | Moss Point | Hubert | MS-GW-16159 | 03/03/09 | 237.70 | -220.70 | 17' Elv. |
| | | | | 11/16/09 | 241.80 | -224.80 | |
| | | | | 11/16/11 | 241.80 | -224.80 | |
| | | | | 04/10/13 | 231.40 | -214.40 | |
| | | | | 04/10/14 | 260.40 | -243.40 | |
| | | | | 5/5/2015 | 208.50 | -191.50 | |

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**WL ELV. - Water level relative to mean sea level  Water levels with a negative value are below sea level**

# Table 4

# Jackson County Basic Water Quality Analysis

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| A0108 | Brian Davis | | | 03/22/16 | 359 | 8.90 | 17.20 | |
| A0135 | Jackson Co. Maintenance | Vestry Com. Center | | 03/22/16 | 266 | 8.95 | 3.30 | |
| B0060 | Tommy Tootle Jr. | | | 03/22/16 | 392 | 9.00 | 20.60 | |
| C0145 | Jackson Co. Utility Authority | Well #2 | MS-GW-16625 | 04/17/15 | 139 | 7.58 | 2.70 | |
| C0146 | Jackson Co. Utility Authority | Well #1 | MS-GW-16602 | 04/17/15 | 346 | 8.77 | 10.40 | |
| D0267 | First Federal Savings | | | 04/13/16 | 421 | 8.67 | 13.90 | |
| E0176 | Jackson Co. Maintenance | Larue Com. Center | | 03/22/16 | 313 | 9.01 | 15.60 | |
| F0120 | Tommy Tootle | | | 04/13/16 | 259 | 7.38 | 4.70 | |
| F0164 | Vancleave Fire Dept. | | | 03/22/16 | 397 | 9.11 | 23.20 | |
| F0464 | GMTE Enterprises | | | 04/13/16 | 384 | 8.78 | 6.90 | |
| H0172 | Jackson Co. Recreation | Soccer Field | | 03/22/16 | 757 | 8.86 | 25.40 | |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| J0241 | West Jackson Co Utility Dist. | Jordan Road Sub. | MS-GW-15075 | 09/22/15 | 428 | 9.01 | 15.50 | |
| J0344 | West Jackson Co Utility Dist. | Bonanza Rd. Well #3 | MS-GW-16173 | 09/22/15 | 468 | 9.01 | 15.70 | |
| J0566 | Jackson Co. Utility Authority | Well #1 | MS-GW-16585 | 04/17/15 | 618 | 8.97 | 67.90 | |
| J0567 | Jackson Co. Utility Authority | Well #2 | MS-GW-16603 | 04/17/15 | 420 | 9.08 | 23.50 | |
| J0590 | Jackson Co. Utility Authority | Ridgeland | MS-GW-16967 | 01/28/16 | 438 | 9.03 | 14.00 | |
| K0147 | Vancleave Jr. High School | | | 01/28/16 | 462 | 9.37 | 27.70 | |
| K0163 | San Juan Fish Camp | | | 09/16/93 | 1105 | 8.69 | 74.80 | |
| K0322 | Vancleave High School | | | 01/28/16 | 560 | 9.32 | 24.90 | |
| K0696 | Jackson Co. Utility Authority | Well #3 | MS-GW-16611 | 04/17/15 | 611 | 8.94 | 69.30 | |
| K0738 | Jackson Co. Utility Authority | Lab Well | MS-GW-16969 | 01/28/16 | 455 | 9.03 | 9.40 | |
| L0032 | Moss Point | Escatawpa - Well No.4 | MS-GW-12020 | 03/18/99<br>03/11/05 | 600<br>658 | 8.43<br>8.68 | 57.00<br>63.10 | 36<br>47 |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| L0127 | Miss Power Co. | | | 01/13/16 | 703 | 9.04 | 18.30 | |
| L0183 | Jackson Co. Utility Authority | Surface Water Plant | | 01/27/16 | 1145 | 8.78 | 47.90 | |
| | | | | 08/03/16 | 971 | 8.79 | 54.10 | |
| M0349 | MDOT | | MS-GW-01279 | 03/16/99 | 1050 | 8.67 | 148.00 | |
| | | | | 01/27/16 | 919 | 8.73 | 140.00 | |
| N0042 | Treasure Oak Country Club | | | 06/07/96 | 1050 | 8.47 | 341.00 | |
| N0066 | Coast Waterworks Inc.<br>West Jackson Co Utility Dist. | Shore Dr. | | 05/12/05 | 307 | 8.74 | 3.30 | 9 |
| N0278 | West Jackson Co Utility Dist. | Carban Place Well<br>Windsor Park Sub. | MS-GW-00183 | 09/14/93 | 422 | 8.09 | 6.20 | |
| N0288 | West Jackson Co Utility Dist. | Fort Bayou Well<br>Well #9 | MS-GW-00185 | 09/22/15 | 332 | 8.45 | 9.20 | |
| N0381 | West Jackson Co Utility Dist. | Puerto | MS-GW-02061 | 09/14/93 | 1051 | 8.57 | 99.30 | |
| | | | | 05/12/05 | 709 | 8.98 | 85.00 | |
| N0391 | West Jackson Co Utility Dist. | El Bonita | MS-GW-02062 | 09/16/93 | 1167 | 8.62 | 116.00 | |
| | | | | 05/12/05 | 827 | 8.90 | 104.00 | |
| N0425 | Gulf Park Water Utility Service | Barnical Rd | MS-GW-13086 | 12/08/15 | 467 | 8.50 | 15.10 | |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| N0451 | West Jackson Co Utility Dist. | Sweet Brier-Twin By. Well #6 | MS-GW-02063 | 09/22/15 | 442 | 9.14 | 16.00 | |
| N0462 | Gulf Park Water Utility Service | Marina Dr. Well #2 | MS-GW-13085 | 12/08/15 | 351 | 8.00 | 8.90 | |
| N0479 | Gulf Coast Research Lab | | MS-GW-01144 | 10/22/82 | 490 | | 11.00 | |
| | | | | 07/12/88 | 640 | | 39.00 | |
| N0496 | Ocean Springs Seafood | | MS-GW-01402 | 07/14/88 | 360 | | 5.80 | |
| | | | | 04/02/93 | 348 | 8.90 | 6.20 | |
| | | | | 08/30/95 | 352 | 8.86 | 7.10 | |
| | | | | 01/18/96 | 341 | 8.71 | 10.10 | |
| | | | | 07/31/96 | 340 | 8.85 | 5.70 | |
| | | | | 01/17/97 | 333 | 8.52 | 5.00 | |
| | | | | 08/07/97 | 330 | 8.76 | 5.40 | |
| | | | | 01/14/98 | 345 | 8.61 | 6.00 | |
| | | | | 07/15/98 | 347 | 8.82 | 5.50 | 13 |
| | | | | 01/21/99 | 347 | 8.91 | 5.90 | 12 |
| | | | | 06/15/99 | 345 | 8.95 | 6.60 | 13 |
| | | | | 03/22/00 | 348 | 8.93 | 6.20 | |
| | | | | 09/13/00 | 348 | 8.87 | 6.10 | 29 |
| | | | | 02/20/01 | 363 | 8.70 | 10.90 | 17 |
| | | | | 01/16/02 | 350 | 8.98 | 5.80 | 15 |
| | | | | 05/08/03 | 352 | 8.91 | 6.10 | 17 |
| | | | | 04/14/04 | 347 | 8.80 | 6.20 | 17 |
| | | | | 04/07/05 | 382 | 8.70 | 9.00 | 5 |
| N0500 | West Jackson Co Utility Dist. | Well #27 | MS-GW-12794 | 09/22/15 | 640 | 8.91 | 72.60 | |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| N0505 | West Jackson Co Utility Dist. | Lancaster Well Well #7 | MS-GW-00184 | 09/22/15 | 307 | 8.60 | 4.10 | |
| N0517 | Ocean Springs | Halstead Rd. Well #8 | MS-GW-13851 | 06/23/88 | | | 4.50 | |
| | | | | 03/17/93 | 404 | 9.00 | 5.10 | |
| | | | | 06/06/96 | 380 | 9.49 | 4.80 | |
| | | | | 01/16/97 | 380 | 8.90 | 4.10 | |
| | | | | 08/07/97 | 369 | 8.89 | 4.30 | |
| | | | | 02/19/98 | 363 | 9.17 | 3.00 | |
| | | | | 07/15/98 | 389 | 9.01 | 3.20 | 17 |
| | | | | 01/21/99 | 393 | 9.04 | 4.10 | 10 |
| | | | | 06/16/99 | 392 | 9.08 | 5.30 | 36 |
| | | | | 04/04/00 | 394 | 9.10 | 4.90 | 23 |
| | | | | 09/13/00 | 393 | 9.00 | 4.80 | 32 |
| | | | | 02/20/01 | 392 | 9.02 | 5.10 | 8 |
| | | | | 01/16/02 | 393 | 8.98 | 4.80 | 19 |
| | | | | 05/07/03 | 395 | 9.09 | 4.80 | 35 |
| | | | | 04/14/04 | 396 | 8.93 | 4.50 | 51 |
| | | | | 03/10/05 | 393 | 8.97 | 4.50 | 25 |
| | | | | 01/14/09 | 368 | 9.00 | 5.60 | 48 |
| | | | | 11/03/15 | 398 | 8.98 | 5.50 | |
| N0520 | Ocean Springs | Hardy St. Replacment Well #2 | MS-GW-13847 | 05/12/05 | 348 | 9.06 | 4.20 | 8 |
| | | | | 11/03/15 | 354 | 9.10 | 4.90 | |
| N0543 | Ocean Springs | Pabst Rd.-Well #9 | MS-GW-11991 | 05/12/05 | 367 | | 3.90 | 19 |
| | | | | 11/03/15 | 392 | 8.65 | 5.10 | |
| N0566 | Ocean Springs | Washington St. | MS-GW-14731 | 11/03/15 | 663 | 8.07 | 78.70 | |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| N0715 | Gulf Park Water Utility Service | 7th Street Well | MS-GW-15303 | 12/08/15 | 254 | 8.50 | 5.20 | |
| N0719 | Gulf Park Water Utility Service | Edge Water Blvd | MS-GW-15302 | 12/08/15 | 429 | 7.50 | 8.30 | |
| N0738 | Gulf Park Water Utility Service | Point Aux Chenes | MS-GW-15368 | 12/08/15 | 601 | 8.00 | 96.80 | |
| N0739 | West Jackson Co Utility Dist. | Tucker Rd. Well #2 | MS-GW-15305 | 09/22/15 | 442 | 9.15 | 17.00 | |
| N0741 | West Jackson Co Utility Dist. | Tucker Rd. Well #4 | MS-GW-15935 | 09/22/15 | 465 | 8.64 | 16.30 | |
| N0743 | Gulf Park Water Utility Service | Shell St. (Starfish) | MS-GW-15702 | 12/08/15 | 435 | NA | 13.60 | |
| N0888 | West Jackson Co Utility Dist. | Well #28 | MS-GW-16149 | 09/22/15 | 675 | 8.81 | 90.00 | |
| N1043 | West Jackson Co Utility Dist. | Well #23 | MS-GW-16239 | 09/22/15 | 618 | 8.97 | 68.60 | |
| N1048 | Ocean Springs | Deana Rd. | MS-GW-16345 | 11/03/15 | 386 | 8.90 | 4.60 | |
| N1050 | West Jackson Co Utility Dist. | St. Martin High School Well #24 | MS-GW-16521 | 09/22/15 | 394 | 8.89 | 4.80 | |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| O0074 | James Grimsley | McVey | | 12/04/74 | 1850 | | 500.00 | |
| | | | | 10/22/86 | 2010 | | 500.00 | |
| | | | | 03/17/93 | 2050 | 8.40 | 490.00 | |
| | | | | 08/30/95 | 2000 | 8.05 | 430.00 | |
| | | | | 01/17/96 | 1970 | 8.10 | 472.00 | |
| | | | | 08/01/96 | 2020 | 8.33 | 493.00 | |
| | | | | 02/18/97 | 1966 | 8.27 | 479.00 | |
| | | | | 02/19/98 | 1997 | 8.34 | 550.00 | |
| | | | | 07/16/98 | 2056 | 8.40 | 479.00 | 25 |
| | | | | 01/20/99 | 2089 | 8.39 | 490.00 | 1 |
| | | | | 11/03/99 | 2102 | 8.41 | 500.00 | 37 |
| | | | | 09/13/00 | 2098 | 8.31 | 516.00 | |
| | | | | 02/22/01 | 2090 | 8.40 | 493.00 | 7 |
| | | | | 01/16/02 | 2110 | 8.50 | 524.00 | 18 |
| | | | | 05/08/03 | 2098 | 8.46 | 521.00 | 12 |
| | | | | 04/07/05 | 2076 | 8.39 | 386.00 | 9 |
| | | | | 08/17/16 | 2075 | 8.38 | 504.00 | |
| O0156 | Gautier | Woodlane | MS-GW-07203 | 06/01/72 | 1070 | | 160.00 | 30 |
| | | | | 06/22/88 | 1120 | | 170.00 | 40 |
| | | | | 02/11/92 | 899 | 8.80 | 130.00 | |
| | | | | 03/29/93 | 1100 | 8.60 | 180.00 | |
| | | | | 09/13/93 | 1120 | 8.81 | 185.80 | |
| | | | | 08/30/95 | 1010 | 8.73 | 135.00 | |
| | | | | 01/17/96 | 533 | 7.30 | 91.00 | |
| | | | | 08/01/96 | 1020 | 8.66 | 167.00 | |
| | | | | 01/16/97 | 982 | 8.29 | 170.10 | |
| | | | | 08/06/97 | 1055 | 8.70 | 174.00 | |
| | | | | 02/18/98 | 1055 | 8.60 | 169.00 | |
| | | | | 07/17/98 | 1139 | 8.78 | 170.00 | 57 |
| | | | | 01/21/99 | 1121 | 8.78 | 144.00 | 280 |
| | | | | 06/16/99 | 1109 | 8.82 | 203.00 | 114 |
| | | | | 11/03/99 | 1130 | 8.83 | 182.00 | 89 |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| O0156 | Gautier (Continued) | Woodlane | MS-GW-07203 | 04/05/00 | 1128 | 8.83 | 174.00 | 93 |
| | | | | 09/14/00 | 1117 | 8.74 | 182.00 | 75 |
| | | | | 02/21/01 | 1106 | 8.69 | 180.00 | 65 |
| O0197 | Saint Andrews Water | Golf Course | MS-GW-14496 | 04/23/73 | 552 | | 31.00 | |
| | | | | 08/30/95 | 613 | 9.12 | 38.00 | |
| | | | | 02/21/96 | 667 | 9.65 | 39.60 | |
| | | | | 07/31/96 | 587 | 9.23 | 40.60 | |
| | | | | 01/16/97 | 587 | 8.92 | 41.10 | |
| | | | | 08/07/97 | 585 | 9.23 | 40.50 | |
| | | | | 02/19/98 | 582 | 9.22 | 42.00 | |
| | | | | 07/16/98 | 603 | 9.19 | 34.10 | 15 |
| | | | | 06/16/99 | 599 | 9.27 | 40.10 | 28 |
| | | | | 09/13/00 | 589 | 9.17 | 38.00 | 46 |
| | | | | 02/21/01 | 588 | 9.20 | 38.00 | 38 |
| | | | | 01/16/02 | 596 | 9.33 | 41.50 | 56 |
| | | | | 05/08/03 | 599 | 9.27 | 42.20 | 40 |
| | | | | 05/21/04 | 605 | 9.17 | 38.60 | 43 |
| | | | | 04/07/05 | 600 | 8.74 | 41.60 | 54 |
| | | | | 12/07/07 | 590 | 9.09 | 46.70 | 22 |
| | | | | 01/14/09 | 560 | 9.28 | 26.10 | 27 |
| | | | | 04/08/10 | 582 | 9.26 | 40.10 | 41 |
| | | | | 04/12/12 | 583 | | 43.10 | 37 |
| | | | | 12/09/15 | 632 | 9.28 | 40.80 | |
| O0208 | Gautier | Westgate | MS-GW-07201 | 09/13/93 | 1279 | 8.36 | 200.70 | |
| | | | | 09/06/95 | 1012 | 8.57 | 174.00 | |
| | | | | 03/14/05 | 1070 | 8.75 | 175.00 | 73 |
| | | | | 07/23/15 | 1100 | 8.84 | 189.00 | |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| O0213 | Saint Andrews Water | Woods | MS-GW-14495 | 08/30/95 | 598 | 9.07 | 24.90 | |
| | | | | 02/21/96 | 577 | 8.98 | 26.10 | |
| | | | | 07/31/96 | 486 | 9.08 | 27.10 | |
| | | | | 01/17/97 | 573 | 8.83 | 26.70 | |
| | | | | 08/07/97 | 565 | 9.01 | 26.80 | |
| | | | | 02/19/98 | 572 | 9.22 | 27.00 | |
| | | | | 01/21/99 | 598 | 9.15 | 27.90 | 50 |
| | | | | 06/16/99 | 581 | 9.21 | 29.50 | 56 |
| | | | | 09/13/00 | 600 | 9.11 | 29.70 | 58 |
| | | | | 02/21/01 | 596 | 9.14 | 30.10 | 69 |
| | | | | 01/16/02 | 599 | 9.20 | 29.70 | 75 |
| | | | | 05/08/03 | 597 | 9.22 | 30.90 | 64 |
| | | | | 05/21/04 | 604 | 9.04 | 30.10 | 59 |
| | | | | 04/07/05 | 602 | 9.18 | 29.90 | 71 |
| | | | | 12/07/07 | 596 | 9.35 | 32.00 | 68 |
| | | | | 01/14/09 | 576 | 9.20 | 23.50 | 94 |
| | | | | 04/08/10 | 597 | 8.94 | 28.70 | 66 |
| | | | | 04/12/12 | 560 | | 29.80 | 92 |
| | | | | 12/09/15 | 629 | 9.38 | 29.40 | |
| O0273 | Richardson | | | 05/03/93 | 489 | 9.50 | 25.00 | 10 |
| | | | | 08/30/95 | 517 | 8.81 | 24.30 | |
| | | | | 01/17/96 | 503 | 8.70 | 28.20 | |
| | | | | 08/01/96 | 485 | 8.86 | 30.40 | |
| | | | | 01/16/97 | 481 | 8.55 | 31.00 | |
| | | | | 08/06/97 | 490 | 8.76 | 28.90 | |
| | | | | 02/18/98 | 497 | 8.72 | 30.00 | |
| | | | | 07/15/98 | 506 | 8.87 | 27.60 | 63 |
| | | | | 01/21/99 | 540 | 8.90 | 37.50 | 42 |
| | | | | 06/16/99 | 509 | 8.94 | 32.50 | 66 |
| | | | | 04/05/00 | 510 | 8.99 | 33.20 | 59 |
| | | | | 09/13/00 | 509 | 8.84 | 32.10 | 46 |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| O0273 | Richardson (Continued) | | | 02/20/01 | 509 | 8.98 | 33.70 | 55 |
| | | | | 01/16/02 | 510 | 8.97 | 33.80 | 58 |
| | | | | 05/07/03 | 503 | 8.91 | 35.30 | 86 |
| | | | | 04/14/04 | 503 | 8.82 | 35.60 | 62 |
| | | | | 03/10/05 | 511 | 8.93 | 35.50 | 78 |
| | | | | 01/09/07 | 484 | | 36.10 | |
| | | | | 04/03/09 | 477 | | 34.30 | 72 |
| | | | | 07/28/10 | 500 | 9.06 | 37.40 | 41 |
| | | | | 04/13/12 | 494 | | 34.50 | 52 |
| O0283 | Miss. Gulf Coast Com. Col. | | | 04/14/16 | 1075 | 8.78 | 186.00 | |
| O0286 | Gautier | Mall | MS-GW-15184 | 03/17/99 | 740 | 9.04 | 104.00 | 63 |
| | | | | 04/05/00 | 884 | 9.06 | 108.00 | 65 |
| | | | | 01/09/02 | 740 | 8.92 | 108.00 | |
| | | | | 03/14/05 | 832 | 9.00 | 99.00 | 59 |
| | | | | 07/23/15 | 670 | 8.89 | 65.10 | |
| O0295 | Gautier | Honduras-Merida | MS-GW-03433 | 07/23/15 | 735 | 9.12 | 30.30 | |
| O0300 | Gautier | Bonita | MS-GW-03431 | 06/22/88 | 690 | | 46.00 | |
| | | | | 02/11/92 | 675 | | 46.00 | |
| | | | | 08/30/95 | 656 | 8.71 | 37.60 | |
| | | | | 04/05/96 | | 8.40 | 51.00 | 40 |
| | | | | 08/01/96 | 604 | 8.84 | 43.40 | |
| | | | | 08/06/97 | 622 | 8.76 | 46.00 | |
| | | | | 02/18/98 | 641 | 8.66 | 45.00 | |
| | | | | 07/17/98 | 684 | 8.88 | 41.70 | 55 |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| O0307 | Gautier | Office | MS-GW-15185 | 03/10/05 | 664 | 9.11 | 53.40 | 100 |
| | | | | 07/23/15 | 735 | 9.12 | 54.40 | |
| O0310 | Ocean Springs | Sunplex | MS-GW-00348 | 05/12/05 | 467 | 8.37 | 25.30 | 34 |
| | | | | 11/03/15 | 564 | 8.07 | 63.60 | |
| O0313 | Gautier | Old Drive-in - Beasley | MS-GW-05615 | 06/22/88 | 740 | 9.00 | 58.00 | |
| | | | | 03/29/93 | 651 | 8.87 | 38.00 | |
| | | | | 09/13/93 | 630 | 8.73 | 40.90 | |
| | | | | 08/30/95 | 624 | 8.86 | | |
| | | | | 04/05/00 | 639 | 9.10 | 35.40 | 54 |
| | | | | 09/14/00 | 642 | 8.96 | 36.80 | 59 |
| | | | | 02/21/01 | 640 | 9.07 | 37.20 | 54 |
| | | | | 01/16/02 | 643 | 9.10 | 34.50 | 51 |
| | | | | 05/08/03 | 630 | 9.07 | 35.60 | 78 |
| | | | | 04/14/04 | 647 | 9.00 | 39.80 | 74 |
| | | | | 03/10/05 | 647 | 9.05 | 39.60 | 65 |
| | | | | 04/18/07 | 649 | 9.15 | 41.40 | 47 |
| | | | | 01/28/09 | 640 | 9.04 | 41.50 | 30 |
| | | | | 07/28/10 | 635 | 9.25 | 34.30 | 38 |
| | | | | 04/13/12 | 627 | | 38.60 | 72 |
| | | | | 07/23/15 | 649 | 9.08 | 37.10 | |
| O0314 | Gautier | Martin Bluff - Well #2 | MS-GW-01388 | 03/17/99 | 750 | 8.84 | 142.00 | 31 |
| | | | | 03/10/05 | 861 | 8.80 | 102.00 | 44 |
| | | | | 07/23/15 | 929 | 8.81 | 141.00 | |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| O0319 | Gautier | Martin Bluff - Well #1 | MS-GW-01309 | 03/17/99 | 750 | 8.83 | 145.00 | 38 |
| | | | | 03/10/05 | 860 | 8.80 | 109.00 | 38 |
| O0392 | National Park Service | Horn Island | | 12/01/94 | | 8.90 | 89.00 | 50 |
| | | | | 02/15/96 | 645 | 9.15 | 68.20 | |
| | | | | 07/31/96 | 604 | 9.29 | 71.60 | |
| | | | | 02/19/97 | 628 | 9.11 | 72.00 | |
| | | | | 08/07/97 | 658 | 9.08 | 61.80 | |
| | | | | 02/19/98 | 646 | 9.40 | 71.00 | |
| | | | | 08/05/98 | 605 | 9.04 | 68.40 | 87 |
| | | | | 03/16/99 | 665 | 9.16 | 69.00 | 59 |
| | | | | 04/06/00 | 656 | 9.16 | 73.90 | 72 |
| | | | | 11/17/00 | 664 | 9.03 | 73.80 | 46 |
| | | | | 04/13/01 | 660 | 9.05 | 72.40 | |
| | | | | 02/22/02 | 665 | 9.20 | 73.90 | 85 |
| | | | | 09/02/15 | 686 | 9.13 | 82.10 | |
| O0422 | Gautier | HWY 57 | MS-GW-15736 | 04/19/07 | 825 | 9.01 | 109.00 | 58 |
| | | | | 07/23/15 | 790 | 8.88 | 96.40 | |
| O0605 | Ocean Beach Utility Service | Willow | MS-GW-17154 | 12/08/15 | 475 | 8.00 | 29.40 | |
| O0613 | Ocean Beach Utility Service | Apple | MS-GW-15329 | 12/08/15 | 438 | 8.00 | 23.40 | |
| P0054 | Moss Point | Parallel | MS-GW-01411 | 06/05/96 | 535 | 8.73 | 137.00 | |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| P0068 | Pascagoula | North Market | MS-GW-01957 | 06/05/96 | 821 | 8.42 | 121.00 | |
| | | | | 03/19/99 | 710 | 8.10 | 116.00 | 22 |
| P0069 | Pascagoula | Telephone | MS-GW-01958 | 06/05/96 | 985 | 8.55 | 171.00 | |
| | | | | 03/19/99 | 860 | 8.17 | 176.00 | |
| | | | | 11/03/99 | 1100 | 8.08 | 170.00 | 38 |
| | | | | 05/08/03 | 1020 | 8.16 | 166.00 | 52 |
| | | | | 03/14/05 | 980 | 8.06 | 144.00 | 55 |
| | | | | 01/12/16 | 1013 | 8.01 | 192.00 | |
| P0072 | Pascagoula Ice | | | 06/05/96 | 857 | 7.89 | 154.00 | |
| | | | | 03/18/99 | 890 | 7.79 | 196.00 | |
| | | | | 11/05/99 | 1000 | 7.94 | 159.00 | |
| P0108 | Jackson Co. Port Athority | West Bank | MS-GW-01649 | 02/27/95 | 1400 | 8.75 | 301.00 | |
| | | | | 03/17/99 | 1270 | 8.71 | 312.00 | |
| | | | | 03/28/12 | 1550 | 8.56 | 300.00 | |
| P0124 | Pascagoula | Communy Well No. 1 | MS-GW-01954 | 02/27/95 | 1590 | 8.24 | 360.00 | |
| | | | | 06/05/96 | 1006 | 8.42 | 284.00 | |
| | | | | 05/08/03 | 1714 | 8.70 | 375.00 | 79 |
| | | | | 03/04/05 | 1640 | 8.66 | 292.00 | 65 |
| | | | | 01/11/07 | 1660 | | 335.00 | |
| | | | | 04/12/10 | 1690 | 8.57 | 339.00 | 74 |
| | | | | 03/28/12 | 1160 | 8.34 | 200.00 | |
| | | | | 04/11/14 | 1611 | 8.74 | 321.00 | 76 |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| P0134 | Pascagoula | Beach | MS-GW-14952 | 03/17/99 | 860 | 9.11 | 123.00 | |
| | | | | 05/07/03 | 966 | 8.95 | 119.00 | 169 |
| | | | | 03/09/05 | 916 | 8.87 | 90.50 | 132 |
| | | | | 01/28/09 | 971 | 8.91 | 136.00 | 75 |
| | | | | 04/09/10 | 930 | 8.87 | 112.00 | 112 |
| | | | | 11/15/11 | 955 | 9.51 | 117.00 | 104 |
| | | | | 04/11/14 | 814 | 9.05 | 109.00 | 112 |
| P0145 | Ingalls Shipbuilding | East Bank | MS-GW-01680 | 06/06/96 | 1100 | 8.48 | 595.00 | |
| | | | | 08/05/98 | 2300 | 7.74 | 580.00 | |
| | | | | 11/05/99 | 4000 | 8.46 | 572.00 | |
| | | | | 05/16/05 | 2180 | 8.53 | 512.00 | 23 |
| | | | | 03/28/12 | 2370 | 8.43 | 610.00 | |
| P0150 | Pascagoula | Communy Well No. 2 | MS-GW-01955 | 07/12/77 | 1300 | 8.40 | 300.00 | |
| | | | | 06/20/79 | 1400 | 8.40 | 290.00 | |
| | | | | 08/27/81 | 1300 | 8.70 | 280.00 | |
| | | | | 10/20/82 | 1430 | 8.60 | 270.00 | |
| | | | | 04/24/85 | 1450 | 8.60 | 300.00 | |
| | | | | 06/24/86 | | 8.60 | 280.00 | 50 |
| | | | | 06/21/88 | 1400 | 8.60 | 270.00 | |
| | | | | 03/15/91 | | 8.60 | 307.00 | 60 |
| | | | | 01/14/92 | 1510 | 8.60 | 290.00 | |
| | | | | 03/25/93 | 1550 | 8.60 | 320.00 | |
| | | | | 02/24/95 | 1640 | 8.71 | 337.00 | |
| | | | | 07/27/95 | 1650 | 8.40 | 320.00 | |
| | | | | 01/17/96 | 1660 | 8.40 | 335.00 | |
| | | | | 04/05/96 | | 8.60 | 360.00 | 40 |
| | | | | 06/05/96 | 1600 | 8.69 | 349.00 | |
| | | | | 07/31/96 | 1648 | 8.54 | 364.00 | |
| | | | | 01/16/97 | 1635 | 8.48 | 357.70 | |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| P0150 | Pascagoula (Continued) | Communy Well No. 2 | MS-GW-01955 | 07/23/97 | 1625 | 8.41 | 368.00 | |
| | | | | 02/18/98 | 1689 | 8.50 | 348.00 | |
| | | | | 07/16/98 | 1730 | 8.62 | 324.00 | 42 |
| | | | | 01/21/99 | 1759 | 8.61 | 357.00 | 56 |
| | | | | 08/26/99 | 1732 | 8.74 | 423.00 | 55 |
| | | | | 11/03/99 | 1806 | 8.69 | 405.00 | 67 |
| | | | | 09/14/00 | 1790 | 8.61 | 399.00 | 60 |
| | | | | 02/21/01 | 1759 | 8.64 | 382.00 | 56 |
| | | | | 01/15/02 | 1818 | 8.67 | 400.00 | 44 |
| | | | | 05/07/03 | 1832 | 8.68 | 424.00 | 55 |
| | | | | 04/15/04 | 1828 | 8.61 | 434.00 | 57 |
| | | | | 03/09/05 | 1775 | 8.68 | 331.00 | 59 |
| | | | | 11/28/09 | 1813 | 8.61 | 381.00 | 26 |
| | | | | 04/09/10 | 1994 | 8.57 | 497.00 | 51 |
| | | | | 11/15/11 | 2060 | 8.10 | 512.00 | 66 |
| | | | | 03/28/12 | 1990 | 8.55 | 420.00 | |
| | | | | 04/11/14 | 1965 | 8.66 | 420.00 | 56 |
| | | | | 05/06/15 | 2000 | 8.67 | 445.00 | |
| | | | | 08/17/16 | 2012 | 8.52 | 449.00 | |
| P0226 | Moss Point | Neese | MS-GW-12018 | 03/11/05 | 712 | 9.02 | 73.30 | 48 |
| P0229 | Moss Point | Bellview | MS-GW-01412 | 06/05/96 | 1114 | 8.72 | 208.00 | |
| | | | | 03/19/99 | 1020 | 8.79 | 212.00 | 61 |
| | | | | 05/09/03 | 1296 | 8.76 | 234.00 | 76 |
| | | | | 03/11/05 | 1256 | 8.75 | 199.00 | 91 |
| P0348 | Ingalls Shipbuilding | East Bank | MS-GW-01679 | 06/06/96 | 802 | 8.68 | 269.00 | |
| | | | | 05/12/05 | 1150 | 8.76 | 176.00 | 86 |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| P0349 | Ingalls Shipbuilding | West Bank No. 2 | MS-GW-01681 | 05/12/05 | 717 | 8.16 | 218.00 | 118 |
| | | | | 03/28/12 | 1800 | 8.32 | 380.00 | |
| | | | | 11/04/15 | 761 | 8.21 | 107.00 | |
| P0355 | Moss Point | Community | MS-GW-01414 | 03/18/99 | 1080 | 8.79 | 222.00 | 66 |
| | | | | 05/09/03 | 1310 | 8.81 | 224.00 | 72 |
| | | | | 03/11/05 | 1260 | 8.80 | 177.00 | 76 |
| P0372 | Pascagoula | Communy Well No. 3 | MS-GW-01956 | 09/08/82 | | 7.50 | 181.00 | |
| | | | | 06/21/88 | 1050 | 8.00 | 190.00 | |
| | | | | 03/15/91 | | 8.00 | 193.00 | 50 |
| | | | | 01/14/92 | 1070 | 8.20 | 180.00 | |
| | | | | 03/25/93 | 1040 | | 180.00 | |
| | | | | 02/23/95 | 987 | 8.15 | 181.00 | |
| | | | | 07/27/95 | 1060 | 8.00 | 216.00 | |
| | | | | 04/05/96 | | 8.30 | 190.00 | 25 |
| | | | | 07/31/96 | 1021 | 8.04 | 184.00 | |
| | | | | 07/23/97 | 983 | 7.89 | 178.00 | |
| | | | | 02/18/98 | 993 | 8.05 | 172.00 | |
| | | | | 07/16/98 | 1061 | 8.15 | 175.00 | 32 |
| | | | | 01/21/99 | 1056 | 8.19 | 184.00 | 35 |
| | | | | 08/26/99 | 1045 | 8.22 | 206.00 | 24 |
| | | | | 11/03/99 | 1058 | 8.23 | 183.00 | 61 |
| | | | | 09/14/00 | 1056 | 8.16 | 186.00 | 40 |
| | | | | 02/21/01 | 1056 | 8.17 | 184.00 | 47 |
| | | | | 01/15/02 | 1057 | 8.21 | 188.00 | 31 |
| | | | | 05/07/03 | 1059 | 8.21 | 175.00 | 91 |
| | | | | 04/15/04 | 1054 | 8.11 | 182.00 | 40 |
| | | | | 03/09/05 | 1050 | 8.15 | 142.00 | 48 |
| | | | | 12/07/07 | 1048 | 8.55 | 190.00 | 49 |
| | | | | 04/09/10 | 1284 | 8.71 | 218.00 | 140 |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| P0373 | Ingalls Shipbuilding | West Bank No. 1 | MS-GW-01678 | 05/12/05 | 742 | 8.64 | 96.70 | 31 |
| | | | | 03/28/12 | 780 | 8.29 | 101.00 | |
| | | | | 11/04/15 | 786 | 8.43 | 111.00 | |
| P0376 | Escatawpa - Moss Point | Rabie | MS-GW-12019 | 06/07/96 | 733 | 9.02 | 59.00 | |
| | | | | 03/18/99 | 690 | 8.97 | 56.00 | 77 |
| | | | | 03/11/05 | 766 | 9.04 | 61.90 | 81 |
| P0382 | Moss Point | Howze | MS-GW-01415 | 02/22/95 | 940 | 8.85 | 158.00 | |
| | | | | 05/09/03 | 971 | 8.92 | 135.00 | |
| | | | | 03/11/05 | 931 | 8.89 | 123.00 | 55 |
| | | | | 05/28/09 | 973 | 8.89 | 136.00 | 47 |
| P0409 | Ingalls Shipbuilding | West Bank No. 3 | MS-GW-01682 | 05/12/05 | 710 | 8.28 | 91.50 | |
| | | | | 03/28/12 | 778 | 8.32 | 112.00 | |
| | | | | 11/04/15 | 753 | 8.24 | 106.00 | |
| P0429 | State of Mississippi | Home Port | MS-GW-07765 | 04/11/89 | | 8.29 | | |
| | | | | 07/31/96 | 646 | 8.41 | | |
| | | | | 02/12/97 | NA | 8.10 | 125.00 | |
| | | | | 06/16/99 | 794 | 8.60 | 112.00 | 71 |
| | | | | 04/05/00 | 797 | 8.68 | 107.00 | 65 |
| | | | | 09/14/00 | 793 | 8.51 | 108.00 | 66 |
| | | | | 02/21/01 | 793 | 8.52 | 152.00 | 59 |
| | | | | 01/16/02 | 806 | 8.51 | 117.00 | 61 |
| | | | | 05/08/03 | 800 | 8.61 | 114.00 | 70 |
| | | | | 04/14/04 | 804 | 8.51 | 216.00 | 61 |
| | | | | 03/10/05 | 800 | 8.62 | 93.50 | 67 |
| | | | | 04/03/09 | 781 | 8.02 | 113.00 | 66 |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| P0429 | State of Mississippi (Continued) | Home Port | MS-GW-07765 | 07/28/10 | 357 | 8.57 | 125.00 | 44 |
| | | | | 03/29/12 | 812 | 8.48 | 117.00 | 51 |
| | | | | 08/12/15 | 800 | 7.92 | 128.00 | |
| P0430 | State of Mississippi | Home Port | MS-GW-07766 | 05/02/89 | NA | 8.09 | 101.00 | |
| | | | | 03/30/93 | 765 | 8.00 | 100.00 | |
| | | | | 02/22/95 | 710 | 8.02 | 110.00 | |
| | | | | 07/27/95 | 762 | 8.36 | 108.00 | |
| | | | | 01/17/96 | 747 | 8.20 | 132.00 | |
| | | | | 01/16/97 | 743 | 7.90 | 113.00 | |
| | | | | 02/19/97 | 730 | 7.67 | 113.00 | |
| | | | | 07/23/97 | 742 | 8.24 | 110.00 | |
| | | | | 02/18/98 | 755 | 8.46 | 118.00 | |
| | | | | 07/16/98 | 778 | 8.59 | 104.00 | 38 |
| | | | | 01/21/99 | 776 | 8.63 | 110.00 | 54 |
| | | | | 06/16/99 | 773 | 8.74 | 109.00 | 72 |
| | | | | 04/05/00 | 780 | 8.74 | 106.00 | 51 |
| | | | | 02/21/01 | 790 | 8.19 | 109.00 | 45 |
| | | | | 01/16/02 | 782 | 8.66 | 121.00 | 60 |
| | | | | 05/07/03 | 754 | 8.72 | 114.00 | 65 |
| | | | | 04/14/04 | 782 | 8.56 | 102.00 | 58 |
| | | | | 03/10/05 | 781 | 8.63 | 86.00 | 66 |
| | | | | 07/28/10 | 690 | 8.51 | 108.00 | 39 |
| | | | | 03/29/12 | 803 | 7.80 | 121.00 | |
| | | | | 08/12/15 | 766 | 8.57 | 111.00 | |
| P0455 | Moss Point | Payne | MS-GW-14774 | 03/19/99 | 830 | 8.87 | 148.00 | |
| | | | | 05/09/03 | 1010 | 8.91 | 138.00 | 51 |
| | | | | 03/11/05 | 975 | 8.87 | 119.00 | 33 |
| | | | | 05/28/09 | 1450 | | 254.00 | |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| P0458 | Pascagoula | 14th street | MS-GW-15791 | 05/08/03 | 974 | 8.10 | 153.00 | 36 |
| | | | | 03/09/05 | 915 | 8.02 | 121.00 | 33 |
| | | | | 11/15/11 | 964 | | 155.00 | |
| | | | | 09/01/15 | 985 | 8.02 | 159.00 | |
| P0488 | Moss Point | Palmetto | MS-GW-16158 | 05/28/09 | 1378 | 8.50 | 254.00 | |
| | | | | 01/12/16 | 1241 | 8.60 | 227.00 | |
| P0495 | Pascagoula | Communy | MS-GW-16852 | 05/06/15 | 1088 | 8.33 | 185.00 | |
| | | | | 08/17/16 | 1096 | 8.21 | 187.00 | |
| Q0019 | Omega Protein Inc. | Zapata | MS-GW-08529 | 06/05/96 | 1010 | 8.28 | 424.00 | |
| | | | | 08/17/16 | 1530 | 8.57 | 442.00 | |
| Q0034 | Orange Grove School | | | 12/15/93 | 1540 | 8.00 | 174.00 | |
| | | | | 04/03/09 | 1680 | 8.34 | | 262 |
| | | | | 04/07/00 | 1600 | 8.51 | 190.00 | 250 |
| | | | | 08/17/16 | 1740 | 8.54 | 188.00 | |
| Q0043 | Don Glennon | Fish Camp on Cumbest Bayou | | 02/23/95 | 1310 | 8.50 | 228.00 | |
| Q0110 | Miss. Phosphate | | MS-GW-06127 | 06/07/96 | 1023 | 8.36 | 151.00 | |
| | | | | 03/19/99 | 900 | 8.45 | 150.00 | 62 |
| | | | | 01/10/07 | 1040 | | 144.00 | |
| | | | | 09/23/15 | 1045 | 8.40 | 183.00 | |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| Q0137 | Chevron Products Co. | North Well | MS-GW-02132 | 06/27/63 | | 8.30 | 103.00 | 65 |
| | | | | 07/15/64 | 842 | | 110.00 | |
| | | | | 10/21/64 | 896 | | 110.00 | |
| | | | | 01/05/66 | 887 | | 120.00 | |
| | | | | 07/14/77 | 1050 | | 170.00 | 40 |
| | | | | 06/21/79 | 1100 | | 170.00 | |
| | | | | 09/09/81 | 1100 | | 200.00 | |
| | | | | 04/24/85 | 975 | | 140.00 | |
| | | | | 06/22/88 | 1010 | | 170.00 | 40 |
| | | | | 01/15/92 | 1050 | | 150.00 | 50 |
| | | | | 03/23/93 | 1090 | 7.90 | 160.00 | 40 |
| | | | | 02/23/95 | 1020 | 8.12 | 160.00 | |
| | | | | 08/31/95 | 1074 | 8.20 | 142.00 | |
| | | | | 07/31/96 | 1081 | 8.09 | 172.00 | |
| | | | | 07/23/97 | 1070 | 7.90 | 157.00 | |
| | | | | 02/18/98 | 1018 | 8.16 | 144.00 | |
| | | | | 07/16/98 | 1086 | 8.23 | 165.00 | 70 |
| | | | | 01/21/99 | 1120 | 8.31 | 154.00 | 67 |
| | | | | 08/26/99 | 1073 | 8.50 | 188.00 | |
| | | | | 04/06/00 | 1106 | 8.34 | 161.00 | 80 |
| | | | | 09/14/00 | 1099 | 8.18 | 167.00 | 74 |
| | | | | 02/21/01 | 1071 | 8.21 | 170.00 | 73 |
| | | | | 01/16/02 | 1032 | 8.35 | 148.00 | 97 |
| | | | | 05/08/03 | 1001 | 8.41 | 140.00 | 160 |
| | | | | 04/15/04 | 1054 | 8.41 | 145.00 | 112 |
| | | | | 03/11/05 | 1020 | 8.15 | 137.00 | |
| | | | | 04/11/08 | 1090 | | 168.00 | |
| | | | | 03/04/09 | 1032 | 8.36 | 139.00 | |
| | | | | 09/23/10 | 979 | 8.35 | 140.00 | 107 |
| | | | | 11/16/11 | 1021 | 8.65 | 143.00 | 143 |
| | | | | 11/11/14 | 1067 | 8.43 | 159.00 | 90 |
| | | | | 05/06/15 | 1033 | 8.45 | 149.00 | |
| | | | | 08/17/16 | 1052 | 8.25 | 166.00 | |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| Q0160 | Morton East | | | 09/13/93 | 878 | 6.82 | 115.90 | |
| Q0180 | Pascagoula | B. C. | MS-GW-01961 | 07/12/77 | 1200 | 8.40 | 240.00 | |
| | | | | 06/20/79 | 1350 | 8.50 | 260.00 | |
| | | | | 09/08/82 | | 8.60 | 257.00 | 50 |
| | | | | 10/20/82 | 1300 | 8.50 | 230.00 | |
| | | | | 04/24/85 | 1280 | 8.70 | 170.00 | |
| | | | | 06/17/86 | | 8.60 | 228.00 | 40 |
| | | | | 10/22/86 | 1580 | 8.70 | 310.00 | |
| | | | | 07/01/87 | 1290 | 8.60 | 250.00 | |
| | | | | 06/21/88 | 1300 | 8.80 | 250.00 | |
| | | | | 03/15/91 | | 8.60 | 268.00 | 55 |
| | | | | 01/14/92 | 1360 | 8.70 | 240.00 | |
| | | | | 03/25/93 | 1340 | 8.66 | 250.00 | |
| | | | | 02/24/95 | 1426 | 8.60 | 275.00 | |
| | | | | 07/27/95 | 1420 | 8.50 | 250.00 | |
| | | | | 02/21/96 | 1362 | 8.60 | 245.00 | |
| | | | | 04/05/96 | | 8.50 | 280.00 | 40 |
| | | | | 07/31/96 | 1379 | 8.61 | 279.00 | |
| | | | | 01/16/97 | 1329 | 8.59 | 273.40 | |
| | | | | 07/23/97 | 1378 | 8.42 | 286.00 | |
| | | | | 02/18/98 | 1413 | 8.55 | 266.00 | |
| | | | | 07/16/98 | 1440 | 8.73 | 259.00 | 50 |
| | | | | 02/18/99 | 1467 | 8.77 | 284.00 | 84 |
| | | | | 08/26/99 | 1449 | 8.85 | 297.00 | 62 |
| | | | | 11/03/99 | 1483 | 8.76 | 284.00 | 86 |
| | | | | 04/06/00 | 1446 | 8.80 | 275.00 | 84 |
| | | | | 09/14/00 | 1435 | 8.72 | 281.00 | 75 |
| | | | | 02/21/01 | 1434 | 8.75 | 280.00 | 54 |
| | | | | 01/15/02 | 1440 | 8.75 | 303.00 | 81 |
| | | | | 04/15/04 | 1423 | 8.69 | 282.00 | 80 |
| | | | | 03/09/05 | 1455 | 8.77 | 211.00 | 197 |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| Q0180 | Pascagoula (Continued) | B. C. | MS-GW-01961 | 12/07/07 | 1463 | 9.01 | 317.00 | 62 |
| | | | | 01/28/09 | 1436 | 8.77 | 248.00 | 49 |
| | | | | 04/09/10 | 1479 | 8.80 | 283.00 | 70 |
| | | | | 11/15/11 | 1421 | 9.27 | 275.00 | 69 |
| | | | | 04/11/14 | 1423 | 8.87 | 254.00 | 73 |
| | | | | 09/01/15 | 1466 | 8.65 | 136.00 | |
| Q0181 | Pascagoula | Douglas | MS-GW-01962 | 02/24/95 | 1779 | 8.41 | 384.00 | |
| | | | | 05/07/03 | 1700 | 8.69 | 377.00 | 64 |
| Q0293 | Pascagoula | Sears | MS-GW-01959 | 03/17/99 | 680 | 8.23 | 91.00 | 93 |
| | | | | 05/08/03 | 743 | 8.23 | 90.30 | |
| | | | | 03/09/05 | 700 | 8.17 | 85.10 | 115 |
| | | | | 09/01/15 | 708 | 8.23 | 84.20 | |
| Q0379 | Jackson Co. Port Authority | | | 08/12/15 | 1072 | 8.57 | 171.00 | |
| Q0417 | Moss Point | Sue Ellen | MS-GW-01413 | 03/18/99 | 1010 | 8.74 | 206.00 | |
| | | | | 05/09/03 | 1250 | 8.23 | 209.00 | 57 |
| Q0420 | Pascagoula | Chateau | MS-GW-01960 | 02/23/95 | 860 | 8.12 | 119.00 | |
| | | | | 03/17/99 | 780 | 8.17 | 103.00 | 60 |
| | | | | 05/07/03 | 898 | 8.16 | 100.00 | 76 |
| | | | | 03/09/05 | 850 | 8.15 | 91.50 | 72 |
| | | | | 09/01/15 | 858 | 8.03 | 115.00 | |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| Q0429 | MDOT | | MS-GW-01277 | 04/03/09 | 1790 | | 189.00 | |
| | | | | 01/27/16 | 1532 | 8.80 | 259.00 | |
| | | | | 08/03/16 | 1500 | 8.55 | 248.00 | |
| Q0430 | MDOT | | MS-GW-01278 | 02/27/95 | 1320 | 8.91 | 224.00 | |
| | | | | 03/16/99 | 1200 | 8.84 | 230.00 | 92 |
| | | | | 08/03/16 | 1277 | 8.90 | 228.00 | |
| Q0434 | Moss Point | Hardy's | MS-GW-01416 | 06/07/96 | 510 | 9.00 | 51.00 | |
| Q0445 | Jackson Co. Port Authority | Surface Water Plant | | 02/27/95 | 660 | 8.50 | 173.00 | |
| Q0456 | John Hudson | Alligator Farm | | 06/09/92 | 1520 | 8.80 | 250.00 | |
| | | | | 02/23/95 | 1800 | 8.70 | 305.00 | |
| | | | | 07/26/95 | 1840 | 8.48 | 288.00 | |
| | | | | 01/16/96 | 1829 | 8.50 | 359.00 | |
| | | | | 01/16/97 | 1845 | 8.50 | 319.20 | |
| | | | | 08/06/97 | 1863 | 8.49 | 325.00 | |
| | | | | 02/18/98 | 1857 | 8.47 | 301.00 | |
| | | | | 07/15/98 | 1936 | 8.58 | 322.00 | 104 |
| | | | | 01/21/99 | 1966 | 8.54 | 322.00 | 103 |
| | | | | 06/16/99 | 1962 | 8.68 | 378.00 | 104 |
| | | | | 08/26/99 | 1939 | 8.71 | 349.00 | 102 |
| | | | | 11/02/99 | 1971 | 8.59 | 347.00 | 127 |
| | | | | 04/04/00 | 1957 | 8.69 | 341.00 | 111 |
| | | | | 09/14/00 | 1992 | 8.56 | 353.00 | 120 |
| | | | | 02/20/01 | 1974 | 8.59 | 345.00 | 91 |
| | | | | 01/16/02 | 2009 | 8.64 | 344.00 | 100 |
| | | | | 05/07/03 | 1997 | 8.65 | 354.00 | 103 |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| Q0456 | John Hudson (Continued) | Alligator Farm | | 04/14/04 | 2001 | 8.56 | 368.00 | 94 |
| | | | | 03/10/05 | 2017 | 8.66 | 306.00 | 103 |
| | | | | 01/09/07 | 2230 | | 378.00 | |
| | | | | 05/28/09 | 2045 | 8.70 | 374.00 | 108 |
| | | | | 09/23/10 | 2140 | 8.85 | 317.00 | 97 |
| | | | | 11/16/11 | 1984 | 8.53 | 393.00 | 88 |
| | | | | 04/11/14 | 1948 | 8.74 | 338.00 | 96 |
| | | | | 05/06/15 | 1947 | 8.64 | 436.00 | |
| | | | | 01/12/16 | 2001 | 8.54 | 380.00 | |
| Q0464 | Jimmy Stork | | | 04/29/93 | 1063 | 8.22 | 161.00 | |
| Q0465 | Norman Saksa | | | 04/19/93 | 950 | 8.00 | 130.00 | |
| | | | | 02/23/95 | 884 | 7.95 | 130.00 | |
| | | | | 07/28/95 | 949 | 7.92 | 112.00 | |
| | | | | 01/16/96 | 929 | 8.40 | 123.00 | |
| | | | | 07/30/96 | 914 | 7.58 | 119.00 | |
| | | | | 01/16/97 | 1080 | 7.75 | 127.50 | |
| | | | | 07/23/97 | 931 | 7.71 | 127.00 | |
| | | | | 02/18/98 | 888 | 7.82 | 129.00 | |
| | | | | 07/15/98 | 944 | 7.71 | 116.00 | 21 |
| | | | | 01/21/99 | 948 | 7.86 | 125.00 | 24 |
| | | | | 06/16/99 | 940 | 7.89 | 135.00 | 40 |
| | | | | 04/04/00 | 938 | 7.86 | 125.00 | 29 |
| | | | | 09/14/00 | 931 | 7.67 | 129.00 | 57 |
| | | | | 02/20/01 | 961 | 7.84 | 137.00 | 27 |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Jackson Co. Basic Water Quality Analysis

| Well No. | Owner Name | Well Name | OLWR Permit No. | Sample Date | Conductance | pH | Chlorides | Color |
|---|---|---|---|---|---|---|---|---|
| Q0600 | Moss Point | New Sue Ellen | MS-GW-16157 | 05/09/03 | 1219 | 8.82 | 209.00 | 57 |
| | | | | 05/28/09 | 1260 | 8.94 | 205.00 | 65 |
| | | | | 08/12/15 | 1278 | 8.84 | 211.00 | |
| Q0601 | Moss Point | Hubert | MS-GW-16159 | 05/28/09 | 1290 | 8.85 | 218.00 | 71 |
| | | | | 08/12/15 | 1286 | 8.86 | 217.00 | |
| Q0633 | Grand Bay NERR | | | 04/15/16 | 584 | 7.34 | 80.90 | |

**Specific Conductance Measured in umhos/cm** **Chlorides Measured in mg/L** **Color Measured in Platinum Colbalt Units**

# Table 5

# Jackson County Detailed Water Quality Analysis

# Jackson Co. Detailed Water Quality Analysis

| Well No. | Owner Name | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A0108 | Brian Davis | 03/22/16 | 8.90 | <MQL | <MQL | <MQL | 450 ug/L | 0.553 mg/L | NA | 117 mg/L | 359 umhos/cm | 17.2 mg/L | 176 mg/L | <MQL | 145 mg/L | <MQL | <MQL |
| A0135 | Vestry Com. Center | 03/22/16 | 8.95 | <MQL | <MQL | 118 ug/L | 407 ug/L | 1.44 mg/L | NA | 81.9 mg/L | 266 umhos/cm | 3.3 mg/L | 139 mg/L | <MQL | 116 mg/L | 1.01 mg/L | 13.4 mg/L |
| B0060 | Tommy Tootle Jr. | 03/22/16 | 9.00 | <MQL | <MQL | <MQL | 364 ug/L | 0.535 mg/L | NA | 134 mg/L | 392 umhos/cm | 20.6 mg/L | 206 mg/L | <MQL | 158 mg/L | 1.12 mg/L | <MQL |
| C0145 | Jackson Co. Utility | 04/17/15 | 7.58 | <MQL | 766 ug/L | 680 ug/L | 1390 ug/L | 2.55 mg/L | NA | 31.9 mg/L | 139 umhos/cm | 2.7 mg/L | 88 mg/L | 8.4 mg/L | 50 mg/L | 0.143 mg/L | 10.1 mg/L |
| C0146 | Jackson Co. Utility | 04/17/15 | 8.77 | <MQL | <MQL | 242 ug/L | 958 ug/L | 1.05 mg/L | NA | 101 mg/L | 346 umhos/cm | 10.4 mg/L | 204 mg/L | <MQL | 164 mg/L | 0.478 mg/L | <MQL |
| D0267 | First Federal savings | 04/13/16 | 8.67 | <MQL | <MQL | 319 ug/L | 665 ug/L | 1.84 mg/L | NA | 100 mg/L | 421 umhos/cm | 13.9 mg/L | 201 mg/L | 6.3 mg/L | 188 mg/L | 0.339 mg/L | <MQL |
| E0176 | Larue Com. Center | 03/22/16 | 9.01 | <MQL | <MQL | <MQL | 609 ug/L | 1.23 mg/L | NA | 108 mg/L | 313 umhos/cm | 15.6 mg/L | 167 mg/L | <MQL | 139 mg/L | <MQL | 10 mg/L |

**Manganese - MN** **Iron - Fe** **Magnesium - Mg** **Potassium - K** **Calcium - Ca** **Silicon- Si** **Sodium - Na**

# Jackson Co. Detailed Water Quality Analysis

| Well No. | Owner Name | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F0120 | Tommy Tootle | 04/13/16 | 7.38 | <MQL | <MQL | 1940 ug/L | 2400 ug/L | 6.0 mg/L | NA | 53 mg/L | 259 umhos/cm | 4.7 mg/L | 134 mg/L | 19.2 mg/L | 112 mg/L | 0.175 mg/L | 12.9 mg/L |
| F0164 | Vancleave Fire Dept. | 03/22/16 | 9.11 | <MQL | <MQL | <MQL | 500 ug/L | 0.79 mg/L | NA | 133 mg/L | 397 umhos/cm | 23.2 mg/L | 210 mg/L | <MQL | 163 mg/L | 0.479 mg/L | <MQL |
| F0464 | GMTE Enterprises | 04/13/16 | 8.78 | <MQL | 531 ug/L | 537 ug/L | 1690 ug/L | 1.79 mg/L | NA | 91.7 mg/L | 384 umhos/cm | 6.9 mg/L | 199 mg/L | 6.3 mg/L | 176 mg/L | 0.378 mg/L | 10.5 mg/L |
| H0172 | Jackson Co. Rec. | 03/22/16 | 8.86 | <MQL | <MQL | 153 ug/L | 562 ug/L | 0.963 mg/L | NA | 180 mg/L | 757 umhos/cm | 25.4 mg/L | 362 mg/L | <MQL | 365 mg/L | 0.270 mg/L | <MQL |
| J0241 | W. Jackson Co Util. | 09/22/15 | 9.01 | <MQL | <MQL | <MQL | 384 ug/L | 4.18 mg/L | NA | 111 mg/L | 428 umhos/cm | 15.5 mg/L | 228 mg/L | <MQL | 183 mg/L | 0.374 mg/L | <MQL |
| J0344 | W. Jackson Co. Utility | 09/22/15 | 9.01 | <MQL | <MQL | <MQL | 471 ug/L | 0.702 mg/L | NA | 119 mg/L | 468 umhos/cm | 15.7 mg/L | 243 mg/L | <MQL | 209 mg/L | 0.419 mg/L | <MQL |
| J0566 | Jackson Co. Utility | 04/17/16 | 8.97 | <MQL | <MQL | 164 ug/L | 991 ug/L | 1.69 mg/L | NA | 160 mg/L | 618 umhos/cm | 67.9 mg/L | 305 mg/L | <MQL | 23.9 mg/L | 0.526 mg/L | <MQL |

**Manganese - MN** **Iron - Fe** **Magnesium - Mg** **Potassium - K** **Calcium - Ca** **Silicon- Si** **Sodium - Na**

# Jackson Co. Detailed Water Quality Analysis

| Well No. | Owner Name | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J0567 | Jackson Co. Utility | 04/17/16 | 9.08 | <MQL | <MQL | 104 ug/L | 498 ug/L | 0.633 mg/L | NA | 123 mg/L | 420 umhos/cm | 23.5 mg/L | 230 mg/L | <MQL | NA | 0.378 mg/L | NA |
| J0590 | Jackson Co. Utility | 01/28/16 | 9.03 | <MQL | 59.2 ug/L | 28.7 ug/L | 1310 ug/L | 1.06 mg/L | NA | 119 mg/L | 438 umhos/cm | 14 mg/L | 235 mg/L | <MQL | 205 mg/L | 0.507 mg/L | <MQL |
| K0147 | Vancleave Jr. High | 01/28/16 | 9.37 | 14.2 ug/L | 1050 ug/L | 58.4 ug/L | 371 ug/L | 1.69 mg/L | NA | 121 mg/L | 462 umhos/cm | 27.7 mg/L | 266 mg/L | <MQL | 190 mg/L | 0.431 mg/L | <MQL |
| K0322 | Vancleave High Sch. | 01/28/16 | 9.32 | 29.2 ug/L | 1410 ug/L | 125 ug/L | 901 ug/L | 2.83 mg/L | NA | 152 mg/L | 560 umhos/cm | 24.9 mg/L | 362 mg/L | 6.7 mg/L | 268 mg/L | 0.596 mg/L | <MQL |
| K0696 | Jackson Co. Utility | 04/17/15 | 8.94 | <MQL | <MQL | <MQL | 1820 ug/L | 0.829 mg/L | NA | 172 mg/L | 611 umhos/cm | 69.3 mg/L | 358 mg/L | <MQL | 199 mg/L | 0.373 mg/L | <MQL |
| K0738 | Jackson Co. Utility | 01/28/16 | 9.03 | <MQL | 114 ug/L | 148 ug/L | 643 ug/L | 1.21 mg/L | NA | 127 mg/L | 455 umhos/cm | 9.4 mg/L | 257 mg/L | <MQL | 220 mg/L | 0.589 mg/L | <MQL |
| L0032 | Escatawpa | 03/11/05 | 8.68 | 27.2 ug/L | 12.8 ug/L | 751 ug/L | 2840 ug/L | <5 mg/L | 6210 ug/L | 141 mg/L | 658 umhos/cm | 63.1 mg/L | 317 mg/L | 9.5 mg/L | 256 mg/L | 0.898 mg/L | <10 mg/L |

**Manganese - MN** **Iron - Fe** **Magnesium - Mg** **Potassium - K** **Calcium - Ca** **Silicon- Si** **Sodium - Na**

# Jackson Co. Detailed Water Quality Analysis

| Well No. | Owner Name | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L127 | Miss Power Co. | 01/13/16 | 9.04 | <MQL | <MQL | <MQL | 385 ug/L | 0.685 mg/L | NA | 154 mg/L | 703 umhos/cm | 18.3 mg/L | 380 mg/L | <MQL | 329 mg/L | 0.731 mg/L | <MQL |
| L183 | Jackson Co. Utility | 01/27/16 | 8.78 | <MQL | 61.3 ug/L | 219 ug/L | 1230 ug/L | 1.49 mg/L | NA | 344 mg/L | 1145 umhos/cm | 47.9 mg/L | 637 mg/L | <MQL | 529 mg/L | 1.64 mg/L | <MQL |
| M349 | MDOT | 01/27/16 | 8.73 | 16.1 ug/L | 231 ug/L | 386 ug/L | 1360 ug/L | 2.03 mg/L | NA | 242 mg/L | 919 umhos/cm | 140 mg/L | 534 mg/L | 5.9 mg/L | 301 mg/L | 0.698 mg/L | <MQL |
| N0066 | Coast Water Utility | 05/12/05 | 8.74 | 1.6 ug/L | 11.6 ug/L | 24.5 ug/L | 344 ug/L | <5 mg/L | 10700 ug/L | 37.8 mg/L | 307 umhos/cm | 3.3 mg/L | 138 mg/L | <3 mg/L | 140 mg/L | 0.658 mg/L | <10 mg/L |
| N0288 | W. Jackson Co Utility | 09/22/15 | 8.45 | <MQL | <MQL | <MQL | 230 ug/L | 0.259 mg/L | NA | 100 mg/L | 332 umhos/cm | 9.2 mg/L | 179 mg/L | <MQL | 152 mg/L | 0.388 mg/L | <MQL |
| N0381 | W. Jackson Co Utility | 05/12/05 | 8.98 | 16.3 ug/L | 14.4 ug/L | 180 ug/L | 1280 ug/L | <5 mg/L | 7920 ug/L | 127 mg/L | 709 umhos/cm | 85 mg/L | 324 mg/L | 7.2 mg/L | 207 mg/L | 0.906 mg/L | <10 mg/L |
| N0391 | W. Jackson Co Utility | 05/12/05 | 8.90 | 26.7 ug/L | 6.84 ug/L | 224 ug/L | 1190 ug/L | <5 mg/L | 7450 ug/L | 171 mg/L | 827 umhos/cm | 104 mg/L | 378 mg/L | 7.7 mg/L | 223 mg/L | 0.854 mg/L | <10 mg/L |

**Manganese - MN** **Iron - Fe** **Magnesium - Mg** **Potassium - K** **Calcium - Ca** **Silicon- Si** **Sodium - Na**

# Jackson Co. Detailed Water Quality Analysis

**Well No.** **Owner Name**
N0425 Gulf Park Water

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/08/15 | 8.50 | <MQL | <MQL | <MQL | 305 ug/L | 1.17 mg/L | NA | 173 mg/L | 467 umhos/cm | 15.1 mg/L | 305 mg/L | <MQL | 305 mg/L | 0.394 mg/L | <MQL |

**Well No.** **Owner Name**
N0451 W. Jackson Co Utility.

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09/22/15 | 9.14 | <MQL | <MQL | <MQL | 547 ug/L | 0.530 mg/L | NA | 127 mg/L | 442 umhos/cm | 16 mg/L | 228 mg/L | <MQL | 189 mg/L | 0.332 mg/L | <MQL |

**Well No.** **Owner Name**
N0462 Gulf Park Water

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/08/15 | 8.00 | <MQL | <MQL | <MQL | 277 ug/L | 0.879 mg/L | NA | 123 mg/L | 351 umhos/cm | 8.9 mg/L | 232 mg/L | <MQL | 223 mg/L | 0.402 mg/L | <MQL |

**Well No.** **Owner Name**
N0496 O. S. Seafood

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/08/03 | 8.91 | 3 ug/L | 14.2 ug/L | 143 ug/L | 684 ug/L | <1 mg/L | NA | 103 mg/L | 352 umhos/cm | 6.1 mg/L | 165 mg/L | <3 mg/L | 164 mg/L | 0.726 mg/L | <10 mg/L |
| 04/14/04 | 8.80 | 4.4 ug/L | 32 ug/L | 73 ug/L | 400 ug/L | <5 mg/L | 11700 ug/L | 73.1 mg/L | 347 umhos/cm | 6.2 mg/L | 162 mg/L | <3 mg/L | 167 mg/L | 0.99 mg/L | NA |
| 04/07/05 | 8.70 | ND | 2.78 ug/L | 71.7 ug/L | 698 ug/L | <5 mg/L | 7890 ug/L | 36.2 mg/L | 382 umhos/cm | 9 mg/L | 169 mg/L | 4.1 mg/L | 169 mg/L | 0.557 mg/L | <10 mg/L |

**Well No.** **Owner Name**
N0500 W. Jackson Co Util.

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09/22/15 | 8.91 | <MQL | <MQL | 245 ug/L | 1130 ug/L | 3.4 mg/L | NA | 175 mg/L | 640 umhos/cm | 72.6 mg/L | 296 mg/L | 7.21 mg/L | 204 mg/L | 0.416 mg/L | <MQL |

**Well No.** **Owner Name**
N0505 W. Jackson Co Util.

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09/22/15 | 8.60 | <MQL | <MQL | <MQL | 235 ug/L | 0.175 mg/L | NA | 88.8 mg/L | 307 umhos/cm | 4.1 mg/L | 163 mg/L | <MQL | 138 mg/L | 0.345 mg/L | <MQL |

**Manganese - MN** **Iron - Fe** **Magnesium - Mg** **Potassium - K** **Calcium - Ca** **Silicon- Si** **Sodium - Na**

# Jackson Co. Detailed Water Quality Analysis

| Well No. | Owner Name | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N0517 | Ocean Springs | | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 05/07/03 | 9.09 | 10 ug/L | 14 ug/L | 44 ug/L | 517 ug/L | <1 mg/L | NA | 116 mg/L | 395 umhos/cm | 4.8 mg/L | 187 mg/L | <3 mg/L | 185 mg/L | 0.519 mg/L | <10 mg/L |
| | 04/14/04 | 8.93 | 35 ug/L | 2.3 ug/L | 37 ug/L | 284 ug/L | <5 mg/L | 10900 ug/L | 85 mg/L | 396 umhos/cm | 4.5 mg/L | 184 mg/L | <3 mg/L | 178 mg/L | 0.78 mg/L | NA |
| | 03/10/05 | 8.97 | 5.63 ug/L | 8.41 ug/L | 41.6 ug/L | 389 ug/L | <5 mg/L | 11500 ug/L | 73.9 mg/L | 393 umhos/cm | 4.5 mg/L | 178 mg/L | 5.1 mg/L | 180 mg/L | 0.553 mg/L | <10 mg/L |
| | 11/03/15 | 8.98 | <MQL | <MQL | <MQL | 161 ug/L | 0.306 mg/L | NA | 118 mg/L | 398 umhos/cm | 5.5 mg/L | 268 mg/L | <MQL | 189 mg/L | 0.376 mg/L | <MQL |

| Well No. | Owner Name | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N0520 | Ocean Springs | | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 05/12/05 | 9.06 | 1.12 ug/L | 3.08 ug/L | 22 ug/L | 370 ug/L | <5 mg/L | 4400 ug/L | 50.4 mg/L | 348 umhos/cm | 4.2 mg/L | 162 mg/L | <3 mg/L | 164 mg/L | 0.950 mg/L | <10 mg/L |
| | 11/03/15 | 9.10 | <MQL | <MQL | <MQL | 194 ug/L | 0.240 mg/L | NA | 109 mg/L | 354 umhos/cm | 4.9 mg/L | 189 mg/L | <MQL | 165 mg/L | 0.340 mg/L | <MQL |

| Well No. | Owner Name | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N0543 | Ocean Springs | | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 05/12/05 | NA | 18.1 ug/L | 5.37 ug/L | 63 ug/L | 403 ug/L | <5 mg/L | 10600 ug/L | 79.5 mg/L | 367 umhos/cm | 3.9 mg/L | 167 mg/L | <3 mg/L | 178 mg/L | 0.860 mg/L | <10 mg/L |
| | 11/03/15 | 8.65 | <MQL | <MQL | <MQL | 190 ug/L | 0.287 mg/L | NA | 121 mg/L | 392 umhos/cm | 5.1 mg/L | 249 mg/L | <MQL | 185 mg/L | 0.363 mg/L | <MQL |

| Well No. | Owner Name | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N0566 | Ocean Springs | | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 11/03/15 | 8.07 | <MQL | <MQL | <MQL | 667 ug/L | 1.35 mg/L | NA | 177 mg/L | 663 umhos/cm | 78.7 mg/L | 355 mg/L | 5.9 mg/L | 215 mg/L | 0.356 mg/L | <MQL |

| Well No. | Owner Name | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N0715 | Gulf Park Water | | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 12/08/15 | 8.50 | <MQL | <MQL | <MQL | 193 ug/L | 0.414 mg/L | NA | 123 mg/L | 254 umhos/cm | 5.2 mg/L | 167 mg/L | 5.9 mg/L | 213 mg/L | 0.319 mg/L | <MQL |

| Well No. | Owner Name | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N0719 | Gulf Park Water | | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 12/08/15 | 7.50 | <MQL | <MQL | <MQL | 291 ug/L | 0.732 mg/L | NA | 165 mg/L | 429 umhos/cm | 8.3 mg/L | 282 mg/L | <MQL | 286 mg/L | 0.377 mg/L | <MQL |

**Manganese - MN** **Iron - Fe** **Magnesium - Mg** **Potassium - K** **Calcium - Ca** **Silicon- Si** **Sodium - Na**

# Jackson Co. Detailed Water Quality Analysis

| Well No. | Owner Name | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N0738 | Gulf Park Water | 12/08/15 | 8.00 | <MQL | <MQL | 113 ug/L | 729 ug/L | 1.79 mg/L | NA | 196 mg/L | 601 umhos/cm | 96.8 mg/L | 396 mg/L | 6.1 mg/L | 247 mg/L | 0.437 mg/L | <MQL |
| N0739 | W. Jackson Co Util. | 09/22/15 | 9.15 | <MQL | <MQL | <MQL | 485 ug/L | 0.599 mg/L | NA | 111 mg/L | 442 umhos/cm | 17 mg/L | 239 mg/L | 5.02 mg/L | 186 mg/L | 0.311 mg/L | <MQL |
| N0741 | W. Jackson Co Util. | 09/22/15 | 8.64 | <MQL | <MQL | <MQL | 469 ug/L | 0.351 mg/L | NA | 133 mg/L | 465 umhos/cm | 16.3 mg/L | 229 mg/L | <MQL | 195 mg/L | 0.411 mg/L | <MQL |
| N0743 | Gulf Park Water | 12/08/15 | NA | <MQL | 172 ug/L | <MQL | 270 ug/L | 0.637 mg/L | NA | 159 mg/L | 435 umhos/cm | 13.6 mg/L | 288 mg/L | <MQL | 279 mg/L | 0.471 mg/L | <MQL |
| N0888 | W. Jackson Co Util. | 09/22/15 | 8.81 | <MQL | <MQL | 417 ug/L | 1400 ug/L | 6.58 mg/L | NA | 190 mg/L | 675 umhos/cm | 90 mg/L | 344 mg/L | 11.4 mg/L | 187 mg/L | 0.270 mg/L | <MQL |
| N1043 | W. Jackson Co Util. | 09/22/15 | 8.97 | <MQL | <MQL | 263 ug/L | 1240 ug/L | 4.26 mg/L | NA | 167 mg/L | 618 umhos/cm | 68.6 mg/L | 330 mg/L | 8.06 mg/L | 190 mg/L | 0.369 mg/L | <MQL |
| N1048 | Ocean Springs | 11/03/15 | 8.90 | <MQL | 285 ug/L | <MQL | 133 ug/L | 0.23 mg/L | NA | 119 mg/L | 386 umhos/cm | 4.6 mg/L | 243 mg/L | <MQL | 181 mg/L | 0.428 mg/L | <MQL |

**Manganese - MN** **Iron - Fe** **Magnesium - Mg** **Potassium - K** **Calcium - Ca** **Silicon- Si** **Sodium - Na**

# Jackson Co. Detailed Water Quality Analysis

**Well No.** **Owner Name**

N1050 W. Jackson Co Util.

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09/22/15 | 8.89 | <MQL | <MQL | <MQL | 247 ug/L | .405 mg/L | NA | 115 m/L | 394 umhos/cm | 4.8 mg/L | 197 mg/L | <MQL | 185 mg/L | 0.486 mg/L | <MQL |

**Well No.** **Owner Name**

O0074 McVey

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/08/03 | 8.46 | 54 ug/L | 28.4 ug/L | 1400 ug/L | 5700 ug/L | 11.4 mg/L | NA | 613 mg/L | 2098 umhos/cm | 521 mg/L | 1030 mg/L | 32.1 mg/L | 247 mg/L | 0.482 mg/L | <10 mg/L |
| 04/07/05 | 8.39 | 74.5 ug/L | 13.8 ug/L | 1190 ug/L | 382 ug/L | 8.4 mg/L | 5700 ug/L | 14 mg/L | 2076 umhos/cm | 386 mg/L | 1010 mg/L | 31.1 mg/L | 257 mg/L | 0.501 mg/L | <10 mg/L |
| 01/13/16 | 8.37 | <MQL | <MQL | 1320 ug/L | 2780 ug/L | 12.2 mg/L | NA | 348 mg/L | 2049 umhos/cm | NA | 1130 mg/L | 33 mg/L | 251 mg/L | 0.407 mg/L | <MQL |

**Well No.** **Owner Name**

O0197 Saint Andrews

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 07/31/96 | 9.23 | NA | ND | ND | NA | NA | NA | 152 mg/L | 587 umhos/cm | 40.6 mg/L | NA | NA | NA | NA | NA |
| 05/08/03 | 9.27 | 8 ug/L | 121 ug/L | 80 ug/L | 784 ug/L | 1.0 mg/L | NA | 179 mg/L | 599 umhos/cm | 42.2 mg/L | 288 mg/L | 4 mg/L | 232 mg/L | 0.549 mg/L | <10 mg/L |
| 05/21/04 | 9.17 | 7.61 ug/L | 61 ug/L | 122 ug/L | NA | 1.3 mg/L | NA | 135 mg/L | 605 umhos/cm | 38.6 mg/L | 287 mg/L | 4.6 mg/L | 236 mg/L | 0.551 mg/L | <10 mg/L |
| 04/07/05 | 8.74 | 28.5 ug/L | 577 ug/L | 47.9 ug/L | 753 ug/L | <5 mg/L | 6070 ug/L | 70.2 mg/L | 600 umhos/cm | 41.6 mg/L | 274 mg/L | 5.7 mg/L | 251 mg/L | 0.722 mg/L | <10 mg/L |
| 12/09/15 | 9.28 | <MQL | 150 ug/l | <MQL | 382 ug/L | 1.13 mg/L | NA | 154 mg/L | 632 umhos/cm | 40.8 mg/L | 303 mg/L | 8.0 mg/L | 232 mg/L | 0.337 mg/L | <MQL |

**Well No.** **Owner Name**

O0208 Gautier

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 07/23/15 | 8.84 | <MQL | 120 ug/L | 260 ug/L | 1200 ug/L | 2.4 mg/L | NA | 233 mg/L | 1100 umhos/cm | 189 mg/L | 591 mg/L | 7.05 mg/L | 276 mg/L | 0.660 mg/L | <MQL |

**Well No.** **Owner Name**

O0213 Saint Andrews

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 07/31/96 | 9.08 | NA | 38 ug/L | ND | NA | NA | NA | 157 mg/L | 486 umhos/cm | 27.1 mg/L | NA | NA | NA | NA | NA |
| 05/08/03 | 9.22 | 2 ug/L | 6.5 ug/L | 64 ug/L | 676 ug/L | <1 mg/L | NA | 180 mg/L | 597 umhos/cm | 30.9 mg/L | 286 mg/L | <3 mg/L | 255 mg/L | 0.839 mg/L | <10 mg/L |
| 05/21/04 | 9.04 | 157 ug/L | 157 ug/L | 87.5 ug/L | NA | <1 mg/L | NA | 138 mg/L | 604 umhos/cm | 30.1 mg/L | 280 mg/L | <3 mg/L | 245 mg/L | 0.729 mg/L | <10 mg/L |
| 04/07/05 | 9.18 | ND | 13.9 ug/L | 49.6 ug/L | 726 ug/L | <5 mg/L | 6510 ug/L | 81.7 mg/L | 602 umhos/cm | 29.9 mg/L | 274 mg/L | 3.8 mg/L | 261 mg/L | 0.736 mg/L | <10 mg/L |
| 12/09/15 | 9.38 | <MQL | <MQL | <MQL | 322 ug/L | 0.486 mg/L | NA | 156 mg/L | 629 umhos/cm | 29.4 mg/L | 309 mg/L | <MQL | 254 mg/L | 0.367 mg/L | <MQL |

**Manganese - MN** **Iron - Fe** **Magnesium - Mg** **Potassium - K** **Calcium - Ca** **Silicon- Si** **Sodium - Na**

# Jackson Co. Detailed Water Quality Analysis

| Well No. | Owner Name | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O0273 | Richardson | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 05/07/03 | 8.91 | ND | 25 ug/L | 135 ug/L | 1310 ug/L | 1.6 mg/L | NA | 150 mg/L | 503 umhos/cm | 35.3 mg/L | 243 mg/L | 5.6 mg/L | 200 mg/L | 0.715 mg/L | <10 mg/L |
| | 04/14/04 | 8.82 | 18 ug/L | 14 ug/L | 116 ug/L | 846 ug/L | <5 mg/L | 11700 ug/L | 104 mg/L | 503 umhos/cm | 35.6 mg/L | 240 mg/L | 3.7 mg/L | 195 mg/L | 0.9 mg/L | NA |
| | 03/10/05 | 8.93 | 3.13 ug/L | 75.7 ug/L | 141 ug/L | 1290 ug/L | <5 mg/L | 11900 ug/L | 127 mg/L | 511 umhos/cm | 35.5 mg/L | 231 mg/L | 5.4 mg/L | 196 mg/L | 0.659 mg/L | <10 mg/L |

| Well No. | Owner Name | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O283 | Miss, Gulf Coast C. C. | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 04/14/16 | 8.78 | <MQL | <MQL | 187 ug/L | 1080 ug/L | 1.68 mg/L | NA | 226 mg/L | 1075 umhos/cm | 186 mg/L | 480 mg/L | 5.8 mg/L | 279 mg/L | 0.568 mg/L | <MQL |

| Well No. | Owner Name | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O0286 | Gautier | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 03/14/05 | 9.00 | 19.2 ug/L | 6.86 ug/L | 111 ug/L | 1130 ug/L | <5 mg/L | 9350 ug/L | 172 mg/L | 832 umhos/cm | 99 mg/L | 400 mg/L | 3.8 mg/L | 278 mg/L | 0.691 mg/L | <10 mg/L |
| | 07/23/15 | 8.89 | <MQL | 142 ug/L | 105 ug/L | 545 ug/L | 1.06 mg/L | NA | 182 mg/L | 670 umhos/cm | 65.1 mg/L | 342 mg/L | <MQL | 279 mg/L | 0.605 mg/L | <MQL |

| Well No. | Owner Name | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O0295 | Gautier | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 07/23/15 | 9.12 | <MQL | <MQL | <MQL | 428 ug/L | 0.740 mg/L | NA | 159 mg/L | 735 umhos/cm | 30.3 mg/L | 364 mg/L | <MQL | 310 mg/L | 0.837 mg/L | <MQL |

| Well No. | Owner Name | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O0307 | Gautier | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 03/10/05 | 9.11 | 4.33 ug/L | 47.4 ug/L | 68.9 ug/L | 979 ug/L | <5 mg/L | 8970 ug/L | 161 mg/L | 664 umhos/cm | 53.4 mg/L | 316 mg/L | 5.4 mg/L | 261 mg/L | 0.877 mg/L | <10 mg/L |
| | 07/23/15 | 9.12 | <MQL | <MQL | <MQL | 445 ug/L | 0.831 mg/L | NA | 159 mg/L | 735 umhos/cm | 54.4 mg/L | 386 mg/L | <MQL | 287mg/L | 0.665 mg/L | <MQL |

| Well No. | Owner Name | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O0310 | Ocean Springs | (Was Gautier) | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 05/12/05 | 8.37 | 8.8 ug/L | 285 ug/L | 83.1 ug/L | 554 ug/L | <5 mg/L | 6030 ug/L | 96.8 mg/L | 467 umhos/cm | 25.3 mg/L | 215 mg/L | 5.3 mg/L | 195 mg/L | 01.06 mg/L | <10 mg/L |
| | 11/04/15 | 8.07 | <MQL | 240 ug/L | <MQL | 1230 ug/L | 0.731 mg/L | NA | 161 mg/L | 564 umhos/cm | 63.6 mg/L | 319 mg/L | 5.1 mg/L | 183 mg/L | 0.363 mg/L | <MQL |

**Manganese - MN** **Iron - Fe** **Magnesium - Mg** **Potassium - K** **Calcium - Ca** **Silicon- Si** **Sodium - Na**

# Jackson Co. Detailed Water Quality Analysis

**Well No.** **Owner Name**
O0313 Gautier

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/08/03 | 9.07 | 2 ug/L | 12.3 ug/L | 56.3 ug/L | 932 ug/L | <1 mg/L | NA | 194 mg/L | 630 umhos/cm | 35.6 mg/L | 307 mg/L | 3 mg/L | 268 mg/L | 0.724 mg/L | <10 mg/L |
| 04/14/04 | 9.00 | 7.6 ug/L | 2.7 ug/L | 54 ug/L | 582 ug/L | <5 mg/L | NA | 140 mg/L | 647 umhos/cm | 39.8 mg/L | 307 mg/L | <3 mg/L | 268 mg/L | 0.86 mg/L | NA |
| 03/10/05 | 9.00 | ND | 33.7 ug/L | 29 ug/L | 892 ug/L | <5 mg/L | 9540 ug/L | 171 mg/L | 647 umhos/cm | 39.6 mg/L | 295 mg/L | <3 mg/L | 251 mg/L | 0.826 mg/L | <10 mg/L |
| 07/23/15 | 9.08 | <MQL | <MQL | <MQL | 431 ug/L | 0.755 mg/L | NA | 153 mg/L | 649 umhos/cm | 37.1 mg/L | 317 mg/L | <MQL | 284 mg/L | 0.660 mg/L | <MQL |

**Well No.** **Owner Name**
O0314 Gautier

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 03/10/05 | 8.80 | 1.77 ug/L | 5.43 ug/L | 234 ug/L | 2480 ug/L | <5 mg/L | 2600 ug/L | 285 mg/L | 861 umhos/cm | 102 mg/L | 416 mg/L | 7.6 mg/L | 211 mg/L | 0.656 mg/L | <10 mg/L |
| 07/23/15 | 8.81 | <MQL | <MQL | 237 ug/L | 1210 ug/L | 2.85 g/L | NA | 212 mg/L | 929 umhos/cm | 141 mg/L | 498 mg/L | <MQL | 250 mg/L | 0.833 mg/L | <MQL |

**Well No.** **Owner Name**
O0319 Gautier

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 03/10/05 | 8.80 | 27.3 ug/L | 11.3 ug/L | 295 ug/L | 2230 ug/L | <5 mg/L | 8710 ug/L | 216 mg/L | 860 umhos/cm | 109 mg/L | 413 mg/L | 7.3 mg/L | 216 mg/L | 0.594 mg/L | <10 mg/L |

**Well No.** **Owner Name**
O392 National Park Serv. - Horn Is.

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09/02/15 | 9.13 | <MQL | <MQL | <MQL | 761 ug/L | 0.991 mg/L | NA | 164 mg/L | 686 umhos/cm | 82.1 mg/L | 334 mg/L | <MQL | 229 mg/L | 0.505 mg/L | <MQL |

**Well No.** **Owner Name**
O0422 Gautier

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04/19/07 | 9.01 | <MQL | <MQL | 158 ug/L | NA | <MQL | 1020 ug/L | 120 mg/L | 825 umhos/cm | 109 mg/L | 399 mg/L | 5.6 mg/L | 227 mg/L | 0.626 mg/L | <MQL |
| 07/23/15 | 8.88 | <MQL | <MQL | 167 ug/L | 1210 ug/L | 1.94 mg/L | NA | 182 mg/L | 790 umhos/cm | 96.4 mg/L | 438 mg/L | 6.18 mg/L | 256 mg/L | 0.540 mg/L | <MQL |

**Well No.** **Owner Name**
O0605 Ocean Beach Wtr.

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/08/15 | 8.00 | <MQL | <MQL | <MQL | 313 ug/L | .631 mg/L | NA | 169 mg/L | 475 umhos/cm | 29.4 mg/L | 313 mg/L | <MQL | 286 mg/L | 0.480 mg/L | <MQL |

**Manganese - MN** **Iron - Fe** **Magnesium - Mg** **Potassium - K** **Calcium - Ca** **Silicon- Si** **Sodium - Na**

# Jackson Co. Detailed Water Quality Analysis

**Well No.** **Owner Name**
O0613 Ocean Beach Wtr.

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/08/15 | 8.00 | <MQL | <MQL | <MQL | 327 ug/L | 0.541 mg/L | NA | 156 mg/L | 438 umhos/cm | 23.4 mg/L | 287 mg/L | <MQL | 281 mg/L | 0.454 mg/L | <MQL |

**Well No.** **Owner Name**
P0069 Pascagoula

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/08/03 | 8.16 | 4.5 ug/L | 34 ug/L | 184 ug/L | 2900 ug/L | 2.3 mg/L | NA | 286 mg/L | 1020 umhos/cm | 166 mg/L | 490 mg/L | 11.4 mg/L | 247 mg/L | 01.04 mg/L | <10 mg/L |
| 03/14/05 | 8.06 | 95.5 ug/L | 428 ug/L | 1360 ug/L | 3790 ug/L | <5 mg/L | 22100 ug/L | 230 mg/L | 980 umhos/cm | 144 mg/L | 471 mg/L | 12 mg/L | 237 mg/L | 1.07 mg/L | <10 mg/L |
| 01/12/16 | 8.01 | <MQL | 102 ug/L | 1340 ug/L | 2820 ug/L | 2.13 mg/L | NA | 186 mg/L | 1013 umhos/cm | 192 mg/L | 565 mg/l | 11.5 mg/L | 251 mg/L | 0.795 mg/L | <MQL |

**Well No.** **Owner Name**
P0124 Pascagoula

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/08/03 | 8.70 | 15 ug/L | 12.1 ug/L | 456 ug/L | 4900 ug/L | 5.1 mg/L | NA | 547 mg/L | 1714 umhos/cm | 375 mg/L | 826 mg/L | 12.6 mg/L | 289 mg/L | 1.15 mg/L | <10 mg/L |
| 03/04/05 | 8.66 | 27.4 ug/L | 39 ug/L | 380 ug/L | 3470 ug/L | <5 mg/L | 14200 ug/L | 338 mg/L | 1640 umhos/cm | 292 mg/L | 803 mg/L | 11.2 mg/L | 287 mg/L | 1.06 mg/L | <10 mg/L |

**Well No.** **Owner Name**
P0134 Pascagoula

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/07/03 | 8.95 | 19 ug/L | 36 ug/L | 314 ug/L | 3120 ug/L | 1.8 mg/L | NA | 388 mg/L | 966 umhos/cm | 119 mg/L | 463 mg/L | 5 mg/L | 304 mg/L | 1.13 mg/L | <10 mg/L |
| 03/09/05 | 8.87 | 6.53 ug/L | 105 ug/L | 193 ug/L | 3360 ug/L | <5 mg/L | 17900 ug/L | 180 mg/L | 916 umhos/cm | 90.5 mg/L | 443 mg/L | 5.3 mg/L | 289 mg/L | 1.15 mg/L | <10 mg/L |

**Well No.** **Owner Name**
P0145 Ingalls

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/16/05 | 8.53 | 34.8 ug/L | 23.1 ug/L | 723 ug/L | 5580 ug/L | <5 mg/L | 12000 ug/L | 426 mg/L | 2180 umhos/cm | 512 mg/L | 1080 mg/l | 15.4 mg/L | 252 mg/L | 1.02 mg/L | <10 mg/L |

**Well No.** **Owner Name**
P0150 Pascagoula

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 07/31/96 | 8.54 | NA | ND | 386 ug/L | NA | NA | NA | 374 mg/L | 1648 umhos/cm | 364 mg/L | NA | NA | NA | NA | NA |
| 05/07/03 | 8.68 | 17 ug/L | 19.4 ug/L | 297 ug/L | 2720 ug/L | 4.2 mg/L | NA | 399 mg/L | 1832 umhos/cm | 424 mg/L | 900 mg/L | 12.9 mg/L | 275 mg/L | 0.942 mg/L | <10 mg/L |
| 04/15/04 | 8.61 | 48 ug/L | 12 ug/L | 449 ug/L | 2380 ug/L | NA | 12000 ug/L | 34.9 mg/L | 1828 umhos/cm | 434 mg/L | 915 mg/L | 12.9 mg/L | 262 mg/L | 1.09 mg/L | NA |
| 03/09/05 | 8.68 | 26.1 ug/L | 19.9 ug/L | 439 ug/L | 351 ug/L | 5.1 mg/L | 7100 ug/L | 372 mg/L | 1775 umhos/cm | 331 mg/L | 846 mg/L | 12.1 mg/L | 264 mg/L | 0.957 mg/L | <10 mg/L |
| 01/12/16 | 8.58 | <MQL | <MQL | 701 ug/L | 2580 ug/L | 7.33 mg/L | NA | 355 mg/L | 1950 umhos/cm | NA | 1120 mg/l | 19.4 mg/L | 286 mg/L | 0.7 mg/L | <MQL |

**Manganese - MN** **Iron - Fe** **Magnesium - Mg** **Potassium - K** **Calcium - Ca** **Silicon- Si** **Sodium - Na**

# Jackson Co. Detailed Water Quality Analysis

**Well No.** **Owner Name**

P0226 Escatawpa-Moss Pt.

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 03/11/05 | 9.02 | NA | 3.35 ug/L | 266 ug/L | 1280 ug/L | <5 mg/L | 5760 ug/L | 108 mg/L | 712 umhos/cm | 73.3 mg/L | 342 mg/L | 5.5 mg/L | 255 mg/L | 0.772 mg/L | <10 mg/L |

**Well No.** **Owner Name**

P0229 Moss Point

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/09/03 | 8.76 | 19 ug/L | 30.4 ug/L | 310 ug/L | 3200 ug/L | 2.5 mg/L | NA | 392 mg/L | 1296 umhos/cm | 234 mg/L | 633 mg/L | 9.3 mg/L | 290 mg/L | 1.01 mg/L | <10 mg/L |
| 03/11/05 | 8.75 | 31 ug/L | 36.6 ug/L | 302 ug/L | 4360 ug/L | <5 mg/L | 9790 ug/L | 319 mg/L | 1256 umhos/cm | 199 mg/L | 593 mg/L | 10.9 mg/L | 277 mg/L | 0.988 mg/L | <10 mg/L |

**Well No.** **Owner Name**

P0348 Ingalls

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/12/05 | 8.76 | 18.4 ug/L | 77.4 ug/L | 305 ug/L | 3150 ug/L | <5 mg/L | 13100 ug/L | 211 mg/L | 1150 umhos/cm | 176 mg/L | 553 mg/L | 9.1 mg/L | 296 mg/L | 1.33 mg/L | <10 mg/L |

**Well No.** **Owner Name**

P0349 Ingalls

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/12/05 | 8.16 | 227 ug/L | NA | 1100 ug/L | 3350 ug/L | 5.0 mg/L | 13400 ug/L | 169 mg/L | 717 umhos/cm | 92.8 mg/L | 344 mg/L | 19.5 mg/L | 218 mg/L | 1.13 mg/L | <10 mg/L |
| 11/04/15 | 8.21 | <MQL | 174 ug/L | 2190 ug/L | 3040 ug/L | 5.31 mg/L | NA | 209 mg/L | 761 umhos/cm | 107 mg/L | 479 mg/L | 20.6 mg/L | 230 mg/L | 0.604 mg/L | <MQL |

**Well No.** **Owner Name**

P0355 Moss Point

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/09/03 | 8.81 | 17 ug/L | 20 ug/L | 292 ug/L | 2700 ug/L | 2.4 mg/L | NA | 395 mg/L | 1310 umhos/cm | 224 mg/L | 625 mg/L | 7.6 mg/L | 304 mg/L | 1.07 mg/L | <10 mg/L |
| 03/11/05 | 8.80 | 11.9 ug/L | 12.8 ug/L | 286 ug/L | 3000 ug/L | <5 mg/L | 9710 ug/L | 255 mg/L | 1260 umhos/cm | 177 mg/L | 614 mg/L | 8.9 mg/L | 289 mg/L | 1.03 mg/L | <10 mg/L |

**Well No.** **Owner Name**

P0372 Pascagoula

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 07/31/96 | 8.04 | NA | 34 ug/L | 1750 ug/L | NA | NA | NA | 252 mg/L | 1021 umhos/cm | 184 mg/L | NA | NA | NA | NA | NA |
| 05/07/03 | 8.21 | 36.2 ug/L | 129 ug/L | 1900 ug/L | 4840 ug/L | 3.8 mg/L | NA | 302 mg/L | 1059 umhos/cm | 175 mg/L | 511 mg/L | 16.7 mg/L | 242 mg/L | 0.923 mg/L | <10 mg/L |
| 04/15/04 | 8.11 | 78 ug/L | 97 ug/L | 1833 ug/L | 2630 ug/L | <5 mg/L | 19400 ug/L | 193 mg/L | 1054 umhos/cm | 182 mg/L | 509 mg/L | 16.6 mg/L | 231 mg/L | 0.96 mg/L | NA |
| 03/09/05 | 8.15 | 39.7 ug/L | 53.2 ug/L | 1800 ug/L | 3840 ug/L | <5 mg/L | 19400 ug/L | 236 mg/L | 1050 umhos/cm | 142 mg/L | 491 mg/L | 15.8 mg/L | 238 mg/L | 0.942 mg/L | <10 mg/L |

**Manganese - MN** **Iron - Fe** **Magnesium - Mg** **Potassium - K** **Calcium - Ca** **Silicon- Si** **Sodium - Na**

# Jackson Co. Detailed Water Quality Analysis

| Well No. | Owner Name | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P0373 | Ingalls | 05/12/05 | 8.64 | 4.66 ug/L | 9.48 ug/L | 490 ug/L | 1620 ug/L | <5 mg/L | 1100 ug/L | 114 mg/L | 742 umhos/cm | 96.7 mg/L | 357 mg/L | 8.6 mg/L | 230 mg/L | 1.01 mg/L | <10 mg/L |
| | | 11/04/15 | 8.43 | <MQL | <MQL | 358 ug/L | 824 ug/L | 2.03 mg/L | NA | 222 mg/L | 786 umhos/cm | 111 mg/L | 510 mg/L | 7.6 mg/L | 225 mg/L | 0.517 mg/L | <MQL |
| P0376 | Escatawpa | 03/11/05 | 9.04 | NA | 43.7 ug/L | 125 ug/L | 920 ug/L | <5 mg/L | 5840 ug/L | 153 mg/L | 766 umhos/cm | 61.9 mg/L | 369 mg/L | 5.4 mg/L | 311 mg/L | 0.916 mg/L | <10 mg/L |
| P0382 | Moss Point | 05/09/03 | 8.92 | 9.11 ug/L | 7.13 ug/L | 235 ug/L | 1910 ug/L | 1.8 mg/L | NA | 282 mg/L | 971 umhos/cm | 135 mg/L | 464 mg/L | 5.6 mg/L | 258 mg/L | 0.706 mg/L | <10 mg/L |
| | | 03/11/05 | 8.89 | 4.27 ug/L | 11.9 ug/L | 228 ug/L | 2280 ug/L | <5 mg/L | 8820 ug/L | 169 mg/L | 931 umhos/cm | 123 mg/L | 450 mg/L | 6.1 mg/L | 251 mg/L | 0.751 mg/L | <10 mg/L |
| | | 05/28/09 | 8.89 | <MQL | <MQL | 212 ug/L | 1290 ug/L | NA | 8470 ug/L | 101 mg/L | 973 umhos/cm | 136 mg/L | 460 mg/L | 6.4 mg/L | 252 mg/L | 0.951 mg/L | <MQL |
| P0409 | Ingalls | 05/12/05 | 8.28 | 268 ug/L | 575 ug/L | 1110 ug/L | 4620 ug/L | 5.3 mg/L | 12800 ug/L | 121 mg/L | 710 umhos/cm | 91.5 mg/L | 343 mg/L | 21.5 mg/L | 221 mg/L | 1.22 mg/L | <10 mg/L |
| | | 11/04/15 | 8.24 | <MQL | 292 ug/L | 1950 ug/L | 2800 ug/L | 4.89 mg/L | NA | 200 mg/L | 753 umhos/cm | 106 mg/L | 497 mg/L | 19.8 mg/L | 228 mg/L | 0.600 mg/L | <MQL |
| P0429 | Home Port | 05/08/03 | 8.61 | 92 ug/L | 192 ug/L | 2700 ug/L | 4770 ug/L | 7.9 mg/L | NA | 43 mg/L | 860 umhos/cm | 114 mg/L | 386 mg/L | 34.1 mg/L | 222 mg/L | 0.774 mg/L | <10 mg/L |
| | | 04/14/04 | 8.51 | 89 ug/L | 153 ug/L | 1600 ug/L | 2110 ug/L | 5.5 mg/L | NA | 156 mg/L | 804 umhos/cm | 216 mg/L | 526 mg/L | 21.1 mg/L | 208 mg/L | 0.82 mg/L | NA |
| | | 03/10/05 | 8.62 | 126 ug/L | 175 ug/L | 1140 ug/L | 3620 ug/L | <5 mg/L | 12000ug/L | 155 mg/L | 800 umhos/cm | 93.5 mg/L | 369 mg/L | 15.5 mg/L | 220 mg/L | 0.843 mg/L | <10 mg/L |
| | | 08/12/15 | 7.92 | <MQL | 224 ug/L | 804 ug/L | 1690 ug/L | 10.3 mg/L | NA | 172 mg/L | 800 umhos/cm | 128 mg/L | 430 mg/L | 23.4 mg/L | 192 mg/L | 0.495 mg/L | <MQL |

**Manganese - MN** **Iron - Fe** **Magnesium - Mg** **Potassium - K** **Calcium - Ca** **Silicon- Si** **Sodium - Na**

# Jackson Co. Detailed Water Quality Analysis

| Well No. | Owner Name | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P0430 | Home Port | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 5/8/2003 | 8.72 | 39 ug/L | 78 ug/L | 1100 ug/L | 3100 ug/L | 4.9 mg/L | NA | 214 mg/L | 754 umhos/cm | 114 mg/L | 370 mg/L | 17 mg/L | 216 mg/L | 0.721 mg/L | <10 mg/L |
| | 04/14/04 | 8.56 | 65 ug/L | 27 ug/L | 904 ug/L | 1490 ug/L | <5 mg/L | 12500 ug/L | 155 mg/L | 782 umhos/cm | 102 mg/L | 372 mg/L | 14.8 mg/L | 211 mg/L | 0.9 mg/L | <10 mg/L |
| | 03/10/05 | 8.63 | 104 ug/L | 87.6 ug/L | 938 ug/L | 3220 ug/L | <5 mg/L | 12100 ug/L | 225 mg/L | 781 umhos/cm | 86 mg/L | 357 mg/L | 14.7 mg/L | 210 mg/L | 0.725 mg/L | <10 mg/L |
| | 08/12/15 | 8.57 | <MQL | <MQL | 830 ug/L | 1570 ug/L | 5.14 mg/L | NA | 176 mg/L | 766 umhos/cm | 111 mg/L | 396 mg/L | 12.4 mg/L | 220 mg/L | 0.495 mg/L | <MQL |
| **Well No.** | **Owner Name** | | | | | | | | | | | | | | |
| P0455 | Moss Point | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 05/09/03 | 8.91 | 14.1 ug/L | 19.2 ug/L | 238 ug/L | 1920 ug/L | 2.3 mg/L | NA | 298 mg/L | 1010 umhos/cm | 138 mg/L | 482 mg/L | 6.9 mg/L | 276 mg/L | 0.812 mg/L | <10 mg/L |
| | 03/11/05 | 8.87 | 24.4 ug/L | 32.2 ug/L | 237 ug/L | 2240 ug/L | <5 mg/L | 10.4 mg/L | 187 mg/L | 975 umhos/cm | 119 mg/L | 470 mg/L | 7.1 mg/L | 288 mg/L | 0.833 mg/L | <10 mg/L |
| **Well No.** | **Owner Name** | | | | | | | | | | | | | | |
| P0458 | Pascagoula | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 05/08/03 | 8.10 | NA | NA | 1600 ug/L | 164 ug/L | 1.5 mg/L | NA | 292 mg/L | 974 umhos/cm | 153 mg/L | 469 mg/L | 13 mg/L | 249 mg/L | 0.721 mg/L | <10 mg/L |
| | 03/09/05 | 8.02 | 30.9 ug/L | 37 ug/L | 1530 ug/L | 4430 ug/L | <5 mg/L | 22700 ug/L | 249 mg/L | 915 umhos/cm | 121 mg/L | 442 mg/L | 15.2 mg/L | 240 mg/L | 0.988 mg/L | <10 mg/L |
| | 09/01/15 | 8.02 | <MQL | <MQL | 1900 ug/L | 4120 ug/L | 3.23 mg/L | NA | 224 mg/L | 985 umhos/cm | 159 mg/L | 445 mg/L | 17 mg/L | 245 mg/L | 0.663 mg/L | <MQL |
| **Well No.** | **Owner Name** | | | | | | | | | | | | | | |
| P0488 | Moss Point | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 05/28/09 | 8.50 | 16.8 ug/L | <MQL | 287 ug/L | 1390 ug/L | NA | 8000 ug/L | 156 mg/L | 1378 umhos/cm | 254 mg/L | 688 mg/L | 7.8 mg/L | 311 mg/L | 1.69 mg/L | <MQL |
| | 08/12/15 | 8.83 | <MQL | <MQL | 258 ug/L | 1420 ug/L | 2.8 mg/L | NA | 311 mg/L | NA | NA | NA | NA | NA | 0 .780 mg/L | NA |
| | 01/12/16 | 8.60 | <MQL | <MQL | 226 ug/L | 1240 ug/L | 2.12 mg/L | NA | 228 mg/L | 1241 umhos/cm | 227 mg/L | 705 mg/L | 6.9 mg/L | 292 mg/L | 0 .898 mg/L | <MQL |
| **Well No.** | **Owner Name** | | | | | | | | | | | | | | |
| P495 | Pascagoula | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 01/12/16 | 8.33 | <MQL | <MQL | 1160 ug/L | 1770 ug/L | 3.34 mg/L | NA | 223 mg/L | 1036 umhos/cm | NA | 610 mg/L | 10.9 mg/L | 249 mg/L | 0.673 mg/L | <MQL |
| **Well No.** | **Owner Name** | | | | | | | | | | | | | | |
| Q19 | Zapata | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 01/12/16 | 8.54 | <MQL | 127 ug/L | 544 ug/L | 1610 ug/L | 2.41 mg/L | NA | 403 mg/L | 2159 umhos/cm | NA | 1140 mg/l | 7.9 mg/L | 408 mg/L | 1.65 mg/L | <MQL |

**Manganese - MN** **Iron - Fe** **Magnesium - Mg** **Potassium - K** **Calcium - Ca** **Silicon- Si** **Sodium - Na**

# Jackson Co. Detailed Water Quality Analysis

| Well No. | Owner Name | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q34 | Orange Grove School | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 01/12/16 | 8.57 | <MQL | 146 ug/L | 387 ug/L | 1800 ug/L | 2..01 mg/L | NA | 345 mg/L | 1767 umhos/cm | NA | 953 mg/L | 7.7 mg/L | 611 mg/L | 1.00 mg/L | <MQL |
| **Well No.** | **Owner Name** | | | | | | | | | | | | | | |
| Q0110 | MS Phosphate | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 09/23/15 | 8.40 | <MQL | <MQL | 1600 ug/L | 3010 ug/L | 4.47 mg/L | NA | 259 mg/L | 1045 umhos/cm | 183 mg/L | 490 mg/L | 14.4 mg/L | 275 mg/L | 0.782 mg/L | <MQL |
| **Well No.** | **Owner Name** | | | | | | | | | | | | | | |
| Q0137 | Chevron | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 05/08/03 | 8.41 | 19 ug/L | 202 ug/L | 2100 ug/L | 6000 ug/L | 3.8 mg/L | NA | 312 mg/L | 1001 umhos/cm | 140 mg/L | 510 mg/L | 18 mg/L | 269 mg/L | 1.32 mg/L | <10 mg/L |
| | 03/11/05 | 8.15 | NA | NA | NA | NA | NA | NA | NA | 1020 umhos/cm | 137 mg/L | 488 mg/L | NA | 286 mg/L | 1.33 mg/L | <10 mg/L |
| | 01/12/16 | 8.18 | <MQL | 130 ug/L | 2540 ug/L | 3480 ug/L | 4.35 mg/L | NA | 211 mg/L | 1094 umhos/cm | NA | 479 mg/L | 21.5 mg/L | 310 mg/L | 1.04 mg/L | <MQL |
| **Well No.** | **Owner Name** | | | | | | | | | | | | | | |
| Q0180 | Pascagoula | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 07/31/96 | 8.59 | NA | 24 ug/L | 151 ug/L | NA | NA | NA | 339 mg/L | 1379 umhos/cm | 279 mg/L | NA | NA | NA | NA | NA |
| | 04/15/04 | 8.69 | 49 ug/L | 143 ug/L | 277 ug/L | 1140 ug/L | <5 mg/L | 10700 ug/L | 264 mg/L | 1423 umhos/cm | 282 mg/L | 513 mg/L | 7.6 mg/L | 275 mg/L | 1.08 mg/L | NA |
| | 03/09/05 | 8.77 | 7.86 ug/L | 28.7 ug/L | 271 ug/L | 3030 ug/L | <5 mg/L | 9660 ug/L | 295 mg/L | 1455 umhos/cm | 211 mg/L | 687 mg/L | 7.6 mg/L | 277 mg/L | 1.01 mg/L | <10 mg/L |
| | 09/01/15 | 8.65 | <MQL | <MQL | 335 ug/L | 1470 ug/L | 2.78 mg/L | NA | 360 mg/L | 1466 umhos/cm | 136 mg/L | 347 mg/L | 6.5 mg/L | 142 mg/L | 0.372 mg/L | <MQL |
| **Well No.** | **Owner Name** | | | | | | | | | | | | | | |
| Q0181 | Pascagoula | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 05/07/03 | 8.69 | 18 ug/L | 19.3 ug/L | 336 ug/L | 3120 ug/L | 2.8 mg/L | NA | 506 mg/L | 1700 umhos/cm | 377 mg/L | 827 mg/L | 8.8 mg/L | 288 mg/L | 0.856 mg/L | <10 mg/L |
| **Well No.** | **Owner Name** | | | | | | | | | | | | | | |
| Q0293 | Pascagoula | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 05/08/03 | 8.23 | 16.2 ug/L | 424 ug/L | 1100 ug/L | 3600 ug/L | 1.6 mg/L | NA | 218 mg/L | 743 umhos/cm | 90.3 mg/L | 353 mg/L | 9.1 mg/L | 237 mg/L | 1.47 mg/L | <10 mg/L |
| | 03/09/05 | 8.17 | 11.7 ug/L | 40.4 ug/L | 973 ug/L | 4060 ug/L | <5 mg/L | 12500 ug/L | 170 mg/L | 700 umhos/cm | 85.1 mg/L | 336 mg/L | 8.5 mg/L | 237 mg/L | 1.51 mg/L | <10 mg/L |
| | 09/01/15 | 8.23 | <MQL | <MQL | 968 ug/L | 2080 ug/L | 1.74 mg/L | NA | 173 mg/L | 708 umhos/cm | 84.2 mg/L | 336 mg/L | 6.9 mg/L | 234 mg/L | 1.1 mg/L | <MQL |

**Manganese - MN** **Iron - Fe** **Magnesium - Mg** **Potassium - K** **Calcium - Ca** **Silicon- Si** **Sodium - Na**

# Jackson Co. Detailed Water Quality Analysis

**Well No.** **Owner Name**
Q0379 Jackson Co. Port Authority - East Bank

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 08/12/15 | 8.57 | <MQL | <MQL | 1320 ug/L | 2540 ug/L | 4.81 mg/L | NA | 237 mg/L | 1072 umhos/cm | 171 mg/L | 518 mg/L | 12.9 mg/L | 267 mg/L | 0.749 mg/L | <MQL |

**Well No.** **Owner Name**
Q0417 Moss Point

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/09/03 | 8.23 | 13 ug/L | 10.3 ug/L | 279 ug/L | 2620 ug/L | 2.4 mg/L | NA | 327 mg/L | 1250 umhos/cm | 209 mg/L | 604 mg/L | 8.4 mg/L | 285 mg/L | 0.849 mg/L | <10 mg/L |

**Well No.** **Owner Name**
Q0420 Pascagoula

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/07/03 | 8.16 | 21.4 ug/L | 742 ug/L | 1400 ug/L | 4310 ug/L | 2.1 mg/L | NA | 262 mg/L | 898 umhos/cm | 100 mg/L | 430 mg/L | 13 mg/L | 277 mg/L | 1.1 mg/L | <10 mg/L |
| 03/09/05 | 8.15 | 12.5 ug/L | 46.8 ug/L | 1200 ug/L | 4870 ug/L | <5 mg/L | 13200 ug/L | 199 mg/L | 850 umhos/cm | 91.5 mg/L | 409 mg/L | 9.7 mg/L | 272 mg/L | 1.31 mg/L | <10 mg/L |
| 09/01/15 | 8.03 | <MQL | 115 ug/L | 1450 ug/L | 2720 ug/L | 2.4 mg/L | NA | 219 mg/L | 858 umhos/cm | 115 mg/L | 383 mg/L | 8.8 mg/L | 272 mg/L | 0.877 mg/L | <MQL |

**Well No.** **Owner Name**
Q0429 MDOT

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01/27/16 | 8.80 | <MQL | 40.6 ug/L | 383 ug/L | 1370 ug/L | 2.02 mg/L | NA | 403 mg/L | 1532 umhos/cm | 259 mg/L | 847 mg/L | 5.4 mg/L | 433 mg/L | 1.72 mg/L | <MQL |

**Well No.** **Owner Name**
Q0430 MDOT

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01/27/16 | 8.94 | <MQL | 212 ug/L | 356 ug/L | 1290 ug/L | 2.2 mg/L | NA | 404 mg/L | 1414 umhos/cm | NA | 785 mg/L | 5.5 mg/L | 389 mg/L | 1.09 mg/L | <MQL |

**Well No.** **Owner Name**
Q0456 John Hudson

| Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/07/03 | 8.65 | 27.4 ug/L | 11 ug/L | 831 ug/L | 3830 ug/L | 5.6 mg/L | NA | 670 mg/L | 1997 umhos/cm | 354 mg/L | 1010 mg/L | 18 mg/L | 491 mg/L | 1.63 mg/L | <10 mg/L |
| 04/14/04 | 8.56 | 46 ug/L | ND | 816 ug/L | 1690 ug/L | 11.1 mg/L | 10000 ug/L | 396 mg/L | 2001 umhos/cm | 368 mg/L | 1030 mg/L | 17.9 mg/L | 485 mg/L | 2.05 mg/L | NA |
| 03/10/05 | 8.66 | 43.4 ug/L | 5.4 ug/L | 397 ug/L | 2740 ug/L | 6 mg/L | 9030 ug/L | 393 mg/L | 2017 umhos/cm | 306 mg/L | 988 mg/L | 15.3 mg/L | 457 mg/L | 1.86 mg/L | <10 mg/L |
| 01/12/16 | 8.54 | <MQL | <MQL | 856 ug/L | 1780 ug/L | 6.52 mg/L | NA | 384 mg/L | 2001 umhos/cm | 380 mg/L | 1040 mg/L | 18.4 mg/L | 287 mg/L | 0.692 mg/L | <MQL |

**Manganese - MN** **Iron - Fe** **Magnesium - Mg** **Potassium - K** **Calcium - Ca** **Silicon- Si** **Sodium - Na**

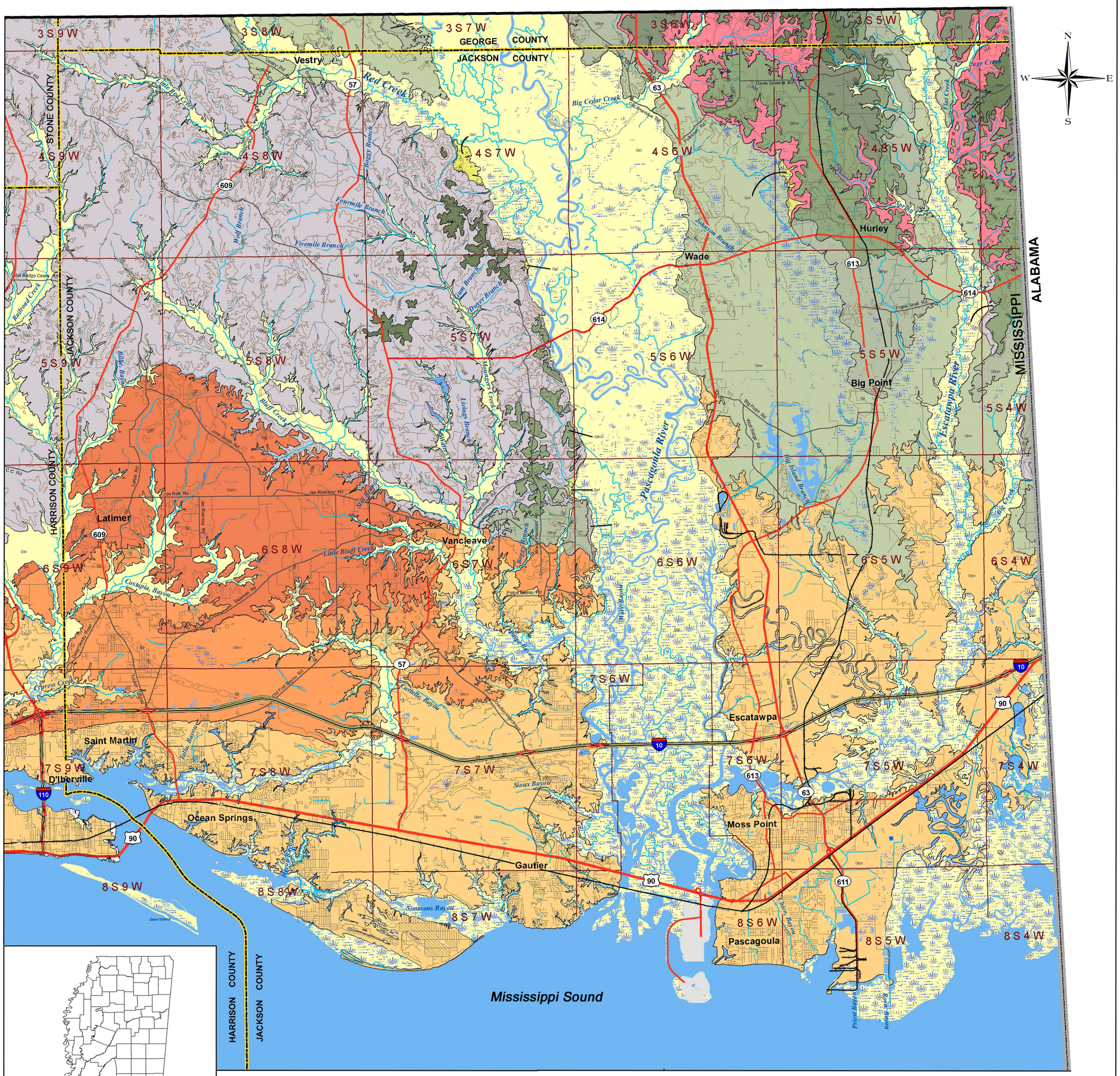
# Jackson Co. Detailed Water Quality Analysis

| Well No. | Owner Name | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q0600 | Moss Point | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 05/28/09 | 8.94 | <MQL | <MQL | 215 ug/L | 1270 ug/L | NA | 7960 ug/L | 105 mg/L | 1260 umhos/cm | 205 mg/L | 613 mg/L | 6.8 mg/L | 286 mg/L | 0.955 mg/L | <MQL |
| | 08/12/15 | 8.84 | <MQL | <MQL | 289 ug/L | 1630 ug/L | 3.24 mg/L | NA | 316 mg/L | 1278 umhos/cm | 211 mg/L | 646 mg/L | 7.9 mg/L | 315 mg/L | 0.707 mg/L | <MQL |

| Well No. | Owner Name | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q0601 | Moss Point | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 05/28/09 | 8.85 | <MQL | <MQL | 199 ug/L | 888 ug/L | NA | 7510 ug/L | 92.6 mg/L | 1290 umhos/cm | 218 mg/L | 617 mg/L | 6.7 mg/L | 285 mg/L | 1.19 mg/L | <MQL |
| | 08/12/15 | 8.86 | <MQL | <MQL | 260 ug/L | 1450 ug/L | 2.73 mg/L | NA | 298 mg/L | 1286 umhos/cm | 217 mg/L | 608 mg/L | 6.81 mg/L | 303 mg/L | 0.696 mg/L | <MQL |

| Well No. | Owner Name | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q633 | Grand Bay NERR | | | | | | | | | | | | | | |
| | Sample Date | pH | Mn | Fe | Mg | K | CA | Si | Na | Sp. Cond. | Chlorides | TDS | Hardness | Alkalinity | Fluoride | Sulfate |
| | 04/15/16 | 7.34 | <MQL | 4810 ug/L | 1730 ug/L | 3420 ug/L | 2.44 mg/L | NA | 133 mg/L | 584 umhos/cm | 80.9 mg/L | 344 mg/L | 14.1 mg/L | 175 mg/L | 0.37 mg/L | <MQL |

**Manganese - MN** **Iron - Fe** **Magnesium - Mg** **Potassium - K** **Calcium - Ca** **Silicon- Si** **Sodium - Na**

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Map Projection: Mississippi Transverse Mercator

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REGISTERED PROFESSIONAL GEOLOGIST MS 0791 JAMES E. STARNES

This map prepared under the supervision of James E. Starnes, RPG

James E. Starnes, RPG
August, 2017

## MAPPING UNITS

**QUATERNARY — HOLOCENE**

- Fill — RECENT FILL
- Qaf — ALLUVIAL FAN
- Qal — ALLUVIUM

**QUATERNARY — PLEISTOCENE**

COASTAL TERRACES

- Qtpc — PAMLICO. Interval: 0 to 30 feet; Terrace 25 feet
- Qtbrc — BIG RIDGE. Interval: 30 to 50 feet; Terrace 50 feet
- Qtghc — GOOD HOPE. Interval: 50 to 110 feet; Terrace 100 feet

RIVER TERRACES

- Qtwr — WADE. Interval: 30 to 50 feet; Terrace 50 feet

**QUATERNARY — PLEISTOCENE**

- Qtbpr — BIG POINT. Interval: 50 to 80 feet; Terrace 70 feet
- Qthur — HURLEY. Interval: 80 to 110 feet; Terrace 100 feet
- Qthr — HARLESTON. Interval: 110 to 130 feet; Terrace 130 feet
- Qtmr — MOVELLA. Interval: 130 to 180 feet; Terrace 150 feet

**TERTIARY — MIOCENE–PLIOCENE**

- Tgf — GRAHAM FERRY FORMATION
- Tp — PASCAGOULA FORMATION

Mississippi Department of Environmental Quality
Office of Geology
In Cooperation With the Office of Land and Water Resources

Open-File Report 286

Michael B. E. Bograd
State Geologist

Plate1

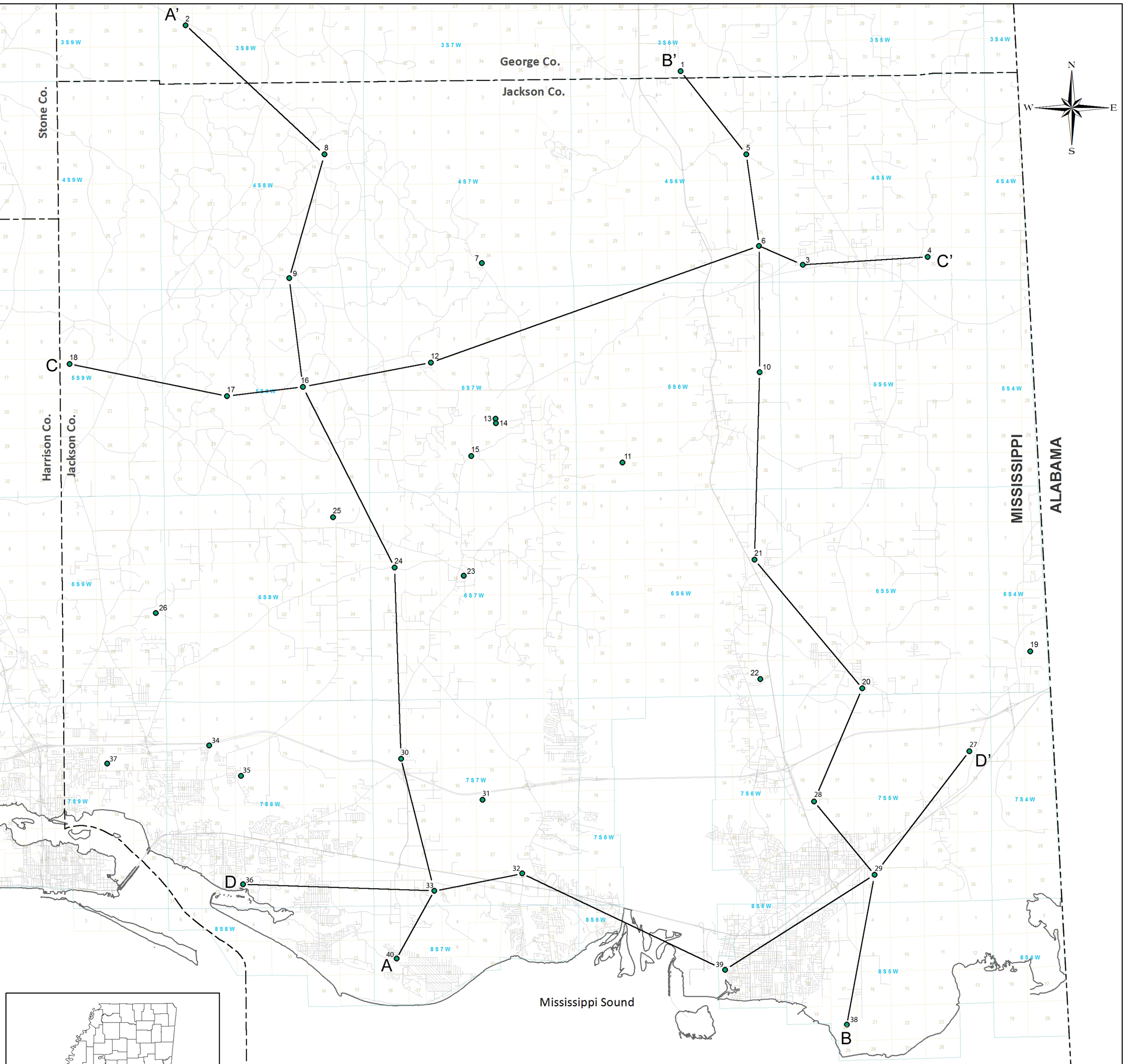
# Geologic Map of Jackson County

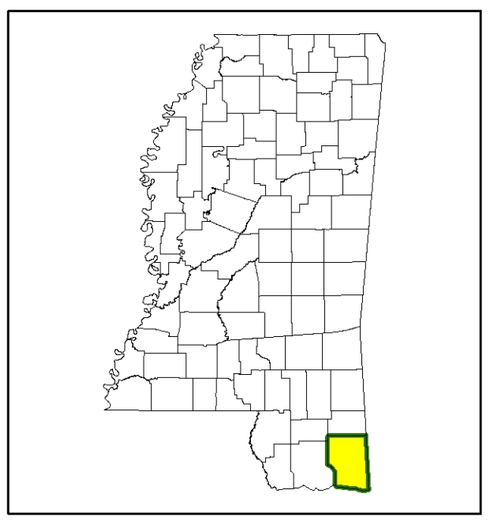
Modified From Office of Geology Open File Report 285
by Lindsey Stewart and James E. Starnes, RPG

August, 2017

Scale 1 inch = 2 miles

0 1 2 3 4 miles



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Well information presented in Table 1

**Mississippi Department of Environmental Quality**
**Office of Geology**
**In Cooperation With the Office of Land and Water Resources**

**Open-File Report 286**

**Michael B. E. Bograd**
**State Geologist**

**This map prepared under the supervision of James H. Hoffmann, RPG**

REGISTERED PROFESSIONAL GEOLOGIST
MS
0257
JAMES H. HOFFMANN

James H. Hoffmann, RPG
August 1, 2017

**Plate 2**

**Location Plat for Cross Sections and Wells Used to Map Aquifer Intervals of the Grand Gulf Aquifer System Jackson Co., Mississippi**

**by Lindsey Stewart**

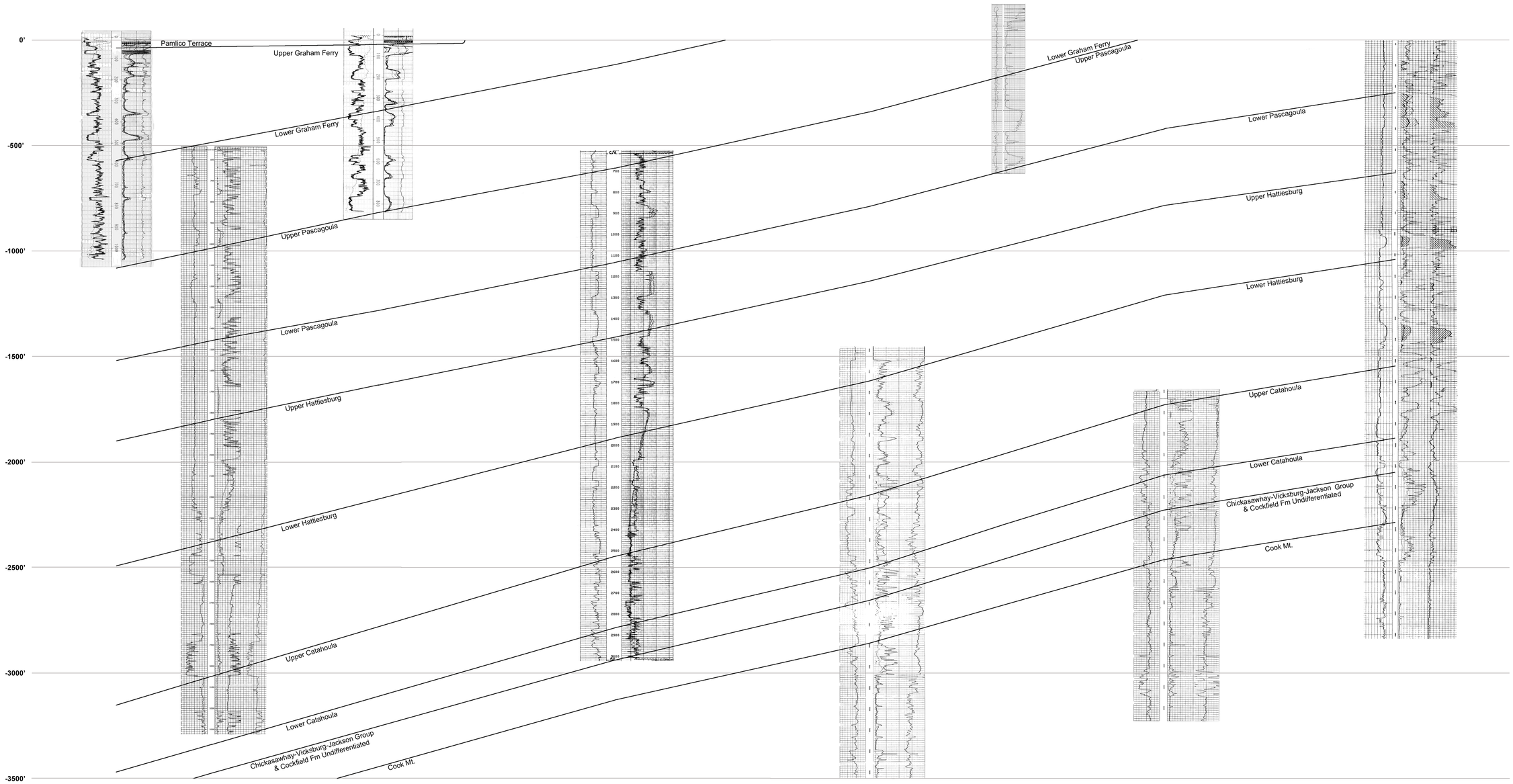
August, 2017 **Scale 1 inch = 2 miles**

0 1 2 3 4 miles

**A**
**South**

**A'**
**North**

| 41 | 34 | 31 | 24 | 16 | 9 | 8 | 2 |
|---|---|---|---|---|---|---|---|
| St. Andrews Well O549 Sec. 7, T8S, R7W | Imperial Resources No. 1 Allar Co. Sec. 38, T7S, R7W | Schooner Investments Well No. O422 Sec. 7, T7S, T7W | Davis Oil Co. No. 1 C.M. Dees Sec. 18, T6S, R7W | Chesley Pruet No. 1 International Paper Co. Sec. 14, T5S, R8W | Office of Geology Elico No. 1 Sec. 34, T4S, R8W | Pan American Petro. No. 1 Gladys Carter Sec. 14, T4S, R8W | The Ohio Oil Co. L.N. Dantzler No. 2 Sec. 30, T3S, R8W |
| GR 14' | DF 31.4' | GR 20' | DF 72.3' | DF 130' | GR 168' | DF 134' | DF 82' |




This cross section prepared under the supervision of James H. Hoffmann, RPG.

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JAMES H. HOFFMANN

James H. Hoffmann, RPG
August 1, 2017

Location of cross section is shown on the location plat, Plate 2

Mississippi Department of Environmental Quality
Office of Geology
In Cooperation with the Office of Land and Water Resources

Open - File Report 286

Michael B. E. Bograd
State Geologist

Plate 3
Structural Cross Section A - A'
Of the Grand Gulf Aquifer System
Jackson Co., Mississippi
by Lindsey Stewart

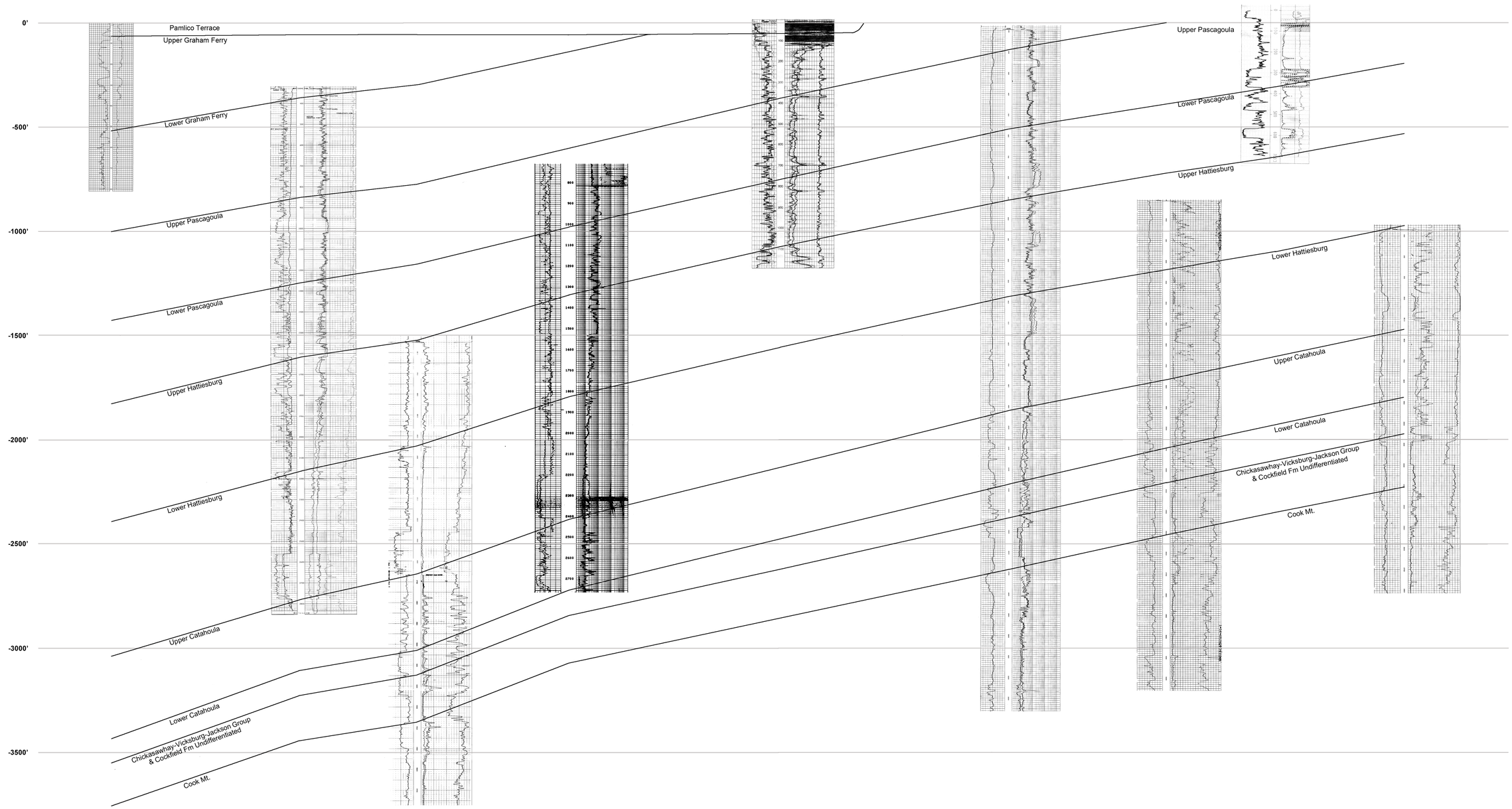
August, 2017

Horizontal Scale 1 inch = 1 mile
Vertical Scale 1 inch = 200 feet

**B**
**South**

**B'**
**North**

| 38 | 29 | 28 | 20 | 21 | 10 | 6 | 5 | 1 |
|---|---|---|---|---|---|---|---|---|
| Chevron<br>Well Q103<br>Sec. 20, T8S, R5W<br>GR 5' | Browning & Welch<br>Green 33-2 No. 1<br>Sec. 33, T7S, R5W<br>DF 11.5' | Thiokol Chemical Corp.<br>Waste Disposal Well No. 2<br>Sec. 19, T7S, T5W<br>DF 20' | Arco Oil & Gas<br>No. 1 Fred Woods Jr.<br>Sec. 33, T6S, R5W<br>DF 25' | Jackson Co. Utility Auth.<br>Well No. L183<br>Sec. 13, T6S, R6W<br>GR 18' | Amoco Prod. Co.<br>No. 1 Cumbest Unit 13-11<br>Sec. 13, T5S, R6W<br>DF 63.4' | Langdon & Anderson<br>No. 1 E.H. Bacot etal<br>Sec. 25, T4S, R6W<br>DF 59' | Jackson Co. Utility Auth.<br>Well No. C127<br>Sec. 13, T4S, R6W<br>GR 80' | S. Hagar & Others<br>No. 1 Phoenix No. 2<br>Sec. 34, T3S, R6W<br>DF 76' |




This cross section prepared under the supervision of James H. Hoffmann, RPG.

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MS 0257
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James H. Hoffmann, RPG
August 24, 2017

Location of cross section is shown on the location plat, Plate 2

Mississippi Department of Environmental Quality
Office of Geology
In Cooperation with the Office of Land and Water Resources

Open - File Report 286

Michael B. E. Bograd
State Geologist

Plate 4
Structural Cross Section B - B'
of the Grand Gulf Aquifer System
Jackson Co., Mississippi
by Lindsey Stewart

August, 2017

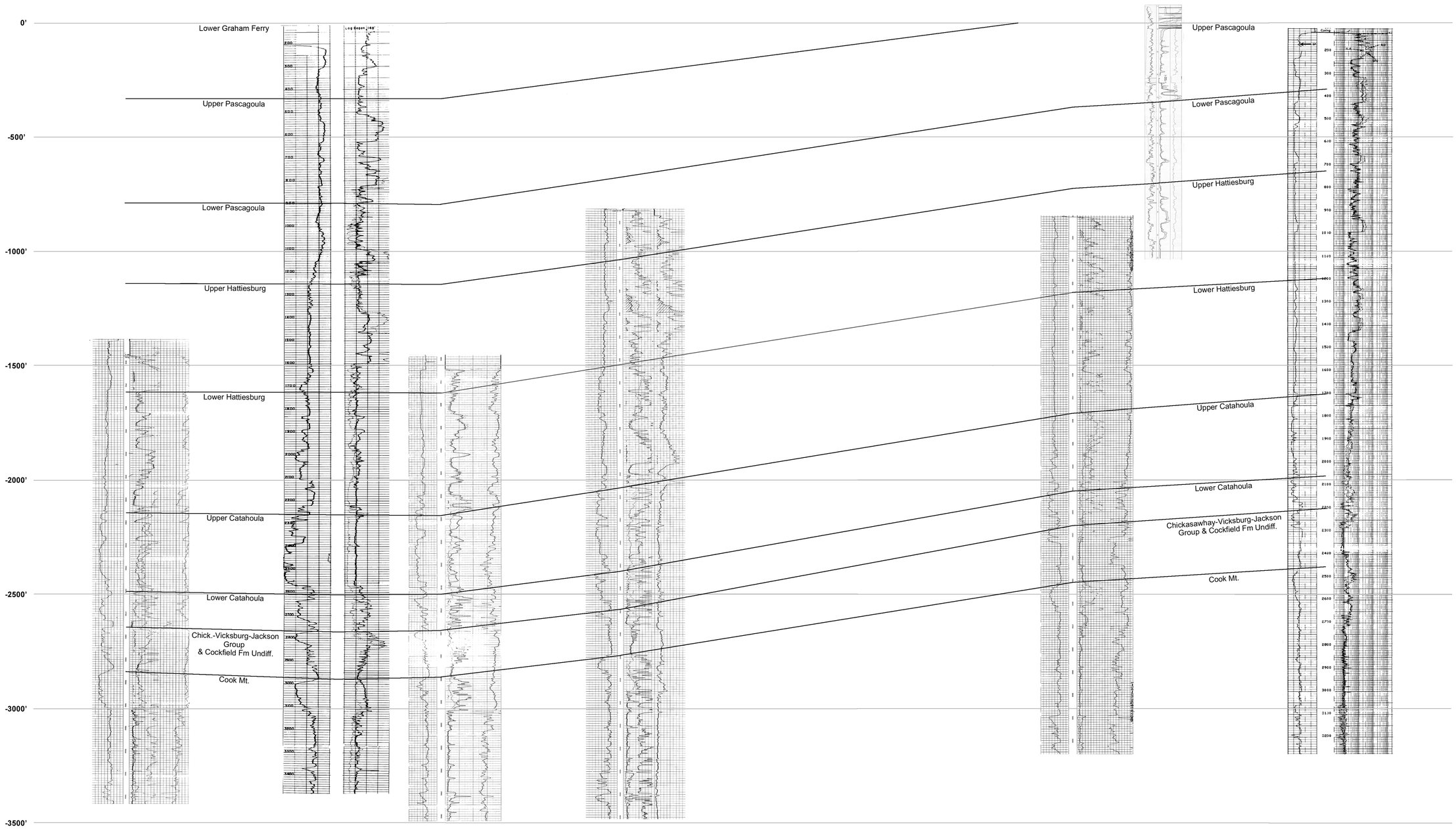
Horizontal Scale 1 inch = 1 mile

Vertical Scale 1 inch = 200 feet

**C**
**West**

**C'**
**East**

| 18 | 17 | 16 | 12 | 6 | 3 | 4 |
|---|---|---|---|---|---|---|
| Weston Drlg. Co.<br>USA No. 1-J<br>Sec. 15, T5S, R9W<br>DF 116' | Humble Oil & Ref.<br>L.N. Dantzler Lbr. Co. No. B-1<br>Sec. 20, T5S, R8W<br>DF 108' | Chesley Pruet<br>No. 1 International Paper Co.<br>Sec. 14, T5S, T8W<br>DF 130' | J.R Brown & Crow Drlg.<br>No. 2 International Paper Co.<br>Sec. 17, T5S, R7W<br>DF 125' | Langdon & Anderson<br>No. 1 E.H. Bacot etal<br>Sec. 25,T4S, R6W<br>DF 59' | Jack. Co. Sch. Bd.<br>East Central HS<br>Sec. 31,T4S, R5W<br>GR 82' | Conoco Inc.<br>W.K. Middleton No.1<br>Sec. 35,T4S, R5W<br>DF 75' |




This cross section prepared under the supervision of James H. Hoffmann, RPG.

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JAMES H. HOFFMANN

James H. Hoffmann, RPG
August 1, 2017

Location of cross section is shown on the location plat, Plate 2

# Mississippi Department of Environmental Quality
## Office of Geology
In Cooperation with the Office of Land and Water Resources

Open - File Report 286

Michael B. E. Bograd
State Geologist

Plate 5
Structural Cross Section C - C'
Of the Grand Gulf Aquifer System
Jackson Co., Mississippi
by Lindsey Stewart

August, 2017

Horizontal Scale 1 inch = 1 mile
Vertical Scale 1 inch = 200 feet

**D**
**West**

**D’**
**East**

**36**

**Gulf Coast Research Lab**
**Well No. N 497**
**Sec. 33, T7S, R8W**

**GR 18’**

**33**

**Imperial Resources**
**No. 1 Allar**
**Sec. 38, T7S, R7W**

**DF 31.4’**

**32**

**City of Gautier**
**Well No. O286**
**Sec. 35, T7S, T7W**

**GR 21’**

**39**

**Ingalls Shipbuilding**
**Well No. P 145**
**Sec. 6, T8S, R6W**

**DF 13’**

**29**

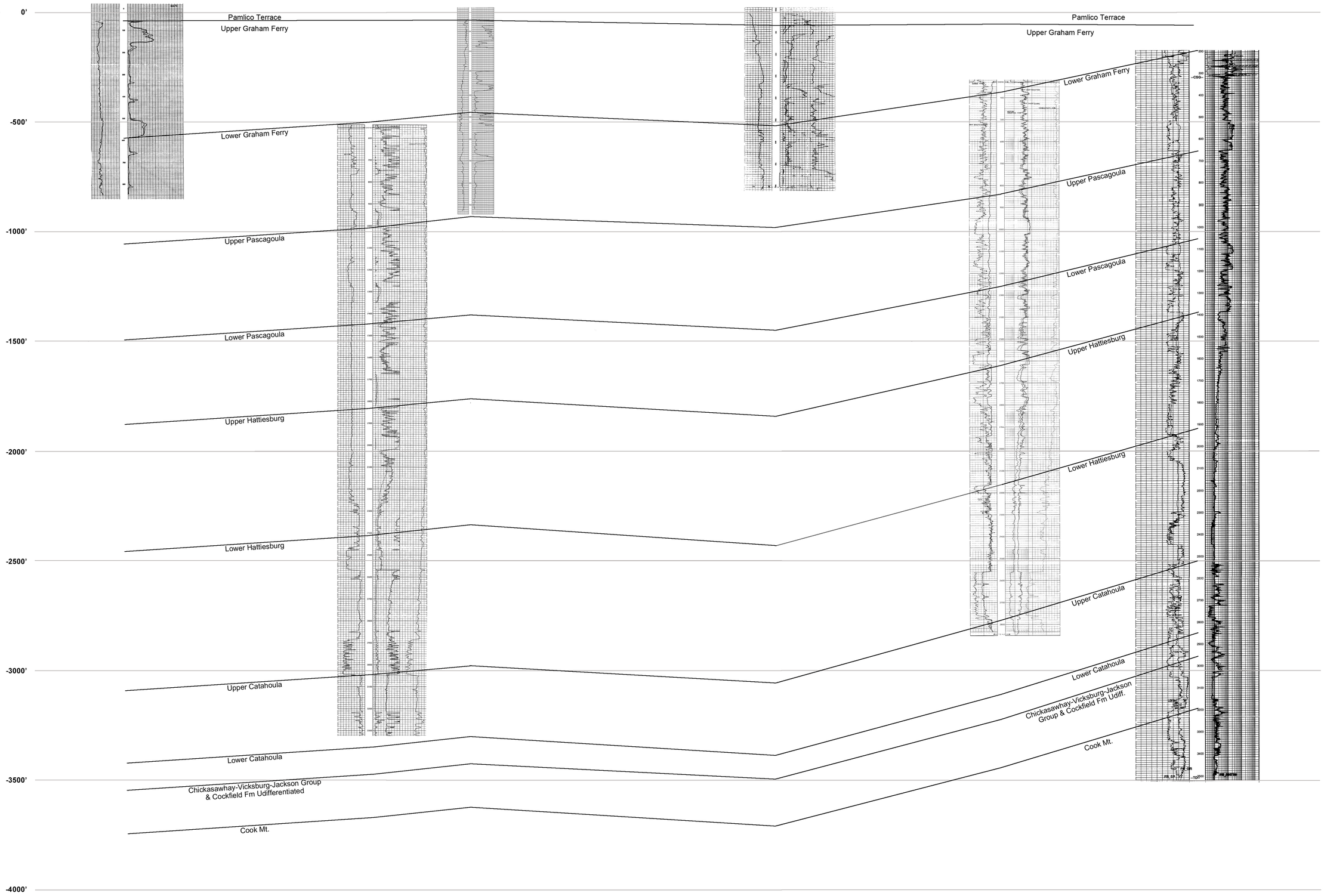
**Browning & Welch**
**Green 33-2 No. 1**
**Sec. 33, T7S, R5W**

**DF 11.5’**

**27**

**Moon-Hines-Tigrett**
**Coastal Exp. Van Camp 12-11**
**Sec. 12, T7S, R5W**

**DF 17.1’**




This cross section prepared under the supervision of James H. Hoffmann, RPG.

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James H. Hoffmann, RPG
August 1, 2017

Location of cross section is shown on the location plat, Plate 2

Mississippi Department of Environmental Quality
Office of Geology
In Cooperation with the Office of Land and Water Resources

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Michael B. E. Bograd
State Geologist

Plate 6
Structural Cross Section D - D’
Of the Grand Gulf Aquifer System
Jackson Co., Mississippi
by Lindsey Stewart

August, 2017

Horizontal Scale 1 inch = 1 mile
Vertical Scale 1 inch = 200 feet

George Co.

Jackson Co.

Stone Co.

Harrison Co.

Jackson Co.

MISSISSIPPI

ALABAMA

Area of Upper Pascagoula Outcrop or Subcrop

Approximate Updip Limit of Lower Graham Ferry

Area of Lower Graham Ferry Outcrop or Subcrop

Approximate Updip Limit of Upper Graham Ferry

Mississippi Sound

N

W

E

S

| | | |

George Co.

Jackson Co.

Stone Co.

Harrison Co.

Jackson Co.

MISSISSIPPI

ALABAMA

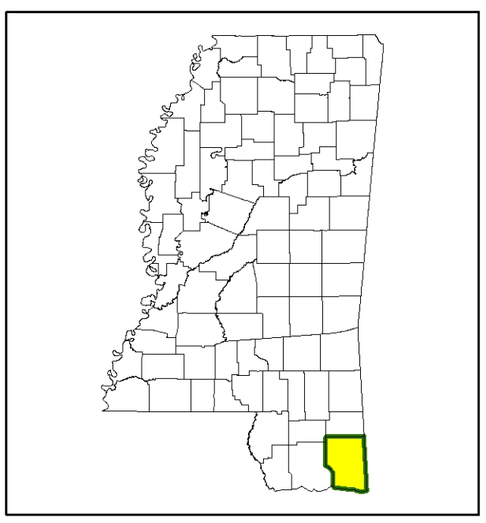
Area of Upper Pascagoula Outcrop or Subcrop

Approximate Updip Limit of Lower Graham Ferry

-100 -200 -300 -400 -500 -600 -700 -800 -900 -1000 -1100

1 NL
2 -590
3 -755 est
4 -820
5 -565
6 -590
7 -820 est
8 -540
9 -220
10 -130
11 NL
12 -230 est
13 NL
14 NL
15 NL
16 -330 est
17 -330
18 -330 est
19 NL
20 -590
21 -380
22 -565
23 -540
24 -590
25 -540
26 - 650
27 -633
28 -755 est
29 -820
30 -820 est
31 NL
32 -930 est
33 -980
34 -865
35 -885
36 -1050 est
37 NDE
38 -1040 est
39 -990 est
40 -1080 est

Mississippi Sound



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**Michael B. E. Bograd**
**State Geologist**

**This map prepared under the supervision of James H. Hoffmann, RPG**

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JAMES H. HOFFMANN

James H. Hoffmann, RPG
August 1, 2017

# Plate 8

## Top of The Upper Pascagoula Aquifer Interval of the Grand Gulf Aquifer System Jackson Co., Mississippi

by Lindsey Stewart

August, 2017 Scale 1 inch = 2 miles

0 1 2 3 4 miles

Contour Interval 100’

**Legend**

| | |
|---|---|
| NDE | Well not deep enough to intersect aquifer interval |
| est | Estimated top of aquifer |
| NL | Aquifer interval not logged |
| -340 | Elevation of top of aquifer in feet relative to MSL |

George Co.

Jackson Co.

Stone Co.

Harrison Co.

Jackson Co.

MISSISSIPPI

ALABAMA

Mississippi Sound

N

W E

S

-100 -200 -300 -400 -500 -600 -700 -800 -900 -1000 -1100 -1200 -1300 -1400 -1500

2 -250

1 -180 est

8 -410 est

5 -270

6 -370 est

3 -345

4 -289

7 -450

9 -595 est

18 -785 est

12 -675 est

10 -500

17 -791

16 -790 est

NL 13 14 -675

15 NL

11 NL

25 NDE

24 -1057

23 -970

21 -750

26 NDE

19 -779

22 NDE

20 -980

34 NDE

37 NDE

35 NDE

30 -1284 est

27 -1028

31 NL

28 -1200 est

36 -1500 est

33 -1414

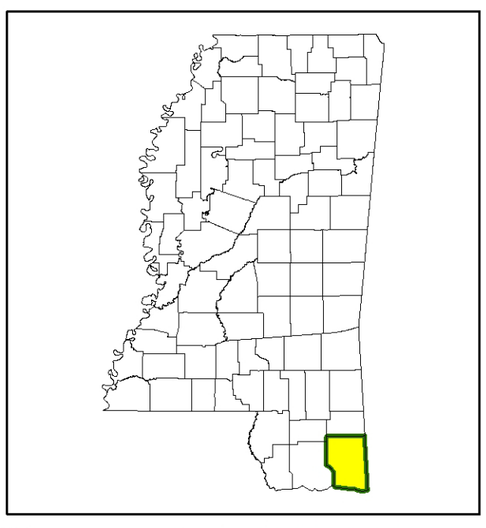
32 -1380 est

29 -1250

40 -1520 est

39 -1450 est

38 -1430 est



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MS 0257
JAMES H. HOFFMANN

James H. Hoffmann, RPG
August 1, 2017

Plate 9

# Top of The Lower Pascagoula Aquifer Interval of the Grand Gulf Aquifer System Jackson Co., Mississippi

by Lindsey Stewart

August, 2017

Scale 1 inch = 2 miles

0 1 2 3 4 miles

Contour Interval 100’

**Legend**

| | |
|---|---|
| NDE | Well not deep enough to intersect aquifer interval |
| est | Estimated top of aquifer |
| NL | Aquifer interval not logged |
| -340 | Elevation of top of aquifer in feet relative to MSL |

George Co.

Jackson Co.

Stone Co.

Harrison Co.

Jackson Co.

MISSISSIPPI

ALABAMA

Mississippi Sound

N

W

E

S

-700 -800 -900 -1000 -1100 -1200 -1300 -1400 -1500 -1600 -1700 -1800 -1900

-400 -500 -600 -700 -800 -900 -1000 -1100 -1200 -1300 -1400 -1500 -1600 -1700 -1800

Approx. Downdip Limit of Fresh Water in The Upper Hattiesburg

2 -627

1 -540 est

8 -785 est

5 -645

6 -725 est

3 -700

4 -645

7 NDE

9 -980 est

18 -1140 est

12 -1040

10 -847

17 -1144

16 -1140 est

13 14 -1070

15 -1183

11 NL

25 NDE

24 -1408

23 NDE

21 -1070

19 -1154

26 NDE

22 NDE

20 -1300

34 NDE

37 NDE

35 NDE

30 -1635 est

27 -1365

31 NL

28 -1530

29 -1610

36 -1880 est

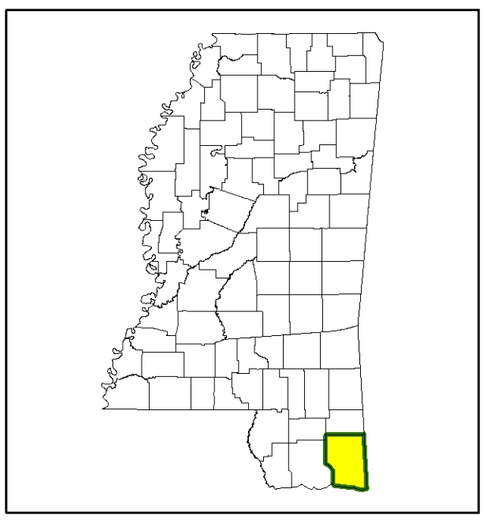
33 -1799

32 -1775 est

40 -1900 est

39 -1840 est

38 -1820 est



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Michael B. E. Bograd
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JAMES H. HOFFMANN

James H. Hoffmann. RPG
August 1, 2017

Plate 10

# Top of The Upper Hattiesburg Aquifer Interval of the Grand Gulf Aquifer System Jackson Co., Mississippi

by Lindsey Stewart

August, 2017

Scale 1 inch = 2 miles

0 1 2 3 4 miles

Contour Interval 100’

**Legend**

| | |
|---|---|
| NDE | Well not deep enough to intersect aquifer interval |
| est | Estimated top of aquifer |
| NL | Aquifer interval not logged |
| -340 | Elevation of top of aquifer in feet relative to MSL |

George Co.

Jackson Co.

Stone Co.

Harrison Co.

Jackson Co.

MISSISSIPPI

ALABAMA

Approx. Downdip Limit of Fresh Water in The Lower Hattiesburg

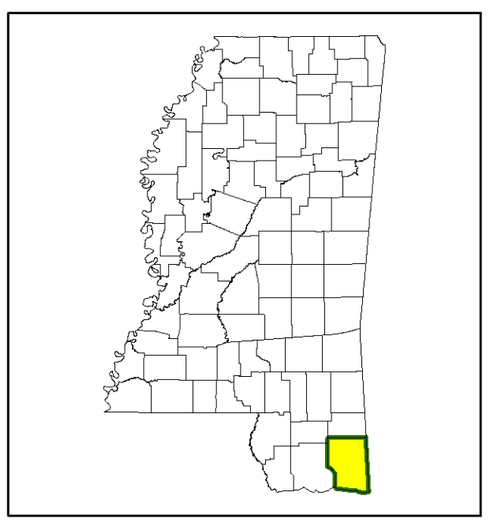
-900 -1000 -1100 -1200 -1300 -1400 -1500 -1600 -1700 -1800 -1900 -2000 -2100 -2200 -2300 -2400 -2500

1 -972 est
2 -1038
3 -1160 est
4 -1117
5 -1100 est
6 -1182
7 NDE
8 -1210 est
9 -1430 est
10 -1306
11 NL
12 -1495
13 14 -1509
15 -1594
16 -1618
17 -1618
18 -1614
19 -1666
20 -1794
21 -1560 est
22 NDE
23 NDE
24 -1888
25 NDE
26 NDE
27 -1893
28 -2030
29 -2148
30 -2175 est
31 -2214
32 -2355
33 -2385
34 NDE
35 NDE
36 -2552 est
37 NDE
38 -2420 est
39 -2390 est
40 -2500 est

3 S 9 W 3 S 8 W 3 S 7 W 3 S 6 W 3 S 5 W 3 S 4 W
4 S 9 W 4 S 8 W 4 S 7 W 4 S 6 W 4 S 5 W 4 S 4 W
5 S 9 W 5 S 8 W 5 S 7 W 5 S 6 W 5 S 5 W 5 S 4 W
6 S 9 W 6 S 8 W 6 S 7 W 6 S 6 W 6 S 5 W 6 S 4 W
7 S 9 W 7 S 8 W 7 S 7 W 7 S 6 W 7 S 5 W 7 S 4 W
8 S 8 W 8 S 7 W 8 S 6 W 8 S 5 W 8 S 4 W

N W E S

Mississippi Sound



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**Office of Geology**
**In Cooperation With the Office of Land and Water Resources**

**Open-File Report 286**

**Michael B. E. Bograd**
**State Geologist**

**This map prepared under the supervision of James H. Hoffmann, RPG**

REGISTERED PROFESSIONAL GEOLOGIST
MS 0257
JAMES H. HOFFMANN

James H. Hoffmann, RPG
August 1, 2017

# Plate 11

## Top of The Lower Hattiesburg Aquifer Interval of the Grand Gulf Aquifer System Jackson Co., Mississippi

**by Lindsey Stewart**

August, 2017 **Scale 1 inch = 2 miles**

0 1 2 3 4 miles

Contour Interval 100’

**Legend**

| | |
|---|---|
| NDE | Well not deep enough to intersect aquifer interval |
| est | Estimated top of aquifer |
| -340 | Elevation of top of aquifer in feet relative to MSL |

George Co.

Jackson Co.

Stone Co.

Harrison Co.

Jackson Co.

MISSISSIPPI

ALABAMA

Mississippi Sound

N

W E

S

-1900 -2000 -2100 -2200 -2300 -2400 -2500 -2600 -2700 -2800 -2900 -3000 -3100 -3200 -3300 -3400 -3500 -3600

1 -1969

2 -2038

3 -2175

4 -2175

5 -2103 est

6 -2202

7 NDE

8 -2232

9 -2457 est

10 -2315

11 -2632

12 -2565

13 -2624

14 NL

15 -2693

16 -2659

17 -2662

18 -2644

19 NL

20 -2840 est

21 -2620 est

22 NDE

23 NDE

24 -2940 est

25 NDE

26 NDE

27 -2935

28 -3127

29 -3230 est

30 -3255 est

31 -3250

32 -3420 est

33 -3475 est

34 NDE

35 NDE

36 -3550 est

37 NDE

38 -3583 est

39 -3500 est

40 -3570 est

3 S 9 W 3 S 8 W 3 S 7 W 3 S 6 W 3 S 5 W 3 S 4 W

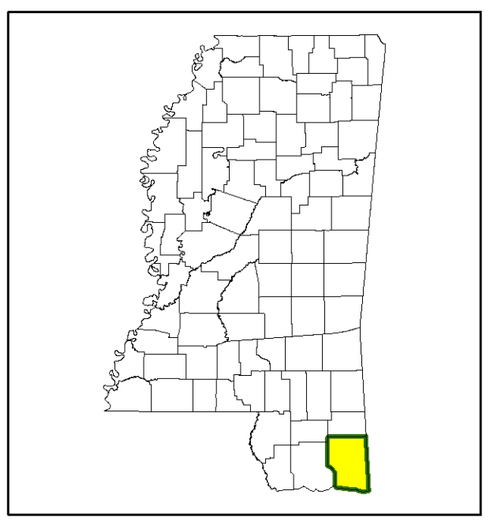
4 S 9 W 4 S 8 W 4 S 7 W 4 S 6 W 4 S 5 W 4 S 4 W

5 S 9 W 5 S 8 W 5 S 7 W 5 S 6 W 5 S 5 W 5 S 4 W

6 S 9 W 6 S 8 W 6 S 7 W 6 S 6 W 6 S 5 W 6 S 4 W

7 S 9 W 7 S 8 W 7 S 7 W 7 S 6 W 7 S 5 W 7 S 4 W

8 S 8 W 8 S 7 W 8 S 6 W 8 S 5 W 8 S 4 W



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**Mississippi Department of Environmental Quality**
**Office of Geology**
**In Cooperation With the Office of Land and Water Resources**

**Open-File Report 286**

**Michael B. E. Bograd**
**State Geologist**

**This map prepared under the supervision of James H. Hoffmann, RPG**

REGISTERED PROFESSIONAL GEOLOGIST
MS 0257
JAMES H. HOFFMANN

James H. Hoffmann, RPG
August 1, 2017

**Plate 12**

# Top of The Chickasawhay Formation (Chickasawhay-Vicksburg-Jackson Group Undiff.) Aquifer Interval of the Grand Gulf Aquifer System Jackson Co., Mississippi

**by Lindsey Stewart**

August,2017

**Scale 1 inch = 2 miles**

0 1 2 3 4 miles

Contour Interval 100’

**Legend**

| | |
|---|---|
| NDE | Well not deep enough to intersect aquifer interval |
| est | Estimated top of aquifer |
| NL | Aquifer interval not logged |
| -340 | Elevation of top of aquifer in feet relative to MSL |

George Co.

Jackson Co.

Stone Co.

Harrison Co.

Jackson Co.

MISSISSIPPI

ALABAMA

N

W

E

S

-1400

-1500

-1600

-1700

-1800

-1900

-1200

-1300

-1100

-1000

Approx. Downdip Limit of Fresh Water in The Lower Hattiesburg

Approx Downdip Limit of Fresh Water in The Upper Hattiesburg

2 -1450 LH

1 -1391 LH

8 NL

5 NDE

9 NDE

7 NDE

6 -1386 LH

3 NDE

4 -1346 LH

18 -1615 UH

12 -1351 UH

16 NL

17 -1492 UH

-1382 UH

13 14

10 -1502 LH

15 -1485 UH

11 NL

25 NDE

24 -1758 UH

23 NDE

21 NDE

26 NDE

22 NDE

19 -1129 LP

20 -1307 LP

27 -1404 LP

35 NDE

38 NDE

36 NDE

31 NDE

32 NL

28 -1365 LP

29 NL

33 NDE

37 NDE

34 -1799 LP

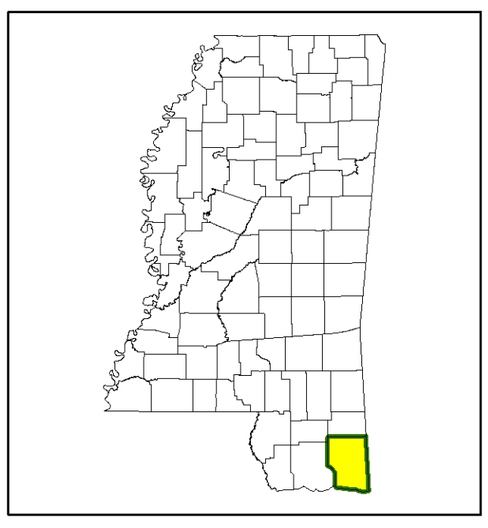
30 -1516 LP

41 NDE

40 NDE

39 NDE

Mississippi Sound



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MS 0257
JAMES H. HOFFMANN

James H. Hoffmann, RPG
August 1, 2017

# Plate 13

## Base of Fresh Water (Less than 1000 PPM TDS) in Aquifer Intervals of the Grand Gulf Aquifer System Jackson Co., Mississippi

by Lindsey Stewart

August, 2017 Scale 1 inch = 2 miles

miles
0 1 2 3 4

**Legend**

| | |
|---|---|
| NDE | Well not deep enough to intersect aquifer interval |
| NL | Aquifer interval not logged |

**Aquifer Intervals**

| | |
|---|---|
| LP | Lower Pascagoula |
| UH | Upper Hattiesburg |
| LH | Lower Hattiesburg |

George Co.

Jackson Co.

Stone Co.

Harrison Co.

Jackson Co.

MISSISSIPPI

ALABAMA

N

W

E

S

3 S 9 W | 3 S 8 W | 3 S 7 W | 3 S 6 W | 3 S 5 W | 3 S 4 W

4 S 9 W | 4 S 8 W | 4 S 7 W | 4 S 6 W | 4 S 5 W | 4 S 4 W

5 S 9 W | 5 S 8 W | 5 S 7 W | 5 S 6 W | 5 S 5 W | 5 S 4 W

6 S 9 W | 6 S 8 W | 6 S 7 W | 6 S 6 W | 6 S 5 W | 6 S 4 W

7 S 9 W | 7 S 8 W | 7 S 7 W | 7 S 6 W | 7 S 5 W | 7 S 4 W

8 S 8 W | 8 S 7 W | 8 S 6 W | 8 S 5 W | 8 S 4 W

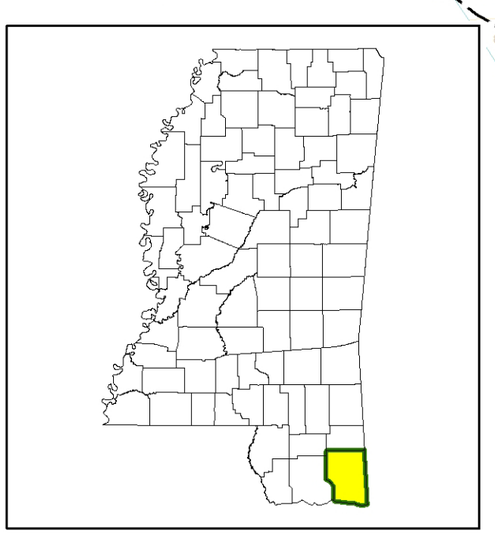
A135 A108 C146 D267 C145 B60 F120 E176 H172 F164 F464 J567 K147 J590 K738 K322 K2044 L127 L183 L9 J566 K696 J241 K163 L32 J344 J67 M349 N739 Q429 Q430 N487 N355 N95 N1043 N96 N472 N535 N451 O422 P376 P288 Q465 N461 N500 N288 N1050 O319 O314 P226 Q434 Q456 N888 N175 N391 N505 N381 N512 N278 N741 Q34 Q633 N217 N66 O310 Q160 Q25 Q159 Q19 N48 N42 N511 N1048 P45 Q464 N51 N49 N520 O208 P229 N53 N90 N543 N37 P54 P382 P455 Q600 Q166 N69 N517 N159 N566 N496 N73 P355 Q417 Q445 O286 O283 N715 O313 O307 O288 P326 Q601 P488 N479 N462 O300 O156 P395 Q293 Q149 Q43 N544 O295 P68 P69 Q420 Q407 N719 N738 O206 P72 P458 N425 O74 P150 P124 P372 P495 Q180 P108 O273 Q424 Q181 Q112 N743 O605 P373 P145 Q164 Q137 O213 O197 O297 O613 P349 P409 P348 P134 Q110 Q379 Q403 Q96 Q106 P429 P430 Q100

Mississippi Sound

Horn Island

O392

Gulf of Mexico



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**Aquifer Intervals**

- Upper Graham Ferry
- Lower Graham Ferry
- Upper Pascagoula
- Lower Pascagoula
- Upper Hattiesburg

Well information presented in Table 2

**This map prepared under the supervision of James H. Hoffmann, RPG**

REGISTERED PROFESSIONAL GEOLOGIST — MS 0257 — JAMES H. HOFFMANN

James H. Hoffmann, RPG
August 1, 2017

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**Office of Geology**
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**Open-File Report 286**

**Michael B. E. Bograd**
**State Geologist**

**Plate14**

# Location Plat for Water Wells From Which Water Levels Were Measured or Water Samples Collected in Jackson Co, Mississippi

**by Lindsey Stewart**

August, 2017

**Scale 1 inch = 2 miles**

0 1 2 3 4 miles