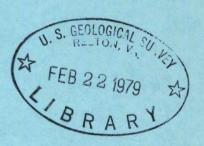
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# Water Resources Data for Louisiana

Volume 3. Coastal Louisiana



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT LA-78-3
WATER YEAR 1978

Prepared in cooperation with the Louisiana Department of Transportation and Development and with other State and Federal agencies

### CALENDAR FOR WATER YEAR 1978

### 1977

OCTOBER	NOVEMBER	DECEMBER
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## Water Resources Data for Louisiana

Volume 3. Coastal Louisiana

u.s.geological survey water-data report la-78-3 WATER YEAR 1978

Prepared in cooperation with the Louisiana Department of Transportation and Development and with other State and Federal agencies

## UNITED STATES DEPARTMENT OF THE INTERIOR CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. William Menard, Director

For information on the water program in Louisiana write to
District Chief, Water Resources Division
U.S. Geological Survey
P.O. Box 66492
Baton Rouge, LA 70896

#### PREFACE

This report was prepared by personnel of the Louisiana district of the Water Resources Division of the U.S. Geological Survey under the supervision of A. N. Cameron, District Chief, and Alfred Clebsch, Jr., Regional Hydrologist, Central Region. It was done in cooperation with the State of Louisiana and with other agencies.

This report is one of a series issued by State. General direction for the series is by J. S. Cragwall, Jr., Chief Hydrologist, U.S. Geological Survey, and S. M. Lang, Acting Assistant Chief Hydrologist for Scientific Publications and Data Management.

Data for Louisiana are in three volumes as follows:

Volume 1. Central and northern Louisiana

Volume 2. Southern Louisiana Volume 3. Coastal Louisiana

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#### INTRODUCTION

Water resources data for the 1978 water year for Louisiana consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. This report, in three volumes, contains discharge records for 76 gaging stations; stage record for 66 of these gaging stations; stage only for 32 gaging stations; contents for 1 reservoir; stage only for 12 lakes; water quality for 147 stations; 22 of these at gaging stations; 80 miscellaneous sites, 10 lakes, and 169 wells; and water levels for 686 observation wells. Also included are 199 crest-stage partial-record stations and flood-profile partial-record stations. Additional water data were collected at various sites, not involved in the systematic data-collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Louisiana.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-

Data Report LA-78-3." Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22151.

#### COOPERATION

The U.S. Geological Survey and organizations of the State of Louisiana have had cooperative agreements for the systematic collection of streamflow records since 1938, for ground-water levels since 1936, and for water-quality records since 1943. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Louisiana Department of Transportation and Development, George Fischer, Secretary: Office of Public Works, Roy Aguillard, Assistant Secretary, and Office of Highways, W. T. Taylor, Assistant Secretary.

Sabine River Compact Administration, composed of W. H. Robinson, Federal representative and chairman; R. J. Palmer and D. V. Cresap for Louisiana; George Smith and J. M. Syler for Texas.

Capitol Area Ground Water Conservation Commission, Dr. Austin F. Anthis, chairman.

Assistance in the form of funds or services was provided by the Corps of Engineers, U.S. Army and U.S. Fish and Wildlife Service, in collection of records for 34 gaging stations and 82 water-quality stations published in this report.

Organizations that supplied data are acknowledged in station descriptions.

#### HYDROLOGIC CONDITIONS

The below-median runoff in northern Louisiana experienced during the summer of 1977 continued each month through April 1978. Heavy rainstorms during May produced flows above median for that month but runoff for the remainder of the 1978 water year was again below median. Runoff at the key station in this region was only 52 percent of median.

Runoff over the remainder of the State was well sustanined with no unusual events recorded. Runoff in the southwestern section was deficient during the spring and summer months with the key station showing 123 percent normal. No unusual flood events were experienced.

Red River continued its deficient flow conditions with every month in the last two years recording below normal runoff. The average for the 1978 water year was only 43 percent normal.

The lower Mississippi River system (the Mississippi and Atchafalaya Rivers) recorded runoff 15 percent above normal with no unusual flow condition during the year.

Regional water-level declines of 1-3 feet/year were recorded for the Sparta sand in northern Louisiana and 1-2 feet/year for the upper Miocene aquifer in central Louisiana. Water levels in the terrace, alluvial, Wilcox, and Cockfield aquifers were in the normal range, except for local declines in wells in the Wilcox aquifer in northwestern Louisiana.

In southwestern Louisiana, water levels in wells in the Chicot aquifer in the rice irrigation area were generally lower than at the close of the 1977 water year. Water-level changes in key observation wells ranged from zero at Lafayette to a record low (4.3 feet lower than September 1977) in the Iowa area. In the Lake Charles area levels in wells in the Chicot "200-ft" and "700-ft" sands were generally 1-2 feet lower than in September 1977. In contrast, water levels for the Chicot "500-ft" sand were higher by as much as 5 feet. At Opelousas and Eunice, water levels in wells in the Evangeline aquifer reached record lows every month, May-September 1978, and ended the water year 5 feet lower at Opelousas and over a foot lower at Eunice than in September 1977.

In southeastern Louisiana, water levels rose slightly in wells in the Gonzales-New Orleans, Norco, and Gramercy aquifers of the New Orleans area and the "400-ft", "600-ft", "1500-ft", and "2000-ft" sands of the Baton Rouge area. In wells in the "2400-ft" and "2800-ft" sands of the Baton Rouge area, water levels were generally lower than last year and record lows were reached; water levels for the "1200-ft" sand remained about the same.

The chemical quality of streamflow is monitored at many sites in the State. Samples are obtained at periodic intervals according to the intensity of the study. Results indicate that no unusual changes have taken place in the quality of surface streams during the year, and no new problem areas were found.

#### DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting English units to International System of metric units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Aquifer is a geologic formation, group of formations, or part of a formation than contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials. NOTE: The letter "B" preceding a value indicates the results are based on colony count outside the acceptable range.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the labóratory these bacteria are defined as the organisms which produce colonies within 24 hours when incubated at  $35^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$  on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C + 0.2°C on MFC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found in the intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brainheart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at  $35^{\circ}\text{C} \pm 1.0^{\circ}\text{C}$  on M-enterrococcus medium (STORET CODE 31679), or on KF agar (STORET CODE 31673). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by micro-organisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry-mass determination has been ashed in a muffle furnace at a temperature of  $500^{\circ}\text{C}$  for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in g/m³ (grams per cubic meter), and periphyton and benthic organisms in g/m² (grams per square meter).

 $\underline{\text{Dry mass}}$  refers to the mass of residue present after drying in an oven at  $60\,^{\circ}\text{C}$  for zooplankton and  $105\,^{\circ}\text{C}$  for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

 $\frac{\text{Cells/volume}}{\text{counted by using a microscope}} \ \text{refers to the number of cells on any organism which is counted by using a microscope and grid or counting cell.} \ \text{Many planktonic organisms are muticelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).}$ 

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

 $\frac{\text{Chlorophyll}}{\text{and }\underline{b}} \ \text{are the two most common pigments in plants.} \ \ \text{Chlorophyll} \ \underline{a}$ 

<u>Color unit</u> is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

<u>Contents</u> is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

<u>Control structure</u> as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

<u>Cubic feet per second</u> ( $FT^3/s$ ,  $ft^3/s$ ) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

<u>Discharge</u> is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

<u>Instantaneous discharge</u> is the discharge at a particular instant of time.

<u>Dissolved</u> refers to the amount of substance present in true chemical solution. In practice, however, the term includes all forms of substance that will pass through a 0.45-micrometer membrane filter, and thus may include some very small (coloidal) suspended particles. Analyses are performed on filtered samples.

<u>Diversity index</u> is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\overline{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where  $n_i$  is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

<u>Drainage area</u> of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution area, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

<u>Hardness</u> of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate  $(CaCO^3)$ .

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Land-surface datum (LSD) is a datum plane that is approximately at land surface at each well.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

 $\frac{\text{Micrograms per gram}}{\text{chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.}$ 

Micrograms per kilogram (ug/kg) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (kilogram) of sediment.

 $\frac{\text{Milligrams per liter}}{\text{concentration of chemical constituents in solution.}} \text{ Milligrams per liter represent the mass of solute per unit volume (liter) of water.} \\ \text{Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.}$ 

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

 $\underline{\text{Organism}}$  is any living entity, such as an insect, phytoplankter, or zooplankter.

 $\frac{\text{Organism count/volume}}{\text{and enumerated in a sample}}$  and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

<u>Particle-size</u> is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

<u>Particle-size classification</u> used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

Classification	Size	(mm)	Method of analysis
Clay	0.00024	- 0.004	Sedimentation.
Silt	.004	062	Sedimentation.
Sand	.062	- 2.0	Sedimentation or sieve.
Grave1	2.0	- 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

<u>Percent composition</u> is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass or volume.

<u>Pesticides</u> are chemical compounds used to control the growth of undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

<u>Insecticides</u> are substances or a mixture of substances intended to prevent, destroy, or repel insects. The technical names for insecticides determined in this report are:

Aldrin should contain not less than 95 percent of 1,2,3, 4,10, 10-hexachloro-1-4,4a,5,8,8a-hexahydro-0, 4-endo-exo-5, 8-dimethano-naphthanene.

Chlordane 1,2,4,5,6,7,8, 8-oxtachloro-3a,4,7, 7-tetra-

hydro-4, 7-methanoindane.

DDD (combination of ortho and para isomers)
o,p' DDD 1,1-dichloro-2-(o-chlorophenyl)-2-

(p-chloropheny1)ethane,

p,p' <u>DDD</u> 1,1-dichloro-2,2-bis (p-chloropheny1)-

DDE (combination of ortho and para isomers)

o,p' DDE 1,1-dichloro-2-(o-chloropheny1)-2-

(p-chlorophenyl)ethylene,

p,p' DDE 1,1-dichloro-2-bis (p-chloropheny1)-

ethylene.

ethane.

DDT (combination of ortho and para isomers)

o,p' <u>DDT</u> 1,1,1-trichloro-2-(o-chloropheny1)-2-(p-chloropheny1)ethane,

p,p' <u>DDT</u> 1,1,1-trichloro-2,2-bis (p-chloropheny1)-

ethane.

<u>Diazinon</u> 0,0-diethyl 0- (2-isopropyl-6-methyl-4-pyramidyl)

phosphorothioate.

<u>Dieldrin</u> should contain not less than 85 percent of 1,2, 3,4,10, 10-hexachloro-6, 7-eposy-1,4,4a,5,6,7,8,8a-octahydro-1, 4-endo-exo-5, 8-dimethanonaphthalene.

Endosulfan 1,4,5,6,7,7-hexachloro-5-norbornene-2,3-

dimethanol cyclic sulfite.

Endrin 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo-endo-5,8-dimethanonaphthalene.

Ethion 0,0,0',0'-tetraethyl S,S' methylenediphosphoro-dithioate.

Heptachlor 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetra-hydro-4, 7-methaniondene.

Heptachlor epoxide 1,4,5,6,7,8,8,-heptachloro-2,3-epoxy-

3a, 4, 7, 7a-tetrahydro-4, 7-methaniondan.

<u>Lindane</u> 1,2,3,4,5,6-hexachlorocyclohexane, 99 percent or more of gamma isomer.

Malathion S-(1,2-bis (ethoxycarbonyl) ethyl) 0,0-dimethyl

phosphorodithioate.

Methyl parathion 0,0-dimethyl 0-p-nitrophenyl phosphoro-

thioate.

Methyl trithion phosphorodithioic acid S- {[(p-chlorophenyl)thio]methyl O, O-dimethyl ester.

Methyoxychlor 1,1,1-trichloro-2,2-bis (p-methyoxypheny1)-

ethane.

Mirex Dodecachlorooctahydro-1,3,4-methano-2H-cyclobuto cd pentalene.

Parathion 0,0-diethyl 0-p-nitrophenyl phosphorothioate.

Toxaphene chlorinated camphene containing 67 percent

Trithion phosphorodithioic acid S- {[(p-chloropheny1)thio]-methy1,0,0-diethy1 ester.

Herbicides are substances or a mixture of substances intended to control or destroy any vegetation. The technical names for herbicides determined in this report are:

Atrazine 2-chloro-4-ethylamino-6-isoprophlamino-5-triazine.

Simazine 2-chloro-4,6-bia(ethylamino)-5-triazine. 2,4-D 2,4-dichlorophenozyacetic acid.

2,4,5-T 2,4,5-trichlorophenoxyacetic acid.

<u>Silvex</u> 2-(2,4,5-trichlorophenoxy) propionic acid.

Picocurie (PC, pCi) is one trillionth (1 x  $10^{-12}$ ) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7 x  $10^{10}$  radioactive disintegrations per second. A picocurie yields 2.2 dpm (disintegrations per minute).

<u>Plankton</u> is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary flood producers in the aquatic environment, and are commonly know as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

<u>Diatoms</u> are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating 'moss' in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

<u>Polychlorinated biphenyls</u> (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated napthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated napthalene compounds having various percentages of chlorine.

Runoff in inches (IN., in.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

<u>Suspended sediment</u> is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

<u>Suspended-sediment load</u> is quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term ''discharge'' can be applied to the flow of a canal, the word ''streamflow'' uniquely describes the discharge in a surface stream course. The term ''streamflow'' is more general than ''runoff'' as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lived.

<u>Natural substrates</u> refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lived.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplified the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

<u>Suspended</u> (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45 micrometer filter.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata is the following:

KingdomAnimal
PhylumArthropoda
ClassInsecta
OrderEphemeroptera
FamilyEphemeridae
GenusHexagenia
SpeciesHexagenia limbata

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WRD is used as an abbreviation for 'Water-Resources Data' in the REVISED RECORDS paragraph to State annual basic-data reports published before 1975.

WSP is used as an abbreviation for 'Water-Supply Paper' in references to previously published reports.

#### DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second

rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 02489500, which appears just to the left of the station name, includes the 2-digit part number "02" plus the 6-digit downstream order number "489500". Records in this report are in Part 2 (South Atlantic Slope and Eastern Gulf of Mexico basin), Part 7 (Lower Mississippi River basin) and Part 8 (Western Gulf of Mexico basin).

#### NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 1 on following page.

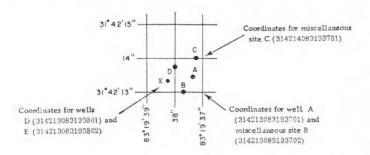


Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude)

#### SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data-collection network designated by the U.S. Geological Survey to meet many of the demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radio-isotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

#### EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

#### Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard text-books, in Water-Supply Paper 888, and in the U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

For a reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is

that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which the figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revisions, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of report.

The type of gage currently in use, the datum of the present gage referred to National Geodetic Vertical Datum, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS" on page 8.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow at the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little

significance. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word ''NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum

discharge for the year. Periods of backwater from an unusual source, of indefinite stage-relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in three tables. The first is a table of annual maximum stage and discharge at crest-stage stations, the second is a table of discharge measurements at miscellaneous sites, and the third is a table of peak elevations at flood-profile partial-record stations.

#### Accuracy of field data and computed results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good", within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

#### Other data available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also, most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

## Records of discharge collected by agencies other than the Geological Survey

Records of discharge not published by the Geological Survey were collected during water year 1977 at sites in Louisiana by the Corps of Engineers, U.S. Army. The National Water Data Exchange, Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintains an index of such sites. Information on records available at specific sites can be obtained upon request.

#### EXPLANATION OF WATER-QUALITY RECORDS

#### Collection and examination of data

Surface-water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives periods of record for the various types of water-quality data (chemical, specific conductance, water temperatures, sediment discharge), extremes of pertinent data, and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

#### Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

#### Organics analyses

Water samples were collected from the Mississippi River to identify and quantify both volatile and semivolatile organic compounds present in the river. Volatile samples collected from the Mississippi were collected from mid-channel at a depth of twenty feet using a standard sewage sampler to minimize aeration. Volatile samples from Big Creek at Pollock were collected at mid-depth of the stream. Samples for semivolatile analysis were collected throughout the water column using a sediment sampler equipped with a teflon nozzle and teflon gaskets. All samples were stored at 4°C unti time of analysis.

Volatile samples were analyzed using the "Bellar" sparging technique. The samples were sparged for 15 minutes with VHP nitrogen onto a Tonax-GC collection trap. The trap was backflushed at 200°C for 5 minutes to desorb the organics onto the chromatographic column.

Semivolatile samples were extracted with dichloromethane at three different pH levels: 1) pH of the sample (neutral extraction), 2) pH of 1 (acid extraction), and 3) ph of 2 (base extraction). The neutral and base extracts were combined for chromatographic analysis.

All samples were analyzed by Gulf South Research Institute, Department of Analytical Chemistry. Analyses were performed using a Hewlett Packard 5982 gas chromatograph/mass spectrometer (GC/MS) system.

#### Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharge.

At stations where recording instruments are used, either mean temperatures or maximum and minimum, temperatures for each day are published.

#### Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers or point samplers. Samples usually are obtained along several vertical lines in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated

on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

#### EXPLANATION OF GROUND-WATER-LEVEL RECORDS

#### Collection of the data

Ground-water-level data from a network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the most important aquifers.

This report updates water-level measurements for wells included in "Water Resources Data for Louisiana, 1975," and "Ground-Water Levels in Louisiana for Wells Measured through 1974," Louisiana Department of Public Works Basic Records Report No. 7. Records for some wells, for which measurements have never been published, are also included.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figure 1.

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet with reference to land-surface datum (1sd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above National Geodetic Vertical Datum of 1929 (NGVD) is given in the well description. Altitudes with zeros in the tenths and hundredths columns are interpolated from topographic maps and are generally accurate only to about 1-5 feet. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day, the end of each month (eom), and for dates when check measurements were made.

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit. In the computer format used in this report, zeroes shown in the hundredths column generally indicate measurements accurate only to tenths.

# PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-one manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office). Prices are subject to change.

- NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".
- 1-D1. Water temperature-influential factors, field measurement, and data presentation, by H. H. Stevens Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages. \$1.60.
- 2-D1. Application of surface geophysics to ground-water investigations, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS-TWRI Book 2, Chapter D1. 1974. 116 pages. \$1.90
- 2-El. Application of borehole geophysics to water-resources investigations, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter El. 1971. 126 pages. \$1.75.
- 3-Al. General field and office procedures for indirect discharge measurements, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter Al. 1967. 30 pages. \$1.00.
- 3-A2. Measurement of peak discharge by the slope-area method, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. \$0.35.
- 3-A3. Measurement of peak discharge at culverts by indirect methods, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. \$0.40.
- 3-A4. Measurement of peak discharge at width contractions by indirect methods, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages. \$1.00
- 3-A5. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. \$0.35.
- 3-A6. General procedure for gaging streams, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6, 1968, 13 pages. \$0.20.
- 3-A7. Stage measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. \$1.40.

4-B3.

# PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

3-A8. Discharge measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8, 1969, 65 pages. \$1.25.

3-All. Measurement of discharge by moving-boat method, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter All. 1969. 22 pages.

\$1.20.

3-A12. Fluorometric procedures for dye tracing, by J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter Al2. 1968. 31 pages. \$0.35. Not currently available.

Aquifer-test design, observation, and data analysis. by R. W. 3-B1. Stallman: USGS--TWRI Book 3, Chapter Bl. 1971. 26 pages. \$0.70.

Fluvial sediment concepts, by H. P. Guy: USGS-TWRI Book 3, 3-C1. Chapter C1. 1970. 55 pages. \$2.50.

Field methods for measurement of fluvial sediment, by H. P. Guy 3-C2. and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages. \$0.70.

Computation of fluvial-sediment discharge, by George Porterfield: 3-C3. USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. \$2.10

Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI 4-A1. Book 4. Chapter Al. 1968. 39 pages. \$1.60.

Frequency curves, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 4-A2. 1968. 15 pages. \$1.20.

Low-flow investigations, by H. C. Riggs: USGS--TWRI Book 4, 4-B1. Chapter B1. 1972. 18 pages. \$0.65.

Storage analyses for water supply, by H. C. Riggs and C. H. 4-B2. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. \$0.75.

Regional analyses of streamflow characteristics, by H. C. Riggs:

USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. \$0.65.

Computation of rate and volume of stream depletion by wells, by 4-D1. C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. \$1.10.

Methods for collection and analysis of water samples for dissolved 5-A1. minerals and gases, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter Al. 1970. 160 pages. \$2.40.

Determination of minor elements in water by emission spectroscopy, 5-A2. by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5,

Chapter A2. 1971. 31 pages. \$0.80.

Methods for analysis of organic substances in water, by D. F. 5-A3. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972.

40 pages. \$0.90.

5-A4. \*Methods for collection and analysis of aquatic biological and microbiological samples, by K. V. Slack, R. C. Averett, P. E. Greeson, and R. G. Lipscomb: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages. \$20.00.

See footnote on next page.

# PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

- 5-C1. Laboratory theory and methods for sediment analysis, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. \$2.10.
- 7-C1. A digital model for aquifer evaluation, by G. F. Pinder: USGS-TWRI Book 7, Chapter C1. 1970. 18 pages. \$0.65.
- 8-Al. Methods of measuring water levels in deep wells, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter Al. 1968. 23 pages. \$0.70.
- 8-B2. Calibration and maintenance of vertical-axis type current meters, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. \$1.10.

\*This publication is available <u>ONLY</u> from Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. It is in looseleaf format and is a subscription item. Additional supplements will be issued to subscribers at no extra cost. Checks should be made payable to Superintendent of Documents. Requester should emphasize to Superintendent of Documents that this is a subscription item.

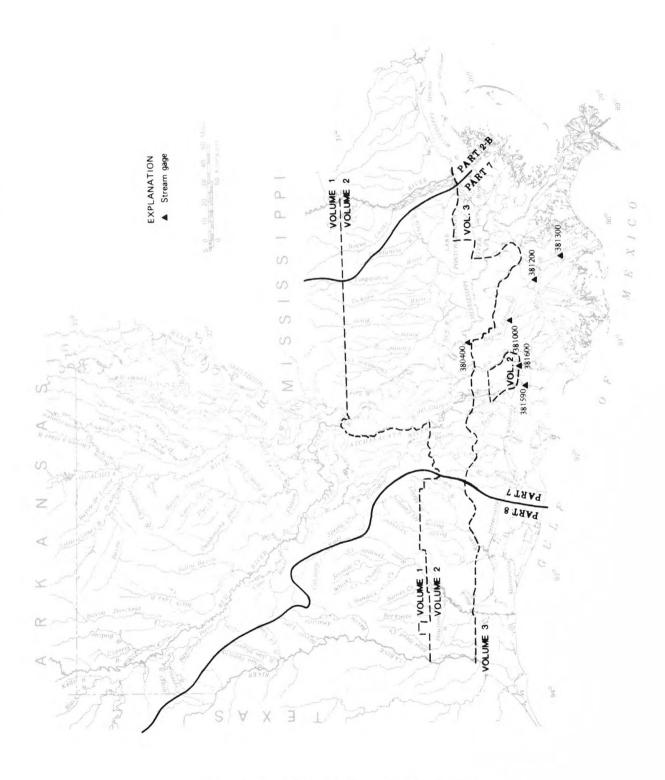


Figure 2. — Location of continuous gaging stations.

Location of water-quality stations.

W

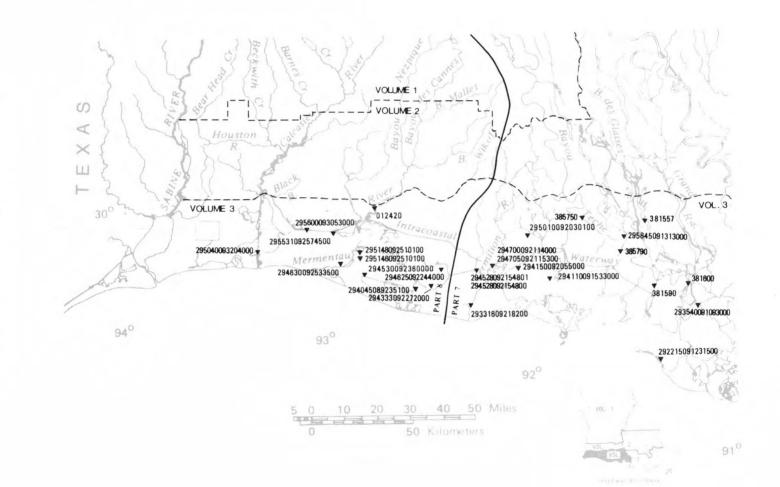


Figure 4. — Location of water-quality stations.

#### MISSISSIPPI RIVER MAIN STEM

#### 07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA

LOCATION.--Lat 29°57'03", long 90°08'17", Jefferson-Orleans Parish line, Hydrologic Unit 08090100, at Carrollton Street Municipal Water Plant intakes, and at mile 103.8 (167.0 km).

DRAINAGE AREA.--1,129,900 mi² (2,926,400 km²), arbitrarily determined.

PERIOD OF RECORD. -- Water years 1905-06, 1951-52, 1954-55, 1967 to current year.

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: August 1954 to September 1955, October 1968 to current year. pH: October 1976 to current year. WATER TEMPERATURES: August 1954 to September 1955, November 1970 to current year. DISSOLVED OXYGEN: October 1968 to current year.

INSTRUMENTATION. -- Water-quality monitor since October 1968.

EXTREMES FOR PERIOD OF DAILY RECORD. --

REMES FOR PERIOD OF DAILY RECORD, -SPECIFIC CONDUCTANCE: Maximum, 630 micromhos Sep. 20, 1969; minimum, 200 micromhos May 1, 1975.
pH: Maximum, 7.9 units several days during fall and winter 1976; minimum, 7.2 units June 13, 14.
WATER TEMPERATURES: Maximum, 32.0°C July 27-Aug. 2, 1977; minimum, 1.5°C Feb. 6-14, 1978.
DISSOLVED OXYGEN: Maximum, 13.9 mg/L Feb. 23, 24, 1976; minimum, 3.8 mg/L July 23, Aug. 1, 1969, Aug. 26, 1977.

SPECIFIC CONDUCTANCE: Maximum, 589 micromhos July 3, 4; minimum, 217 micromhos Apr. 27. pH: Maximum, 7.8 units several days in January, Aug. 10; minimum, 7.2 units June 13, 14. WATER TEMPERATURES: Maximum, 31.5°C Aug. 9; minimum, 1.5°C Feb. 6-14.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN; DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM: FECAL: 0.7 UM-MF (COLS:/ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS; DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CACO3)
OCT												
14 NOV	1115	375	7.7	21.0	10	70	7.3	1.8	K3000	430	140	35
09	1315	430	7.7	17.5	0	60	8.3	1.5	620	2800	180	54
DEC	1515	210	7.0		2.5				72.282	424		
06 JAN	1515	310	7.8	11.5	35	80	9.6	3.2	K1200	840	130	37
18	0945	381	7.9	3.5	10	70	13.3	3.9	K550	K750	160	59
FEB												-
10	0815	293	7.8	1.5	30	60	12.8	4.3	210		120	42
MAR 08	1515	382	7.6	5.5	15	40	11.4	2.2		800	140	44
APR	1515	302		3.3	15	40	11.4	2.2		800	140	44
13	1445	325	7.4	14.5		80	7.7	3.2	K650		119	37
MAY												
09	1530	387	7.7	17.5	10	130	8.0	2.5	380	2600	150	47
JUN	1225	270	7.0	25.		- 45	11000	1/16			7740	
07 JUL	1335	378	7.2	25.0	30	65	6.7	1.5	390	K1200	150	48
11	0815	472	7.9	31.0	5	25	6.3	.0		820	170	53
AUG	0015	712		31.0	2	25	0.3	• 0	11.22	020	170	- 53
16	1515	414	7.4	29.5	15	60	7.2	1.7	380	2300	154	43
SEP												
12	1530	459	7.4	29.0	5	15	7.3	. 7	K200	120	170	31

K Results based on colony count outside the acceptable range (non-ideal colony count).

# MISSISSIPPI RIVER MAIN STEM

# 07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA--Continued

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 14	37	11	20	23	.7	3.9	128	0	105	56	23
NOV 09	47	14	21	20	.7	3.4	154	0	126	55	22
DEC	35	9.7	15	20	.6	3.3	110	0	90	38	15
06 JAN		7.5	10.0						V.7		
18 FEB	44	12	15	17	.5	2.8	123	0	101	50	25
10 MAR	33	8.8	12	18	.5	2.2	95	0	78	37	18
08 APR	39	11	19	22	.7	2.3	117	0	96	46	25
13	36	7.1	13	19	•5	3.5	102	0	84	41	18
MAY 09	40	12	14	17	.5	3.5	126	0	103	44	17
JUN 07	42	12	15	17	.5	3.2	130	0	110	49	21
JUL 11	45	15	27	25	.9	3.4	148	0	120	61	34
AUG 16	42	12	18	20	.6	3.6	135	0	111	50	22
SEP											25
12	47	13	30	27	1.0	3.4	170	0	140	71	25
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS S102)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN:AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GE TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
ост	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	DIS- SOLVED (TONS PER AC-FT)	GEN; NO2+NO3 TOTAL (MG/L AS N)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	GEN, TOTAL (MG/L AS N)	GEL., TOTAL (MG/L AS NO3)	PHORUS, TOTAL (MG/L AS P)	ORGANIC TOTAL (MG/L AS C)
	RIDE, DIS- SOLVED (MG/L	DIS- SOLVED (MG/L AS	RESIDUE AT 180 DEG. C DIS- SOLVED	SUM OF CONSTI- TUENTS, DIS- SOLVED	DIS- SOLVED (TONS PER	GEN: NO2+NO3 TOTAL (MG/L	GEN, AM- MONIA + ORGANIC TOTAL (MG/L	GEN. TOTAL (MG/L	GE TOTAL (MG/L	PHORUS, TOTAL (MG/L	ORGANIC TOTAL (MG/L
OCT 14 NOV 09	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	DIS- SOLVED (TONS PER AC-FT)	GEN; NO2+NO3 TOTAL (MG/L AS N)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	GEN, TOTAL (MG/L AS N)	GE TOTAL (MG/L AS NO3)	PHORUS, TOTAL (MG/L AS P)	ORGANIC TOTAL (MG/L AS C)
OCT 14 NOV 09 DEC 06	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	DIS- SOLVED (TONS PER AC-FT)	GEN, NO2+NO3 TOTAL (MG/L AS N)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	GEN, TOTAL (MG/L AS N)	GEL., TOTAL (MG/L AS NO3)	PHORUS, TOTAL (MG/L AS P)	ORGANIC TOTAL (MG/L AS C)
OCT 14 NOV 09 DEC 06 JAN 18	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS S102) 7.7 7.5	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) 293	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	DIS- SOLVED (TONS PER AC-FT)	GEN, NO2+NO3 TOTAL (MG/L AS N)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	GEN. TOTAL (MG/L AS N) 1.8 2.1	GEL., TOTAL (MG/L AS NO3) 8.1 9.3	PHORUS, TOTAL (MG/L AS P)	ORGANIC TOTAL (MG/L AS C)
OCT 14 NOV 09 DEC 06 JAN 18 FEB 10	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS S102) 7.7 7.5	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) 293 243	SUM OF CONSTI- TUENTS, UIS- SOLVED (MG/L) 222 246	DIS- SOLVED (TONS PER AC-FT) .40 .33	GEN+ NO2+NO3 TOTAL (MG/L AS N) 1.1 1.6	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) .73 .50	GEN, TOTAL (MG/L AS N) 1.8 2.1	GE TOTAL (MG/L AS NO3) 8.1 9.3 8.5	PHORUS, TOTAL (MG/L AS P) .32 .27	ORGANIC TOTAL (MG/L AS C)
OCT 14 NOV 09 DEC 06 JAN 18 FEB 10 MAR 08	RIDE- DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2) 7.7 7.5 7.1	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) 293 243 174 217	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) 222 246 178 218	DIS- SOLVED (TONS PER AC-FT) .40 .33 .24	GEN+ N02+N03 TOTAL (MG/L AS N) 1.1 1.6 1.3	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) .73 .50 .62	GEN. TOTAL (MG/L AS N) 1.8 2.1 1.9 2.0	GE TOTAL (MG/L AS NU3) 8.1 9.3 8.5 8.9	PHORUS, TOTAL (MG/L AS P) .32 .27 .06	ORGANIC TOTAL (MG/L AS C)
OCT 14 NOV 09 DEC 06 JAN 18 FEB 10 MAR 08 APR 13	RIDE, DIS- SOLVED (MG/L AS F)  .3 .2 .3 .1	DIS- SOLVED (MG/L AS S102) 7.7 7.5 7.1 7.9 6.6	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) 293 243 174 217 161	SUM OF CONSTI- TUENTS. DIS- SOLVED (MG/L) 222 246 178 218	DIS- SOLVED (TONS PER AC-FT) .40 .33 .24 .30	GEN+ NO2+NO3 TOTAL (MG/L AS N) 1.1 1.6 1.3 1.8	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) .73 .50 .62 .20	GEN• TOTAL (MG/L AS N) 1.8 2.1 1.9 2.0	GE TOTAL (MG/L AS NO3)  8.1 9.3 8.5 8.9	PHORUS, TOTAL (MG/L AS P) .32 .27 .06 .42 .28	ORGANIC TOTAL (MG/L AS C)
OCT 14 NOV 09 DEC 06 JAN 18 FEB 10 MAR 08 APR 13 MAY	RIDE, DIS- SOLVED (MG/L AS F)  .3 .2 .3 .3 .1	7.1 7.1 7.1 7.1 7.1	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) 293 243 174 217 161 210	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) 222 246 178 218 164 208	DIS- SOLVED (TONS PER AC-FT) .40 .33 .24 .30 .22	GEN+ NO2+NO3 TOTAL (MG/L AS N) 1.1 1.6 1.3 1.8 1.1	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) .73 .50 .62 .20 .75	GEN. TOTAL (MG/L AS N) 1.8 2.1 1.9 2.0 1.9	GE TOTAL (MG/L AS NO3)  8.1  9.3  8.5  8.9  8.2  8.4	PHORUS, TOTAL (MG/L AS P) .32 .27 .06 .42 .28	ORGANIC TOTAL (MG/L AS C)
OCT 14 NOV 09 DEC 06 JAN 18 FEB 10 MAR 08 APR 13 MAY 09 JUN 07	RIDE- DIS- SOLVED (MG/L AS F)  .3 .2 .3 .3 .1 .5	7.7 7.5 7.1 7.9 6.6 7.1	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) 293 243 174 217 161 210	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) 222 246 178 218 164 208	DIS- SOLVED (TONS PER AC-FT) .40 .33 .24 .30 .22 .29	GEN+ NO2+NO3 TOTAL (MG/L AS N) 1.1 1.6 1.3 1.8 1.1 1.2 2.0	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) .73 .50 .62 .20 .75 .69	GEN. TOTAL (MG/L AS N) 1.8 2.1 1.9 2.0 1.9 1.9	GE TOTAL (MG/L AS NO3)  8.1  9.3  8.5  8.9  8.2  8.4	PHORUS, TOTAL (MG/L AS P) .32 .27 .06 .42 .28 .31	ORGANIC TOTAL (MG/L AS C)
OCT 14 NOV 09 DEC 06 JAN 18 FEB 10 MAR 08 APR 13 MO9 JUN 07 JUN	RIDE, DIS- SOLVED (MG/L AS F)  .3 .2 .3 .1 .5 .2 .2	7.7 7.5 7.1 7.9 6.6 7.1 7.0	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) 293 243 174 217 161 210 177 205 219	SUM OF CONSTI- TUENTS. DIS- SOLVED (MG/L) 222 246 178 218 164 208 176	DIS- SOLVED (TONS PER AC-FT) .40 .33 .24 .30 .22 .29 .24 .28	GEN+ NO2+NO3 TOTAL (MG/L AS N) 1.1 1.6 1.3 1.8 1.1 1.2 2.0 1.7	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)  .73 .50 .62 .20 .75 .69 .83 .94 .54	GEN. TOTAL (MG/L AS N) 1.8 2.1 1.9 2.0 1.9 2.8 2.8 2.6 2.3	GE TOTAL (MG/L AS NO3)  8.1 9.3 8.5 8.9 8.2 8.4 13	PHORUS, TOTAL (MG/L AS P) .32 .27 .06 .42 .28 .31 .21	ORGANIC TOTAL (MG/L AS C)
OCT 14 NOV 09 DEC 06 JAN 18 FEB 10 MAR 08 APR 13 MAY 09 JUL 11 AUG	RIDE, DIS- SOLVED (MG/L AS F)  .3 .2 .3 .1 .5 .2 .2 .3	7.7 7.5 7.1 7.9 6.6 7.1 7.0 4.8	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) 293 243 174 217 161 210 177 205 219	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) 222 246 178 218 164 208 176 200 214	DIS- SOLVED (TONS PER AC-FT) .40 .33 .24 .30 .22 .29 .24 .28	GEN+ NO2+NO3 TOTAL (MG/L AS N) 1.1 1.6 1.3 1.8 1.1 1.2 2.0 1.7 1.8	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) .73 .50 .62 .20 .75 .69 .83 .94 .54	GEN. TOTAL (MG/L AS N) 1.8 2.1 1.9 2.0 1.9 2.8 2.6 2.3	GE, TOTAL (MG/L AS NO3) 8.1 9.3 8.5 8.9 8.2 8.4 13 12 10	PHORUS, TOTAL (MG/L AS P) .32 .27 .06 .42 .28 .31 .21 .33 .22	ORGANIC TOTAL (MG/L AS C)
OCT 14 NOV 09 DEC 06 JAN 18 FEB 10 MAR 08 APR 13 MAY 09 JUN 07 JUN	RIDE, DIS- SOLVED (MG/L AS F)  .3 .2 .3 .1 .5 .2 .2	7.7 7.5 7.1 7.9 6.6 7.1 7.0	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) 293 243 174 217 161 210 177 205 219	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) 222 246 178 218 164 208 176 200 214	DIS- SOLVED (TONS PER AC-FT) .40 .33 .24 .30 .22 .29 .24 .28	GEN+ NO2+NO3 TOTAL (MG/L AS N) 1.1 1.6 1.3 1.8 1.1 1.2 2.0 1.7	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)  .73 .50 .62 .20 .75 .69 .83 .94 .54	GEN. TOTAL (MG/L AS N) 1.8 2.1 1.9 2.0 1.9 2.8 2.8 2.6 2.3	GE TOTAL (MG/L AS NO3)  8.1  9.3  8.5  8.9  8.2  8.4  13  12	PHORUS, TOTAL (MG/L AS P) .32 .27 .06 .42 .28 .31 .21	ORGANIC TOTAL (MG/L AS C)

## MISSISSIPPI RIVER MAIN STEM

# 07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT. SUS- PENDED RECUV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER+ TOTAL RECOV- ERABLE (UG/L AS CU)
OCT 14	2	<10	<9	1	4	4		<50	<50	0	20
JUL 11	2			1			0				
	_			100							
DATE	COPPER+ SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON; TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD+ TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
OCT	16	4	5600	20	<100	<97	3	280	280	0	
14	16	5	5600	50			5			0	• 0
11		5		50							
DATE	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN+ TOTAL (UG/L)
OCT 14	.0	U	40	10	30				.0	.00	.00
JUL 11					20	5.1	.00	0	.0	.00	.00
CI D.	OTAL T	OTAL TO	TAL TO	DT AZI	NON , EL	DRIN SUL	TAL TO	TAL TO	TION CHION	EPTA- CH HLOR, EPO OTAL TO	PTA- LOR XIDE LINDANE TAL TOTAL G/L) (UG/L)
OCT 14	• 0	.00	•00	.00	.01	.00		.00	.00	.00	.00
NOV 09	-12										
11	.0	.00	•00	.00	.00	.00	.00	.00	.00	.00	.00
DATE	MALA- THION, TOTAL (UG/L)	TOTAL	METHYL TRI- THION, TOTAL (UG/L)	MIREX. TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2•4•5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)
ост				00	0.0	0	.00	.00	.00	.00	
14			.00		.00						2400
JUL	12/2					0		.01			
11	.00	.00	.00	.00	.00	U	.00	.01			

<sup>&</sup>lt; Actual value is known to be less than the value shown.

## MISSISSIPPI RIVER MAIN STEM

# 07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN										
	001	TOBER	NOVE	EMBER	DECE	MBER	JAN	NUARY	FEBR	RUARY	МА	ARCH
1			388	381			357	346	309	302	364	358
2			395	387			368	357	309	301	374	364
3			410	400			362	360	302	291	374	369
4			412	410			362	356	295	289	374	370
5			428	416			370	358	293	289	384	371
6			431	425			381	368	308	294	386	373
7			434	429 431			388 390	378 377	310 293	292 287	384 386	377 378
8			443 452	443			386	378	290	284	388	381
10			474	456			389	379	297	285	386	379
11			476	461			395	387	307	298	394	390
12			466	432			397	393	305	302	409	392
13			436	424			399	392	302	284	409	401
14			431	419	337	331	397	387 392	282	269 263	403 393	394 388
15			422	415	342	334	400	376	209	203	393	
16 17			437 451	422	333 330	328 323	400	393 397	270 275	262 268	395 398	389 388
18	371	365	447	420	323	320	395	377	290	273	396	387
19	381	371	418	395	320	316	376	367	310	289	392	387
20	382	375	394	379	320	314	376	368	319	308	400	390
21	381	373	384	380	336	304	375	368	333	316	391	381
22	377	372	390	383	312	307	367	350	346	334	386	380
23	382	377	396	390	309	306	349	329	348	342	386	374 371
24 25	387 393	382 386	405	392 405	314 316	308 313	332 321	320 316	361 366	348 355	380 376	367
26	391	- 387	427	418	323	315	315	306	367	358	371	366
27	388	384	444	428	328	322	309	301	370	362	379	372
28	386	380	442	433	342	327	307	286	360	356	378	361
29	388	377	432	420	350	341	288	283			360	349
30	387	384	418	393	343	340	298	288			348 338	336 334
31	391	388			349	340	302	298				
MONTH	393	365	476	379	350	304	404	283	370	262	409	334
DAY	MAX	MIN										
	AP	RIL		YAY	JU	JNE	JU	JLY	AUG	SUST	SEPT	TEMBER
1	340	336	242	239	352	339	555	523	410	406	427	418
2	340	336	250	247	357	352	583	546	418	407	420	408
3	337	332	258	255	374	359	589	568	420	412	429	408
5	332 329	328 325	265 272	261 269	386 404	375 388	589 576	575 566	431 426	418 418	442 429	429
6	324	320	276	272	416	408	559	553	420	415	422	416
7	322	318	279	273	417	414	559	550	424	416	436	419
8	322	320	284	281	421	417	550	535	418	406	442	433
9	329	323	293	291	431	421	530	526	416	393	460	440
10	331	327	302	297			520	514	422	404	469	460
11	335	331	304	296			514	503	430	421		
12	336	334	314	309	454		504	492	440	429	445	433
13	336 341	334 335	330 343	320 338	454 465	446 453	487 467	477 459	423	424 386	451	430
15	341	339	347	341	465	458	456	447	387	372	431	423
16	345	339	348	339	479	465	454	441			432	428
17	346	344	346	342	490	472	461	443			438	430
18	356	347	353	350	498	489	468	457			443	434
19	355	351	361	350	507	495	463	454			454	443
20	362	355	350	342	521	508	454	420			457	450
21	346	300	341	336	528	520	418	402 397			456	442
22 23	293 285	274 264	336 334	330 326	538 532	526 523	405 416	401			450	438
24	275	261	326	323	528	517					465	447
25	262	244	324	321	528	517					484	467
26	245	234	320	316	521	497					489	482
27	235	217	322	316	510	498						
28	228	222	327	318	507 523	497 500	409	398 397				
29 30	229 235	226	329 333	323 325	532	508	412	404	422	416		
31			342	329			411	405	425	419		
MONTH	362	217	361	239	538	339	589	397	440	372	489	408

# MISSISSIPPI RIVER MAIN STEM

# 07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA--Continued

PH (UNITS), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	oc.	TOBER	NOV	EMBER	DEC	EMBER	JAI	NUARY	FEBR	RUARY	м	ARCH
1 2 3		===	7.6 7.7 7.7	7.6 7.6 7.6			7.7 7.7 7.7	7.6 7.6 7.6	7.6 7.5 7.5	7.5 7.5 7.5	7.6 7.6 7.6	7.6 7.6 7.5
5			7.7	7.6 7.7	===	===	7.7 7.7	7.6	7.5 7.5	7.5 7.5	7.5 7.6	7.5 7.5
6 7			7.7	7.6 7.7			7.7	7.7 7.7	7.5 7.5	7.5 7.5	7.6 7.6	7.6 7.6
8			7.7	7.7 7.7			7.7	7.7	7.5	7.5 7.5	7.6	7.6
10			7.6	7.6			7.8	7.7	7.5	7.4	7.7	7.6
11			7.6	7.6 7.5			7.7 7.8	7.7	7.5 7.5	7.4	7.6 7.6	7.6 7.6
13 14			7.5 7.5	7.5 7.5	7.6	7.6	7.8 7.8	7.7	7.5 7.5	7.4	7.6	7.6 7.5
15			7.5	7.5	7.6	7.6	7.8	7.8	7.5	7.4	7.6 7.6	7.5
16 17			7.5 7.6	7.5 7.5	7.6 7.5	7.5 7.5	7.8 7.8	7.8 7.8	7.5 7.5	7.4	7.6 7.6	7.6
18	7.6	7.6	7.6	7.5	7.6	7.5	7.8	7.7	7.5	7.5	7.6	7.5
19 20	7.6 7.6	7.6 7.6	7.6 7.6	7.5 7.5	7.6 7.6	7.5 7.5	7.8 7.8	7.8 7.7	7.5 7.6	7.5 7.5	7.6 7.6	7.5 7.5
21	7.6	7.4	7.6	7.6	7.6	7.5	7.8	7.8	7.6	7.6	7.5	7.5
22	7.6	7.6 7.5	7.6 7.6	7.6 7.5	7.5 7.6	7.5 7.5	7.8 7.8	7.8	7.6 7.6	7.6 7.6	7.5 7.5	7.5 7.5
24 25	7.6	7.6	7.6 7.6	7.6 7.6	7.6 7.6	7.5	7.7	7.7	7.7	7.6	7.5 7.5	7.5 7.5
26	7.6	7.6	7.6	7.6	7.6	7.6	7.7	7.7	7.6	7.6	7.5	7.5
27 28	7.6	7.6	7.6	7.6	7.6	7.6	7.7	7.6	7.6	7.6	7.5	7.5
29	7.6	7.5	7.6	7.6	7.6	7.6	7.6 7.6	7.6 7.6	7.6	7.6	7.5 7.4	7.4
30 31	7.6 7.6	7.5	7.6	7.5	7.6 7.6	7.6	7.6 7.6	7.5 7.5			7.4	7.4 7.3
MONTH	7.6	7.4	7.7	7.5	7.6	7.5	7.8	7.5	7.7	7.4	7.7	7.3
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	AP	RIL	м	AY	JU	NE	JU	LY	AUG	UST	SEPT	EMBER
1 2	7.3 7.3	7.3 7.3	7.5	7.5 7.5	7.4	7.4	7.4	7.4	7.5	7.4	7.6	7.6
3	7.3	7.3	7.5 7.5	7.5	7.4	7.4	7.4 7.5	7.4	7.5 7.5	7.5 7.4	7.6	7.5 7.5
4 5	7.3 7.3	7.3	7.5 7.5	7.5 7.5	7.4	7.4	7.5 7.5	7.4	7.5 7.5	7.4	7.6 7.5	7.6 7.5
6											1.5	
7 8	7.3	7.3	7.5	7.5	7.4	7.4	7.5	7.5	7.5	7.5	7.5	7.5
	7.3 7.3 7.3	7.3 7.3 7.3	7.5 7.5 7.5	7.5 7.5 7.5	7.4 7.4 7.4	7.4 7.4	7.5 7.5	7.5	7.5 7.5	7.5 7.5	7.5 7.6	7.5
10	7.3	7.3	7.5	7.5	7.4	7.4	7.5	7.5 7.5 7.5	7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5	7.5 7.6 7.6 7.6	7.5 7.6 7.6
	7.3 7.3 7.3	7.3 7.3 7.3	7.5 7.5 7.5	7.5 7.5 7.5	7.4 7.4 7.3	7.4 7.4 7.3 7.3	7.5 7.5 7.5 7.5	7.5 7.5	7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5	7.5 7.6 7.6	7.5 7.6
10 11 12	7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.3 	7.4 7.4 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.8	7.5 7.5 7.5 7.5 7.5 7.3	7.5 7.6 7.6 7.6 7.6	7.5 7.6 7.6 7.6
10 11 12 13 14	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.4 7.5 7.5 7.5	7.4 7.4 7.3  7.3 7.3	7.4 7.4 7.3 7.3  7.2 7.2	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.4 7.4	7.5 7.5 7.5 7.5 7.5 7.8 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.3 7.5 7.5 7.5 7.5	7.5 7.6 7.6 7.6 7.6 7.6	7.5 7.6 7.6 7.6 7.6
10 11 12 13 14 15	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.4 7.5 7.5 7.5	7.4 7.4 7.3  7.3 7.3 7.3	7.4 7.4 7.3 7.3  7.2 7.2 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.4 7.4	7.5 7.5 7.5 7.5 7.8 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.6 7.6 7.6 7.6 7.6	7.5 7.6 7.6 7.6 7.5 7.5 7.5
10 11 12 13 14 15	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.3  7.3 7.3 7.3 7.3	7.4 7.4 7.3 7.3 7.3 7.2 7.2 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.4 7.4	7.5 7.5 7.5 7.5 7.5 7.5 7.4 7.4 7.3	7.5 7.5 7.5 7.5 7.5 7.8 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.3 7.5 7.5 7.5 7.5	7.5 7.6 7.6 7.6 7.6 7.6	7.5 7.6 7.6 7.6 7.5 7.5 7.5 7.5
10 11 12 13 14 15	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.3  7.3 7.3 7.3 7.3 7.3	7.4 7.4 7.3 7.3 7.3 7.2 7.2 7.2 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.4 7.4 7.5	7.5 7.5 7.5 7.5 7.5 7.4 7.4 7.4 7.4	7.5 7.5 7.5 7.5 7.8 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	7.5 7.6 7.6 7.6 7.5 7.5 7.6 7.5 7.6
10 11 12 13 14 15	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.3  7.3 7.3 7.3 7.3	7.4 7.4 7.3 7.3 7.3 7.2 7.2 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.4 7.4	7.5 7.5 7.5 7.5 7.5 7.5 7.4 7.4 7.3	7.5 7.5 7.5 7.5 7.8 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	7.5 7.6 7.6 7.6 7.5 7.5 7.5 7.5
10 11 12 13 14 15 16 17 18 19 20	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.3  7.3 7.3 7.3 7.3 7.3 7.4 7.4	7.4 7.4 7.3 7.3 7.3 7.2 7.2 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.4 7.4 7.4 7.4 7.4 7.4	7.5 7.5 7.5 7.5 7.8 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	7.5 7.6 7.6 7.6 7.5 7.5 7.6 7.5 7.6 7.6 7.6
10 11 12 13 14 15 16 17 18 19 20 21 22 23	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.3  7.3 7.3 7.3 7.3 7.4 7.4 7.4	7.4 7.4 7.3 7.3 7.3 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.4 7.4 7.4 7.4 7.4 7.5 7.4 7.4 7.4	7.5 7.5 7.5 7.5 7.8 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	7.5 7.6 7.6 7.6 7.5 7.5 7.6 7.5 7.6 7.6 7.6 7.6
10 11 12 13 14 15 16 17 18 19 20	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.3  7.3 7.3 7.3 7.4 7.4 7.4 7.4	7.4 7.4 7.3 7.3 7.3 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.4 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.4 7.4 7.4 7.4 7.4 7.4	7.5 7.5 7.5 7.5 7.8 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	7.5 7.6 7.6 7.6 7.5 7.5 7.6 7.5 7.6 7.6 7.5
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.5 7.5	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.3  7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.3	7.4 7.4 7.3 7.3 7.3 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.4 7.4 7.4 7.4 7.5 7.4 7.4 7.4 7.4	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	7.5 7.6 7.6 7.6 7.5 7.5 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.5
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.5 7.5	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.3  7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.5	7.4 7.4 7.3 7.3 7.3 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.4 7.4 7.4 7.4 7.4 7.4 7.4	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	7.5 7.6 7.6 7.6 7.5 7.5 7.6 7.5 7.6 7.6 7.5 7.6 7.5
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.5 7.5 7.5	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.3  7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.5 7.5	7.4 7.4 7.3 7.3 7.3 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	7.5 7.6 7.6 7.6 7.5 7.5 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.6 7.6
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.5 7.5 7.5	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	7.4 7.4 7.3 7.3 7.3 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	7.5 7.6 7.6 7.6 7.5 7.6 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6

# MISSISSIPPI RIVER MAIN STEM

# 07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA--Continued

# TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	oc	TOBER	NOV	EMBER	DEC	EMBER	JAL	NUARY	FEB	RUARY	м	ARCH
			10.0	10.0					0.6	2.5		
1			18.0	18.0			5.5 5.5	5.5	2.5	2.5	5.5	5.0
3			18.0	17.5			5.5	5.0	2.0	2.0	5.5	5.5
4			18.0	17.5			5.5	4.5	2.0	2.0	6.0	5.5
5			17.5	17.5			5.0	4.5	2.0	2.0	6.0	5.5
6			17.5	17.5			5.0	4.5	2.0	1.5	6.0	6.0
7			17.5	17.0			5.0	4.5	2.0	1.5	6.0	6.0
8			17.5 17.5	17.5 17.0			5.0	4.5	1.5	1.5	6.0	6.0
10			17.0	16.5			5.0	5.0	1.5	1.5	6.0	5.5
11			17.0	16.5			5.0	5.0	1.5	1.5	6.5	6.0
12			17.0	16.5			5.5	5.0	2.0	1.5	6.5	6.5
13			17.0	16.5			5.0	5.0	2.0	1.5	7.0	6.5
14 15			16.5	16.5	8.5	8.0	5.0 4.5	4.5	2.0	2.0	7.0 7.5	6.5 7.0
16 17			16.0	16.0 16.0	8.0	7.5 7.5	5.0 4.5	4.0 3.5	2.5	2.0	7.5 7.5	7.0
18	19.5	19.5	16.0	15.5	7.5	7.0	3.5	3.5	2.5	2.5	8.0	7.5
19	19.5	19.0	15.5	15.5	7.5	7.0	3.5	3.0	3.5	2.5	8.5	8.0
20	19.5	19.0	15.5	15.5	7.5	7.0	3.0	2.5	3.0	2.5	8.5	8.0
21	19.0	19.0	15.5	15.0	7.5	7.0	2.5	2.0	3.5	3.0	8.5	8.0
22	19.0	18.5	15.0	15.0	7.5	7.0	2.0	2.0	3.5	2.5	8.5	8.0
23	18.5	18.5	15.0	14.5	7.5	7.0	2.0	2.0	3.5	3.0	8.5	8.0
24 25	18.5	18.0	15.0 14.5	14.5	7.0 7.5	7.0 6.5	2.5	2.0	4.0	3.0	8.5 9.0	8.5
26	18.0	17.5	14.0	13.5	7.5	7.0	2.5	2.0	4.0	3.5	9.0	8.5
27	18.0	17.5	14.0	13.5	7.5	7.0	2.5	2.0	4.5	3.5	9.0	8.5
28	18.0	17.5	14.0	13.5	7.0	6.5	3.0	2.5	5.5	5.0	8.5	8.5
29	18.0	17.5	14.0	13.5	6.5	6.0	3.0	2.5			8.5	8.5
30	18.0	17.5	13.5	13.0	6.0	6.0	3.0	2.5			8.5	8.5
31	18.0	17.5			6.0	5.5	2.5	2.5			9.0	8.5
MONTH	19.5	17.5	18.0	13.0	8.5	5.5	5.5	2.0	5.5	1.5	9.0	5.0
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
DAY												
	Al	PRIL		MAY	J	UNE	JI	ULY	AU	gųst	SEP	TEMBER
1	9.5	PRIL 9.0	17.0	MAY 17.0	JI 22.5	UNE 22.0	JI 29.0	ULY 28.5	AU0 30.0	GUST 29.5	SEP 29.5	TEMBER 29.0
1	9.5 9.5	9.0 9.0	17.0 17.0	17.0 17.0	22.5 23.0	22.0 22.5	29.0 29.0	28.5 28.5	30.0 30.0	29.5 29.5	SEP 29.5 29.0	29.0 28.5
1 2 3	9.5 9.5 10.0	9.0 9.0 9.5	17.0 17.0 17.0	17.0 17.0 17.0	22.5 23.0 23.0	22.0 22.5 22.5	29.0 29.0 29.5	28.5 28.5 29.0	30.0 30.0 30.5	29.5 29.5 29.5 29.5	SEP 29.5 29.0 29.0	29.0 28.5 28.5
1	9.5 9.5	9.0 9.0	17.0 17.0	17.0 17.0	22.5 23.0	22.0 22.5	29.0 29.0	28.5 28.5	30.0 30.0	29.5 29.5	SEP 29.5 29.0	TEMBER 29.0 28.5
1 2 3 4 5	9.5 9.5 10.0 10.5	9.0 9.0 9.5 9.5	17.0 17.0 17.0 17.0 16.5	17.0 17.0 17.0 16.5 16.5	22.5 23.0 23.0 23.5 24.0	22.0 22.5 22.5 23.0 23.5	29.0 29.0 29.5 29.5 29.5	28.5 28.5 29.0 29.0 29.5	30.0 30.0 30.5 30.5 30.5	29.5 29.5 29.5 30.0 30.0	SEP 29.5 29.0 29.0 29.0	29.0 28.5 28.5 28.5 28.5
1 2 3 4 5	9.5 9.5 10.0 10.5 10.5	9.0 9.0 9.5 9.5	17.0 17.0 17.0 17.0 16.5	17.0 17.0 17.0 17.0 16.5 16.5	22.5 23.0 23.0 23.5	22.0 22.5 22.5 23.0 23.5 24.0 24.0	29.0 29.0 29.5 29.5 29.5 29.5	28.5 28.5 29.0 29.0 29.5	30.0 30.0 30.5 30.5 30.5 30.5	29.5 29.5 29.5 30.0 30.0	SEP 29.5 29.0 29.0 29.0 29.0 29.0	29.0 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5	9.5 9.5 10.0 10.5 10.5	9.0 9.0 9.5 9.5 10.0	17.0 17.0 17.0 17.0 16.5 16.5 16.5	17.0 17.0 17.0 16.5 16.5	22.5 23.0 23.0 23.5 24.0 24.0 24.5 24.5	22.0 22.5 22.5 23.5 23.5 24.0 24.0 24.5	29.0 29.0 29.5 29.5 29.5 30.0 30.0	28.5 28.5 29.0 29.0 29.5 29.5	30.0 30.0 30.5 30.5 30.5 30.5	29.5 29.5 29.5 30.0 30.0 30.0	SEP 29.5 29.0 29.0 29.0 29.0 29.0 29.0	29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8 9	9.5 9.5 10.0 10.5 10.5 11.0 11.5 12.0 12.5	9.0 9.0 9.5 9.5 10.0 10.5 11.0 11.5 12.0	17.0 17.0 17.0 17.0 16.5 16.5 16.5 17.0	17.0 17.0 17.0 16.5 16.5 16.5	22.5 23.0 23.0 23.5 24.0 24.0 24.5 24.5	22.0 22.5 22.5 23.0 23.5 24.0 24.0 24.5 24.5	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5	AU.0 30.0 30.5 30.5 30.5 30.5 29.5 29.5	GUST  29.5 29.5 29.5 30.0 30.0 30.0 29.5 28.5 27.5	SEP 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5	9.5 9.5 10.0 10.5 10.5	9.0 9.0 9.5 9.5 10.0	17.0 17.0 17.0 17.0 16.5 16.5 16.5	17.0 17.0 17.0 16.5 16.5	22.5 23.0 23.0 23.5 24.0 24.0 24.5 24.5	22.0 22.5 22.5 23.5 23.5 24.0 24.0 24.5	29.0 29.0 29.5 29.5 29.5 30.0 30.0	28.5 28.5 29.0 29.0 29.5 29.5	30.0 30.0 30.5 30.5 30.5 30.5	29.5 29.5 29.5 30.0 30.0 30.0	SEP 29.5 29.0 29.0 29.0 29.0 29.0 29.0	29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8 9 10	9.5 9.5 10.0 10.5 10.5 11.0 11.5 12.0 12.5 13.5	9.0 9.0 9.5 9.5 10.0 10.5 11.0 11.5 12.0 13.0	17.0 17.0 17.0 17.0 16.5 16.5 16.5 17.0 17.0	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5	22.5 23.0 23.5 24.0 24.5 24.5	22.0 22.5 22.5 23.0 23.5 24.0 24.0 24.5 24.5	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 30.0 30.0	30.0 30.0 30.5 30.5 30.5 30.5 30.5 30.5	29.5 29.5 29.5 30.0 30.0 30.0 29.5 28.5 27.5 24.0	SEP 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8 9 10	9.5 9.5 10.0 10.5 10.5 11.0 11.5 12.0 12.5 13.5	9.0 9.0 9.5 9.5 10.0 10.5 11.0 11.5 12.0 13.0	17.0 17.0 17.0 17.0 16.5 16.5 17.0 17.0 17.0	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5	22.5 23.0 23.0 23.5 24.0 24.5 24.5	22.0 22.5 22.5 23.0 23.5 24.0 24.0 24.5 24.5	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 29.5 30.0 30.0	30.0 30.0 30.5 30.5 30.5 30.5 30.5 29.5 29.5 29.5 29.5	29.5 29.5 29.5 30.0 30.0 30.0 29.5 28.5 27.5 24.0	SEP 29.5 29.0 29.0 29.0 29.0 29.0 28.5 28.5	29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8 9 10	9.5 9.5 10.0 10.5 10.5 11.0 11.5 12.0 12.5 13.5	9.0 9.0 9.5 9.5 10.0 10.5 11.0 11.5 12.0 13.0	17.0 17.0 17.0 17.0 16.5 16.5 17.0 17.0 17.0	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5	22.5 23.0 23.0 23.5 24.0 24.5 24.5 25.0	22.0 22.5 22.5 23.0 23.5 24.0 24.0 24.5 24.5	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.0 30.5 30.5	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0	30.0 30.0 30.5 30.5 30.5 30.5 29.5 29.5 29.5 29.5 29.5	30.0 30.0 30.0 30.0 29.5 27.5 24.0 29.5 29.0 29.0	SEP 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 28.5 28.0 28.5	7EMBER  29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8 9 10	9.5 9.5 10.0 10.5 10.5 11.0 11.5 12.0 12.5 13.5	9.0 9.0 9.5 9.5 10.0 10.5 11.0 11.5 12.0 13.0	17.0 17.0 17.0 17.0 16.5 16.5 17.0 17.0 17.0	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5	22.5 23.0 23.0 23.5 24.0 24.5 24.5	22.0 22.5 22.5 23.0 23.5 24.0 24.0 24.5 24.5	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 29.5 30.0 30.0	30.0 30.0 30.5 30.5 30.5 30.5 30.5 29.5 29.5 29.5 29.5	29.5 29.5 29.5 30.0 30.0 30.0 29.5 28.5 27.5 24.0	SEP 29.5 29.0 29.0 29.0 29.0 29.0 28.5 28.5	29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	9.5 9.5 10.0 10.5 10.5 11.0 11.5 12.0 12.5 13.5 14.0 14.5 14.5 15.5 16.0	9.0 9.0 9.5 9.5 10.0 10.5 11.0 13.0 13.5 14.0 14.5 15.0	17.0 17.0 17.0 17.0 16.5 16.5 16.5 17.0 17.0 17.0 17.0 17.0 18.0 18.5 19.0	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	22.5 23.0 23.0 23.5 24.0 24.5 24.5 25.0  26.0 26.0 26.0	22.0 22.5 23.0 23.5 24.0 24.0 24.5 24.5 24.5 25.5 26.0	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.0 30.5 30.5 30	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.5 30.5	30.0 30.0 30.5 30.5 30.5 30.5 29.5 29.5 31.5	30.0 30.0 30.0 30.0 30.0 29.5 28.5 27.5 24.0 29.5 29.0 29.5	SEP 29.5 29.0 29.0 29.0 29.0 29.0 29.0 28.5 28.0 28.5 27.5 27.5 28.0	29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14	9.5 9.5 9.5 10.0 10.5 10.5 11.0 11.5 12.0 12.5 13.5	9.0 9.0 9.5 9.5 10.0 10.5 11.0 13.0 13.5 14.0 14.5	17.0 17.0 17.0 17.0 16.5 16.5 17.0 17.0 17.0 17.0 17.5 18.0	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	22.5 23.0 23.5 24.0 24.5 24.5 25.0	22.0 22.5 22.5 23.0 23.5 24.0 24.0 24.5 24.5 24.5	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.5	30.0 30.0 30.5 30.5 30.5 30.5 29.5 29.5 29.5 29.5 29.5 29.5 29.0 29.0	29.5 29.5 29.5 30.0 30.0 30.0 29.5 27.5 24.0 29.5 29.0 29.0 28.5 28.5	SEP 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	7EMBER  29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	9.5 9.5 10.0 10.5 10.5 11.0 12.0 12.5 13.5 14.0 14.5 15.5 16.0	9.0 9.0 9.5 9.5 10.0 10.5 11.0 13.0 13.5 14.5 14.5 15.0	17.0 17.0 17.0 17.0 16.5 16.5 16.5 17.0 17.0 17.0 17.0 17.0 17.5 18.0 18.5 19.0	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	22.5 23.0 23.5 24.0 24.5 24.5 25.0  26.0 26.0 26.5 26.5	22.0 22.5 23.0 23.5 24.0 24.0 24.5 24.5 24.5 25.5 26.0 26.0 26.0	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.0 30.5 30.5 31.0 31.0 31.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.5 30.5 30.5	30.0 30.0 30.5 30.5 30.5 30.5 29.5 29.5 29.5 29.5 29.5 29.0	29.5 29.5 29.5 30.0 30.0 30.0 29.5 27.5 24.0 29.5 29.0 29.0 28.5	SEP 29.5 29.0 29.0 29.0 29.0 29.0 29.0 28.5 28.5 28.5 27.5 27.5 28.0 28.0 28.0	7EMBER  29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.0 27.0 27.5 24.0 27.5 27.5 27.5 28.0 28.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	9.5 9.5 9.5 10.0 10.5 10.5 11.0 12.5 13.5 14.0 14.5 15.5 16.0 16.5 17.0 17.5	9.0 9.0 9.5 9.5 10.0 10.5 11.0 13.0 13.5 14.0 14.5 14.5 15.0 16.0 16.5 17.0	17.0 17.0 17.0 17.0 16.5 16.5 17.0 17.0 17.0 17.0 17.0 17.5 18.5 19.0	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	22.5 23.0 23.5 24.0 24.5 24.5 25.0  26.0 26.0 26.0 26.5 26.5	22.0 22.5 22.5 23.0 23.5 24.0 24.0 24.5 24.5 24.5 25.5 26.0 26.0 26.0 26.0	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.0 30.0 31.0 31.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.5 30.5 30.5	30.0 30.0 30.5 30.5 30.5 30.5 30.5 29.5 29.5 31.5 29.5 29.5 29.5 29.5 29.0 29.0	29.5 29.5 29.5 30.0 30.0 30.0 29.5 28.5 27.5 24.0 29.5 29.0 29.5 28.5	SEP 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 28.5 28.0 28.5 27.5 28.0 28.0 28.0 28.0 28.0	7EMBER  29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	9.5 9.5 10.0 10.5 10.5 11.0 12.0 12.5 13.5 14.0 14.5 15.5 16.0	9.0 9.0 9.5 9.5 10.0 10.5 11.0 13.0 13.5 14.5 14.5 15.0	17.0 17.0 17.0 17.0 16.5 16.5 16.5 17.0 17.0 17.0 17.0 17.0 17.5 18.0 18.5 19.0	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	22.5 23.0 23.5 24.0 24.5 24.5 25.0  26.0 26.0 26.5 26.5	22.0 22.5 23.0 23.5 24.0 24.0 24.5 24.5 24.5 25.5 26.0 26.0 26.0	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.0 30.5 30.5 31.0 31.0 31.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.5 30.5 30.5	30.0 30.0 30.5 30.5 30.5 30.5 29.5 29.5 29.5 29.5 29.5 29.0	29.5 29.5 29.5 30.0 30.0 30.0 29.5 27.5 24.0 29.5 29.0 29.0 28.5	SEP 29.5 29.0 29.0 29.0 29.0 29.0 29.0 28.5 28.5 28.5 27.5 27.5 28.0 28.0 28.0	7EMBER  29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.0 27.0 27.5 24.0 27.5 27.5 27.5 28.0 28.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	9.5 9.5 9.5 10.0 10.5 10.5 11.0 12.5 13.5 14.0 14.5 15.5 16.0 16.5 17.0 17.5 17.5	9.0 9.0 9.5 9.5 10.0 10.5 11.0 13.0 13.0 14.5 14.5 14.5 15.0 16.0 16.5 17.5 17.5	17.0 17.0 17.0 17.0 16.5 16.5 17.0 17.0 17.0 17.0 17.5 18.0 18.5 19.0	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	22.5 23.0 23.5 24.0 24.5 24.5 25.0  26.0 26.0 26.0 26.5 26.5 26.5 26.5	22.0 22.5 22.5 23.0 23.5 24.0 24.5 24.5 24.5 25.5 26.0 26.0 26.0 26.0 26.0	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.0 30.0 31.0 31.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.5 30.5 30.5 30.5 30	30.0 30.0 30.5 30.5 30.5 30.5 30.5 29.5 29.5 29.5 29.5 29.5 29.0 29.0	29.5 29.5 29.5 30.0 30.0 30.0 29.5 28.5 27.5 24.0 29.0 29.0 28.5 28.5	SEP 29.5 29.0 29.0 29.0 29.0 29.0 29.0 28.5 28.0 28.5 27.5 28.0 28.0 28.0 28.0 28.5 28.5	7EMBER  29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	9.5 9.5 10.0 10.5 10.5 11.0 11.5 12.0 12.5 13.5 14.0 14.5 15.5 16.0 17.5 17.5 17.5	9.0 9.0 9.5 9.5 10.0 10.5 11.0 13.0 13.5 14.0 14.5 14.5 17.5 17.5 17.5	17.0 17.0 17.0 17.0 16.5 16.5 16.5 17.0 17.0 17.0 17.0 17.5 18.5 19.5 19.5 19.5 19.5	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	22.5 23.0 23.5 24.0 24.5 24.5 25.0 26.0 26.0 26.0 26.5 26.5 26.5 26.5	22.0 22.5 22.5 23.0 23.5 24.0 24.5 24.5 24.5 25.5 26.0 26.0 26.0 26.0 26.0 26.0	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.5 30.5 31.0 31.0 31.0 31.0 31.0 30.5	28.5 28.5 29.0 29.0 29.5 29.5 29.5 30.0 30.0 30.5 30.5 30.5 30.5 30.5 30	30.0 30.0 30.5 30.5 30.5 30.5 30.5 29.5 29.5 29.5 29.5 29.5 29.5 29.0 29.0	29.5 29.5 29.5 30.0 30.0 30.0 29.5 28.5 27.5 24.0 29.0 29.0 28.5 28.5	SEP 29.5 29.0 29.0 29.0 29.0 29.0 28.5 28.5 27.5 27.5 28.0 28.0 28.0 28.5 28.5 28.5 28.5	7EMBER  29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.0 27.0 27.5 24.0 27.5 27.5 28.0 28.0 27.5 28.0 28.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	9.5 9.5 9.5 10.0 10.5 10.5 11.0 12.0 12.5 13.5 14.0 14.5 14.5 17.5 17.5 17.5 17.5	9.0 9.0 9.5 9.5 10.0 10.5 11.0 11.5 12.0 13.0 14.5 14.5 15.0 16.0 17.5 17.5 17.5 18.0	17.0 17.0 17.0 17.0 16.5 16.5 16.5 17.0 17.0 17.0 17.0 17.5 18.0 18.5 19.5 19.5 19.5 19.5	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	22.5 23.0 23.5 24.0 24.5 24.5 25.0 26.0 26.0 26.5 26.5 26.5 26.5 27.0 27.5	22.0 22.5 23.0 23.5 24.0 24.0 24.5 24.5 24.5 25.5 26.0 26.0 26.0 26.0 26.0 26.5 27.0	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.0 30.0 31.0 31.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.5 30.5 30.5 30.5 30	30.0 30.0 30.5 30.5 30.5 30.5 30.5 29.5 29.5 29.5 29.5 29.5 29.0 29.0	29.5 29.5 29.5 30.0 30.0 30.0 29.5 28.5 27.5 24.0 29.0 29.0 28.5 28.5	SEP 29.5 29.0 29.0 29.0 29.0 29.0 29.0 28.5 28.5 28.5 28.6 28.6 28.6 28.6 28.7 28.6 28.7 28.6 28.7 28.6 28.7 28.6 28.7 28.6 28.7 28.6 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7	75 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 27.5 28.0 27.5 27.5 28.0 27.5 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	9.5 9.5 10.0 10.5 10.5 11.0 11.5 12.0 12.5 13.5 14.0 14.5 15.5 16.0 17.5 17.5 17.5	9.0 9.0 9.5 9.5 10.0 10.5 11.0 13.0 13.5 14.0 14.5 14.5 17.5 17.5 17.5	17.0 17.0 17.0 17.0 16.5 16.5 16.5 17.0 17.0 17.0 17.0 17.5 18.5 19.5 19.5 19.5 19.5	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	22.5 23.0 23.5 24.0 24.5 24.5 25.0 26.0 26.0 26.0 26.5 26.5 26.5 26.5	22.0 22.5 22.5 23.0 23.5 24.0 24.5 24.5 24.5 25.5 26.0 26.0 26.0 26.0 26.0 26.0	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.0 30.5 30.5 31.0 31.0 31.0 31.0 31.0 31.0 31.0 31.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.5 30.5 30.5 30.5 30.5 30	30.0 30.0 30.5 30.5 30.5 30.5 29.5 29.5 29.5 29.5 29.0 29.0	29.5 29.5 29.5 30.0 30.0 30.0 29.5 28.5 27.5 24.0 29.0 29.0 28.5 28.5	SEP 29.5 29.0 29.0 29.0 29.0 29.0 28.5 28.5 27.5 27.5 28.0 28.0 28.0 28.5 28.5 28.5 28.5	7EMBER  29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.0 27.0 27.5 24.0 27.5 27.5 28.0 28.0 27.5 28.0 28.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	9.5 9.5 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.5 14.0 14.5 15.5 16.0 16.5 17.0 17.5 17.5 17.5 17.5 17.5 17.5 17.5	9.0 9.0 9.5 9.5 10.0 10.5 11.0 13.0 13.0 13.5 14.5 14.5 15.0 16.0 17.5 17.5 17.5 17.5 17.5 17.5	17.0 17.0 17.0 17.0 16.5 16.5 17.0 17.0 17.0 17.0 17.5 18.5 19.0 19.5 19.5 19.5 19.5 19.5	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	22.5 23.0 23.5 24.0 24.5 24.5 24.5 25.0  26.0 26.0 26.5 26.5 26.5 27.0 27.5 27.5	22.0 22.5 22.5 23.0 23.5 24.0 24.5 24.5 24.5 25.5 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.0 31.0 31.0 31.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.5 30.5 30.5 30.5 30	30.0 30.0 30.5 30.5 30.5 30.5 30.5 29.5 29.5 29.5 29.5 29.0 29.0	29.5 29.5 29.5 30.0 30.0 30.0 29.5 28.5 27.5 24.0 29.0 29.0 28.5 28.5	SEP  29.5 29.0 29.0 29.0 29.0 29.0 28.5 28.5 28.0 28.5 27.5 28.0 28.0 28.0 28.0 28.0 28.5 28.5 28.5 28.5	7EMBER  29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	9.5 9.5 10.0 10.5 10.5 11.0 11.5 12.0 12.5 13.5 14.0 14.5 15.5 16.0 17.5 17.5 18.0 18.0 18.0 18.0	9.0 9.0 9.5 9.5 10.0 10.5 11.0 13.0 13.5 14.0 14.5 15.0 16.0 17.5 17.5 17.5 18.0 17.5 18.0 17.5	17.0 17.0 17.0 16.5 16.5 16.5 17.0 17.0 17.0 17.0 17.5 18.5 19.0 19.5 19.5 19.5 19.5 19.5 19.5	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5 17.0 17.5 18.0 19.5 19.5 19.5 19.5 19.5 19.5 19.5 20.0 20.0	22.5 23.0 23.5 24.0 24.5 24.5 25.0 26.0 26.0 26.0 26.5 26.5 26.5 27.0 27.5 27.5 27.5 27.5 27.5 28.0 28.0	22.0 22.5 22.5 23.0 23.5 24.0 24.0 24.5 24.5 24.5 25.5 26.0 26.0 26.0 26.0 26.0 26.0 27.0 27.5 27.5 28.0	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.5 30.5 30.5 31.0 31.0 31.0 31.0 31.0 31.0 31.0 31.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 30.0 30.0 30.5 30.5 30.5 30.5 30.5 30	30.0 30.0 30.5 30.5 30.5 30.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5	29.5 29.5 29.5 30.0 30.0 30.0 30.0 29.5 28.5 24.0 29.5 29.0 29.0 28.5 28.5	SEP 29.5 29.0 29.0 29.0 29.0 29.0 28.5 28.0 28.5 28.0 28.0 28.0 28.0 28.0 28.5 28.5 28.5 28.5 28.5 28.5	7EMBER  29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.6 27.0 27.5 27.5 28.0 28.0 27.5 27.5 28.0 28.0 27.5 27.5 28.0 27.5 27.5 27.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	9.5 9.5 9.5 10.0 10.5 10.5 11.0 12.0 12.5 13.5 14.0 14.5 15.5 16.0 16.5 17.5 17.5 17.5 18.0 18.0 18.0 18.0 18.0	9.0 9.0 9.5 9.5 10.0 10.5 11.0 11.5 12.0 13.0 14.5 14.5 15.0 16.0 17.5 17.5 17.5 18.0 18.0 17.5	17.0 17.0 17.0 17.0 16.5 16.5 16.5 16.5 17.0 17.0 17.0 17.0 17.5 18.0 18.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5 17.5 18.0 19.5 19.5 19.5 19.5 19.5 19.5 19.5 20.0 20.0 20.0	22.5 23.0 23.0 23.5 24.0 24.5 25.0 26.0 26.0 26.5 26.5 26.5 27.0 27.5 27.5 27.5 27.5 27.5 28.0 28.5	22.0 22.5 23.0 23.5 24.0 24.0 24.5 24.5 24.5 25.5 26.0 26.0 26.0 26.0 26.0 27.0 27.0 27.5 27.5 28.0	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.5 30.5 30.5 31.0 31.0 31.0 31.0 31.0 31.0 31.0 31.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.5 30.5 30.5 30.5 30.5 30	30.0 30.0 30.5 30.5 30.5 30.5 29.5 29.5 29.5 29.5 29.0 29.0	29.5 29.5 29.5 30.0 30.0 30.0 29.5 27.5 24.0 29.5 29.0 29.0 28.5 28.5	SEP 29.5 29.0 29.0 29.0 29.0 29.0 29.0 28.5 28.5 28.5 28.0 28.5 28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5	29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.0 27.0 27.5 27.5 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 27.5 28.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 22 24 25 26 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	9.5 9.5 9.5 10.0 10.5 11.0 12.0 12.5 13.5 14.0 14.5 15.5 16.0 16.5 17.0 18.0 18.0 18.0 18.0 18.0	9.0 9.0 9.5 9.5 10.0 10.5 11.0 13.0 13.5 14.5 14.5 15.0 16.0 16.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	17.0 17.0 17.0 17.0 16.5 16.5 16.5 17.0 17.0 17.0 17.0 17.0 17.5 18.0 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5 17.5 18.0 17.5 18.0 19.5 19.5 19.5 19.5 19.5 19.5 20.0 20.0 20.0 20.5 21.0	22.5 23.0 23.5 24.0 24.5 24.5 25.0 26.0 26.0 26.0 26.5 26.5 27.0 27.5 27.5 27.5 27.5 27.5 28.0 28.5 28.5	22.0 22.5 23.0 23.5 24.0 24.5 24.5 24.5 25.5 26.0 26.0 26.0 26.0 26.0 26.0 27.0 27.5 27.5 28.0 28.0	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.0 31.0 31.0 31.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.5 30.5 30.5 30.5 30	30.0 30.0 30.5 30.5 30.5 30.5 30.5 29.5 29.5 29.5 29.5 29.0 29.0	29.5 29.5 29.5 30.0 30.0 30.0 29.5 28.5 27.5 24.0 29.0 29.0 28.5 28.5	SEP  29.5 29.0 29.0 29.0 29.0 29.0 28.5 28.5 28.0 28.0 28.0 28.0 28.0 28.0 28.5 28.5 28.5 28.5 28.5	7EMBER  29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	9.5 9.5 10.0 10.5 10.5 11.0 11.5 12.0 12.5 13.5 14.0 14.5 15.5 16.0 16.5 17.0 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	9.0 9.0 9.5 9.5 10.0 10.5 11.0 13.0 13.5 14.0 14.5 15.0 16.0 17.5 17.5 17.5 17.5 18.0 17.5 17.5 18.0 17.0 17.0 17.0 17.0	17.0 17.0 17.0 16.5 16.5 16.5 17.0 17.0 17.0 17.0 17.0 17.5 18.5 19.0 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	22.5 23.0 23.5 24.0 24.5 24.5 25.0 26.0 26.0 26.0 26.5 26.5 26.5 27.0 27.5 27.5 27.5 27.5 28.0 28.5 28.5 28.5	22.0 22.5 22.5 23.0 23.5 24.0 24.0 24.5 24.5 24.5 25.5 26.0 26.0 26.0 26.0 26.0 26.0 27.0 27.5 27.5 28.0 28.0 28.0	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.0 31.0 31.0 31.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 30.0 30.0 30.0 30.5 30.5 30.5 30.5 30	30.0 30.0 30.5 30.5 30.5 30.5 29.5 29.5 29.5 29.5 29.0 29.0	29.5 29.5 29.5 30.0 30.0 30.0 30.0 29.5 28.5 24.0 29.5 28.5 29.0 29.0 28.5 28.5	SEP 29.5 29.0 29.0 29.0 29.0 29.0 29.0 28.5 28.5 28.0 28.0 28.0 28.0 28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5	29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.0 27.0 27.5 27.5 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 27.5 28.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 22 24 25 26 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	9.5 9.5 9.5 10.0 10.5 11.0 12.0 12.5 13.5 14.0 14.5 15.5 16.0 16.5 17.0 18.0 18.0 18.0 18.0 18.0	9.0 9.0 9.5 9.5 10.0 10.5 11.0 13.0 13.5 14.5 14.5 15.0 16.0 16.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	17.0 17.0 17.0 17.0 16.5 16.5 16.5 17.0 17.0 17.0 17.0 17.0 17.5 18.0 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	17.0 17.0 17.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5 17.5 18.0 17.5 18.0 19.5 19.5 19.5 19.5 19.5 19.5 20.0 20.0 20.0 20.5 21.0	22.5 23.0 23.5 24.0 24.5 24.5 25.0 26.0 26.0 26.0 26.5 26.5 27.0 27.5 27.5 27.5 27.5 27.5 28.0 28.5 28.5	22.0 22.5 23.0 23.5 24.0 24.5 24.5 24.5 25.5 26.0 26.0 26.0 26.0 26.0 26.0 27.0 27.5 27.5 28.0 28.0	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.0 31.0 31.0 31.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.5 30.5 30.5 30.5 30	30.0 30.0 30.5 30.5 30.5 30.5 30.5 29.5 29.5 29.5 29.5 29.0 29.0	29.5 29.5 29.5 30.0 30.0 30.0 29.5 28.5 27.5 24.0 29.0 29.0 28.5 28.5	SEP  29.5 29.0 29.0 29.0 29.0 29.0 28.5 28.5 28.0 28.0 28.0 28.0 28.0 28.0 28.5 28.5 28.5 28.5 28.5	7EMBER  29.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5

## MISSISSIPPI RIVER MAIN STEM

# 07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCTOBER NOVEMBER DECEMBER  1 8.4 7.2 2 7.7 7.3 3 7.7 7.4 4 7.6 7.4	IN MAX MIN MAX MIN MAX MIN  JANUARY FEBRUARY MARCH
1 8.4 7.2 2 7.7 7.3 3 7.7 7.4 4 7.6 7.4	IANUARY FERRUARY MARCH
1 8.4 7.2 2 7.7 7.3 3 7.7 7.4 4 7.6 7.4	JANUARY FEBRUARY MARCH
2 7.7 7.3 7.7 7.4 7.6 7.4	
3 7.7 7.4 4 7.6 7.4	10.9 10.8 13.2 12.9 12.5 12.3
4 7.6 7.4	
	11.0 10.8 13.0 12.8 12.3 12.1 11.0 10.8 13.2 12.7 12.2 11.8
	11.1 11.0 13.2 12.9 11.9 11.8
	11.0 10.9 13.3 13.0 11.9 11.8
	11.0 10.8 13.3 13.0 11.9 11.7
8 6.9 6.5	11.2 11.0 13.4 13.1 12.0 11.7
	11.1 10.9 13.4 13.2 11.9 11.6
10 6.4 6.2	11.1 10.9 13.4 13.2 11.9 11.6 11.1 11.0 13.5 13.1 11.7 11.6
	11.0 10.9 13.4 13.0 11.8 11.5 11.0 10.9 13.3 12.9 11.7 11.5 11.0 10.9 13.2 12.8 11.6 11.3
	11.0 10.9 13.3 12.9 11.7 11.5 11.0 10.9 13.2 12.8 11.6 11.3
	11.0 10.9 13.2 12.8 11.6 11.3 .8 10.9 10.8 13.1 12.7 11.4 11.2
	11.0 10.9 13.4 13.0 11.8 11.5 11.0 10.9 13.3 12.9 11.7 11.5 11.0 10.9 13.2 12.8 11.6 11.3 .8 10.9 10.8 13.1 12.7 11.4 11.2 .8 11.1 10.9 12.9 12.6 11.3 11.1
16 9.8 9.	.7 11.1 11.0 12.8 12.5 11.4 11.1
17 9,7 9	.6 11.1 10.9 12.6 12.3 11.2 11.0
18 8.3 8.2 9.9 9.	·8 11·2 10·9 12·5 12·3 11·1 10·8
18 8.3 8.2 9.9 9. 19 8.0 8.0 8.4 8.2 9.9 9.	.8 11.2 11.0 12.3 12.1 10.8 10.6
19 8.0 8.0 8.4 8.2 9.9 9. 20 8.1 8.0 8.5 8.2 9.9 9.	.7 11.1 10.9 12.1 11.5 10.7 10.6
21 8.2 8.1 8.5 8.3 10.1 9.	.8 11.5 10.9 11.8 11.6 10.6 10.3 .9 12.1 11.8 11.6 11.2 10.4 9.7 .0 12.0 11.8 11.3 10.6 9.9 9.6 .9 12.0 11.9 10.6 10.3 9.8 9.6 .9 11.9 11.5 10.6 9.9 9.8 9.5
21 8.2 8.1 8.5 8.3 10.1 9. 22 8.3 8.2 8.5 8.3 10.0 9.	.9 12.1 11.8 11.6 11.2 10.4 9.7
23 8.4 8.3 8.6 8.3 10.1 10.	.0 12.0 11.8 11.3 10.6 9.9 9.6
22 8.3 8.2 8.5 8.3 10.0 9. 23 8.4 8.3 8.6 8.3 10.1 10. 24 8.5 8.3 8.6 8.4 10.1 9. 25 8.5 8.4 8.5 8.2 10.0 9.	.0 12.0 11.8 11.3 10.6 9.9 9.6 .9 12.0 11.9 10.6 10.3 9.8 9.6 .9 11.9 11.5 10.6 9.9 9.8 9.5
26 8.4 8.3 8.3 8.1 10.2 10. 27 8.3 8.1 8.2 8.0 10.1 10.	.0 11.7 11.6 10.6 10.2 9.6 9.3 .0 11.6 11.3 12.6 10.0 9.7 9.3 .9 11.2 11.1 12.6 12.3 9.5 9.1
26 8.4 8.3 8.3 8.1 10.2 10. 27 8.3 8.1 8.2 8.0 10.1 10. 28 8.3 8.2 8.3 7.9 10.6 0	.0 11.6 11.3 12.6 10.0 9.7 9.3
	.9 11.2 11.1 12.6 12.3 9.5 9.1
29 8.3 8.3 8.3 8.1 10.8 10. 30 8.3 8.3 8.1 7.4 10.8 10.	
	가입에 가입하다 보고 있다면 보다 되었다. 전 10일 전 1
MONTH 8.5 8.0 8.6 5.7 10.9 9.	.6 13.2 10.7 13.5 9.9 12.5 8.6
DAY MAX MIN MAX MIN MAX MI	IN MAX MIN MAX MIN MAX MIN
APRIL MAY JUNE	JULY AUGUST SEPTEMBER
1 8.6 8.4 7.4 7.3 7.5 7.	.0 6.4 6.1
2 8.4 8.4 7.5 7.3 7.1 7.3 8.3 8.2 7.6 7.4 7.0 6.	.0 6.4 6.1
3 8.3 8.2 7.6 7.4 7.0 6.	9 6.3 6.0
3 0.5 0.2 1.0 1.4 1.0 0.	.9 6.5 6.1
4 83 81 77 75 70 6	
4 8.3 8.1 7.7 7.5 7.0 6. 5 8.2 8.0 7.6 7.5 6.9 6.	.7 6.3 6.1
4 8.3 8.1 7.7 7.5 7.0 6. 5 8.2 8.0 7.6 7.5 6.9 6. 6 8.1 7.8 7.6 7.4 6.8 6.	
4 8.3 8.1 7.7 7.5 7.0 6. 5 8.2 8.0 7.6 7.5 6.9 6. 6 8.1 7.8 7.6 7.4 6.8 6. 7 7.9 7.7 7.7 7.6 6.7 6.	.7 6.1 5.9 .5 6.0 5.7
4 8.3 8.1 7.7 7.5 7.0 6. 5 8.2 8.0 7.6 7.5 6.9 6. 6 8.1 7.8 7.6 7.4 6.8 6. 7 7.9 7.7 7.7 7.6 6.7 6. 8 7.7 7.5 7.7 7.5 6.5 6.	.7 6.1 5.9 .5 6.0 5.7 .0 6.0 5.7
4 8.3 8.1 7.7 7.5 7.0 6. 5 8.2 8.0 7.6 7.5 6.9 6. 6 8.1 7.8 7.6 7.4 6.8 6. 7 7.9 7.7 7.7 7.6 6.7 6. 8 7.7 7.5 7.7 7.5 6.5 6.5 9 7.5 7.3 7.6 7.4 6.0 5.	.7 6.1 5.9 .5 6.0 5.7 .0 6.0 5.7 .5 6.0 5.7
4 8.3 8.1 7.7 7.5 7.0 6.5 8.2 8.0 7.6 7.5 6.9 6.6 6.9 6.6 6.7 6.7 7.7 7.5 6.7 6.9 6.8 6.7 6.7 7.7 7.5 6.5 6.5 6.9 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	.7 6.1 5.9 .5 6.0 5.7 .0 6.0 5.7 .5 6.0 5.7 5.9 5.6
4 8.3 8.1 7.7 7.5 7.0 6. 5 8.2 8.0 7.6 7.5 6.9 6. 6 8.1 7.8 7.6 7.4 6.8 6. 7 7.9 7.7 7.5 7.7 7.6 6.7 6. 8 7.7 7.5 7.7 7.5 6.5 6. 9 7.5 7.3 7.6 7.4 6.0 5. 10 7.4 7.2 7.5 7.2	.7 6.1 5.9 .5 6.0 5.7 .0 6.0 5.7 .5 6.0 5.7 5.9 5.6
4 8.3 8.1 7.7 7.5 7.0 6.5 6.9 6.6 7.7 7.5 7.0 6.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	.7 6.1 5.9 .5 6.0 5.7 .0 6.0 5.7 .5 6.0 5.7 5.9 5.6 5.7 5.2 5.3 4.6
4 8.3 8.1 7.7 7.5 7.0 6.5 8.2 8.0 7.6 7.5 6.9 6.9 6.0 6.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	.7 6.1 5.9 .5 6.0 5.7 .0 6.0 5.7 .5 6.0 5.7 5.9 5.6 5.7 5.2 5.3 4.6
4 8.3 8.1 7.7 7.5 7.0 6.5 6.9 6.6 7.7 7.5 7.0 6.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	.7 6.1 5.9 .5 6.0 5.7 .0 6.0 5.7 .5 6.0 5.7 5.9 5.6 5.7 5.2 5.3 4.6 .0
4 8.3 8.1 7.7 7.5 7.0 6.5 8.2 8.0 7.6 7.5 6.9 6.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	6.1 5.9 6.0 5.7 6.0 5.7 5.5 6.0 5.7 5.9 5.6 5.7 5.2 5.3 4.6 0 0
4 8.3 8.1 7.7 7.5 7.0 6.5 5 8.2 8.0 7.6 7.5 6.9 6.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	6.1 5.9 6.0 5.7 6.0 5.7 5.5 6.0 5.7 5.9 5.6 5.7 5.2 5.3 4.6  1.0 1.9
4 8.3 8.1 7.7 7.5 7.0 6.5 8.2 8.0 7.6 7.5 6.9 6.9 6.6 6.9 6.6 6.9 6.6 6.9 6.0 6.9 6.0 6.0 6.0 6.0 6.7 6.7 7.7 7.5 6.5 6.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	6.1 5.9 6.0 5.7 6.0 5.7 5.5 6.0 5.7 5.9 5.6 5.3 4.6 0 0 9 8 5 5.5
4 8.3 8.1 7.7 7.5 7.0 6.5 6.9 6.5 8.2 8.0 7.6 7.5 6.9 6.9 6.0 6.0 7.6 7.5 6.9 6.0 6.0 6.0 7.6 7.5 6.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	6.1 5.9 6.0 5.7 6.0 5.7 6.0 5.7 5.9 5.6 5.7 5.2 5.3 4.6 0 1.9 1.8 1.5 1.5 1.5
4 8.3 8.1 7.7 7.5 7.0 6.5 8.2 8.0 7.6 7.5 6.9 6.9 6.6 6.9 6.6 6.9 6.6 6.9 6.0 6.9 6.0 6.0 6.0 6.0 6.7 6.7 7.7 7.5 6.5 6.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	6.1 5.9 6.0 5.7 6.0 5.7 6.0 5.7 5.9 5.6 5.7 5.2 5.3 4.6 0 1.9 1.8 1.5 1.5 1.5
4 8.3 8.1 7.7 7.5 7.0 6.5 5 8.2 8.0 7.6 7.5 7.5 7.0 6.9 6.9 6.9 6.0 7.6 7.5 6.9 6.9 6.0 6.0 7.6 7.5 6.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	6.1 5.9 6.0 5.7 6.0 5.7 5.9 5.6 5.7 5.2 5.3 4.6 0 9 8 7 5
4 8.3 8.1 7.7 7.5 7.0 6.5 8.2 8.0 7.6 7.5 6.9 6.9 6.6 6.9 6.6 6.9 6.6 6.9 6.6 6.9 6.6 6.9 6.0 7.6 7.5 6.9 6.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	6.1 5.9 6.0 5.7 6.0 5.7 6.0 5.7 5.9 5.6 5.7 5.2 5.3 4.6   
4 8.3 8.1 7.7 7.5 7.0 6.5 8.2 8.0 7.6 7.5 6.9 6.9 6.6 6.9 6.6 6.9 6.6 6.9 6.6 6.9 6.6 6.9 6.6 6.9 6.6 6.9 6.6 6.9 6.6 6.9 6.7 6.9 7.7 7.5 7.7 7.6 6.5 6.7 6.7 7.7 7.5 6.5 6.5 6.9 7.5 7.3 7.6 7.4 6.0 5.10 7.4 7.2 7.5 7.2 1.2 7.3 7.1 6.3 6.1 7.1 7.1 6.3 6.1 7.1 7.1 6.9 6.1 6.1 6.1 7.0 6.8 6.0 5.1 7.0 6.8 6.0 5.1 7.0 6.8 5.7 5.1 7.0 6.9 6.7 5.8 5.1 7.0 6.8 5.7 5.1 7.0 6.9 6.9 6.6 8.9 8.7 5.7 5.1 7.0 6.8 6.7 8.8 8.6 5.6 5.7 5.2 7.0 6.7 8.6 8.5 5.6 5.7 5.2 7.0 6.7 8.6 8.5 5.6 5.7 5.2 7.1 7.0 6.7 8.6 8.5 5.6 5.6 5.2 7.1 7.0 6.7 8.6 8.5 5.6 5.6 5.5 5.6 5.7 5.2 7.1 7.0 6.7 8.6 8.5 5.6 5.6 5.5 5.6 5.5 5.6 5.5 5.6 5.5 5.6 5.5 5.5	6.1 5.9 6.0 5.7 6.0 5.7 5.5 6.0 5.7 5.9 5.6 5.3 4.6  0 9 88 7 5.5 5.5 5 5.5 5 5 6 7 5 6 7 7 8 9 9 10
4 8.3 8.1 7.7 7.5 7.0 6.5 8.2 8.0 7.6 7.5 6.9 6.9 6.6 6.9 6.6 6.9 6.6 6.9 6.6 6.9 6.6 6.9 6.0 7.6 7.5 6.9 6.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	6.1 5.9 6.0 5.7 6.0 5.7 5.5 6.0 5.7 5.9 5.6 5.7 5.2 5.3 4.6 6.0 9 8 7 5 5 5 5 5 6 6 6
4       8.3       8.1       7.7       7.5       7.0       6.9         5       8.2       8.0       7.6       7.5       6.9       6.         6       8.1       7.8       7.6       7.4       6.8       6.7         7       7.9       7.7       7.5       6.5       6.         8       7.7       7.5       7.5       7.4       6.0       5.         9       7.5       7.3       7.6       7.4       6.0       5.         10       7.4       7.2       7.5       7.2            11       7.3       7.2	6.1 5.9 6.0 5.7 6.0 5.7 5.5 6.0 5.7 5.9 5.6 5.3 4.6 
4       8.3       8.1       7.7       7.5       7.0       6.9         5       8.2       8.0       7.6       7.5       6.9       6.         6       8.1       7.8       7.6       7.4       6.8       6.7         7       7.9       7.7       7.5       6.5       6.         8       7.7       7.5       7.5       6.5       6.         9       7.5       7.3       7.6       7.4       6.0       5.         10       7.4       7.2       7.5       7.2            11       7.3       7.1	6.1 5.9 6.0 5.7 6.0 5.7 5.5 6.0 5.7 5.9 5.6 5.7 5.2 5.3 4.6 6.0 9 8 7 5 5 5 5 5 5 5 5 5 5 5 6 6 5 4 5 5 4 5 5 4 5 5 6 5 6 5 6 5 6 6 5 6 6 5
4       8.3       8.1       7.7       7.5       7.0       6.9         5       8.2       8.0       7.6       7.5       6.9       6.         6       8.1       7.8       7.6       7.4       6.8       6.7         7       7.9       7.7       7.5       6.5       6.         8       7.7       7.5       7.5       6.5       6.         9       7.5       7.3       7.6       7.4       6.0       5.         10       7.4       7.2       7.5       7.2            11       7.3       7.2	6.1 5.9 6.0 5.7 6.0 6.0 5.7 6.
4       8.3       8.1       7.7       7.5       7.0       6.9         5       8.2       8.0       7.6       7.5       6.9       6.         6       8.1       7.8       7.6       7.4       6.8       6.7         7       7.9       7.7       7.5       6.5       6.         8       7.7       7.5       7.5       6.5       6.         9       7.5       7.3       7.6       7.4       6.0       5.         10       7.4       7.2       7.5       7.2            11       7.3       7.1	6.1 5.9 6.0 5.7 6.0 5.7 5.5 6.0 5.7 5.9 5.6 5.3 4.6 
4       8.3       8.1       7.7       7.5       7.0       6.9         5       8.2       8.0       7.6       7.5       6.9       6.         6       8.1       7.8       7.6       7.4       6.8       6.7         7       7.9       7.7       7.5       7.5       6.5       6.         8       7.7       7.5       7.5       7.5       6.5       6.         9       7.5       7.3       7.6       7.4       6.0       5.         10       7.4       7.2       7.5       7.2           11       7.3       7.1              12       7.3       7.1         6.3       6.       6.         14       7.1       6.9         6.1       6.       6.       6.       5.         15       7.0       6.8         6.0       5.       5.       5.       5.       5.       5.       5.       5.       5.       5.       5.       5.       5.       5.       5.       5.       5.       5.	6.1 5.9 6.0 5.7 6.0 6.0 5.7 6.
4       8.3       8.1       7.7       7.5       7.0       6.9         5       8.2       8.0       7.6       7.5       6.9       6.         6       8.1       7.8       7.6       7.4       6.8       6.7         7       7.9       7.7       7.5       6.5       6.         8       7.7       7.5       7.5       6.5       6.         9       7.5       7.3       7.6       7.4       6.0       5.         10       7.4       7.2       7.5       7.2            11       7.3       7.1	6.1 5.9 6.0 5.7 6.0 6.0 5.7 6.

#### MISSISSIPPI RIVER MAIN STEM

## 07374522 MISSISSIPPI RIVER AT VIOLET, LA

LOCATION.--Lat 29°52'52", long 89°54'02", T.14 S., R.13 E., St. Bernard Parish, Hydrologic Unit 08090100, 300 ft (91 m) from left bank at village of River Bend, 1.0 mi (1.6 km) south of Violet, and at mile 82.5 (132.7 km).

DRAINAGE AREA. -- Not determined.

PERIOD OF RECORD, -- Water years 1973 to current year (discontinued).

REMARKS.--Samples are collected at 2.0 ft (0.6 m) and at 50 ft (15 m) below water surface to June 1976. Since July 1976, all samples are 2.0 ft (0.6 m) below water surface.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

				DALITI DAT								
DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)
0CT 12	1315	404	7.6	22.5	10	70	7.1	33	1.0	31000	6200	130
NOV			7.7		. 0	40	8.8	28	1.1	8600	2200	170
10 DEC	0845	444		17.0								
06 JAN	1145	325	7.8	12.5	15	20	9.8	30	3.0		1300	130
17 FEB	1550	388	7.8	4.0	10	45	12.8	23	2.1	12000	K3600	160
09 MAR	1530	290	7.9	2.0	30	60	12.0	17	4.8	3800	1800	120
09	0905	381	7.6	5.5	15	40	12.1	6	2.7	10000	3100	140
APR 14	0900	325	7.1	14.5	10	75	7.8	65	1.4	4200	K3200	130
MAY 10	0815	381	7.6	17.5	15	110	7.6	27	1.1	8100	3400	150
JUN 07	1415	386	6.9	25.0	40	60	6.6	27	4.9	5000	2600	150
JUL 10	1130	504	7.8	31.0	5	30	6.9	14	• 0	13000	2000	180
AUG 17	0800	414	7.5	29.5	15	50	6.9	15	.9	69000		160
SEP 12	1430	488	7.9	29.5	5	10	7.4	18	•2	38000	14000	170
DATE	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN; NITRATE TOTAL (MG/L AS N)	NITRO- GEN+ NITRITE TOTAL (MG/L AS N)
ост	NESS, NONCAR- BONATE, DIS. (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	BONATE (MG/L AS HCO3)	MG/L AS CO3)	TOTAL (MG/L AS CACO3)	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	ABLE MATTER (ML/L/ HR)	GEN, NITRATE TOTAL (MG/L AS N)	GEN+ NITRITE TOTAL (MG/L AS N)
0CT 12	NESS, NONCAR- BONATE, DIS. (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	BONATE (MG/L AS HCO3)	BONATE (MG/L AS CO3)	LINITY, TOTAL (MG/L AS CACO3)	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	ABLE MATTER (ML/L/ HR)	GEN, NITRATE TOTAL (MG/L AS N)	GEN+ NITRITE TOTAL (MG/L AS N)
OCT 12 NOV 10	NESS, NONCAR- BONATE, DIS. (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	BONATE (MG/L AS HCO3)	BONATE (MG/L AS CO3)	LINITY, TOTAL (MG/L AS CACO3)	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	SUSP. TOTAL. RESIDUE AT 110 DEG. C (MG/L)	ABLE MATTER (ML/L/ HR)	GEN, NITRATE TOTAL (MG/L AS N)	GEN+ NITRITE TOTAL (MG/L AS N)
OCT 12 NOV 10 DEC 06	NESS, NONCAR- BONATE, DIS. (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	BONATE (MG/L AS HCO3)	BONATE (MG/L AS CO3)	LINITY, TOTAL (MG/L AS CACO3)	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	ABLE MATTER (ML/L/ HR)	GEN, NITRATE TOTAL (MG/L AS N)	GEN+ NITRITE TOTAL (MG/L AS N)
OCT 12 NOV 10 DEC 06 JAN 17	NESS, NONCAR- BONATE, DIS. (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	BONATE (MG/L AS HCO3) 107	BONATE (MG/L AS CO3)	LINITY, TOTAL (MG/L AS CACO3)	DIS- SOLVED (MG/L AS SO4) 47	RIDE, DIS- SOLVED (MG/L AS CL)	SUSP. TOTAL. RESIDUE AT 110 DEG. C (MG/L)	ABLE MATTER (ML/L/ HR) <1.0	GEN, NITRATE TOTAL (MG/L AS N) 1.1	GEN, NITRITE TOTAL (MG/L AS N) .01
OCT 12 NOV 10 DEC 06 JAN 17 FEB 09	NESS. NONCAR- BONATE. DIS. (MG/L CACO3)	DIS- SOLVED (MG/L AS CA) 35 45	SIUM, DIS- SOLVED (MG/L 4S MG)	BONATE (MG/L AS HCO3) 107 157	BONATE (MG/L AS CO3)	LINITY, TOTAL (MG/L AS CACO3) 88 129	DIS- SOLVED (MG/L AS SO4) 47 57	RIDE, DIS- SOLVED (MG/L AS CL) 30 25	SUSP- TOTAL- RESIDUE AT 110 DEG. C (MG/L) 138 73	ABLE MATTER (ML/L/HR)  <1.0  <1.0	GEN, NITRATE TOTAL (MG/L AS N)	GEN, NITRITE TOTAL (MG/L AS N) .01 .01
OCT 12 NOV 10 DEC 06 JAN 17 FEB 09 MAR 09	NESS+ NONCAR- BONATE- DIS- (MG/L CACO3) 42 41 37	DIS- SOLVED (MG/L AS CA) 35 45 34	SIUM, DIS- SOLVED (MG/L 4S MG) 11 14 9.8	BONATE (MG/L AS HC03) 107 157 108	BONATE (MG/L AS CO3)	LINITY, TOTAL (MG/L AS CACO3) 88 129 89	DIS- SOLVED (MG/L AS SO4) 47 57 39	RIDE, DIS- SOLVED (MG/L AS CL) 30 25 18	SUSP. TOTAL. RESIDUE AT 110 DEG. C (MG/L) 138 73 151 86	ABLE MATTER (ML/L/ HR) <1.0 <1.0 <1.0	GEN, NITRATE TOTAL (MG/L AS N) 1.1 1.6 1.3	GEN, NITRITE TOTAL (MG/L AS N) .01 .01 .01
OCT 12 NOV 10 DEC 06 JAN 17 FEB 09 MAR 09 APR 14	NESS. NONCAR- BONATE. DIS. (MG/L CACO3) 42 41 37 52	DIS- SOLVED (MG/L AS CA) 35 45 34 42	SIUM. DIS- SOLVED (MG/L 4S MG) 11 14 9.8 13	BONATE (MG/L AS HCO3) 107 157 108 132	BONATE (MG/L AS CO3) 0 0	LINITY, TOTAL (MG/L AS CACO3) 88 129 89 108	DIS- SOLVED (MG/L AS SO4) 47 57 39 46	RIDE, DIS- SOLVED (MG/L AS CL) 30 25 18 22	SUSP. TOTAL. RESIDUE AT 110 DEG. C (MG/L) 138 73 151 86	ABLE MATTER (ML/L/ HR) <1.0 <1.0 <1.0 <1.0	GEN. NITRATE TOTAL (MG/L AS N)  1.1  1.6  1.3  1.9  1.1	GEN, NITRITE TOTAL (MG/L AS N) .01 .01 .01 .03 .02
OCT 12 NOV 10 DEC 06 JAN 17 FEB 09 MAR 09 APR 14 MAY	NESS+ NONCAR- BONATE- DIS- (MG/L CACO3) 42 41 37 52 39	DIS- SOLVED (MG/L AS CA) 35 45 34 42 34	SIUM. DIS- SOLVED (MG/L 4S MG) 11 14 9.8 13 9.3	BONATE (MG/L AS HCO3) 107 157 108 132 99	BONATE (MG/L AS CO3)  0  0  0  0  0	LINITY, TOTAL (MG/L AS CACO3) 88 129 89 108 81	DIS- SOLVED (MG/L AS 504) 47 57 39 46 37	RIDE, DIS- SOLVED (MG/L AS CL) 30 25 18 22 16 31	SUSP- TOTAL- RESIDUE AT 110 DEG. C (MG/L) 138 73 151 86 127 87	ABLE MATTER (ML/L/ HR) <1.0 <1.0 <1.0 <1.0 <1.0	GEN. NITRATE TOTAL (MG/L AS N)  1.1 1.6 1.3 1.9 1.1	GEN• NITRITE TOTAL (MG/L AS N)  .01 .01 .01 .03 .02
OCT 12 NOV 10 DEC 06 JAN 17 FEB 09 MAR 09 APR 14 MAY 10 JUN	NESS+ NONCAR- BONATE- DIS- (MG/L CACO3) 42 41 37 52 39 46	DIS- SOLVED (MG/L AS CA) 35 45 34 42 34 39	SIUM. DIS- SOLVED (MG/L 4S MG) 11 14 9.8 13 9.3 11	BONATE (MG/L AS HC03) 107 157 108 132 99 118	BONATE (MG/L AS CO3)  0  0  0  0  0  0	LINITY+ TOTAL (MG/L AS CACO3)  88 129 89 108 81 97 82	DIS- SOLVED (MG/L AS SO4) 47 57 39 46 37 47 38	RIDE. DIS- SOLVED (MG/L AS CL) 30 25 18 22 16 31	SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L) 138 73 151 86 127 87	ABLE MATTER (ML/L/ HR) <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GEN• NITRATE TOTAL (MG/L AS N)  1.1 1.6 1.3 1.9 1.1 1.2 2.1	GEN• NITRITE TOTAL (MG/L AS N)  .01 .01 .03 .02 .02 .04
OCT 12 NOV 10 DEC 06 JAN 17 FEB 09 MAR 09 APR 14 MAY 10 JUN 07 JUN 07 JUN	NESS+ NONCAR- BONATE, UIS- (MG/L CACO3) 42 41 37 52 39 46 48	DIS- SOLVED (MG/L AS CA) 35 45 34 42 34 42 34	SIUM. DIS- SOLVED (MG/L 4S MG) 11 14 9.8 13 9.3 11 9.4	BONATE (MG/L AS HCO3) 107 157 108 132 99 118 100	BONATE (MG/L AS CO3)  0  0  0  0  0  0  0	LINITY, TOTAL (MG/L AS CACO3) 88 129 89 108 81 97 82	DIS- SOLVED (MG/L AS SO4) 47 57 39 46 37 47 38	RIDE, DIS- SOLVED (MG/L AS CL) 30 25 18 22 16 31 20	SUSP. TOTAL. RESIDUE AT 110 DEG. C (MG/L) 138 73 151 86 127 87 120 216	ABLE MATTER (ML/L/ HR) <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GEN. NITRATE TOTAL (MG/L AS N)  1.1 1.6 1.3 1.9 1.1 1.2 2.1	GEN• NITRITE TOTAL (MG/L AS N)  .01 .01 .01 .03 .02 .02 .04 .02
OCT 12 NOV 10 DEC 06 JAN 17 FEB 09 MAR 09 APR 14 MAY 10 JUN 07 JUL 10 AUG	NESS+ NONCAR- BONATE- UIS- (MG/L CACO3) 42 41 37 52 39 46 48 45	DIS- SOLVED (MG/L AS CA) 35 45 34 42 34 39 36 42	SIUM. DIS- SOLVED (MG/L 4S MG) 11 14 9.8 13 9.3 11 9.4 12	BONATE (MG/L AS HCO3) 107 157 108 132 99 118 100 128	BONATE (MG/L AS CO3)  0  0  0  0  0  0  0  0  0	LINITY, TOTAL (MG/L AS CACO3) 88 129 89 108 81 97 82 105	DIS- SOLVED (MG/L AS 504) 47 57 39 46 37 47 38 48	RIDE, DIS- SOLVED (MG/L AS CL) 30 25 18 22 16 31 20 18 23	SUSP- TOTAL- RESIDUE AT 110 DEG. C (MG/L) 138 73 151 86 127 87 120 216	ABLE MATTER (ML/L/ HR) <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GEN. NITRATE TOTAL (MG/L AS N)  1.1 1.6 1.3 1.9 1.1 1.2 2.1 2.0 1.9	GEN- NITRITE TOTAL (MG/L AS N) -01 -01 -03 -02 -02 -04 -02
OCT 12 NOV 10 DEC 06 JAN 17 FEB 09 MAR 09 APR 14 MAY 10 JUL 10	NESS+ NONCAR- BONATE+ DIS+ (MG/L CACO3) 42 41 37 52 39 46 48 45 60	DIS- SOLVED (MG/L AS CA) 35 45 34 42 34 39 36 42 41 48	SIUM. DIS- SOLVED (MG/L 4S MG) 11 14 9.8 13 9.3 11 9.4 12 12	BONATE (MG/L AS HCO3) 107 157 108 132 99 118 100 128 128	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	LINITY, TOTAL (MG/L AS CACO3) 88 129 89 108 81 97 82 105 105	DIS- SOLVED (MG/L AS SO4) 47 57 39 46 37 47 38 48 48	RIDE + DIS - SOLVED (MG/L AS CL)  30 25 18 22 16 31 20 18 23 44	SUSP. TOTAL. RESIDUE AT 110 DEG. C (MG/L) 138 73 151 86 127 87 120 216 104	ABLE MATTER (ML/L/ HR)  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0  <1.0	GEN• NITRATE TOTAL (MG/L AS N)  1.1 1.6 1.3 1.9 1.1 2.0 1.9	GEN- NITRITE TOTAL (MG/L AS N) -01 -01 -03 -02 -04 -02 -03 -01

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

# MISSISSIPPI RIVER MAIN STEM

# 07374522 MISSISSIPPI RIVER AT VIOLET, LA--Continued

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN;AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM- DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)
0CT 12	1.1	.57	.30	2	0	2	0	0	0	<10	<9	1
NOV 10	1.6	.61	•28	3	1	2	0	0	0	0	0	0
DEC												
06 JAN	1.3	•51	•38	2	0	2	0	0	0	0	0	0
17 FEB	1.9	.48	.32	2	1	1	0	0	0	1	1	0
09 MAR	1.1	•53	.24	2	1	1	0	0	0	1	1	0
09 APR	1.2	.36	•31	2	1	1	10	0	10	1	0	1
14 MAY	2.1	.66	.25	4	0	4	10	10	0	1	0	1
10	2.0	.41	.30	3	2	1	0	0	0	1	0	1
JUN 07	1.9	.75	.16	4	1	3	0	0	0	2	1	1
JUL 10	1.1	.58	.25	3	1	2	10	10	0	2	0	2
AUG 17	1.6	.54	•25	3	1	2	0	0	0	1	1	0
SEP 12	.71	.38	•13	3	1	2	0	0	0	1	1	0
100144			- 22						7	1	,	
DATE	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER + TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER+ SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON* DIS- SOLVED (UG/L AS FE)	LEAD+ TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD+ DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
ост	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB)	DIS- SOLVED (UG/L AS PB)	TOTAL RECOV- ERABLE (UG/L AS HG)	SUS- PENDED RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS HG)
0CT 12	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB)	DIS- SOLVED (UG/L AS PB)	TOTAL RECOV- ERABLE (UG/L AS HG)	SUS- PENDED RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS HG)
0CT 12 NOV 10 DEC	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB) <100	SUS- PENDED RECOV- ERABLE (UG/L AS PB)	DIS- SOLVED (UG/L AS PB)	TOTAL RECOV- ERABLE (UG/L AS HG) .0	PENDED RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS HG)
OCT 12 NOV 10 DEC 06	MIUM+ TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE) 20 90 40	TOTAL RECOV- ERABLE (UG/L AS PB) <100	SUS- PENDED RECOV- ERABLE (UG/L AS PB)	DIS- SOLVED (UG/L AS PB)	TOTAL RECOV- ERABLE (UG/L AS HG)	PENDED RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS HG)
OCT 12 NOV 10 DEC 06 JAN 17 FEB	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB) <100	SUS- PENDED RECOV- ERABLE (UG/L AS PB)	DIS- SOLVED (UG/L AS PB)	TOTAL RECOV- ERABLE (UG/L AS HG) .0	PENDED RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS HG)
OCT 12 NOV 10 DEC 06 JAN 17 FEB 09	MIUM+ TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE) 20 90 40	TOTAL RECOV- ERABLE (UG/L AS PB) <100	SUS- PENDED RECOV- ERABLE (UG/L AS PB)	DIS- SOLVED (UG/L AS PB)	TOTAL RECOV- ERABLE (UG/L AS HG)	PENDED RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS HG)
OCT 12 NOV 10 DEC 06 JAN 17 FEB 09 MAR	MIUM+ TOTAL RECOV- ERABLE (UG/L AS CR) 30 16	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOL VED (UG/L AS FE) 20 90 40 50	TOTAL RECOV- ERABLE (UG/L AS PB) <100 8 4	SUS- PENDED RECOV- ERABLE (UG/L AS PB) <100 8	DIS- SOLVED (UG/L AS PB)	TOTAL RECOV- ERABLE (UG/L A5 HG)  .0 .0 .0	SUS- PENDED RECOV- ERABLE (UG/L AS HG) .0	DIS- SOLVED (UG/L AS HG)
OCT 12 NOV 10 DEC 06 JAN 17 FEB 09 MAR 09	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 30 16 0	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)  10 6 10 7	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOL VED (UG/L AS FE) 20 90 40 50	TOTAL RECOVERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB) <100 8 4 5	DIS- SOLVED (UG/L AS PB) 0 0 0	TOTAL RECOVERABLE (UG/L AS HG)	PENDED RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS HG) .0 .0
OCT 12 NOV 10 DEC 06 JAN 17 FEB 09 MAR 09 APR 14 MAY	MIUM+ TOTAL RECOV- ERABLE (UG/L AS CR) 30 16 0	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)  0 0 0 0	TOTAL RECOV- REABLE (UG/L AS CU)  10 6 10 7 6	SUS- PENDED RECOV- ERABLE (UG/L AS CU)  6 5 6 2	DIS- SOLVED (UG/L AS CU)	DIS- SOL VED (UG/L AS FE) 20 90 40 50 60	TOTAL RECOV- ERABLE (UG/L AS PB) <100 8 4 7 6	SUS-PENDED RECOV-ERABLE (UG/L AS PB)	DIS- SOLVED (UG/L AS PB) 0 0 0 2 2	TOTAL RECOV- ERABLE (UG/L AS HG)  .0 .0 .0 .0	PENDED RECOV- ERABLE (UG/L AS HG)  .0 .0 .0 .0	DIS- SOLVED (UG/L AS HG) .0 .0 .0
OCT 12 NOV 10 DEC 06 JAN 17 FEB 09 APR 14 MAY 10 JUN.	MIUM+ TOTAL RECOV- ERABLE (UG/L AS CR) 30 16 0	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CU)  10 6 10 7 6 13	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOL VED (UG/L AS FE) 20 90 40 50 60 10	TOTAL RECOV- ERABLE (UG/L AS PB) <100 8 4 7 6	SUS-PENDED RECOV-ERABLE (UG/L AS PB)  <100  8  4  5  4  2  3	DIS- SOLVED (UG/L AS PB)	TOTAL RECOV- ERABLE (UG/L AS HG)  .0 .0 .0 .0 .0 .0	SUS-PENDED RECOV-ERABLE (UG/L AS HG)  .0 .0 .0 .0 .0	DIS- SOLVED (UG/L AS HG) .0 .0 .0
OCT 12 NOV 10 DEC 06 JAN 17 FEB 09 MAR 09 APR 14 MAY 10 JUN 07 JUN	MIUM+ TOTAL RECOV- ERABLE (UG/L AS CR) 30 16 0	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CU)  10 6 10 7 6 13	SUS- PENDED RECOV- ERABLE (UG/L AS CU)  6 5 6 2 1 9	DIS- SOLVED (UG/L AS CU)  4  1  4  5  5  4  3	DIS- SOL VED (UG/L AS FE) 20 90 40 50 60 10 40	TOTAL RECOV- ERABLE (UG/L AS PB)  <100  8  4  7  6  7  4  8	SUS-PENDED RECOV-ERABLE (UG/L AS PB)  <100  8  4  5  4  2  3  3	DIS- SOLVED (UG/L AS PB) 0 0 0 2 2 5	TOTAL RECOVERABLE (UG/L AS HG)  .0 .0 .0 .0 .0 .0 .0 .0	SUS- PENDED RECOV- ERABLE (UG/L AS HG) .0 .0 .0	DIS- SOLVED (UG/L AS HG) -0 -0 -0 -0 -0
OCT 12 NOV 10 DEC 06 JAN 17 FEB 09 MAR 09 APR 14 MAY 10 JUN	MIUM. TOTAL RECOV- ERABLE (UG/L AS CR) 30 16 0 0	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)  0 0 0 0 0 0 0 0	TOTAL RECOV- REABLE (UG/L AS CU)  10 6 10 7 6 13 13 18	SUS- PENDED RECOV- ERABLE (UG/L AS CU)  6 5 6 2 1 9 10 11	DIS- SOLVED (UG/L AS CU)  4  1  4  5  4  7	DIS- SOLVED (UG/L AS FE) 20 90 40 50 60 10 40	TOTAL RECOVERABLE (UG/L AS PB)  <100 8 4 7 6 7 4 8 10	SUS-PENDED RECOV-ERABLE (UG/L AS PB)  <100  8 4 5 4 2 3 3 9	DIS- SOLVED (UG/L AS PB) 0 0 0 2 2 5 1 5	TOTAL RECOVERAGE (UG/L AS HG)	PENDED PEROED RECOV- ERABLE (UG/L AS HG)  .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	DIS- SOLVED (UG/L AS HG) -0 -0 -0 -0 -0

<sup>&</sup>lt; Actual value is known to be less than the value shown.

# MISSISSIPPI RIVER MAIN STEM

# 07374522 MISSISSIPPI RIVER AT VIOLET, LA--Continued

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC+ SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)
OCT 12	<50	<47	3	0	0	0	2.2	40	20	20	4.9	.00
NOV	(50	141	3	U	U	Ü	2.2	40		20	4.,	•00
10 DEC	10	9	1	0	0	0	.3	40	30	10	5.3	.00
06	14	13	1	0	0	0	.8	40	30	10	6.2	.00
JAN 17	11	8	3	0	0	0		30	10	20	4.0	.00
FEB 09	12	10	2	0	0	0	.0	40	0	40	1.3	.00
MAR 09	7	6	1	0	0	0	.0	20	10	10	4.5	.00
APR 14	17	12	5	0	0	0	.0	30	20	10	7.1	.00
MAY 10	9	8	1	1	1	0	.0	40	30	10	9.3	.00
JUN 07	18	15	3	1	0	1	1.1	60	40	20	5.6	.00
10	7	1	6	1	0	1	.0	20	0	20	4.4	.00
AUG 17	8	4	4	1	1	0	1.9	20	0	20	5.4	.00
SEP 12	4	2	2	0	0	0	1.0	10	0	10	5.8	.00

	PHENOLS	OIL AND GREASE
DATE	(UG/L)	(MG/L)
OCT		
12	2	0
NOV	1	0
10 DEC	1	U
06	2	0
JAN	-	
17	2	0
FEB		
09	0	0
MAR		
09	1	0
APR		
14	0	0
MAY		
10 JUN	0	0
07	2	0
JUL	2	· ·
10	0	0
AUG		
17	0	0
SEP		
12	1	0

### MISSISSIPPI RIVER MAIN STEM

#### 07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA (National stream-quality accounting network station)

LOCATION.--Lat 29°51'25", long 89°58'40", in lot 20, T.14 S., R.12 E., Plaquemines Parish, Hydrologic Unit 08090100, at ferry crossing at Belle Chasse, and at mile 76.0 (122.3 km).

DRAINAGE AREA. -- 1,129,930 mi<sup>2</sup> (2,926,500 km<sup>2</sup>), arbitrarily determined.

PERIOD OF RECORD. --

SPECIFIC CONDUCTANCE: October 1974 to current year. WATER TEMPERATURES: October 1975 to current year. CHLORIDE: October 1974 to current year.

SULFATE: October 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: Maximum, 621 micromhos June 26, 1977; minimum, 248 micromhos Mar. 31, 1976.
WATER TEMPERATURES: Maximum, 32.0°C several days in July and August, 1977; minimum, 2.0°C Feb. 6, 8, 10, 11, 1978.
CHLORIDE: Maximum, 85 mg/L June 26, 27, 1977; minimum, 11 mg/L Apr. 21, May 12, 1976.
SULFATE: Maximum, 93 mg/L Oct. 30, 1976; minimum, 28 mg/L Apr. 1, 1976.

EXTREMES FOR CURRENT YEAR. --

SPECIFIC CONDUCTANCE: Maximum, 505 micromhos July 6, Sep. 27; minimum, 273 micromhos Feb. 16.
WATER TEMPERATURES: Maximum, 31.0°C several days in July and August; minimum, 2.0°C Feb. 6, 8, 10, 11.
CHLORIDE: Maximum, 47 mg/L July 6; minimum, 14 mg/L Feb. 10.
SULFATE: Maximum, 73 mg/L Sep. 20; minimum, 31 mg/L May 27.

DATE	TIME	STREAM- FLOW: INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- CGBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FURM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)
OCT	1000				0.10			-				
12 NOV	1045		400	7.6	22.5	30	80	7.2	.9	3500	K1800	140
10 DEC	0945		440	7.7	17.0	0	65	8.8	1.6	2900	1800	170
06	1030		318	7.8	11.5	15	20	9.8	2.5		3800	130
JAN 18	1300		391	7.9	3.5	10	65	13.2	3.0	2300	K2000	150
FEB 09	1345		291	7.8	1.5	30	60	12.7	4.8	K800	500	110
MAR 09	0930		380	7.7	5.5	10	40	12.1	3.1	3200	2100	140
APR 14	v830	953000	327	7.3	14.5	50	80	7.3	.2	1100		130
MAY												152
10 JUN	0830		384	7.6	17.5	15	110	7.5	1.1	2400		150
29	1230 1430	746000	376 414	7.2	25.0	40	55 25	6.5	6.0	K2000	K2800	150 160
AUG 17	0900	291100	413	7.4	29.5	15	40	6.8	.8		1400	160
SEP 12	1000	249000	499	7.7	29.0	5	10	7.2	.3	K2200	200	180
DATE	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SCDIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE; DIS- SOLVED (MG/L AS CL)
0CT 12	48	37	11	24	27	.9	4.3	112	0	92	50	30
NOV 10	45	44	14	22	22	.7	3.5	152	0	125	57	25
DEC 06	38	35	9.8	15	20	.6	3.4	110	0	90	39	18
JAN	52	44	9.7	17	19	.6	2.8	110	0	90	47	26
18 FEB									0			
09 MAR	28	32	7.3	12	19	•5	2.3	101		83	34	17
09 APR	42	39	11	20	23	.7	2.3	119	0	98	45	30
14	46	35	9.3	13	18	.5	3.5	103	0	84	38	19
MAY 10	43	40	12	14	17	•5	3.4	130	0	107	46	17
JUN 08	40	39	12	18	18	5.0	3.1	127	0	104	48	23
29 AUG	49	42	13	20	21	.7	3.2	133	0	109	51	30
17	48	43	12	19	20	.7	3.6	137	0	112	50	23
SEP										131		36

K Results based on colony count outside the acceptable range (non-ideal colony count).

# MISSISSIPPI RIVER MAIN STEM

# 07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA--Continued

DATE	FLUO- RIDE: DIS- SOLVED (MG/L AS F)	SILIO DIS- SOL (MG. AS	CA, RE - AT VED L	DLIDS, ESIDUE 1 180 DEG. C DIS- SOLVED (MG/L)	SOLIC SUM ( CONST TUENT DIS SOLV	OF S TI- TS, S- VED	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOI (T	IS-	NITRO GEN• NO2+NO TOTAL (MG/L AS N)	3 AM T (	ITRO- GEN+ MONIA OTAL MG/L S N)	NITRO GENE ORGANI TOTAL (MG/L AS N)	O- GE MO IC OR	ITRO- N.AM- NIA + GANIC OTAL MG/L S N)	NITRO EN, NH + ORG SUSP. TOTAL (MG/L AS N)	GEN MON ORG DI	TRO- N.AM- NIA + GANIC IS. IG/L N)
OCT 12	• 4		6.7	220		219	.30			1.1					. 65			
NOV	.2		7.6	252		248	.34			1.6				-	.57			
10 DEC				178		182	.24			1.3				_	.70			
06 JAN	• 3		7.2	-										_				
18 FEB	•2		7.9	226		209	.31			1.9		.10				-		.61
09 MAR	.1		6.3	163	1	161	.22			1.1		.12		57	.79	.0	0	
09 APR	•5		5.9	209	é	213	.28			1.2		.18	• 5	54	.72	.3	1	.41
14 MAY	• 2	(	5.5	184	1	176	.25	47	3000	2.1		.14	.6	5	.79	.02	2	.77
10	.2		7.1	207	2	204	.28			2.0		.03	2.5	5	2.5	1.9		.64
JUN 08 29	.2		5.9	219 235		211	.30	44	1000	1.8		.05	.6		.71 .67	.13		.46
AUG 17	•5		7.2	266	2	226	.36	20	9000	1.7		.15	,:	35	.50	.0	3	.47
SEP 12	.5		4.0	315	ž	292	.43	21	2000	.6	3	.07		-		_		.91
DAT	NIT GE TOT (MG	N, AL /L	NITRO- GEN, TOTAL (MG/L 4S NO3)	PHOR TOT (MG	S- F US, AL /L	PHOS- PHORUS DIS- SOLVE (MG/L AS P)	ORGA ORGA TOT	NIC AL /L	CARBO ORGAN DIS- SOLVE (MG/ AS C	N, OR IC S PE D T L (	RBON, GANIC US- NDED OTAL MG/L S C)	PHY PLAI TOT TOT (CEI PER I	TO- NK- S N, AL % _LS	SEU. SUSP. SIEVE DIAM. FINER THAN 062 MM	SEDI- MENT SUS- PENDE	CHA	EDI- ENT IS- ARGE, JS- ENDED (DAY)	
ост																		
NOV		.8	7.7		.33			5.7						94		3		
10. DEC		.2	9.6		.30							1.	200	93		97		
JAN		.0	8.9		.40	-								88		26		
18, FEB	•••				.33	• 1	1 4		4	. 1	1.8			91	24	7		
U9.		.9	8.4		.26	• 1	11	3.5						88	15	8		
09.	1	.9	8.5		.32	• 6	20	4.4				2	000	92	12	24		
14	2	.9	13		.27	. (	05		4	.7	2.5			84	36	63 93	34000	
MAY 10.	4	.5	20		.29	. (	08							82	35	54		
JUN 08		.5	11		.22		09	5.1						89			55000	
29. AUG 17.		.1	9.2		.15		14	5.2		.6				97		7 2		
SEP 12					.18			5.0						95		4 4980	1700	

# MISSISSIPPI RIVER MAIN STEM

# 07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA--Continued

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	PENDED RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	MIUM+ TOTAL RECOV- ERABLE (UG/L AS CR)
12	3	1	2				30	26	4	30
JAN 18	3	1	2	100	0	100	2	1	1	10
APR 14	4	0	4	300	0	300	4	2	2	0
JUN 29	3	1	5	100	0	200	1	0	1	0
DATE	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT+ TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT. SUS- PENDED RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER* SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)	IRON+ TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)
0CT 12	20	10	<50	<50	0	30	23	7	6100	6100
JAN 18	10	0	3	3	0	12	8	4	5100	5100
APR 14	0	0	2	2	0	26	22	4	5300	5300
JUN 29	0	0	2	0	2	12	5	7	1600	1600
27										
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD. DIS- SOLVED (UG/L AS PB)	MANGA- NESE; TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE + DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
OCT 12	40	<100	<100	0	270	250	20	• 0	.0	.0
JAN 18	20	10	9	1	260	250	10	.0	.0	.0
APR 14	20	6	5	1	240	220	20	.1	.0	.1
JUN 29	20	6	1	5	80	50	30	• 0	.0	.0
DA	NI TO (U	LE- SI UM, PEI TAL TO G/L (U	TAL SOL	IM+ TOT IS- REC IVED ERA	ER SI FAL PEN COV- REC BLE ER	ABLE SOL	G/L (UC	TAL PEN COV- REC ABLE ERA	IS- IDED ZIN IOV- DI IBLE SOL	S- VED
001	2	0	0	0				40	10	30
JAN		0	0	0	1	1	0	40	20	20
APR		0	0	0	0	0	0	30	20	10
JUN	9	0	0	0	0	0	0	20	10	10
	DATE	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA+ SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA+ SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)	
	JAN 18 JUN	<3,3		5.9	18	5.1		.15	•7	
	29	4.1	.9	7.2	1.2	6.8	1.1	.11		

# MISSISSIPPI RIVER MAIN STEM

## 07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)
0CT 12	• 0	.00	•00	.0	.00	.00	.00	.00	.00	.00	.00	.00
DATE	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
0CT 12	.00	.00	•00	.00	.00	.00	.00	0	.00	.00	.00	.01

## SPECIAL ANALYSES FOR ORGANIC COMPOUNDS

The following data are from samples collected for analysis of volatile organic compounds. Techniques and methodology are discussed in the Introduction.

COMPOUND

CONCENTRATION (UG/L)

OCTOBER 12, 1978 1045 HOURS

VOLATILE D

DICHLOROMETHANE CHLOROFORM 1, 2-DICHLOROETHANE 6

#### MISSISSIPPI RIVER MAIN STEM

07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB DAY 334 448 379 443 298 377 324 434 426 328 354 341 311 374 329 384 344 467 445 446 2 426 420 333 340 385 326 392 346 484 450 444 415 416 3 380 416 332 351 298 383 321 395 351 502 454 459 361 503 463 5 379 420 324 353 293 376 319 398 382 347 396 374 505 456 455 427 320 362 6 382 371 309 382 331 387 381 498 457 431 388 445 321 382 454 377 501 448 8 397 435 321 385 299 384 311 377 295 384 312 378 456 9 394 434 324 386 495 450 ---10 405 434 320 377 289 385 316 380 321 377 382 387 490 450 11 427 448 320 384 299 442 389 494 398 314 388 308 395 324 365 455 304 404 326 376 395 463 459 476 392 306 13 385 392 311 410 326 386 396 482 467 459 384 14 380 311 394 279 401 329 387 406 473 447 476 410 474 472 273 392 330 371 430 394 16 FRE 371 314 416 476 411 459 378 308 391 278 384 354 17 385 303 408 283 385 336 348 416 486 423 461 18 392 396 494 459 378 384 293 382 342 351 420 441 19 404 304 448 344 343 426 484 468 20 407 354 304 376 309 378 480 383 347 336 434 462 456 21 415 304 476 338 296 372 333 373 350 331 438 456 22 409 438 470 458 441 23 410 342 304 362 350 371 358 323 367 458 363 322 434 24 413 347 305 339 423 452 456 466 309 328 365 359 376 320 352 25 411 489 409 308 324 380 355 377 314 422 458 443 26 415 443 505 27 405 365 316 319 383 354 380 312 452 311 412 452 440 493 378 358 28 405 382 319 316 392 378 414 436 435 488 296 348 316 384 332 29 403 ---377 319 429 439 436 482 30 409 371 332 296 338 31 415 331 303 \_\_\_ 323 448 444 ---357 473 449 466 402 394 317 359 313 377 MONTH 273 YEAR MAX 505 MIN MEAN 387 TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCF-DAILY OCT NOV FEB APR MAY JUN JUL AUG SEP DAY DEC JAN MAR 29.0 31.0 23.0 30.0 29.0 8.0 4.0 6.0 10.0 20.0 15.0 23.0 29.0 31.0 ---30.0 2 28.0 7.0 4.0 6.0 11.0 21.0 7.0 ---6.0 10.0 20.0 24.0 29.0 30.0 30.0 3 25.0 15.0 2.5 23.0 30.0 24.0 15.0 6.0 6.0 12.0 18.0 18.0 3.0 6.0 12.0 19.0 24.0 30.0 31.0 29.0 5 29.0 29.0 18.0 9.0 2.0 8.0 13.0 18.0 25.0 31.0 25.0 15.0 6 25.0 30.0 31.0 29.0 19.0 12.0 11.0 3.0 7.0 13.0 18.0 24.0 18.0 10.0 2.0 7.0 13.0 20.0 25.0 30.0 29.0 8 12.0 9 18.0 12.0 8.0 3.0 7.0 14.0 18.0 25.0 30.0 30.0 29.0 24.0 10 18.0 11.0 5.0 2.0 7.0 15.0 18.0 20.0 31.0 30.0 29.0 27.0 30.0 29.0 18.0 10.0 6.0 2.0 8.0 11 24.0 15.0 22.0 18.0 10.0 7.0 3.0 10.0 18.0 26.0 31.0 30.0 28.5 27.0 31.0 30.0 28.0 3.0 13 22.0 17.0 11.0 6.0 11.0 18.0 21.0 17.0 10.0 5.0 5.0 12.0 18.0 19.0 26.0 31.0 30.0 28.0 14 15 21.0 17.0 12.0 7.0 6.0 12.0 16.0 19.0 26.0 31.0 30.0 28.0 27.0 31.0 30.0 28.0 18.0 11.0 5.0 3.0 9.0 20.0 16.0 16 9.0 17.0 26.0 30.0 28.0 20.0 5.0 8.0 20.0 31.0 10.0 17 18.0 17.0 5.0 7.0 9.0 18.0 20.0 27.0 31.0 30.0 29.0 18 20.0 10.0 17.0 5.0 4.0 10.0 18.0 21.0 27.0 31.0 30.0 29.0 19 11.0 29.0 28.0 20 20-0 8.0 4 - 0 4-0 10.0 18.0 21.0 26.0 19.0 21 20.0 8.0 4.0 4.0 9.0 18.0 21.0 27.0 31.0 30.0 28.0 22 18.0 8.0 4.0 4.0 9.0 18.0 21.0 27.0 30.0 29.0 ---4.5 27.0 31.0 30.0 28.0 10.0 19.0 21.0 23 20.0 8.0 4.0 17.0 5.0 19.0 21.0 28.0 31.0 30.0 28.0 24 10.0 25 18.0 10.0 9.0 5.0 10.0 28.0 30.0 30.0 28.0 28.0 26 15.0 8.0 7.0 21.0 30.0 28.0 ---5.0 10.0 18.0 30.0 29.0 30.0 30.0 28.0 27 5.0 5.0 15.0 8.0 9.0 18.0 21.0 28 ---15.0 8.0 6.0 4.0 9.0 18.0 22.0 29.0 30.0 29.0 28.0 29 ---14.0 8.0 4.0 9.0 18.0 22.0 29.0 30.0 29.0 28.0 ---30 18.0 15.0 8.0 4.0 9.0 22.0 29.0 30.0 30.0 28.0 4.0 ---31.0 30.0 31 8.0 ---22.0 MONTH 17.5 10.5 6.0 4.0 8.5 15.5 20.0 26.0 30.5 30.0 28.5

# MISSISSIPPI RIVER MAIN STEM

## 07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA--Continued

DISSOLVED SULFATE (SO4), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

		DIS	302 420 30	LIAIL 130	0	NCE-DAILY		N 1911 10	JET TEMPE			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	41 51 52 46 47	53 46 51 52 52	45 45 43 45	39 44 44 43 45	39 43  39 37	44 45 46 43 44	42 47 41 42 41	44 47 46 45 46	41 40 41 43 45	43 57 50 59 54	59 56 61 58 48	65 68 64  67
6 7 8 9	46 48 47 49	51 53 54 54 55	42 36 42 42 38	47 47 49 49	39 39 37 37 33	45 45 45 47 48	42 43 40 40 39	50 49 49 47 47	40 45 51 53	60 52 61 61 61	47 45 50 48 45	68 64 66 
11 12 13 14 15	49 53 48 51 50	58 58 52 49 48	41 42 43 43 45	49 48 49 49	38 40 41 39 39	41  45 40 46	37 38 40 39 42	44 35 46 43 48	53 51 49 51 49	58 60 63 61 61	53 47 61 60 61	67 65 71
16 17 18 19 20	52 52 54 55 56	47 43 45 45 44	45 42 40 42 42	48 47 48 53 37	38 38 37 39 41	46 46 48 45 45	40 42 40 42 40	43 44 42 43 42	40 49 49 49 51	61 63 62 63 62	60 55 56 58 60	69 67 67 68 73
21 22 23 24 25	58 57 56 57 57	41 38 43 43 45	34 39 38 38 38	45 41 45 43	43 43 44  45	47 45 46 48 42	42 39 42 42 42	42 40 42 41 33	54 52 53 53 51	59 57 59 60	53 60 58 54 50	72 72 70 66 66
26 27 28 29 30 31	55 56 56 54 53	46 48 47 50 48	42 41 41 44 43 40	43 40 41 40 39	45 45 45 	37 47 46 47 45	42  	32 31 36 38 37 39	51 52 50 50 47	53 49 52 55 54 57	60 52 62 61 62 64	68 67 69 66 65
MONTH	52	49	41	45	40	44	41	42	40	58	56	68
YEAR	MAX	73	MIN	31	MEAN	49						
		DIS	SOLVED CH	LORIDE (C	L), MG/L,	WATER YE		R 1977 TO	SEPTEMBE	R 1978		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	31 32 31 28 26	30 32 30 30 30	21 21 21 20	21 21 20 22 22	20 20 20 20 20	29 30 30 30 26	30 35 35 32 32	22 23 23 22 22	17 15 20 20 18	35 38 42 44 46	28 28 30 30 34	26 26 26 26
6 7 8 9	30 30 33 32 34	32 30 30 28 27	18 18 20 18 18	25 24 25 23 24	22 20 18 20 14	28 28 28 28 28	35 35 30 30 30	20 23 21 22 24	24 27 24 18 26	47 45 44 44	32 32 30 30 28	27 25 26
11 12 13 14 15	30 32 28 30 30	26 30 28 28 28	19 17 16 18 18	25 25 25 25 25 22	17 18 18 17 17	26 30 34 34 38	38 35 28 35 23	21 21 21 24 23	21 24 25 25	40 38 38 36 37	26 28 26 25 26	32 28 33
16 17 18 19 20	28 24 29 28 28	26 26 24 24 24	18 18 17 18 17	22 23 24 26 22	19 18 17 17 20	33 30 34 33 33	21 22 21 21 20	22 22 20 19	27 28 20 30 28	38 38 36 36 36	24 24 24 26 26	29 26 31 25 31
21 22 23 24 25	31 27 28 26 25	24 20 21 21 23	18 16 21 19 21	24 22 22 22 22 21	19 19 21  23	30 30 27 29 26	20 21 23 22 24	20 18 15 17 18	28 30 30 28	34 32 32 32 26	28 28 28 27 26	33 33 31 28 30
26 27 28 29 30 31	24 24 23 26 29 40	24 27 26 25 25	18 18 20 22 19 21	24 22 20 20 20 20	28 27 31	25 23 25 23 26	24 24 24 22 22	18 16 14 16 18	27 25 24 28 31	30 28 25 26 28 28	27 26 26 26 26 26 26	35 39 36 34 33
٠.					200		-	***		-5		

19 23 20 29

MEAN

26

14

36 27 30

27

47

MIN

MAX

MONTH

YEAR

# MISSISSIPPI RIVER MAIN STEM

## 07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SPETEMBER 1978

NOV. 10, 1977 0945 HOURS

PHYTOPLANKTON 1,200 CELLS/ML

_ORGANISMNAME	CELLS/ML	PER_CENT
CHLOROPHYTA .CHLOROPHYCEAE .CHLOROCOCCALESCOELASTRACEAE		
COELASTRUM SCENEDESMACEAE	110	9
SCENEDESMUS CHRYSOPHYTA	61	5
.BACILLARIOPHYCEAECENTRALES		
COSCINODISCACEAE CYCLOTELLA	180	16
MELOSIRA STEPHANODISCUS PENNALES	470 54	41 5
DIATOMACEAE DIATOMA NITZSCHIACEAE	23	2
NITZSCHIACEAE NITZSCHIA CYANOPHYTA	8	1
HORMOGONALES		
OSCILLATORIACEAE OSCILLATORIA	250	21

MAR. 9, 1978 0930 HOURS

PHYTOPLANKTON 2,000 CELLS/ML

_ORGANISMNAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
CHLOROCOCCALES		
MICRACTINIACEAE		
MICRACTINIUM	32	2
OOCYSTACEAE	, ,	-
ANKISTRODESMUS	53	3
DICTYOSPHAERIUM	32	2
SCENEDESMACEAE	7.	-
CRUCIGENIA	43	2
TETRASTRUM	43	2
VOLVOCALES	12	2
CHLAMYDOMONADACEAE		
CHLAMYDOMONAS	53	3
PHACOTACEAE	,,,	,
PTEROMONAS	11	1
ZYGNEMATALES		-
ZYGNEMATACEAE		
MOUGEOTIA	6.4	3
CHRYSOPHYTA	0 1	
BACILLARIOPHYCEAE		
CENTRALES		
COSCINODISCACEAE		
CYCLOTELLA	710	36
MELOSIRA	380	20
PENNALES	200	20
FRAGILARIACEAE		
ASTERIONELLA	150	8
SYNEDRA	43	2
GOMPHONEMATACEAE	7,7	2
GOMPHONEMA	11	1
NITZSCHIACEAE	**	-
HANTZSCHIA		0
SURIRELLACEAE		o .
SURIRELLA	11	1
CYANOPHYTA	• •	
.CYANOPHYCEAE		
HORMOGONALES		
OSCILLATORIACEAE		
OSCILLATORIA	320	16
	220	-0

## MISSISSIPPI RIVER MAIN STEM

## 07374550 MISSISSIPPI RIVER AT VENICE, LA

LOCATION.--Lat 29°16'33", long 89°21'10", T.21 S., R.31 E., Plaquemines Parish, Hydrologic Unit 08090100, in center of river at Venice and at mile 10.7 (17.2 km).

DRAINAGE AREA. -- Not determined.

PERIOD OF RECORD. --Water years 1973 to current year.

WATER	QUALITY	DATA.	WATER	YFAR	OCTORER	1977	TO	SEPTEMBER	1078

	16		WATER QU	JALITY DAT	A, WATER	YEAR OCT	BER 1977	TO SEPTEM	BER 1978			
DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BIO- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)
OCT 11	1530	398	7.8	24.0	10	80	7.2	36	1.0	1400	1100	130
NOV 10	1430	430	7.7	17.0	0	55	8.8	20	1.4	3600	550	170
DEC 05	1430	330	8.0	13.0	15	35	8.7	37	2.3	8800	1500	130
JAN 19	0915	395	7.6	4.0	10	50	12.0	27	2.5	4000	K1600	170
FEB 01	0915	301	7.9	3.5	15	70	12.0	20	3.5	6600	K830	130
MAR 09	1400	377	7.6	5.5	10	40	11.9	12	2.6	3600	K1600	140
APR 20	1700	324	7.5	17.0	15	55		25		2800	K1400	130
MAY 22	1130	389	8.0	19.0	15	50	7.1	29	1.1	800	480	140
JUN 08	1715	375	7.4	25.0	30	70	6.5	23	1.5	2300	300	150
JUL	1230	504	7.9		5	15		8	.6	6200		180
AUG				30.0			6.4				K1200	
17 SEP 11	1600	439 571	7.3	31.5	15 15	70	7.9	30	1.7	48000	120	160 170
DATE	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN; NITRATE TOTAL (MG/L AS N)	NITRO- GEN+ NITRITE TOTAL (MG/L AS N)
ост 11	40	36	10	110	0	90	48	31	158	<1.0	1.1	.01
NOV 10	53	45	14	143	0	117	55	28	98	<1.0		
DEC 05	38	36	9.9	113	0	93	38	22	296	<1.0	1.4	.02
JAN 19	63	48	13	131	0	107	45	24	94	<1.0	2.0	.05
FEB 01	46	35	9.2	103	0	84	37	18	162	<1.0	1.2	.02
MAR	44	39	11	120	0	98	45	32	77	<1.0	1.1	.02
09 APR		37	10		0	91	40	19	217	<1.0	1.9	.05
20 MAY	43			111	0	90			314			
JUN	47	35	12	110			42	42		<1.0	1.5	.01
08	47	41	12	128	0	105	48	22	224	<1.0	1.8	.03
10 AUG	59	47	14	147	0	121	61	44	34	<1.0	.92	.01
SEP	42	45	12	146	0	120	56	23	82	<1.0	1.8	.05
11	52	45	14	144	0	120	70	61	10	<1.0	.77	.01

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

## MISSISSIPPI RIVER MAIN STEM

# 07374550 MISSISSIPPI RIVER AT VENICE, LA--Continued

DATE	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)
ост	0.2		2.0									
11	1.1	.65	.36	2	0	2	10	0	10	40	37	3
10 DEC			.24	2	0	2	0	0	0	0	0	0
05 JAN	1.4	.72	.38	3	2	1	0	0	0	0	0	0
19	2.0	.51	.21	2	1	1	0	0	0	1	1	0
FEB 01	1.2	.47	• 35	. 2	1	1	10	10	0	1	1	0
09	1.1	.40	.31	2	1	1	0	0	0	1	0	1
APR 20	1.9	.65	.07	3	2	1	0	0	0	5	2	3
22	1.5	.58	.36	2	1	1	0	0	0	0	0	0
JUN 08	1.8	.46	.20	4	1	3	0	0	0	4	3	1
JUL 10	.93	.49	•11	3	1	2	10	10	0	2	0	2
AUG 17	1.8	.59	.36	4	2	2	0	0	0	2	1	1
SEP									0			0
11	.78	•99	•13	2	0	2	0	0	U	1	1	U
DATE	CHRO- MIUM. TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER+ DIS- SOLVED (UG/L AS CU)	IRON+ DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD. DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
OCT	25	0	20	13	7	20	<100	<100	0	.0	.0	.0
NOV 10	8	0	13	0	13	180			22	.0	.0	•0
DEC						100000	9		1			
05 JAN	0	0	19	6	13	50		8		• 0	.0	• 0
19 FEB	10	0	11	8	3	20	7	5	2	• 0	.0	• 0
01 MAR	10	0	9	5	4	40	8	8	0	•2	.2	• 0
09	0	0	24	17	7	10	6	2	4	• 0	• 0	• 0
20 MAY	0	0	16	1	15	30	8	4	4	.0	.0	.0
					3	40	6	6	0	.0	.0	.0
22	15	0	10	7	3							
JUN 08	15 10	0	10 25	20	5	30	13	12	1	• 0	.0	• 0
JUN 08 JUL 10			93.					12	1	•0	.0	•0
JUN 08 JUL	10	0	25	20	5	30	13					

<sup>&</sup>lt; Actual value is known to be less than the value shown.

## MISSISSIPPI RIVER MAIN STEM

# 07374550 MISSISSIPPI RIVER AT VENICE, LA--Continued

ERABLE ERABLE SOLVED TOTAL TOTAL SOLVED SOLVED ERABLE ERABLE SOLVED TO	NIC CYANIDE AL TOTAL /L (MG/L C) AS CN)
OCT	
11 <50 <48 2 0 0 0 2.7 40 0 40 NOV	5.7 .00
10 11 9 2 0 0 0 .2 40 0 40	5.3 .00
DEC 05 17 16 1 0 0 0 .6 40 20 20	7.0 .00
JAN	7.0
19 11 8 3 0 0 0 30 10 20	4.8 .00
FEB 01 15 12 3 2 2 0 1.0 30 10 20	6.2 .00
MAR	
09 9 5 4 0 0 0 1.0 20 10 10 APR	5.1 .00
20 6 0 6 0 0 0 1.0 30 0 30	6.8 .00
MAY 22 4 4 0 0 0 0 1.0 20 10 10	8.2 .00
JUN	
08 11 9 2 1 0 1 15 40 30 10	6.3 .00
JUL 10 7 2 5 1 0 1 .0 20 0 20	3.7 .00
10 7 2 5 1 0 1 .0 20 0 20 AUG	3.7 .00
17 10 6 4 1 1 0 .0 30 10 20 SEP	8.2 .00
11 5 4 1 0 0 0 .7 20 10 10	5.5 .00

		PHENOLS	OIL AND GREASE
	DATE	(UG/L)	(MG/L)
(	СТ		
	11	2	0
1	10 V		
	10	1	0
	DEC		
	05	2	0
	JAN 19	2	0
	EB	2	U
	01	4	0
	1AR	4	U
	09	1	0
1	APR		
	20	3	0
١	YAY		
	22	1	0
	JUN		
	08	2	0
	JUL		
	10	2	0
	AUG	2	0
	17 SEP	3	0
	11	1	

## 291230089014000 NORTH PASS (AT MOUTH) OF MISSISSIPPI RIVER NEAR PILOTTOWN, LA (CE 01900)

LOCATION.--Lat 29°12'30", long 89°01'40", Plaquemines Parish, Hydrologic Unit 08090100, 14 mi (22.5 km) east of Pilottown.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year (discontinued).

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

			WAIER GC	ALIII DAI	AT WAILK	TEAR OUT	DEK TALL	IN SELIE	ABEK 1910			
DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS- PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CACO3)
0CT 28	1140	840	8.1	0	40	7.6	26	.5			200	86
16	1045	555	8.0	40	75	9.7	57	2.6	K8900	K200	160	55
DEC 15	1325	327	7.4	15	15	9.7	43	1.7	5600	K650	120	31
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HC03)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
0CT 28	44	21			- 1		139	0	114	1.8	71	150
16 DEC	39	16			4-		128	0	105	2.0	52	69
15	32	9.2	18	24	•7	2.9	106	0	87	6.8	37	22
DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
OCT 28	70	<1.0	1.5	.01	1.5	.51	.26	2	0	2	0	0
NOV 16	268	<1.0	1.3	.01	1.3	.56	.40	3	1	2	0	0
DEC 15	8	<1.0	1.2	.03	1.2	1.1	.37	3	1	2	0	0
13	0	11.0	1.2	.05	1.2		•31	3		2	v	U
DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD+ SUS- PENDED RECOV- ERABLE (UG/L AS PB)
OCT 28	0	<10	<10	0	30	0	<10	<6	4	40	<100	<100
NOV 16	0	0	0	0	0	0	22	21	1	50	9	8
DEC 15	0	0	0	0	0	0	11	10	1	40	10	10

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

# 291230089014000 NORTH PASS (AT MOUTH) OF MISSISSIPPI RIVER NEAR PILOTTOWN, LA (CE 01900)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DA	S	EAD, DIS- OLVED UG/L S PB)	MERC TOT REC ERA (UG AS	URY AL OV- BLE /L	MERCUR' SUS- PENDEI RECOV- ERABLI (UG/L AS HG	D MERO	S- VED	ERA (UG	AL OV- BLE		S- DED OV- BLE /L	NICKE DIS- SOLV (UG/ AS N	ED L	SELE NIUM TOTA (UG/ AS S	- , ! L	SELE- NIUM, SUS- PENDEC TOTAL (UG/L AS SE)	SOL	4. 5- /ED	VANA- DIUM DIS- SOLVE (UG/L AS VI	<b>.</b> ED
ост	3	0		.0		0	.0		<50		<50		0		0	(	)	0		
NOV		1		.0			.0		16		14		2		1	1		0		. 0
DEC		0		.0			.0		18		17		1		0	(	)	0		. 0
1.5	····	,			•															
DATE	ZINC, TOTAL RECOV ERABL (UG/L AS ZN	PE EF	INC + GUS - ENDED ECOV - RABLE UG/L S ZN)	ZIN DI SOL (UG AS	S- OF VED /L	ARBON, RGANIC TOTAL (MG/L AS C)	TO (M	NIDE TAL G/L CN)		NOLS	GRI	IL ND EASE G/L)	TOT	B, AL 6/L)	NAPH- THA- LENES POL' CHLOS TOTAL (UG/	- - - - R. AL	DRIN, OTAL (UG/L)	DAN		DDD+ TOTAL (UG/L)
ост										2		0		0		00	.000		.0	.000
28 VOV	2		10		10	6.1		•00						• 0			.002			.000
16 DEC	4		20		20	6.2		.00		1		0		.0		00			.0	.000
15	5	0	50		0	6.7		.00		7		0		• 0		00	.000		• 0	.000
DATE	DDE • TOTAL (UG/L	TO	DDT, DTAL UG/L)	DI AZIN TOT (UG	ON, I	DI- ELDRIN TOTAL (UG/L)	SUL TO	DO- FAN, TAL G/L)	TO	RIN, TAL G/L)	TO	ION, TAL G/L)	CHL TOT		HEPT CHLO EPOXI TOTA (UG/	DE LI	(NDANE (OTAL (UG/L)	TH	LA- ION, TAL G/L)	METH- OXY- CHLOR, TOTAL (UG/L)
OCT 28	.00	0	.000		.01	.000		.000		.000		.00		.000	.0	02	.001		.00	.00
NOV 16	.00	0	.000		•01	.004		.000		.002		.00		.000	. 0	00	.002		.00	.00
DEC 15	.00	0	.000		•01	.003		.000		.001		.00		.000	. 0	00	.000		.00	.00
DA	P T T	ETHYL ARA- HION, OTAL UG/L)	THI TOT	HYL II- ON, AL	PARA- THION TOTAL (UG/L	, APHE		THI	I -	TO	EX,	2,4- TOTA (UG/	L	2,4,5 TOTA (UG/	L	ILVEX TOTAL (UG/L)	FLUO	TO- NK- N MO ROM	CHLOR PHYT PLAN TON CHROM FLUOR	0- K- 0 0M
ост									0.0		0.0		0.0		01	.00	0 1.	20	.0	0.0
NOV		•00		•00	• 0		0.0		•00		.00		00						.0	
DEC		.00		.00	.0		0.0		•00		.00		01		01	.0				
15		.00		.00	• 0	0	0.0		.00		.00		00		01	.0	•	000	• 0	00

<sup>&</sup>lt; Actual value is known to be less than the value shown.

290053089095700 SOUTH PASS (MILE 13.0 BHP) OF MISSISSIPPI RIVER NEAR PORT EADS, LA (CE 01850)

LOCATION.--Lat 29°00'53", long 89°09'57", Plaquemines Parish, Hydrologic Unit 08090100, 14.5 mi (23.3 km) east of Burrwood, 2.0 mi (3.2 km) southeast of Port Eads.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS+ NONCAR- BONATE (MG/L CACO3)
			111111111111111111111111111111111111111		35.50						CACOSI	CACOST
28	1155	1870	8.1	0	30	7.7	34	.6			200	86
NOV				2.								
16 DEC	1100	569	8.0	20	70	9.4	52	2.0	9100	1300	160	54
15	1340	327	7.5	20	70	9.8	17	1.8	5200	550	118	30
JAN 16	1200	779	8.0	15	40	11.7	44	2.1	K1700	K340	180	78
FEB											100	
15 MAR	1040	471	7.6	15	70	12.0	14	3.8	K3000	K1600	130	57
15	1140	2670	7.8	10	30	10.6	49	1.3	K3200	660		
APR 18	1145	459	7.8	15	20	0.2	22	2.4	K1200	×24.0	. 70	
MAY					20	9.2	23	3.4	K1200	K360	170	88
22	1050	399	8.0	10	60	7.0	24	.6	5400	K40	170	80
19	1150	2110	8.0	15	20	7.0	29	.3	K2400	260	380	270
JUL 13	1145	2840	8.1	5	15	4.0	10	1 0	, 40	25.0		224
AUG	1145	2040	0.1	5	15	6.9	19	1.0	420	350	420	320
29	1225	3660	8.0	5	20	7.9	34	1.7	440	K260	510	390
SEP 11	1120	5050	8.0	10	9	7.3	84	.5	8800	420	630	510
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM. DIS- SOLVED (MG/L AS MG)	SODIUM. DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM. DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT												
28 VOV	9.9	43		-			139	0	114	1.8	120	450
16 DEC	39	15					129	0	106	2.1	48	81
15 JAN	34	8.0	17	23	.7	3.0	107	0	88	5.4	37	22
16	41	20	81	48	2.6	5.3	124	0	102	2.0	63	150
FEB 15	32	11	31	34	1.2	3.0	89	0	73	3.6	43	56
MAR	32			34	1					3.0	43	50
15 APR							119	0	98	3.0		
18	37	18	80	50	2.7	6.3	96	0	79	2.4	53	150
MAY 22	39	18	77	48	2.6	5.8	112	0	92	1.8	54	130
JUN												
	53	59	350	66	7.9	16	134	0	110	2.1	170	610
19									110		2.6.0	010
19 JUL 13	62	65	440	68	9.3	20	129	0	110	1.6	170	810
JUL 13		65 84	440 580	68 70	9.3	20	129	0	120	2.3	170	1100

K Results based on colony count outside the acceptable range (non-ideal colony count).

290053089095700 SOUTH PASS (MILE 13.0 BHP) OF MISSISSIPPI RIVER NEAR PORT EADS, LA (CE 01850)--Continued

MISSISSIPPI RIVER DELTA

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN•AM- MONIA + ORGANIC DIS- (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
OCT 28	50	<1.0	1.5	.01	1.5	.51	.20	2	0	2	10	. 0
NOV 16	313	<1.0	1.4	.01	1.4	.63	.43	3	1	2	0	0
DEC 15	14	<1.0	1.2	.03	1.2	.61	.25	2	1	1	0	0
JAN 16	96	<1.0	2.2	.04	2.2	.55	.21	2	1	1	0	0
FEB 15	156	<1.0	1.1	.03	1.1	.37	•29	3	2	1	0	0
MAR 15	36	<1.0	.99	.01	1.0	.50	.26	1	1	0	0	0
APR 18	94	<1.0	2.0	.02	2.0	.55	.23	3	2	1	0	0
MAY 22	100	<1.0	1.4	.01	1.4	.75	.16	2	1	1	0	0
JUN 19	23	<1.0	1.7	.04	1.7	.66	.12	2	1	1	0	0
JUL 13	14	<1.0	1.1	.01	1.1	.47	.21	2	1	1	0	0
AUG 29	28	<1.0	1.5	.01	1.5	.56	.19	2	0	2	0	0
SEP 11	2	<1.0	.76	.03	.79	.71	.16	2	0	2	10	0
DATE	BERYL- LIUM- DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER + SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD + TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)
28	10	<10	<10	0	15	0	<10	<6	4	10	<100	<100
NOV 16	0	0	0	0	4	0	12	11	1	50	9	8
DEC 15	0	0	0	0	0	0	14	13	1	160	8	8
JAN 16	0	0	0	0	20	0	7	5	2	20	4	4
FEB 15	0	0	0	0	10	0	13	10	3	20	7	7
MAR 15	0	1	0	1	0	0	5	3	2		4	1
APR 18	0	0	0	0	0	0	34	28	6	30	8	7
MAY 22	0	0	0	0	10	0	9	6	3	40	5	5
JUN 19	0	1	0	1	0	0	4	2	2	10	4	. 4
JUL 13	0	2	1	1	0	0	6	3	3	10	4	1
AUG												
29 SEP	0	0	0	0	0	0	6	4	5	20	0	0

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

290053089095700 SOUTH PASS (MILE 13.0 BHP) OF MISSISSIPPI RIVER NEAR PORT EADS, LA (CE 01850)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
OCT	0		0	.0	<50	<49	1	0	0	0	
28	U	.0	.0	.0	<50	(49	1	U	U	U	
16 DEC	1	.0	.0	.0	19	18	1	1	0	1	.4
15 JAN	0	• 0	• 0	• 0	14	13	1	0	0	0	.5
16 FEB	0	.0	.0	.0	9	7	2	0	0	0	
15 MAR	0	•5	.5	.0	11	11	0	0	0	0	
15 APR	3	• 0	• 0	• 0	2	2	0	1	1	0	
18	1	.0	.0	.0	9	8	1	0	0	0	
22 JUN	0	.0	.0	• 0	7	7	0	0	0	0	1.0
19	0	.3	.3	.0	4	3	1	0	0	0	
13 AUG	3	.0	•0	.0	7	4	3	0	0	0	
29 SEP	0	• 0	.0	. 0	4	4	0	1	0	1	
11	0	.0	.0	• 0	3	3	0	0	0	0	

DATE	ZINC+ TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD; TOTAL (UG/L)
ост												
28	10	0	10	4.8	.00	4	0	. 0	.00	.000	.0	.000
NOV 16	40	20	20	4.1	.00	2	0	.0	.00	.002	.0	.000
DEC												
15	30	30	0	5.6	.00	4		.0	.00	.000	.0	.000
JAN 16	20	10	10	3.8	.00	0	0	.0	.00	.000	.0	.000
FEB			.6.		200	3		100		000		000
15 MAR	40	40	0	4.8	.00	0	0	• 0	.00	.000	. 0	.000
15	10	0	10	3.6	.00	2	0	.0	.00	.000	.0	.000
APR						1.2				000		200
18 MAY	30	20	10	6.7	.00	5	0	• 0	.00	.000	.0	.000
22	20	10	10	6.1	.00	3	0	.0	.00	.000	.0	.000
JUN	2.0					-	•		0.0	.000		000
19 JUL	20	10	10	4.3	.00	4	0	.0	.00	.000	.0	.000
13	20	10	10	4.1	.00	2	0	. 0	.00	.000	.0	.000
AUG												1222
29	20	10	10	4.5	.00	3	0	• 0	.00	.000	.0	.000
SEP 11	10	10	0	4.5	.00	0	0	.0	.00	.000	.0	.000

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

# 290053089095700 SOUTH PASS (MILE 13.0 BHP) OF MISSISSIPPI RIVER NEAR PORT EADS, LA (CE 01850)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE + TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR+ TOTAL (UG/L)
0CT 28	.000	.000	.03	.000	.000	.000	.00	.000	.000	.000	.00	.00
NOV											•••	
16 DEC	.000	.000	•01	.003	.000	.002	•00	.000	.001	.001	.00	.00
15 JAN	.000	.002	•01	.003	.000	.001	•00	.000	.001	.000	.00	.00
16	.000	.000	.01	.001	.000	.000	.00	.000	.000	.000	.00	.00
FEB 15 MAR	.000	.006	•09	.004	.000	.000	.00	.000	.000	.000	.00	.00
15	.000	.000	• 02	.002	.000	.000	.00	.000	.000	.000	.00	.00
18	.000	.000	.01	.005	.000	.001	.00	.000	.002	.000	.00	.00
YAM 22	.000	.006	.01	.005	.000	.002	.00	.000	.001	.000	.00	.00
JUN 19	.000	.000	• 02	.005	.000	.002	• 0 0	.000	.002	.000	.00	.00
13 AUG	.000	.000	.01	.003	.000	,000	.00	.000	.001	.000	.00	.00
29 SEP	.000	.000	•03	.005		.002	.00	.000	.002	.002	.00	.00
11	.000	.000	• 0 1	.003		.002	• 0 0	.000	.001	.000	.00	.00
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION; TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX. TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
28	.00	.00	•00	.00	0.0	.00	.00	.00	.01	.00	1.50	.000
NOV 16	.00	.00	.00	.00	0.0	.00	.00	.01	.01	.01	2.30	.000
DEC 15	.00	.00	•00	.00	0.0	.00	.00	.00	.01	.00	.000	.000
JAN 16 FEB	.00	.00	• 0 0	.00	0.0	.00	.00	.04	.02	.00	.000	.000
15 MAR	.00	.00	.00	.00	0.0	.00	.00	.03	.01	.00	1.05	.000
15 APR	.01	.00	• 0 0	.00	0.0	.00	•00	.10	.05	.00	3.17	.000
18 MAY	•00	•00	• 0 0	.00	0.0	.00	•00	.03	.01	.00	1.68	.000
22	.00	.00	.00	0.0		0.0	0.0	.02	.01	.00	2.59	.000
			•00	.00	0.0	.00	.00					
19	.00	.00	•00	.00	0.0	.00	.00	.01	.01	.00	4.08	.000
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## 285442089253000 SOUTHWEST PASS (MILE 20.2 BHP) OF MISSISSIPPI RIVER NEAR BURRWOOD, LA (CE 01670)

LOCATION.--Lat 28°54'42", long 89°25'30", Plaquemines Parish, Hydrologic Unit 08090100, 25 mi (40 km) south of Venice, 5.0 mi (8.0 km) southwest of Burrwood.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

			WATER QU	JALITY DAT	A. WATER	YEAR OCTO	BER 1977	TO SEPTEN	MBER 1978			
DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	HARD- NESS; NONCAR- BONATE; DIS: (MG/L CACO3)
OCT												
28 NOV	1210	4170	8.1	10	25	7.6	59	•6			500	390
16 DEC	1115	3060	8.0	20	55	9.6	75	2.4	6600	640	390	280
15	1347	383	7.5	2	80	9.8	16	2.0	7400	K500	120	31
JAN 16 FEB	1215	1260	8.0	20	50	11.6	56	2.0	K2300		220	120
15	1105	937	7.6	10	70	12.2	22	3.5	1400		170	96
MAR 15	1155	2670	7.8	15	25	10.4	43	1.2	K3200	180	370	270
APR 18	1200	443	8.0	15	85	9.0	29	3.1	980	K280	140	54
MAY 22 JUN	1110	392	7.9	10	65	7.0	18	1.1	960	K320	140	47
19	1200	959	7.7	15	30	7.4	38	.9	4000	420	200	93
13 AUG	1200	3270	8.1	10	10	7.1	27	.8	660	340	460	320
29	1250	6950	8.1	10	10	7.2	110	1.1	460	K64	790	670
SEP 11	1145	5620	7.9	10	6	7.4	85	.3	2400	480	680	560
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
0CT 28	62	83			12		133	0	109	1.7	190	1100
NOV 16	54	63			12	22	131	0	107	2.1	140	800
DEC 15	32	10	26	31	1.0	3.4	108	0	89	5.5	39	36
JAN 16	45	27	150	58	4.4	7.8	124	0	102	2.0	74	260
FEB 15	36	20	110	57	3.6	6.0	90	0	74	3.6	61	190
MAR 15	48	61	370	66	8.4	33	120	0	98	3.0	140	660
APR 18	36	11	32	33	1.2	3.8	105	0	86	1.7	38	52
MAY	37			120								
JUN 22		11	24	27	.9	3.2	111	0	91	2.2	48	39
19	45	22	100	51	3.1	6.5	134	0	110	4.3	66	190
JUL		200	100	2.7	15.00	20.	1.0		5.75	2	0.000	2.72
JUL 13 AUG	64	72	470	68	9.6	22	168	0	140	2.1	170	860
JUL 13	64 86	72 140	470 1200	68 75	9.6 19	22 47	168 144	0	140 118	2.1 1.8	170 330	860 2100

K Results based on colony count outside the acceptable range (non-ideal colony count).

MISSISSIPPI RIVER DELTA

285442089253000 SOUTHWEST PASS (MILE 20.2 BHP) OF MISSISSIPPI RIVER NEAR BURRWOOD, LA (CE 01670) -- Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)	NITRO- GEN; NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN:AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TUTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
OCT	24	.1.0	, ,	0.1		F 0	.19	2	0	2	10	10
28 NOV	36	<1.0	1 • 4	.01	1 • 4	.50						
16 DEC	95	<1.0	1.2	.01	1.2	.42	.28	2	0	2	0	0
15	53	<1.0	1.2	.02	1.2		.33	3	2	1	0	0
JAN 16	99	<1.0	2.2	.03	2.2	.71	.22	2	1	1	0	0
FEB 15	138	<1.0	1.1	.02	1.1	.37	.28	2	1	1	0	0
MAR 15	31	<1.0	•99	.01	1.0	.67	.26	1	0	1	0	0
APR 18	122	<1.0	2.0	.03	2.0	.82	.23	2	1	1	0	0
YAM 22	88	<1.0	1.5	.03	1.5	.40	.17	2	1	1	0	0
JUN 19	11	<1.0	1.8	.03	1.8	.68	.13	2	1	1	5	5
13	1.0	<1.0	1.1	.01	1.1	.53	.22	3	0	3	0	0
AUG 29	28	<1.0	1.4	.01	1.4	.57	.16	2	0	2	0	0
SEP 11	1	<1.0	.76	.03	.79	.62	.15	1	0	1	0	0
DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON+ DIS- SOLVED (UG/L AS FE)	LEAD+ TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
ост	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L	MIUM, TOTAL RECOV- ERABLE (UG/L	MIUM, HEXA- VALENT, DIS. (UG/L	TOTAL RECOV- ERABLE (UG/L	SUS- PENDED RECOV- ERABLE (UG/L	DIS- SOLVED (UG/L	DIS- SOLVED (UG/L	TOTAL RECOV- ERABLE (UG/L	SUS- PENDED RECOV- ERABLE (UG/L
OCT 28	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)	SUS- PENDED RECOV- ERABLE (UG/L	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
0CT 28 NOV 16 DEC	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD) <10	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
OCT 28 NOV 16 DEC 15	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)  <10 13	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB) <100	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
OCT 28 NOV 16 DEC 15 JAN 16 FEB	LIUM, DIS- SOLVED (UG/L AS BE) 0 0	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0 0	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 5 8 0	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)  <10 13 11 7	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	SOLVED (UG/L AS FE) 10 50	TOTAL RECOV- ERABLE (UG/L AS PB) <100 6	SUS- PENDED RECOV- ERABLE (UG/L AS PB) <100 6
OCT 28 NOV 16 DEC 15 JAN 16 FEB 15 MAR	LIUM, DIS- SOLVED (UG/L AS BE) 0 0	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0 0 0	SUS-PENDED RECOV-ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUMATOTAL RECOV- ERABLE (UG/L AS CR)  5 8 0 20	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)  <10 13 11 7 13	SUS- PENDED RECOV- ERABLE (UG/L AS CU) <5 12 9 4	DIS- SOLVED (UG/L AS CU) 5 1 2	01S- SOLVED (UG/L AS FE) 10 50 30 10	TOTAL RECOV- ERABLE (UG/L AS PB) <100 6 9 4 8	SUS- PENDED RECOV- ERABLE (UG/L AS PB) <100 6 8
OCT 28 NOV 16 DEC 15 JAN 16 FEB 15 MAR 15 APR	LIUM+ DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0 0 0 0	SUS- PENDED RECOV- ERABLE (UG/L AS CD)  <10 0 0 0 0	OIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 5 8 0 20 20	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0	TOTAL RECOV- ERABLE (UG/L AS CU)  <10 13 11 7 13 3	SUS- PENDED RECOV- ERABLE (UG/L AS CU) <5 12 9 4 10	DIS- SOLVED (UG/L AS CU)	01S- S0LVED (UG/L AS FE) 10 50 30 10 20	TOTAL RECOV- ERABLE (UG/L AS PB) <100 6 9 4 8 5	SUS- PENDED RECOV- ERABLE (UG/L AS PB) <100 6 8 4 8
OCT 28 NOV 16 DEC 15 JAN 16 FEB 15 MAR 15 APR 18 MAY	LIUM+ DIS- SOLVED (UG/L AS BE) 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CD)  <10  0  0  0  0  0	SUS-PENDED RECOV-ERABLE (UG/L AS CD)  <10 0 0 0 0 0	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 5 8 0 20 20	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0 0	TOTAL RECOVERABLE (UG/L AS CU)  <10 13 11 7 13 3 11	SUS- PENDED RECOV- ERABLE (UG/L AS CU) <5 12 9 4 10	DIS- SOLVED (UG/L AS CU) 5 1 2 3 3 2	01S- SOLVED (UG/L AS FE) 10 50 30 10 20 90	TOTAL RECOV-ERABLE (UG/L AS PB) <100 6 9 4 8 5	SUS-PENDED RECOV-ERABLE (UG/L AS PB)  <100 6 8 4 8 0 7
OCT 28 NOV 16 DEC 15 JAN 16 FEB 15 MAR 15 APR 18 MAY 222 JUN	LIUM, DIS- SOLVED (UG/L AS BE) 0 0 0	TOTAL RECOV- REABLE (UG/L AS CD)  <10 0 0 0 0 0 0 0	SUS-PENDED RECOV-ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUMATOTAL RECOV- ERABLE (UG/L AS CR)  5 8 0 20 20 0 10	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CU)  <10 13 11 7 13 3 11 10	SUS- PENDED RECOV- ERABLE (UG/L AS CU) <5 12 9 4 10 1	DIS- SOLVED (UG/L AS CU) 5 1 2 3 3 2 5	01S- SOLVED (VG/L AS FE) 10 50 30 10 20 90 30 10	TOTAL RECOV- ERABLE (UG/L AS PB) <100 6 9 4 8 5 7 5	SUS-PENDED RECOV-ERABLE (UG/L AS PB)  <100 6 8 4 8 0 7 5
OCT 28 NOV 16 JAN 16 FEB 15 MAR 15 APR 18 MAY 22	LIUM+ DIS- SOLVED (UG/L AS BE) 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0 0 0 0 0 0 0 0 0	SUS-PENDED RECOV-ERABLE (UG/L AS CD)	OIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 5 8 0 20 20 0 0	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0 0 0	TOTAL RECOVERAGE (UG/L AS CU)  <10 13 11 7 13 3 11 10 7	SUS- PENDED RECOV- ERABLE (UG/L AS CU)  <5 12 9 4 10 1 6 7 4	DIS- SOLVED (UG/L AS CU)  5 1 2 3 3 2 5 3 3	01S- SOLVED (UG/L AS FE) 10 50 30 10 20 90 30 10	TOTAL RECOV- ERABLE (UG/L AS PB) <100 6 9 4 8 5 7 5 3	SUS-PENDED RECOV-ERABLE (UG/L AS PB)  <100 6 8 4 8 0 7 5 3
OCT 28 NOV 16 DEC 15 JAN 16 FEB 15 MAR 15 APR 18 MAY 222 JUN 19 JUN 19 JUL 13	LIUM, DIS- SOLVED (UG/L AS BE) 0 0 0	TOTAL RECOV- REABLE (UG/L AS CD)  <10 0 0 0 0 0 0 0	SUS-PENDED RECOV-ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUMATOTAL RECOV- ERABLE (UG/L AS CR)  5 8 0 20 20 0 10	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0 0 0	TOTAL RECOVERABLE (UG/L AS CU)  <10 13 11 7 13 3 11 10 7 5	SUS- PENDED RECOV- ERABLE (UG/L AS CU) <5 12 9 4 10 1	DIS- SOLVED (UG/L AS CU) 5 1 2 3 3 2 5 3 3	01S- SOLVED (UG/L AS FE) 10 50 30 10 20 90 30 10	TOTAL RECOV-ERABLE (UG/L AS PB)  <100 6 9 4 8 5 7 5 3 2	SUS-PENDED RECOV-ERABLE (UG/L AS PB)  <100 6 8 4 8 0 7 5 3 0
OCT 28 NOV 16 JAN 16 FEB 15 MAR 15 APR 18 MAY 22 JUN 19	LIUM+ DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0 0 0 0 0 0 0 0 0	SUS-PENDED RECOV-ERABLE (UG/L AS CD)	OIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 5 8 0 20 20 0 0	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0 0 0	TOTAL RECOVERAGE (UG/L AS CU)  <10 13 11 7 13 3 11 10 7	SUS- PENDED RECOV- ERABLE (UG/L AS CU)  <5 12 9 4 10 1 6 7 4	DIS- SOLVED (UG/L AS CU)  5 1 2 3 3 2 5 3 3	01S- SOLVED (UG/L AS FE) 10 50 30 10 20 90 30 10	TOTAL RECOV- ERABLE (UG/L AS PB) <100 6 9 4 8 5 7 5 3	SUS-PENDED RECOV-ERABLE (UG/L AS PB)  <100 6 8 4 8 0 7 5 3

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

285442089253000 SOUTHWEST PASS (MILE 20.2 BHP) OF MISSISSIPPI RIVER NEAR BURRWOOD, LA (CE 01670) -- Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

UΑ	50 (U	AD, IS- LVED G/L	ERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCUR SUS- PENDE RECOV ERABL (UG/L AS HG	D MERC - DI E SOL	URY S- F VED F	ICKEL • TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL SUS- PENDE RECOV ERABL (UG/L AS N)	D NIC	CKEL. IS- DLVED JG/L S NI)	SELE- NIUM TOTAL (UG/I AS SI	PEN TOT L (UG	M.	SELE- NIUM, DIS- SOLVE (UG/L AS SE	DI( 01 0 SOL (U(	JM, IS- VED S/L
OCT		0			0	.0	<50	< 5	.0	0		0	0		0	
NOV			.0										0		1	
DEC	•••	0	• 0	•	0	• 0	11		9	2		1				
15 JAN		1	.0		0	. 0	14	1	1	3		0	0		0	.6
16		0	.0		0	. 0	9		7	2		0	0		0	
FEB 15		0	.3		3	.0	5		5	U		0	0		0	7.7
MAR 15		5	.0		0	.0	0		0	0		1	0		1	221
APR							10		10	0		0	0		0	.0
MAY	•••	0	• 4		0	• 2										
JUN	• • •	0	• 0		0	• 0	12	1	12	0		0	0		0	1.0
19		0	. 0		0	. 0	5		3	2		0	0		0	
		2	.0		0	. 0	7		4	3		1	0		1	
AUG 29		0	. 0		0	.0	3		3	0		1	0		1	
SEP		0	.1		0	.1	3		3	0		0	0		0	
11	•••	U	• •	•	o .	••	3									
DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC SUS PEND RECO ERAB (UG/ AS Z	- ED ZI V- D LE SO L (U	IS- 0 LVED G/L	ARBON, RGANIC TOTAL (MG/L AS C)	CYANII TOTAI (MG/I AS CI	L PHE	NOLS	OIL AND GREAS	E TO	CB, TAL JG/L)	NAPH- THA- LENES; POLY- CHLOR: TOTAL (UG/L)	ALDR TUT (UG	IN,	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)
ОСТ								4		0	.0	.00		000	.0	.000
28	20		0	20	5.5		00									.000
16 DEC	20		10	10	5.1	•	00	1		0	.0	.00		001	.0	
15 JAN	40		30	10	5.6		00	3		0	. 0	.00		000	• 0	.000
16	20		10	10	2.2		0 0	0		0	• 0	.00		000	. 0	.000
FEB 15	30		20	10	4.7		00	0		0	. 0	.00		000	.0	.000
MAR 15	10		0	10	3.3		00	1		0	.0	.00		000	.0	.000
APR	30		20	10	7.6		00	3		0	.0	.00		000	.0	.000
18 MAY										0				000	.0	.000
22 JUN	30		20	10	5.2		00	3			. 0	.00				
19 JUL	20		10	10	4.0		00	3		0	• 0	.00		000	• 0	
13	30		20	10	5.0		00	2		0	. 0	.00		000	.0	.000
AUG 29	30		10	20	4.8		00	2		0	.0	.00		000	.0	.000
SEP 11	10		10	0	4.1		0 0	0		0	. 0	.00		000	.0	.000

MISSISSIPPI RIVER DELTA

285442089253000 SOUTHWEST PASS (MILE 20.2 BHP) OF MISSISSIPPI RIVER NEAR BURRWOOD, LA (CE 01670)--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE . TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
OCT												
28	.000	.000	.03	.004	.000	.001	.00	.000	.001	.003	.00	.00
16 DEC	.000	.000	•01	.003	.000	.001	•00	.000	.001	.002	.00	.00
15	.000	.000	•01	.003	.000	.001	.00	.000	.000	.000	.00	.00
JAN 16	.000	.000	.01	.002	.000	.000	.00	.000	.000	.000	.00	.00
FEB 15	.000	.005	.03	.003	.000	.000	.00	.000	.000	.000	.01	.00
MAR 15	.000	.000	•02	.003	.000	.000	.00	.000	.000	.000	.00	.00
APR 18	.000	.000	.01	.004	.000	.000	.00	.000	.002	.000	.00	.00
YAM 22	.000	.000	.01	.002	.000	.000	.00	.000	.000	.000	.04	.00
JUN 19	.000	.000	•02	.005	.000	.003	.00	.000	.002	.000	.00	.00
JUL 13	.000	.003	.02	.003	.002	.000	.00	.000	.001	.000	.00	.00
AUG 29	.000	.000	.02	.005		.002	.00	.000	.001	.000	.00	.00
SEP 11	.000	.000	•01	.004		.002	.00	.000	.001	.000	.00	.00
DATE	METHYL PARA- THION: TOTAL (UG/L)	METHYL TRI- THICN, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE * TOTAL (UG/L)	TOTAL TRI= THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
28	.00	.00	.00	.00	0.0	.00	.00	.00	.01	.00	1.10	.000
NOV 16	.00	.00	.00	.00	0.0	.00	.00	.01	.01	.01	5.30	3.60
DEC 15	.00	.00	•00	.00	0.0	.00	.00	.00	.01	.00	.000	.000
JAN 16	.00	.00	.00	.00	0.0	.00	.00	.00	.00	.00	.000	.000
FEB 15	.00	.00	.00	.00	0.0	.00	.00	.02	.01	.00	1.03	.000
MAR 15	.00	.00	•00	.00	0.0	.00	.00	.09	.05	.00	1.92	.000
APR 18	.00	.00	•00	.00	0.0	.00	.00	.03	.01	.01	1.81	.000
22	.00	.00	.00	.00	0.0	.00	.00	.01	.03	.00	2.67	.000
JUN 19	.00	.00	•00	.00	0.0	.00	.00	.01	.01	.00	4.28	.000
13	.00	.00	• 0 0	.00	0.0	.00	•00	.01	.00	.00	13.4	.000
29 SEP	.00	.00	.00	.00	0.0	.00	.00	.01	.01	.00	3.87	.000
11	.00	.00	•00	.00	0.0	.00	.00	.00	.00	.00	5.42	.000

#### 301116090073300 LAKE PONTCHARTRAIN AT GNO EXPRESSWAY BRIDGE, NEAR NEW ORLEANS, LA (CE 85600)

LOCATION.--Lat 30°11'16", long 90°07'33", T.10 S., R.10 E., Jefferson Parish, Hydrologic Unit 08090202, 12.5 mi (20.1 km) north of New Orleans.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1974 to current year.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

		SPE- CIFIC CON-		COLOR			OXYGEN DEMAND, CHEM-	OXYGEN DEMAND, BIO-	COLI- FORM, TOTAL,	COLI- FORM, FECAL,	HARD-	HARD- NESS,
		DUCT-	PH	(PLAT- INUM-	TUR- BID-	OXYGEN, DIS-	ICAL (HIGH	CHEM- ICAL,	IMMED.	0 • 7 UM-MF	NESS (MG/L	NONCAR- BONATE
DATE	TIME	(MICRO- MHOS)	(UNITS)	COBALT UNITS)	(UTU)	SOLVED (MG/L)	(MG/L)	5 DAY	PER 100 ML)	(COLS./	AS CACO3)	(MG/L CACO3)
ост												
28	0950	7140	7.8	0	5	8.3	97	.8			760	710
16 DEC	0840	6900	7.7	10	7	10.8	190	2.4	K16	<5	760	720
15 JAN	1205	6810	7.1	0	5	11.2	270	1.7	K36	K1	710	670
16 FEB	1000	5750	7.6	20	20	11.6	180	1.4	K40	K8	600	560
15 MAR	0845	3060	7.2	20	30	11.4	38	2.4	80	<5	300	270
15 APR	0950	3970	8.1	20	15	11.0	64	2.6	K12	8	390	350
18	0845	4140	7.2	15	7	10.8	66	3.4	K300	K44	420	380
22 JUN	0915	2430	7.4	20	10	8.6	34	1.6	K12	<5	240	210
19	1030	2150	7.4	30	10	7.7	75	.6	<5	<5	210	180
13 AUG	0900	5400	7.6	5	5	7.2	55	1.2	K1600	K1400	560	520
29	1000	4920	7.4	15	4	7.9	50	1.1	700	K360	490	450
SEP 11	1015	3540	7.2	5	5	8.2	49	1.1	350	<5	340	310
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM. DIS- SOLVED (MG/L AS MG)	SODIUM. DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE. DIS- SOLVED (MG/L AS CL)
ост											720	2100
28	57	150					56	0	46	1.4	330	2100
16 DEC	55	150					46	0	38	1.5	310	2100
15 JAN	53	140	1100	76	18	46	48	0	39	6.1	290	2100
16 FEB	44	120	930	76	16	39	47	0	39	1.9	250	1600
15 MAR	27	57	470	76	12	20	32	0	26	3.2	110	830
15 APR	34	73	600	74	13	49	43	0	35	•5	150	1100
18 MAY	36	81	670	76	14	28	49	0	40	4.9	180	1200
22 JUN	21	45	370	76	10	17	33	0	27	2.1	100	670
19 JUL	18	41	330	75	9.8	16	32	0	26	2.0	89	600
13 AUG	44	110	890	76	16	39	53	0	43	2.1	240	1600
29 SEP	41	95	860	78	17	35	56	0	46	3.6	220	1500
11	28	65	540	76	13	26	28	0	23	2.8	150	1000

 $<sup>{\</sup>tt K}\ {\tt Results}$  based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

# 301116090073300 LAKE PONTCHARTRAIN AT GNO EXPRESSWAY BRIDGE, NEAR NEW ORLEANS, LA (CE 85600)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE ABLE MATTE (ML/L/ HR)	NITRA	TE NITEL TO	ITRO- GEN; TRITE I DTAL MG/L S N)	NITRO- GEN; NO2+NO3 TOTAL (MG/L AS N)	NITR GEN;A MONIA ORGAN DIS: (MG/ AS N	M- + P IC PH T L (	HOS- ORUS, OTAL MG/L S P)	ARSEN TOTAL (UG/L AS AS	IC F	RSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENT DIS- SOLVE (UG/L AS AS	IC 1 - F ED E	BERYL- IUM, TOTAL RECOV- RABLE UG/L IS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
OCT 28	- 11	<1.	0 -	36	.02	.38		63	.09		2	1		1	20	20
NOV 16	4			05	.00	.05					2	0		2	0	
DEC		<1.						37	•04							0
15 JAN	17	<1.		09	.01	.10		54	.11		1	0		1	0	0
16 FEB	66	<1.	0 .	00	.00	.00	•	46	•06		1	1		0	0	0
15 MAR	28	<1.	0 .	19	.01	.20		51	.06		1	0		1	0	0
15	23	<1.	0 .	01	.01	.02		58	.12		0	0		0	0	0
APR 18	11	<1.	0 .	10	.01	.11		61	.11		2	1		1	0	0
YAM 22	17	<1.	0 .	01	.00	.01		41	.03		1	0		1	5	0
JUN 19	12	<1.	0 .	17	.04	.21	1.	1	.04		1	0		1	5	5
JUL 13	1	<1.		01	.04	. 05		47	.06		3	0		3	10	10
AUG 29	8										2	0				
SEP		<1.		14	.01	.15	1.		.20					2	10	10
11	0	<1.	0 .	00	.01	.01	2.	0	.04		1	0		1	0	0
DA	BER LIU DIS SOL (UG	M• TO - RE VED EF	OMIUM OTAL ECOV- RABLE UG/L	ADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIL DIS- SOLVE (UG/L AS CO	REC ED ERA (UG	M, I AL I OV- V BLE /L	CHRO- MIUM, HEXA- ALENT, DIS. (UG/L AS CR)	COPPE TOTA RECO ERAB (UG/ AS C	R, S L F V- F LE E	PENDED RECOV- ERABLE (UG/L AS CU)	COPPE DIS- SOLV	ED S	RON, DIS- OLVED UG/L IS FE)	LEAI TOT. REC ERAI (UG.	AL OV- BLE /L
OCT		0	10	7		3	20	0		10	<6		4	20		100
NOV	•••									7.7			1			3
DEC	•••	0	0	0		0	12	0		8	7			20		
15 JAN		0	1	0		1	0	0		5	4		1	30		3
16 FEB	•••	0	0	0		0	10	0		3	1		2	30		1
15 MAR	•••	0	0	0		0	0	0		5	2		3	60		1
15	• • •	0	1	0		1	0	0		13	11		2	20		7
APR 18		0	1	0		1	0	0		5	1		4	10		6
YAM 22		5	0	0		0	0	0		6	3		3	30		3
JUN 19		0	0	0		0	0	0		4	1		3	20		2
JUL		0	2	1		1	0	0		5	1		4	20		3
AUG		0	0	0		0	10	0		4	1		3	130		2
SEP 11		0	0	0		0	10	0		5	0		5	10		2
11	• • • •	•	•					U		_	0			. 0		-

<sup>&</sup>lt; Actual value is known to be less than the value shown.

301116090073300 LAKE PONTCHARTRAIN AT GNO EXPRESSWAY BRIDGE, NEAR NEW ORLEANS, LA (CE 85600)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DA		LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCUR TOTAL RECOV ERABL (UG/L AS HG	PEN REC E ERA (UG	DED MEI OV- I BLE SO	RCURY DIS- OLVED UG/L S HG)	NICKEL TOTAL RECOV ERABL (UG/L AS NI	- F - F	CKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKE DIS- SOLV (UG/ AS N	ED TO	LE- UM. TAL IG/L SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE	SE NI D D SO	LE- UM, IS- LVED IG/L SE)		
ост																		
NOV	•••	<100	0		0	• 0	.0	< 5	50	<46		4	0		0	0		
16 DEC	•••	3	0		0	.0	.0		4	4		0	0		0	0		
		3	0		0	.0	.0		3	2		1	0		0	0		
16		1	0		0	.0	.0		7	5		2	0		0	0		
FEB 15		1	0		2	.2	.0	1	15	15		0	0		0	0		
		3	4		0	.0	.0	1	1	10		1	0		0	0		
		5	1		0	.0	.0		5	4		1	0		0	0		
YAM 22		3	0		0	.0	.0		0	0		0	0		0	0		
JUN 19		2	0		0	.0	.0		2	2		0	0		0	0		
JUL		0	3		0	.0	.0		3	2		1	0		0	0		
AUG		2	0		0	.0	.0		1	1		0	0		0	0		
SEP		2	0		0	.0	.0		3	3		0	0		0	0		
••	•••	-																
DATE	ZINC TOTA RECO ERAB (UG/ AS Z	V PEN V REC LE ERA L (UG	S- DED ZI OV- L BLE SC /L (L		ARBON+ RGANIC TOTAL (MG/L AS C)	CYANID TOTAL (MG/L AS CN	PHE	NOLS G/L)	OIL AND GREAS (MG/L	SE T	PCB, OTAL UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDR TOT	AL	CHLOR- DANE, TOTAL (UG/L)	TO	DD, TAL G/L)	
OCT 28		20	0	20	5.5	.0	0	2		0	.0	.00		000	.0	i .	.000	
NOV 16		20	0	20	6.8	.0	0	2		0	.0	.00		002	.0		.000	
DEC 15		20	10	10	6.9	.0	0	3		0	.0	.00		000	.0		.000	
JAN 16		20	10	10	6.8	.0	0	0		0	.0	.00		000	.0	ir .	.000	
FEB 15		10	0	10	8.4	.0	0	1		0	.0	.00		000	.0		.000	
MAR 15		40	30	10	7.7	.0	0	2		0	.0	.00		000	.0		.000	
APR 18		30	20	10	9.3	.0	0	0		0	.0	.00		000	.0		.000	
MAY 22		10	0	10	8.0	.0	0	2		0	.0	.00		000	.0		.000	
JUN 19		10	5	5	6.8	.0	0	2		0	.0	.00		000	.0	0	.000	
JUL 13		20	0	20	6.5	.0	0	2		0	.0	.00		000	.0	r.	.000	
AUG 29		30	10	20	8.4	.0		2		0	.0	.00		000	.0	ř.	.000	
SEP 11		10	10	0	6.3	.0	0	4		0	.0	.00		000	.0	í.	.000	

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

# 301116090073300 LAKE PONTCHARTRAIN AT GNO EXPRESSWAY BRIDGE, NEAR NEW ORLEANS, LA (CE 85600)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE, TOTAL (UG/L)	DDT. TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
OCT												
28	.000	.000	•00	.000	.000	.000	•00	.000	.000	.000	.00	.00
16 DEC	.000	.000	•01	.000	.000	.000	•00	.000	.000	.000	.00	.00
15 JAN	.000	.000	.00	.000	.000	.000	.00	.000	.000	.000	.00	.00
16	.000	.000	.01	.000	.000	.000	.00	.000	.000	.001	.00	.00
FEB 15	.000	.001	.01	.001	.000	.000	.00	.000	.000	.000	.00	.00
MAR 15	.000	.000	.01	.000	.000	.000	.00	.000	.000	.001	.00	.00
APR 18	.000	.000	•02	.002	.000	.000	.00	.000	.000	.000	.00	.00
MAY 22	.000	.000	.02	.001	.000	.000	.00	.000	.000	.002	.00	.00
JUN 19	.000	.000	.00	.000	.000	.000	.00	.000	.000	.000	.00	.00
JUL 13	.000	.000	.04	.000	.000	.000	.00	.000	.000	.002	.00	.00
AUG 29	.000	.000	.05	.002	.000	.000	.00	.000	.000	.004	.00	.00
SEP 11	.000	.000	.01	.000	.000	.000	.00	.000	.000	.001	.00	.00
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
ост												
28 NOV	.00	.00	.00	.00	0.0	.00	.00	.04	.02	.00	5.90	.000
16 DEC	.00	.00	.00	.00	0.0	.00	.00	.03	.00	.00	3.40	.000
15 JAN	.00	.00	•00	.00	0.0	.00	.00	.02	.02	.00		
16 FEB	.00	.00	•00	.00	0.0	.00	.00	.02	.02	.00	5.00	.000
15 MAR	.00	.00	.00	.00	0.0	.00	.00	.02	.00	.00	1.05	.000
15 APR	.00	.00	•00	.00	0.0	.00	.00	.02	.00	.00	4.20	.000
18	.00	.00	.00	.00	0.0	.00	.00	.04	.00	.00	20.7	.000
22	.00	.00	.00	.00	0.0	.00	.00	.05	.01	.00	16.4	.000
JUN 19 JUL	.00	.00	•00	.00	0.0	.00	.00	.00	.01	.00	7.29	.000
13 AUG	.00	.00	.00	.00	0.0	.00	.00	.00	.00	.00	10.7	.000
29 SEP	.00	.00	.00	.00	0.0	.00	.00	.00	.00	.00	2.73	.000
11	.00	.00	•00	.00	0.0	.00	.00	.00	.00	.00	4.30	.000

#### 300434089564000 LAKE PONTCHARTRAIN AT LITTLE WOODS, AT NEW ORLEANS, LA (CE 85650)

LOCATION.--Lat 30°04'34", long 89°56'40", T.11 S., R.12 E., Orleans Parish, Hydrologic Unit 08090202, at intersection of Paris Road and Haynes Boulevard, at New Orleans.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF DAILY RECORD.-WATER TEMPERATURES: October 1976 to current year (discontinued).
CHLORIDE: October 1974 to current year (discontinued).

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD .--

CHLORIDE: Maximum observed, 5,300 mg/L Oct. 18, 1977; minimum daily, 390 mg/L Apr. 29, 1975.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		19.5	15.0									
2		20.0	15.5									
3		20.0	15.0									
4			15.0									
5			16.0									
6		18.5	16.0									
7		18.5										
6 7 8		18.5	15.0									
9		19.0	14.5									
10		14.5										
11	20.0		14.0									
12	19.0		14.0									
13	19.0		13.5									
14	18.0	14.0	14.0									
15	18.0	14.5	13.5									
16	18.0	15.0	14.0									
17	17.0	15.5	14.0									
18	18.0	15.5										
19	18.0	16.5										
20	18.0	16.5 15.5										
21	18.5	15.5										
22	18.5	15.0										
23	18.0	15.0 15.5										
	18.5	15.5										
24 25	19.0	16.0										
26	19.0	15.5										
27	19.0 19.0	15.0										
28	18.5	14.5										
29	18.5	15.5										
30	18.5	15.5										
30 31	19.0											
MONTH		16.5										

MISSISSIPPI RIVER DELTA

### 300434089564000 LAKE PONTCHARTRAIN AT LITTLE WOODS, AT NEW ORLEANS, LA (CE 85650) -- Continued

# DISSOLVED CHLORIDE (CL), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

DAY	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2200	3500	2300									
2	2300	3900	2400									
2 3	2000	3900	2500									
4	2000		2500									
5	1700		2500									
6	2100	3000	2700									
6 7	2000	2800										
8	2000	2800	2600									
9	2100	2800	2600									
10	2000	2900										
11	2000		2500									
11	2300		2600									
13	2600		2700									
14	2400	2900	2600									
14 15	2500	2900	2500									
16	2500	3200	2400									
17	2400	3200	2400									
18	2600	2900										
19	2700	2900										
20	2600	3300										
21	2700	2800										
22	2900	2700										
22 23	3000	2700										
24	2800	2800										
25	3400	2200										
26	3300	2800										
27	3300	2800										
28	3200	2700										
29	3100	2700										
30	3100	2600										
30 31	3400											
MONTH	2600	2900										

#### 300205090015500 LAKE PONTCHARTRAIN (AT IHN CANAL) AT NEW ORLEANS, LA (CE 76062)

LOCATION.--Lat 30°02'05", long 90°01'55", T.12 S., R.12 E., Orleans Parish, Hydrologic Unit 08090202, at New Orleans.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1974 to current year.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	FORM, TOTAL, IMMED. (COLS, PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS; NONCAR- BONATE (MG/L CACO3)
OCT												
28 NOV	0825	9860	7.7	0	2	8.1	50	1.0			1100	1100
16 DEC	0740	9180	7.7	10	4	9.9	190	2.4	680	К 5	740	690
15	1040	6840	7.1	5	6	10.8	290	1.6	150	K17	660	620
16 FEB	0820	3160	7.5	50	45	11.6	65	1.4	8600	400	340	300
15	0715	6610	7.5	30	25	11.3	140	2.9	5600	K360	670	620
MAR 15	0830	3190	7.4	20	35	10.3	62	1.7	4200	100	320	290
APR 18	0830	5920	7.4	15	10	10.8	30	3.6	K320	92	660	610
MAY 22	0730	4580	7.3	20	5	8.6	33	1.2	80	к2	470	440
JUN 19	0930	5230	7.3	10	5	7.8	110	1.0	160	к6	560	520
JUL 13	0830	5720	7.6	5	9	7.3	63	1.1	8000	- 1	610	570
AUG 29	0900	6300	7.4	10	2	7.9	71		400	K20	790	750
SEP								1.8				
11	0845	8180	7.5	10	3	7.6	96	1.2	500	K27	770	750
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 28	77	220					56	0	46	1.8	430	3000
NOV 16	15	170	12				60	0	49	1.9	400	3000
DEC 15	49	130	980	75	17	40	55	0	45	7.0	260	1700
JAN 16	31	64	500	75	12	21	47	0	39	100.00		37.53
FEB										2.4	140	900
15 MAR	53	130	1100	77	19	45	56	0	46	2.8	260	1900
15 APR	34	58	480	74	12	40	42	0	34	2.7	120	850
18 MAY	48	130	1000	76	17	39	53	0	43	3.4	260	1700
22 JUN	38	92	750	76	15	31	41	0	34	3.3	200	1300
19	41	110	850	75	16	39	47	0	39	3.8	210	1600
13	47	120	940	76	17	41	56	0	46	2.3	250	1700
AUG 29	120	120	1000	73	16	45	54	0	44	3.4	270	1900
SEP 11	62	150	1500	79	23	58	25	. 0	21	1.3	350	2500

 $<sup>\</sup>ensuremath{\mathrm{K}}$  Results based on colony count outside the acceptable range (non-ideal colony count).

MISSISSIPPI RIVER DELTA

### 300205090015500 LAKE PONTCHARTRAIN (AT IHN CANAL) AT NEW ORLEANS, LA (CE 76062) -- Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE ABLE MATTE (ML/L/ HR)	R TO	EN, RATE N TAL G/L	NITRO- GEN, ITRITE TOTAL (MG/L AS N)	NITRO GEN• NOZ+NO TOTAL (MG/L AS N)	- GEN MON 3 ORG DI	ITRO- N.AM- NIA + GANIC IS. MG/L S N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSE TOT (UG AS	NIC PE	SENIC SUS- ENDED OTAL JG/L S AS)	ARSENI DIS- SOLVE (UG/L AS AS	C TO	ERYL- IUM, OTAL ECOV- RABLE UG/L S BE)	BERYL LIUM: SUS- PENDE RECO (UG/ AS E	D DV.
ост	2	<1.	^	.04	.01	.0	_	.64	.05		0	0		0	10		0
28	2	<1.	U	.04	• 01	. 0	5	.04	.05		U	Ü		U	10		U
16	5	<1.	0	•11	.01	.1	2	.63	.09		1	0		1	0		0
DEC 15	49	<1.	0	.30	.02	.3	2	.70	.15		1	0		1	0		0
16	53	<1.	0	.29	.02	.3	1	.65	.17		1	0		1	0		0
FEB 15	62	<1.	0	•33	.02	.3	5	.77	.13		2	1		1	0		0
MAR 15	33	<1.	0	.24	.01	.2	5	2.1	.15		1	1		0	0		0
APR 18	2	<1.	0	.05	.01	.0	6	.95	.07		2	1		1	0		0
MAY 22	11	<1.	0	•01	.00	.0	1	.63	.04		1	0		1	0		0
JUN 19	6	<1.	0	•03	.02	.0	5	.66	.06		1	0		1	10		5
JUL 13	6	<1.	0	.02	.01	.0	3	1.0	.05		3	2		1	10		0
AUG 29	3	<1.	0	.07	.01	.0	8	.68	.11		3	0		3	0		0
SEP 11	1	<1.	0	.02	.01	.0	3	.88	.04		1	0		1	0		0
DA	DIS SOL (UG	M. T - R VED E	DMIUM OTAL ECOV- RABLE UG/L IS CD)	CADMIU SUS- PENDE RECOV ERABL (UG/L AS CD	D CADM - DI E SOL	IUM T S- R VED E	HRO- IUM, OTAL ECOV- RABLE UG/L S CR)	CHRO MIUM HEXA VALEM DIS (UGA AS (	COP TO T, RE ER L (U	PER. TAL COV- ABLE G/L CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPI DIS- SOL (UG.	VED S	RON. DIS- OLVED UG/L S FE)	LEA TOT REC ERA (UG AS	AL OV- BLE /L	
ост																	
		10	10		6	4	15		0	10	1		9	30	<	100	
		0	1		0	1	4		0	3	2		1	30		2	
		0	4		4	0	20		0	5	1		4	70		2	
		0	6		0	6	10		0	6	0		6	40		3	
1.50																	

FEB

MAR

15 ... APR

18... MAY

22... JUN 19...

JUL 13...

29 ... SEP

11...

AUG

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

## 300205090015500 LAKE PONTCHARTRAIN (AT IHN CANAL) AT NEW ORLEANS, LA (CE 76062) -- Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD SUS PEND RECO ERAB (UG/) AS P	ED LEAD V- DIS LE SOLV	S- REC VED ERA VL (UG	AL PEN OV- REC BLE ERA /L (UG	S- DED MERO OV- D: BLE SOI /L (U)	CURY T IS- R LVED E G/L (	CKEL, OTAL ECOV- RABLE UG/L S NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKE DIS- SOLVI	ED TOT	NIC E- SI A, PER AL TO /L (UC	JS- N NDED TAL S	SELE- NIUM, DIS- SOLVED (UG/L NS SE)
OCT 28	. <1	00	0	.0	.0	.0	<50	<50		0	0	0	0
NOV 16		2	0	.0	.0	.0	3	3	1	0	0	0	0
DEC 15		1	1	.1	•1	.0	6	2		4	0	0	0
JAN 16		3	0	.0	.0	.0	5	2		3	0	0	0
FEB		0	0	.0	.0	.0	2	2		0	2	0	2
15 MAR		2	3		.0	.0	4	1		3	0	0	0
APR				• 0							0	0	0
18 MAY		5	O	• 0	• 0	.0	4	(		4			
JUN	•	0	0	.0	• 0	.0	0	(		0	0	0	0
19 JUL	•	0	2	.1	•1	.0	3			0	0	0	0
13 AUG		4	3	. 0	.0	. 0	2	â	2	0	0	0	0
29 SEP		1	0	.0	.0	.0	1	(	)	1	0	0	0
11		8	0	.0	• 0	.0	3		3	0	0	0	0
ATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON+ ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOL	S A		PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLO DANE TOTA (UG/	DDD L TOTAL
T.	20	0	20	5.6	.00		1	0	.0	.00	.00		.0 .
6	40	20	20	6.0	.00	i.	2	0	.0	.00	.00		.0 .
5	20	10	10	13	.00	1	2	0					
N 6	20	10	10	8.4	.00	ii i	0	0	.0	.00	.00		.0 .
B 5	20	0	20	7.4	.00		2	0	. 0	.00	.00		.0 .
R 5	20	10	10	7.0	.00	r	2	0	.0	.00	.00		.0 .
R 8	20	0	20	7.9	.00	1	1	0	.0	.00	.00		.0 .
Y 2	20	0	20	9.7	.00	1	2	0	.0	.00	.00		.0 .
N 9	20	0	20	5.6	.00	)	2	0	.0	.00	.00		.0 .
3	20	0	20	6.3	.00		2	0	.0	.00	.00		.0 .
G 9	20	0	20	7.0	.00		2	0	.0	.00	.00		.0 .
P		10	10	8.6	.00		3	0	.0	.00	.00	)	.0 .
1	20	10	10	0.0	.00	,	-		• •		, , ,		

# 300205090015500 LAKE PONTCHARTRAIN (AT IHN CANAL) AT NEW ORLEANS, LA (CE 76062)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE, TOTAL (UG/L)	DDT. TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION. TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TUTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
OCT 28	.00	.00	•00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NOV									0.0			
16 DEC	•00	• 0 0	•03	.00	• 0 0	.00	• 0 0	.00	.00	.00	.00	.00
15 JAN											7-7	
16	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.04	.00
FEB 15 MAR	.00	•00	•02	.00	• 0 0	.00	•00	•00	.00	.00	.00	.00
15 APR	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	•02	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUN 19	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00
AUG 29	.00	.00	• 04	.00	.00	.00	.00	.00	.00	.00	.00	.00
SEP 11	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
											CHLOR-A	CHLOR-B
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION+ TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE+ TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2+4-D+ TOTAL (UG/L)	2.4.5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
ост	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 28	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE+ TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TUTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 28	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 28 NOV 16 DEC 15	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE+ TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TUTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 28 NOV 16 DEC	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L) •00	THANE TOTAL (UG/L)	APHENE+ TOTAL (UG/L)	TRI- THION (UG/L)	.00	.04	.02	.00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 14.4 7.87	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 28 NOV 16 DEC 15 JAN 16 FEB	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L) .00	THANE TOTAL (UG/L) .00 .00	APHENE+ TOTAL (UG/L)	TRI- THION (UG/L)	.00 .00	.04 .03	.02 .01	.00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 14.4 7.87	PHYTO- PLANK- TON CHROMO FLUGROM (UG/L)
OCT 28 NOV 16 DEC 15 JAN 16 FEB 15 MAR 15	PARA- THION, TOTAL (UG/L) .00 .00	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L) .00 .00	THANE TOTAL (UG/L) .00 .00	APHENE TOTAL (UG/L)  0  0  0	TRI- THION (UG/L) .00 .00	.00 .00 .00	.04 .03 .05	.02 .01 .00	.00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 14.4 7.87 .000 2.50	PHYTO- PLANK- TON CHROMO FLUGROM (UG/L) .000 .000
OCT 28 NOV 16 DEC 15 JAN 16 FEB 15 MAR 15 APR 18	PARA- THION, TOTAL (UG/L) .00 .00 	TRI- THION, TOTAL (UG/L) .00 .00	THION, TOTAL (UG/L) .00 .00 	THANE TOTAL (UG/L) .00 .00 .00	APHENE TOTAL (UG/L)  0  0  0	TRI- THION (UG/L) .00 .00 	.00 .00 .00 .00	TOTAL (UG/L)  .04  .03  .05  .03	.02 .01 .00 .02	.00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUGHOM (UG/L) 14.4 7.87 .000 2.50 4.20	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .000 .000
OCT 28 NOV 16 DEC 15 JAN 16 FEB 15 MAR 15 APR 18 MAY 22 JUN	PARA- THION, TOTAL (UG/L) .00 .00 .00	TRI- THION, TOTAL (UG/L) .00 .00 .00	THION, TOTAL (UG/L) .00 .00 .00	THANE TOTAL (UG/L) .00 .00 .00 .00	APHENE+ TOTAL (UG/L) 0 0  0	TRI- THION (UG/L)  .00 .0000 .00	.00 .00 .00 .00	TOTAL (UG/L)  .04  .03  .05  .03  .04	.02 .01 .00 .02 .01	.00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 14.4 7.87 .000 2.50 4.20 5.75	PHYTO- PLANK- TON CHROMO FLUGROM (UG/L) .000 .000 .000
OCT 28 NOV 16 DEC 15 JAN 16 FEB 15 MAR 15 APR 18 MAY 22 JUN 19	PARA- THION, TOTAL (UG/L) .00 .00 .00	TRI- THION, TOTAL (UG/L) .00 .00 .00	THION, TOTAL (UG/L) .00 .00 .00 .00	THANE TOTAL (UG/L) .00 .00 .00 .00	APHENE+ TOTAL (UG/L)	TRI- THION (UG/L)  .00 .0000 .00 .00	.00 .00 .00 .00 .00	TOTAL (UG/L)  .04  .03  .05  .03  .04  .03	.02 .01 .00 .02 .01 .00	.00 .00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 14.4 7.87 .000 2.50 4.20 5.75 17.8	PHYTO- PLANK- TON CHROMO FLUGROM (UG/L) .000 .000 .000
OCT 28 NOV 16 DEC 15 JAN 16 FEB 15 MAR 15 APR 18 MAY 22 JUN 19 JUN 19 JUN 19	PARA- THION, TOTAL (UG/L)  .00 .00 .00 .00 .00 .00	TRI- THION, TOTAL (UG/L) .00 .00 .00 .00	THION, TOTAL (UG/L) .00 .00 .00 .00	THANE TOTAL (UG/L) .00 .00 .00 .00 .00	APHENE+ TOTAL (UG/L)  0  0  0 0 0 0	TRI- THION (UG/L) .00 .00 .00 .00	.00 .00 .00 .00 .00 .00	TOTAL (UG/L)  .04  .03  .05  .03  .04  .03	.02 .01 .00 .02 .01 .00	.00 .00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 14.4 7.87 .000 2.50 4.20 5.75 17.8 6.87	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .000 .000 .000 .000
OCT 28 NOV 16 DEC 15 JAN 16 FEB 15 MAR 15 APR 18 MAY 22 JUN 19 JUL	PARA- THION, TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00	TRI- THION, TOTAL (UG/L) .00 .00 .00 .00	THION, TOTAL (UG/L) -00 -00 -00 -00 -00	THANE TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00 .00	APHENE+ TOTAL (UG/L)  0  0  0  0  0  0  0	TRI- THION (UG/L)  .00 .00 .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00	TOTAL (UG/L)  .04  .03  .05  .03  .04  .03  .05	.02 .01 .00 .02 .01 .00	.00 .00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 14.4 7.87 .000 2.50 4.20 5.75 17.8 6.87 9.54	PHYTO- PLANK- TON CHROMO FLUGROM (UG/L) .000 .000 .000 .000 .000

300024089560500 INTRACOASTAL WATERWAY AT NOPSI PLANT NEAR PARIS ROAD, AT NEW ORLEANS, LA (CE 76042)

LOCATION.--Lat 30°00'24", long 89°56'05", T.12 S., R.13 E., Orleans Parish, Hydrologic Unit 08090203, at New Orleans. DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD. -- Water years 1974 to current year.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM: TOTAL: IMMED: (COLS: PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./	HARD- NESS (MG/L AS CACO3)	HARD- NESS+ NONCAR- BONATE (MG/L CACO3)
OCT 28	1050	14400	7.9	0	3	7.1	260	2.5			1600	1500
NOV									200	14	2000	1900
16 DEC	0945	16900	8.0	20	4	10.4	410	3.8	100			
15 JAN	1240	10800	7.2	10	6	9.5	380	1.8	200	88	1200	1100
23	1005	10600	7.5	20	10		44		1500	120	1200	1100
FEB 16	0845	9350	7.4	30	15	10.8	170	2.4	K40	кв	960	910
MAR 16	0830	10700	7.5	15	10	8.5	100	1.1	1400	96	2300	2300
APR 19	0900	10700	7.4	10	8	7.7	22	1.0	400	420	1200	1200
23	0820	13500	7.7	20	3	7.3	200	3.0	5800	1100	1500	1500
20	0830	12100	7.7	20	10	7.5	160	1.2	K76	K36	1300	1200
14	0810	20200	7.7	15	3	5.5	210	1.3	K500	K300	2400	2300
AUG 30	0900	14400	7.4	10	1	6.3	250	2.2	19000		1600	1500
SEP 12	0930	16900	7.6	10	3	6.6	210	1.0	5200	80	1800	1700
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
0CT 28	110	330					81	0	66	1.6	630	4600
NOV 16	130	400					84	0	69	1.3	780	6000
DEC 15	85	230	1800	76	23	82	75	0	62	7.6	460	3300
JAN 23	82	240	1800	75	23	74	72	0	59	3.6	480	3200
FEB 16	72	190	1600	77	22	64	66	0	54	4.2	400	2800
MAR 16	140	480	3400	75	31	130	79	0	6.5	4.3	830	6400
APR 19	81	250	1800	75	22	80	68	0	56	4.3	480	3500
MAY 23	100	310	2500	77	28	100	81	0	66	2.6	580	4300
JUN 20	87	260	2200	77	27	96	70	0	57	2.2	510	3900
JUL 14	150	480	3800	76	34	160	98	0	80	3.1	920	6900
AUG 30	110	310	2600	77	29	110	76	0	62	4.8	630	4800
SEP 12	130	350	3300	79	34	130	91	0	75	3.7	800	5500

MISSISSIPPI RIVER DELTA

AY AT NOPSI PLANT NEAR PARIS ROAD, AT NEW ORLEANS, LA (CE 76042)--Continued

300024089560500 INTRACOASTAL WATERWAY AT NOPSI PLANT NEAR PARIS ROAD, AT NEW ORLEANS, LA (CE 76042)--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLID: RESID: AT 10: DEG. SUS- PENDE (MG/	JE 5 SE C, M	TTLE- ABLE ATTER L/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	GE	AL S/L	NITRO- GEN; NOZ+NO3 TOTAL (MG/L AS N)	NIT GEN: MONI ORGA DIS (MG	AM- A + NIC !	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSE TOT (UG AS	NIC I	RSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENI DIS- SOLVE (UG/L AS AS	C T R	ERYL- IUM, OTAL ECOV- RABLE UG/L S BE)	BERYL LIUM SUS- PENDE RECO (UG/ AS E	, ED OV.
OCT 28		8	<1.0	• 08		.01	.09		.64	.07		0	0		0	10		10
NOV		9	<1.0	• 03		.01	.04		.59	.08		1	0		1	0		0
DEC		24	<1.0	.24		.02	.26		.68	.08		1	0		1	0		0
15 JAN							.22		.43	.10		1	0		1	0		0
23 FEB		23	<1.0	•21		.01							0		1	10		0
16 MAR		41	<1.0	•27		.02	.29		.42	.09		1				100		0
16 APR		22	<1.0	.14	•	.01	.15		.64	.13		0	0		0	0		
19 MAY		28	<1.0	-10	)	.01	•11		.94	.06		2	1		1	0		0
23		15	<1.0	.00	5	.02	.08		.41	.06		1	1		0	5		0
JUN 20		11	<1.0	.0	1	.01	.02		.49	.04		1	1		0	10		5
JUL 14		13	<1.0	• 0	2	.06	.08		.59	.06		3	0		3	10		0
AUG 30		7	<1.0	• 0	7	.10	.17		.67	.09		2	1		1	0		0
SEP 12		0	<1.0	.15	5	.02	.17		.68	.09		2	0		2	10		10
D		BERYL- LIUM, DIS- SOLVEC (UG/L AS BE)	TOT REC ERA (UG	IUM S AL PI OV- RE BLE EF	OMIUM SUS- ENDED ECOV- RABLE JG/L G CD)	CADM: DIS SOLV (UG/ AS (	IUM TO S- RE VED ER /L (U	RO- UM, TAL COV- ABLE G/L CR)	CHRO MIUM HEXA VALEN DIS (UG/ AS C	COPP TOT T, REC ERA L (UG	OV-	COPPER SUS- PENDE RECOV ERABL (UG/L AS CU	D COPP - DIS E SOL	VED :	IRON, DIS- SOLVEC (UG/L AS FE)	ERA (UG		
oc				1.0														
NO	8 V	(		10	9		1	20		0	<10		6	4	30			
DE		(		0	0		0	12		0	1		1	0	30		1	
JA		(		3	1		2	0		0	2		0	2	30	)	2	
FE FE	3 B	(	)	8	0		8	10		0	6		4	2	30	)	3	
1 MA	6	10	)	1	0		1	10		0	9		6	3	30	)	0	
	6	0	)	1	0		1	0		0	3		0	3	10		5	
	9	(	)	2	0		2	0		0	13		2	11	20	)	3	
2	3	5	5	0	0		0	15		0	8		4	4	50	) .	0	
JU	0	9	5	1	0		1	0		0	8		6	2	20	)	2	
1	L 4	10	)	3	2		1	20		0	7		3	4	60	)	7	
	0	(	)	1	0		1	20		0	7		0	7	20	i	0	
SE	2		1	1	1		0	10		•				7	20		-	

MISSISSIPPI RIVER DELTA

300024089560500 INTRACOASTAL WATERWAY AT NOPSI PLANT NEAR PARIS ROAD, AT NEW ORLEANS, LA (CE 76042)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DA		LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVE (UG/L AS PB	D ERA	OV- RESELLE	RCURY SUS- ENDED ECOV- RABLE JG/L 5 HG)	MERCURY DIS- SOLVEI (UG/L AS HG)	REC ERA (UG		NICKEL SUS- PENDE RECOV ERABL (UG/L AS NI	D NICKE - DIS- E SOLV	ED TO	LE- UM, TAL G/L SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM DIS- SOLVE (UG/I AS SE	• - ED
ост							0. 0.3					0	0	0		0
NOV	•••			0	.0	.0	• (	)		-						
16		0		1	.0	.0		0	6		5	1	1	0		1
DEC 15		2		0	.0	.0		0	3		2	1	0	0		0
JAN	1					0			7		7	0	0	0		0
FEB	•••	2		1	. 0	.0	• 1	U								
16		0		0	.7	• 7		0	7		5	2	0	0		0
				3	.0	.0		0	0		0	0	0	0		0
APR		1		2	.0	.0		0	5		3	2	0	0		0
MAY	,											0	0	0		0
JUN		0		0	• 0	. 0		0	0		0					
20		1		1	.1	.1		0	3		3	0	0	0		0
JUL 14		3		4	.1	.1		0	6		4	2	0	0		0
AUG	;	0		0		.0		0	0		0	1	0	0		0
SEP					• 0											0
12	2	5		0	.0	.0		0	3		3	0	0	0		0
DATE	ZINC TOTA RECO ERAB (UG/ AS Z	, S L PE V- RE LE ER L (U	COV- ABLE G/L	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON ORGANIC TOTAL (MG/L AS C)	CYA TO	IG/L	HENOLS	GRE	ND EASE	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDR TOT (UG	IN, DA	LOR- NE, TAL G/L)	DDD, TOTAL (UG/L)
0CT 28		30	10	20	6.3	3	.00	1		0	.0	.00		000	• 0	.000
16		20	0	20	6.	2	.00	0		1	.0	.00		000	. 0	.000
DEC 15		20	10	10	8.	)	.00	2		0	.0	.00		000	.0	.000
JAN 23		40	10	30	7.8	3	.00	3		0	. 0	.00		000	.0	.000
FEB 16		20	0	20	7.	•	.00	2		0	• 0	.00		000	.0	.000
MAR 16		20	10	10	5.5	5	.00	1		0	.0	.00		000	.0	.000
APR 19		30	10	20	7.		.00	2		0	.0	.00		000	.0	.000
23		20	0	20	7.	2	.00	4		0	.0	.00		000	.0	.000
JUN 20		30	0	30	6.	1	.00	2		0	• 0	.00		000	.0	.000
14		40	0	40	5.	2	.00	1		0	.0	.00		000	.0	.000
30		20	0	30	5.	•	.00	2		0	• 0	.00	,	000	• 0	.000
12		30	0	30	6.	+	.00	1		0	.0	.00	,	000	• 0	.000

MISSISSIPPI RIVER DELTA

300024089560500 INTRACOASTAL WATERWAY AT NOPSI PLANT NEAR PARIS ROAD, AT NEW ORLEANS, LA (CE 76042)--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE, TOTAL (UG/L)	DDT; TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
OCT 28	.000	.000	•00	.000	.000	.000	.00	.000	.000	.002	.00	.00
NOV											.00	.00
16 DEC	.000	.000	•01	.000	.000	.000	•00	.000	.000	.001		
15 JAN	.000	.000	.01	.000	.000	.000	.00	.000	.000	.001	.00	.00
23	.000	.000	• 02	.001	.000	.000	.00	,000	.000	.001	.03	.00
FEB 16	.000	.000	.03	.002	.000	.000	.00	.000	.000	.001	.01	.00
MAR 16	.000	.000	.02	.000	.000	.000	.00	.000	.000	.001	.00	.00
APR 19	.000	.000	.02	.001	.000	.000	.00	.000	.000	.000	.00	.00
MAY							•00		.000	.001	.00	.00
23	.000	.000	•01	.001	.000	.000		.000				
20	.000	.000	.02	.001	.000	.000	.00	.000	.000	.001	.00	.00
14 AUG	.000	.000	.02	.000	.002	.000	.00	.000	.000	.000	.00	.00
30	.000	.000	•02	.001		.000	.00	.000	.000	.001	.00	.00
SEP 12	.000	.000	.00	.001		.000	.00	.000	.000	.000	.00	.00
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
ост	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 28	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 28 NOV 16	PARA- THION. TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L) •00	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L) 0.0	TRI- THION (UG/L)	TOTAL (UG/L) •00	.03	.01	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 28 NOV 16 DEC 15	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 28 NOV 16 DEC 15	PARA- THION. TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L) •00	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L) 0.0	TRI- THION (UG/L)	TOTAL (UG/L) •00	.03	.01	**************************************	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 12.8	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 2.90
OCT 28 NOV 16 DEC 15 JAN 23 FEB 16	PARA- THION. TOTAL (UG/L)	TRI- THION, TOTAL (UG/L) .00 .00	THION, TOTAL (UG/L) -00 -00	THANE TOTAL (UG/L) .00 .00	O.O	TRI- THION (UG/L) .00	TOTAL (UG/L) •00 •00	.03 .01	.01 .00	.00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 12.8 16.2	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 2.90 4.30
OCT 28 NOV 16 DEC 15 JAN 23 FEB 16 MAR 16	PARA- THION, TOTAL (UG/L) .00 .00	TRI- THION, TOTAL (UG/L) .00 .00	THION, TOTAL (UG/L) -00 -00 -00	THANE TOTAL (UG/L) .00 .00	0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00	.00 .00 .00	.03 .01 .00	.01 .00 .02	.00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 12.8 16.2 .000 3.20	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 2.90 4.30 .000
OCT 28 NOV 16 DEC 15 JAN 23 FEB 16 MAR 16 APR 19	PARA- THION, TOTAL (UG/L) .00 .00 .00	TRI- THION, TOTAL (UG/L) -00 -00 -00	THION, TOTAL (UG/L) -00 -00 -00 -00	THANE TOTAL (UG/L) .00 .00 .00	0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00	.00 .00 .00 .00	10TAL (UG/L) .03 .01 .00 .04 .02	.01 .00 .02 .01 .01	.00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 12.8 16.2 .000 3.20 7.70 3.66	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 2.90 4.30 .000 .000
OCT 28 NOV 16 DEC 15 JAN 23 FEB 16 MAR 16 APR 19 MAY	PARA- THION, TOTAL (UG/L) .00 .00 .00 .03	TRI- THION, TOTAL (UG/L) .00 .00 .00 .00	**THION, TOTAL (UG/L)  ***OO***OO***OO***OO***OO***OO***OO*	THANE TOTAL (UG/L) .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00 .00	.00 .00 .00 .00 .00	10TAL (UG/L) .03 .01 .00 .04 .02 .02	.01 .00 .02 .01 .01	.00 .00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 12.8 16.2 .000 3.20 7.70 3.66 13.7	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 2.90 4.30 .000 .000
OCT 28 NOV 16 DEC 15 JAN 23 FEB 16 MAR 16 APR 19 MAY 23 JUN	PARA- THION, TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00	TRI- THION, TOTAL (UG/L) .00 .00 .00 .00 .00	**THION, TOTAL (UG/L)  **00  **00  **00  **00  **00  **00  **00  **00  **00  **00	THANE TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00	APHENE, TOTAL (UG/L) 0.0 0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00 .00 .00	.00 .00 .00 .00 .00	10TAL (UG/L) .03 .01 .00 .04 .02 .02	.01 .00 .02 .01 .01 .01	.00 .00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 12.8 16.2 .000 3.20 7.70 3.66 13.7 26.7	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 2.90 4.30 .000 .000 .000 .000
OCT 28 NOV 16 DEC 15 JAN 23 FEB 16 MAR 16 APR 19 MAY 23 JUN 23 JUN 20 JUL	PARA- THION, TOTAL (UG/L)  .00  .00  .00  .00  .00  .00  .00  .	TRI- THION, TOTAL (UG/L) .00 .00 .00 .00 .00 .00	THION, TOTAL (UG/L) -00 -00 -00 -00 -00 -00	.00 .00 .00 .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L)  .00 .00 .00 .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00	10TAL (UG/L) .03 .01 .00 .04 .02 .02 .02	.01 .00 .02 .01 .01 .01 .00	.00 .00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 12.8 16.2 .000 3.20 7.70 3.66 13.7	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 2.90 4.30 .000 .000
OCT 28 NOV 16 DEC 15 JAN 23 FEB 16 MAR 16 APR 19 MAY 23 JUN 20 JUL 14 AUG	PARA- THION, TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00 .00 .00	TRI- THION, TOTAL (UG/L) .00 .00 .00 .00 .00 .00 .00	**THION, TOTAL (UG/L)  **00  **00  **00  **00  **00  **00  **00  **00  **00  **00	THANE TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00	APHENE, TOTAL (UG/L) 0.0 0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00 .00 .00	.00 .00 .00 .00 .00	10TAL (UG/L) .03 .01 .00 .04 .02 .02	.01 .00 .02 .01 .01 .01	.00 .00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 12.8 16.2 .000 3.20 7.70 3.66 13.7 26.7	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 2.90 4.30 .000 .000 .000 .000
OCT 28 NOV 16 DEC 15 JAN 23 FEB 16 MAR 16 APR 19 MAY 23 JUN 20 JUN 20 JUL	PARA- THION, TOTAL (UG/L)  .00  .00  .00  .00  .00  .00  .00  .	TRI- THION, TOTAL (UG/L) .00 .00 .00 .00 .00 .00	THION, TOTAL (UG/L) -00 -00 -00 -00 -00 -00	.00 .00 .00 .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L)  .00 .00 .00 .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00	10TAL (UG/L) .03 .01 .00 .04 .02 .02 .02	.01 .00 .02 .01 .01 .01 .00	.00 .00 .00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 12.8 16.2 .000 3.20 7.70 3.66 13.7 26.7	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 2.90 4.30 .000 .000 .000 .000

#### 300404089482500 CHEF MENTEUR PASS NEAR LAKE BORGNE, AT CHEF MENTEUR, LA (CE 85750)

LOCATION.--Lat 30°04'04", long 89°48'25", T.12 S., R.14 E., Orleans Parish, Hydrologic Unit 08090203, north of U.S. Highway 190 bridge, 0.1 mi (0.2 km) southwest of Chef Menteur.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: October 1976 to current year.

CHLORIDE: October 1974 to current year.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 30.5°C July 7, 26, 30, Aug. 7, 1977; minimum daily, 3.5°C Jan. 20, 1978.
CHLORIDE: Maximum daily, 8,100 mg/L Sep. 1, 1977; minimum daily, 390 mg/L May 3, 1975.

EXTREMES FOR CURRENT YEAR. --

WATER TEMPERATURES: Maximum daily, 30.0°C Aug. 22, 23, 24; minimum daily, 3.5°C Jan. 20. CHLORIDE: Maximum daily, 5,500 mg/L Oct. 6; minimum daily, 1,000 mg/L Mar. 17.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.5	21.0	16.0	11.0	6.0	13.0	19.5	23.0	28.0	24.5	28.0	27.0
2	29.0	21.0	15.5	10.0	6.0	13.0	20.5	24.0	28.5	29.0	29.0	28.0
3	24.0	19.0	17.0	10.0		13.5	20.5	21.5	27.5	29.5	29.0	27.0
4	21.0	18.5	18.0	9.0	5.5	10.5	21.0	20.5	26.5	29.0	29.0	27.0
5	21.5	18.5	21.0	10.0	6.5	9.5	21.5	21.0	26.5	29.5	29.0	27.0
6	23.0	18.5	16.5	11.0	5.5	10.0	22.0	22.0	27.0	28.5	28.0	28.0
7	23.5	18.5	13.0	12.0	5.5	12.0	22.0	23.0	28.0	28.5	28.0	28.0
8	23.5	20.0	13.0	13.0	4.5	13.0	23.5	23.5	26.5	28.5	29.0	28.0
9	23.5	20.0	14.5	8.0	4.5	10.5	22.0	24.0	26.5	29.0	26.0	28.0
10	21.0	16.0	8.5	7.0	4.5	9.5	24.0	22.0	26.5	29.5	27.0	27.0
11	22.0	15.0	7.0	7.0	5.5	11.0	23.5	23.5	27.0	29.5	27.0	27.0
12		15.0	9.0	7.0	6.0	13.0	20.0	24.0	20.0	29.5	27.0	28.0
13	18.0	14.0	10.5	8.5	10.0	14.5	19.0	24.0	20.0	29.5	28.0	28.0
14	18.0	13.5	13.0	5.5	7.0	15.5	19.0	21.0	27.0	29.0	27.0	28.0
15	18.5	15.0	11.0	4.5	7.0	16.0	20.0	22.0	26.5	29.0	27.0	28.0
16	17.0	15.5	12.0	5.5	8.5	15.5	20.5	24.0	20.0	28.5	29.0	27.0
17	16.5	17.0	13.5	7.0	9.5	13.0	22.0	24.0	28.5	29.0	29.0	28.0
18	18.0	16.5	13.0	5.0	10.0	13.5	23.5	23.5	28.0	29.5	29.0	29.0
19	18.0	16.0	13.5	5.0	7.0	15.0	22.0	24.0	27.0	29.5	30.0	28.0
20	18.5	16.5	14.5	3.5	7.0	16.0	19.5	25.0	20.5	29.5	29.0	28.5
21	18.5	18.5	10.0	4.0	9.0	16.5	19.5	25.5	27.0	29.0	28.0	27.5
22	18.0	18.0	10.0	4.5	7.0	16.5	21.5	26.0	20.5	28.5	30.0	28.5
23	21.0	18.5	10.0	5.5	7.0	18.5	22.0	26.5	26.0	28.0	30.0	28.5
24	20.5	18.5	10.5	7.0	8.5	19.5	21.5	26.5	29.0	28.0	30.0	28.5
25	21.0	18.0	11.5	8.0		18.5	22.0	26.5	29.0	28.0	29.0	27.5
26	20.5	15.5	9.0	5.5	11.0	15.5	19.5	26.5	29.0	28.0	29.0	27.0
27	18.0	15.5	9.0		11.0	14.5	18.5	27.0	29.5	26.0	29.0	27.5
28	20.0	16.5	7.0	6.0	13.0	15.0	20.0	28.5	29.5	28.0	29.0	27.0
29	20.0	18.5	9.0	4.5		15.5	21.0	28.0	29.5	28.0	27.0	24.5
30	20.5	18.5	10.0	5.5		16.0	21.0	28.0	20.5	27.0	27.0	24.5
31	21.0		10.0			17.0		27.0		27.0	27.0	
MONTH	21.0	17.5	12.0	7.0	7.5	14.0	21.0	24.5	20.0	28.5	28.5	27.5
YEAR	MAX	30.0	MIN	3.5	MEAN	20.0						

MISSISSIPPI RIVER DELTA

# 300404089482500 CHEF MENTEUR PASS NEAR LAKE BORGNE, AT CHEF MENTEUR, LA (CE 85750)--Continued

DISSOLVED CHLORIDE (CL), MG/L, WATER YEAR OCTOBER 1977 TO SEPIEMBER 1978 ONCE-DAILY

					O1	ACE-DATE!						
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			20.00	2000	1800	2000	2300	2700	2200	1900	1900	2100
1	3100	3900	2800	2900		2200	2500	2700	2000	1900	2100	2200
2	3200	4300	2800	2600	1700	1800	2500	2100	1000	1700	2100	2100
3	4000	4000	2800	2500			2400	2200	1000	1600	2300	2000
4	4900	3500	2700	2600	1500	1800		2200	1900	1800	2800	1900
5	5100	3400	2700	2900	1700	1600	2400	2200	1,00	1000	2000	
0		2300	2700	2700	1600	1900	2400	2300	< U00	1600	3100	2500
6	5500	3200	2700	2800	1700	1900	2000	2600	1000	1600	3100	3400
7	4900	3400			1400	2100	1900	2400	1900	2100	3600	3000
8	5100	3500	2800	1700		1400	2100	2400	1000	2400	3700	3000
9	4300	3600	2800	2500	1500		2600	2200	1800	2500	3100	2800
10	5200	3100	3200	2000	1500	1200	2600	2200	1000	2300		
2.0		21.00	3300	2100	1600	1200	2500	2200	1000	2800	4000	2900
11	5000	3100	3200	2300	1300	1300	2700	2200	1.00	2500	2900	2800
12		3200	3200	2100	1300	1400	3200	2200	1>00	2300	2400	2800
13	2600	3700		1900	1300	1700	2300	2100	2500	3100	2200	2600
14	3000	3900	2900		1500	1500	2300	1900	2100	1500	2100	2400
15	3100	3800	2300	1900	1500	1300	2300	.,				
1.0	2000	3700	2600	1900	1500	1500	1900	1700	2000	2300	2200	2200
16	3000	3700	2400	1900	1300	1000	2600	1700	2300	2700	5100	2200
17	3900		1700	1900	1800	1100	2700	2300	1.00	2400	2200	3100
18	3800	3500	2300	2100	1700	1300	2000	1800	2000	2400	2300	3600
19	3400	3500		1800	1700	1300	2600	1800	2100	2100	2400	3900
20	3100	3100	2400	1000	1700	1500	2000					
21	4200	4000	2000	2000	1600	2000	2200	1800	2000	2200	2200	3800
21		4100	2100	2000	1600	1700	2900	2000	2000	2900	2700	3600
22	4100	3900	2600	1900	1700	2000	3200	1900	1000	2900	3200	3500
23	3200		2700	1800	2100	2100	2800	1800	1 700	2800	3200	3200
24	2900	3400		1700	2300	1900	2600	2000	1900	3400	3500	3200
25	3000	3100	2900	1700	2300	1900	2000				2012	
26	3300	3000	3000	1600	2500	1400	2100	2000	2000	2400	3400	3400
27	2700	3100	3000		2200	1400	1900	1900	2000	2100	3600	3600
	2700	3100	3700	1800	1900	2000	1800	2000	1000	2100	3300	3500
28		3200	3300	1800		2300	2200	1800	2000	1900	3600	3500
29	2800		2500	1800		2100	2600	2000	2300	1900	3400	3400
30	3400	3200		1000		2200		2300		1900	2200	
31	4500		2800			2200					2010	
MONTH	3800	3500	2700	2100	1700	1700	2400	2100	2000	2200	2800	2900
YEAR	MAX	5500	MIN	1000	MEAN	2500						

295623089501800 MISSISSIPPI RIVER GULF OUTLET AT MILE 52.8 AT BAYOU DUPRE, NEAR VIOLET, LA (CE 85764)

LOCATION.--Lat 29°56'23", long 89°50'18", T.13 S., R.14 E., St. Bernard Parish, Hydrologic Unit 08090203, 4.5 mi (7.2 km) northeast of Violet.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- January 1978 to September 1978.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA. WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS; NONCAR- BONATE (MG/L CACO3)
JAN 23	1020	8000	7.5	30	35	11.4	94	1.8	220	K16	900	850
FEB												
16 MAR	0910	8000	7.4	20	35	11.2	80	2.6	Ke0	K32	820	770
16 APR	U845	16400	7.5	15	15	8.8	150	2.1	560	K28	1900	1800
19 MAY	0915	14400	7.4	10	8	7.6	42	1.1	760	K300	1700	1600
23	0830	13000	7.6	20	5	8.0	160	4.0	7.7		1500	1400
JUN 19	1300	10400	7.8	15	4	7.6	150	1.2	K20	<5	1400	1300
13	1300	15700	7.7	15	3	7.0		1.2	230	K5	1700	1700
AUG 29	1345	22500	7.6	10	2	7.5	450	1.0	120	K5	2400	2400
11	1230	18600	7.6	15	4		380		1600		2000	1900
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SCLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HC03)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SULVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JAN 23	65	180	1400	76	20	56	62	0	51	3.1	370	2700
16	64	160	1300	76	20	55	57	0	47	3.6	310	2300
MAR 16 APR	120	390	3000	75	30	240	74	0	61	3.7	710	5500
19	100	340	3100	79	33	110	80	0	66	5.1	670	5600
23	100	300	2400	76	27	98	80	0	66	3.2	570	4100
JUN 19	74	290	1800	73	21	81	58	0	48	1.5	440	3400
13	120	350	2900	77	30	120	76	0	62	2.4	700	5300
29	170	490	4500	79	40	180	94	0	77	3.8	1000	8000
SEP 11	140	400	3500	78	34	130	86	0	71	3.5	840	6200

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

295623089501800 MISSISSIPPI RIVER GULF OUTLET AT MILE 52.8 AT BAYOU DUPRE, NEAR VIOLET, LA (CE 85764)--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)	NITRO- GEN; NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
JAN 23	100	<1.0	.17	.01	.18	.28	.15	1	1	0	0	0
FEB 16	100	<1.0	.14	.01	.15	.43	.09	1	1	0	0	0
MAR 16	39	<1.0	• 04	.01	.05	.85	.13	0	0	0	0	0
APR 19	1	<1.0	.18	.02	.20	.73	.10	1	0	1	10	
MAY 23												0
JUN	20	<1.0	•01	.01	.02	.39	.08	1	1	0	10	10
19 JUL	6	<1.0	•03	•01	• 04	•53	• 04	1	0	1	10	0
13 AUG	12	<1.0	•00	.02	.02	.61	.06	2	0	2	10	0
29 SEP	17	<1.0	•01	.11	.12	.65	.06	1	0	1	0	0
11	6	<1.0	•06	•06	.12	.61	.08	2	0	2	10	10
DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)
JAN 23	0	2	0	2	20	0	21	19	2	20	3	3
FEB 16	0	0	0	0	0	0	11	9	2	30	1	1
MAR	0	0	0	0	10	0	4	0	4	10	3	0
16 APR			0	1	0	0	5	0	5	10	0	0
19 MAY	10	1				0		2	4	40	1	1
23	0	0	0	0	15		6				3	3
19	10	0	0	0	0	0	5	2	2	40 2700	7	5
13 AUG	10	2	0	2	20	0	7	5				
29 SEP	0	0	0	0	20	1	6	3	3	20	94	94
11	0	0	0	0	0	1	3	0	3	20	3	1
DA	501	IS- REC VED ERA	CURY SI FAL PEI COV- REGABLE ER	COV- D ABLE SO G/L (U	CURY TO IS- REC LVED ERA G/L (U	KEL, SI TAL PEI COV- REI ABLE ERI G/L (UI	ABLE SO	LVED TOT	JM, PEN TAL TOT G/L (UG	M. SEL IS- NIU DED DI AL SOL	M, DIU S- DI VED SOL /L (UG	M, S- VED
JAN					0	8	8	0	0	0	0	
FEB		0	.0	.0	.0			0	0	0	0	
MAR		0	.6	•6	. 0	5	5					
16 APR	•••	3	• 0	.0	• 0	0	0	0	0	0	0	
19 MAY	•••	0	.0	• 0	.0	1	0	1	0	0	0	
		0	. 0	.0	.0	2	2	0	0	0	0	
		0	.0	. 0	.0	0	0	0	0	0	0	
		2	.1	.1	.0	5	2	3	0	0	0	
29		0	.0	.0	.0	4	4	0	0	0	0	
SEP 11		2	.0	.0	.0	3	2	1	0	0	0	2.4

295623089501800 MISSISSIPPI RIVER GULF OUTLET AT MILE 52.8 AT BAYOU DUPRE, NEAR VIOLET, LA (CE 85764)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

7	ZINC.	ZINC, SUS- PENDED	ZINC,	CARBON	,					NAPH- THA- LENES	,			
E	RECOV- ERABLE (UG/L AS ZN)	RECCV- ERABLE (UG/L AS ZN)	DIS- SOLVED (UG/L AS ZN)	ORGANI TOTAL (MG/L AS C)		PHEN		OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	POLY CHLOR TOTAL (UG/L	· ALE	ORIN. D	HLOR- ANE, OTAL UG/L)	DDD. TOTAL (UG/L
AN 23	20	10	10	8.	3 .0	0	4	0	.0	.0	0	.000	.0	.00
EB 16	20	0	20	8.	2 .0	0	1	0	.0	.0	0	.000	.0	.00
AR 16	30	20	10	7.			1	0	. 0	.0	0	.000	.0	.0
PR 19	30	10	20	4.	8 .0	0	0	0	• 0	.0	0	.000	.0	.0
23	20	0	20	7.	7 .0	0	2	0	.0	.0	0	.000	.0	.0
JN 19	30	10	20	6.	7 .0	0	3	0	.0	.0	0	.000	.0	.0
JL 13	40	0	40	6.	2 .0	0	1	3	• 0	.0	0	.000	. 0	.00
JG 29	40	10	30	6.	8 .0	0	2	0	.0	.0	0	.000	.0	.00
EP 11	30	0	30	7.	1 .0	0	0	0	• 0	.0	0	.000	• 0	.00
	DDE; FOTAL (UG/L)	DDT, TCTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRI TOTAL (UG/L	TOTAL	TCT	AL	THION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA CHLOR EPOXID TOTAL (UG/L	E LIN	NDANE T	ALA- HION, OTAL UG/L)	METH- OXY- CHLOR TOTAL (UG/L
AN 23	.000	.000	• 0 1	.00	0 .00	0 .	000	.00	.000	.00	0	.001	.00	
EB 16	.000	.000	• 03	.00	1 .00	0 .	000	.00	.000	.00	0	.001	.01	
AR 16	.000	.000	.01	.00	1 .00	0 .	000	.00	.000	.00	0	.001	.00	
PR 19	.000	.000	.02	.00	1 .00	0 .	000	.00	.000	.00	0	.000	.00	
AY 23	.000	.000	• 02	.00	1 .00	0 .	000	.00	.000	.00	0	.000	.00	
JN 19	.000	.000	• 0 1	.00	1 .00	0 .	000	.00	.000	.00	0	.000	.00	
UL 13	.000	.000	.01	.00	0 .00	2 .	000	.00	.000	.00	0	.000	.00	
UG 29	.000	.000	- 01	.00	1 -		000	.00	.000	.00	0	.001	.00	
EP 11	.000	.000	• 0 1	.00	0 -		000	.00	.000	.00	0	.001	.00	
	МЕТН	YI MET	THYL									CHLOR-A PHYTO- PLANK-	PHY	To-
DATE	PARA THIO TOTA (UG/	- TF N, THI L TOI	RI- PA	TAL T	HENE, OTAL T	OTAL TRI- HION UG/L)	MIREX TOTA (UG/L	L TOTA	L TO	TAL T	LVEX, OTAL UG/L)	TON CHROMO FLUORON (UG/L)	CHRO FLUO	N MO ROM
JAN 23 FEB		00	.00	.00	0.0	•00	• 0		03	.01	.00	6.30		000
16		0 0	.00	.00	0.0	.00	• 0	. 00	02	.01	.00	21.0	•	000
MAR		0.0	0.0	0.0	0 0	.00		00	02	- 01	-00	8.99		000

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#### 295019089411500 BAYOU LALOUTRE AT ALLUVIAL CITY, AT YSCLOSKEY, LA (CE 85775)

LOCATION. -- Lat 29°50'19", long 89°41'15", T.14 S., R.15 E., St. Bernard Parish, Hydrologic Unit 08090203, 0.2 mi (0.3 km) south of Yscloskey.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: Maximum daily, 32.0°C July 20, 1977; minimum daily, 6.0°C several days during January and February 1978. CHLORIDE: Maximum daily, 16,000 mg/L June 29, 30, July 1-4, 7-9, 12, 1977; minimum daily, 1,300 mg/L May 10-12, 1975.

EXTREMES FOR CURRENT YEAR.-WATER TEMPERATURES: Maximum daily, 31.0°C Aug. 1-7; minimum daily, 6.0°C several days during January and February.
CHLORIDE: Maximum daily, 11,000 mg/L Dec. 20, 25; minimum daily, 1,800 mg/L Dec. 4.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPIEMBER 1978 ONCE-DAILY

					171							
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.0	20.0		11.0	6.0	7.5	20.5	24.0	25.5	29.5	31.0	30.0
2	29.0	20.0	14.0	10.5	6.0	8.5	21.0	24.0	20.0	30.0	31.0	30.0
3	29.0	20.0	13.5	10.0	6.0	9.0	21.5	24.0	25.5	30.0	31.0	30.0
4	28.5	20.0	13.5	10.5	6.0	9.0	22.0	24.0	20.0	30.0	31.0	30.0
5	28.0	20.0	13.5	11.0	6.0	9.0	22.5	24.0	26.0	30.0	31.0	30.0
6	28.0	20.0	12.5	11.0	6.5	9.5	23.0	24.5	25.0	30.0	31.0	29.5
7	27.5	20.0	12.5	11.0	6.5	10.0	23.5	24.5	26.0	30.0	31.0	29.0
8	27.0	19.5	12.5	11.0	6.5	10.5	24.0	24.5	20.0	30.0	30.0	30.0
9	26.5	19.5	12.0	9.5			24.0	24.5	20.5	30.0	30.0	29.5
10	26.0	20.0	12.0	9.0		12.5	24.0	25.0	28.5	30.0	30.0	29.5
11	25.5	20.0	12.0	9.0		13.0	24.0	25.0	21.0	30.0	30.0	29.0
12	25.0	20.0	11.5	8.5		13.5	24.0	25.0	29.0	30.0	30.0	29.0
13	24.5	20.0	11.0	8.5		14.5	24.0	25.0	29.0	30.0	30.0	29.0
14	24.0	20.0	11.0	8.5		15.0		25.0	29.0	30.0	30.0	29.0
15	23.5	20.0	11.0	8.0		15.5	24.0	25.0	24.0	30.0	30.0	29.0
16	22.5	19.5	12.0	8.0		15.5	23.5	25.5	29.0	30.0	30.0	29.0
17	23.0	20.0	12.0	8.0	7.5	17.0	23.5	25.5	24.0	30.0	30.0	29.0
18	20.5	20.0	13.0	8.0	6.5	17.5	23.5	25.5	24.0	30.0	30.0	29.0
19	20.0	20.0	13.0	8.0	6.5	18.0	23.5	25.5	29.0	30.0	30.0	29.0
20	20.0	20.5	12.5	8.0	6.0	18.0	24.0	26.0		30.0	30.0	29.0
21	20.5	20.5	13.0	7.5	6.0	18.0	24.0	26.0	24.5	30.0	30.0	29.0
22	20.0	20.5	13.0	7.5	6.0	18.0	24.0	25.5	24.5	30.0	30.0	29.0
23	20.0	20.5	13.0	7.5	6.0	18.0	24.0	25.5	30.0	30.0	30.0	29.0
24	20.0	21.0	13.0	7.5	6.0	18.0	24.5	25.5	30.0	30.0	30.0	29.0
25	20.5	21.0	13.5	7.0	6.0	18.0	24.5	25.5	29.5	30.0	30.0	29.0
26	20.5	21.0	14.0	7.0	7.0	17.5	24.5	26.0	24.5	30.0	30.0	29.0
27	21.0	20.0	13.0	7.5	7.0	18.0	25.0	26.0	29.5	30.0	30.0	28.0
28	21.0	20.0	12.5	6.0	8.0	18.0	25.0	26.0	29.5	30.0	30.0	28.5
29	21.0	19.5	12.0	6.0		17.5	25.0	25.5	24.5	30.0	30.0	29.0
30	20.5	19.5	11.5	6.0		17.5	25.0	25.5	29.5	30.0	30.0	28.5
31	20.5		11.0	6.0		18.0		26.0		30.0	30.0	
MONTH	23.5	20.0	12.5	8.5		14.5	23.5	25.0	20.5	30.0	30.0	29.0
YEAR	MAX	31.0	MIN	6.0	MEAN	21.5						

MISSISSIPPI RIVER DELTA
295019089411500 BAYOU LALOUTRE AT ALLUVIAL CITY, AT YSCLOSKEY, LA (CE 85775)--Continued

DISSOLVED CHLORIDE (CL) . MG/L. WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		5300		5000	4900	3100	5200	6200	5500	4900	6900	4900
1	6600	5000	5800	5000	5000	3200	5300	6400	5400	5000	7300	4900
2	6200		5700	5100	4800	3200	5200	6600	5400	5000	6900	4900
3	6800	5300	1800	5100	4700	3200	5500	6600	5500	5000	7400	4900
4	6400	5600	5900	5000	3200	3000	5400	6600	5400	4900	7200	5000
5	6100	4900	5900	2000	3200	3000	3.00					
6	6100	5000	5800	5200	3100	3200	5300	6800	5400	5400	7000	5000
7	6300	5000	5900	3900	3000	3100	5200	6600	5000	6800	7000	4900
8	6400	7600	5900	3800	3100	3100	5300	6700	5400	5100	4400	6400
	6000	7600	5900	4000	3200		5000	6700	4300	6900	4100	5200
9		5000	5800	4000	3200	3200	5200	6600	4000	5200	4400	6400
10	6000	3000	2000	4000	5200							
11	5800	510u	5900	3900	3200	5900	5200	6600	4500	7000	4000	6500
12	5800	7700	5900	3900	3200	5200	5400	6500	4700	5000	4200	5100
	6000	5000	5900	3800	3300	5200	5400	6000	9400	5100	4200	6400
13	6100	5000	5800	3700	3300	3100		6500	4700	7000	4200	5200
14 15	6200	5000		3800	3400	5100	6200	5400	4000	6600	4100	6500
15	0200	3000										0.2000
16	5800	5000	5800	3900	3400	5600	4900	6600	4400	7200	4000	5200
17	6200	7700	6000	4400	3300	5400	6000	6100	4500	6900	4200	5000
18	6300	7700	7800	3700	2900	4000	6600	5200	4500	7000	4000	6300
		5400	10000	3300	3000	5400	6200	5700	4600	6900	4300	5300
19	6000	7700	11000	3800	2800	5400	6000	5300	5200	6800	4200	6500
20	5300	7700	11000	3000	2000	1000	2000					
21	6800	7700	10000	3600	2900	4700	6100	5300	4600	6100	5900	5100
22	5300	7800	8000	3700	2700	4400	6500	6000	4600	7000	4900	6000
23	6800	7700	9000	4800	2700	4500	6600	5300	4000	7000	5200	5200
	5300	7800	7800	2800	2700	4400	6400	5400	4500	7100	5000	5200
24	6800	5000	11000	3800	3200	4400	6100	5000	4800	6900	5100	5100
25	0000	3000	11000	3000	5-00	20.00					A 11 11 11 11 11 11 11 11 11 11 11 11 11	
26	5400	7800	8100	2600	3100	4200	6400	5500	5200	7200	5000	5200
27	6800	5100	8000	2500	3300	4400	6600	6400	5100	7200	5500	5200
28	5300	5100	8000	2600	3300	4400	6400	4700	5000	7200	5100	5200
29	5000	5300	8200	2500		5200	6300	5600	5100	6900	4900	6500
	5000	7700	8000	5000		5200	6100	5200	5000	7400	4800	6400
30			5200	4900		5200		5400		7100	5000	
31	5000		3200	4300		5200						22.1
MONTH	6000	6200	7000	4000	3400	4300	5800	6000	5100	6300	5200	5500
YEAR	MAX	11000	MIN	1800	MEAN	5400						

294045089235100 MISSISSIPPI RIVER GULF OUTLET AT MILE 20.0 NEAR GARDNER ISLAND, NEAR HOPEDALE, LA (CE 85852)

LOCATION.--Lat 29°40'45", long 89°23'51", T.16 S., R.18 E., St. Bernard Parish, Hydrologic Unit 08090203, 18.1 mi (29.1 km) southeast of Hopedale.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- January 1978 to September 1978.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CACO3)
JAN	1105	21800	7.9	7	10	11.9	120	1.4	к8	К4	2500	2400
16 FEB	15/2000											
15 MAR	0950	22500	7.7	15	10	11.5	86	3.7	<5	0	2500	2400
15 APR	1045	29100	8.0	1	2	9.4	130	2.1	K12	2	3000	2900
18	1050	29100	8.0	5	30	9.3	400	3.3	<5	<5	3300	3200
MAY 22	1000	22200	8.2	10	8	7 • 0	260	2.4	28	K4	2500	2400
19	1100	25500	7.9	20	6	7.1	400	2.3	<5	<5	3000	2900
13	1100	30000	8.0	5	2	7.0	250	3.4	<5	<5	3500	3400
AUG 29 SEP	1125	35500	7.9	5	2	8.1	340	2.0	K120		3600	3500
11	1030	30000	8.1	5	5	8.1	670	2.2	430		3400	3300
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JAN 16	160	500	3600	75	32	160	87	0	71	1.8	1100	7400
FEB 15	160	510	4300	78	37	170	82	0	67	2.6	1100	7800
MAR						190	96	0	79	1.5	22	
15 APR	190	610									1500	10000
18	550	660	5700	78	43	240	111	0	91	1.8	1500	10000
22	180	500	4400	78	38	170	113	0	93	1.1	1100	7500
JUN 19	190	610	4700	76	37	200	110	0	90	2.2		9100
13	230	720	5900	77	43	240	125	0	100	2.0	1500	10000
AUG 29	230	730	6000	77	44	250	125	0	103	2.5	1500	11000
SEP 11	240	670	6100	78	46	240	130	0	110	1.7	1600	11000

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

#### MISSISSIPPI RIVER DELTA

294045089235100 MISSISSIPPI RIVER GULF OUTLET AT MILE 20.0 NEAR GARDNER ISLAND, NEAR HOPEDALE, LA (CE 85852)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SULIDS RESIDUI AT 105 DEG. C SUS- PENDED (MG/L	SE , M	TTLE- ABLE ATTER L/L/ HR)	NITR GEN NITRA TOTA (MG/ AS N	TE NIT	ITRO- GEN, IRITE DTAL MG/L G N)	NITRI GEN NOZ+NI TOTAI (MG/I	0- GEI • MOI 03 OR L D	ITRO- N,AM- NIA + GANIC IS. MG/L S N)	PHO TO (M	OS- RUS, TAL G/L P)	TO	ENIC TAL G/L AS)	ARSENI SUS- PENDE TOTAL (UG/L AS AS	D S	RSENIC DIS- SOLVED (UG/L AS AS)	TOT REC ERA		BERYI LIUM SUS- PENDI RECO (UG. AS I	ED OV.	
JAN 16	4	3	<1.0		00	.00		00	.52		.05		1		1	0		0		0	
FEB 15	3		<1.0		02	.00		02	.39		.05		1		1	0		10		10	
MAR					01	.01		02	.57		.09		0					0		0	
15 APR	-		<1.0										2		2	0		20		0	
18 MAY	3		<1.0		06	.01		07	.63		.08				1	0		10		10	
JUN	1	7	<1.0	•	02	.00		02	1.1		.05		1								
19 JUL	1	2	<1.0		04	.04		80	.66		.06		2		1	1		10		10	
13 AUG	1	0	<1.0		00	.01	•	01	.39		.08		2		0	2		20		10	
29 SEP	2	6	<1.0		04	.01		05	.62		.09		2		1	1		10		0	
11	1	6	<1.0		03	.02		05	.68		.08		2		1	1		10		0	
DA	L 0 5(	ERYL- IUM, IS- OLVED UG/L S BE)	CADM TOT, RECC ERAI (UG.	IUM AL OV- BLE /L	ADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMI DIS SOLV (UG/ AS C	UM :	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRI MIUI HEX. VALEI DI: (UG.	M, A- NT, S.	COPPE TOTA RECC ERAE (UG/ AS C	AL OV- BLE /L	COPPEI SUS- PENDI RECOI ERABI (UG/I AS CI	ED COV- LE	DPPER ( DIS- SOLVED (UG/L AS (U)	SOLV (UG)	ED L	LEAD TOTA RECO ERAD (UG,	AL OV- BLE /L		
JAN 16	١	0		0	0		0	10		0		3		1	i	2	20		1		
FEB	3	0		U	0		0	20		0		9		6	1	3	20		4		
MAR		0		1	0		1	10				5		0		5	30		3		
APR		20		1	1		0	20		0		6		1	- 5	5	20		6		
MAY		0		0	0		0	15		0		6		2	4		30		4		
JUN	4			3	2		1	0		0		4		2		2	60		3		
JUL		0		3	2		1	10		0		4		2		2	30		6		
AUG		10						20		0		5		4		1	30		0		
SEP		10		0	0		0							0		4	20		3		
11	1	10		1	1		0	30	**	0		4		U			20		3		
DA	P R E	EAD, SUS- ENDED ECOV- RABLE UG/L S PB)	SOL (UG	D• S- VED /L	ERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCU SUS PENU RECU ERAL (UGA AS H	S- DED M DV- BLE /L	ERCURY DIS- SOLVED (UG/L AS HG)	REC ERA (UG	AL OV- BLE /L	NICKE SUS PENI RECO ERAB (UG, AS	S- DED OV- BLE /L	NICKE DIS- SOLV (UG/ AS N	ED !	SELE- NIUM, TOTAL (UG/L AS SE)	SELE NIUM SUS PENI TOTA (UG.	S- DED AL	SELI NIU DI SOL (UG AS	M, S- VED /L		
JAN 16	N 	1		0	.0		.0	.0		5		3		2		0	0		0		
FEB		4		0	.0		.0	.0		0		0		0		0	0		0		
MAR	3	0		3	.0		.0	.0		0		0		0		0	0		0		
APR	3	4		2						6		6		0		0	0		0		
MAY					.0		.0	.0		5		5		0		0	0		0		
JUL		3		1	• 0		.0	•0													
JUL		2		1	•1		.1	.0		6		4		2	1	0	0		0		
AUG		4		2	. 1		.1	.0		5		5		0		0	0		0		
SEP SEP	2	0		0	• 0		• 0	• 0		0		0		0		0	0		0		
11	1	3		U	.0		.0	. 0	į.	4		3		1		0	0		0		

< Actual value is known to be less than the value shown.

294045089235100 MISSISSIPPI RIVER GULF OUTLET AT MILE 20.0 NEAR GARDNER ISLAND, NEAR HOPEDALE, LA (CE 85852)--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ZINC+ TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SULVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE; TOTAL (UG/L)	DDD, TOTAL (UG/L)
JAN 16	30	10		5.5	.00	0	0	.0	.00	.000	.0	.000
FEB 15	40	20	20	5.7	.00	2	0	.0	.00	.000	.0	.000
MAR 15	30	0	30	3.5	.00	0	0	.0	.00	.000	.0	.000
APR 18	70	30	40	6.8	.00	0	0	.0	.00	.000	•0	.000
YAM 22	30	0	30	6.3	.00	2	0	.0	.00	.000	.0	.000
JUN 19	20	0	20	5.4	.00	2	0	.0	.00	.000	.0	.000
JUL 13	50	0	50	6.1	.00	1	0	.0	.00	.000	.0	.000
AUG 29	40	0	40	5.5	.00	2	0	.0	.00	.000	.0	.000
SEP 11	40	10	30	6.2	.00	1	0	.0	.00	.000	.0	.000
	.,				•••			••	•••	.000	••	.000
DATE	DDE, TOTAL (UG/L)	DDT, TCTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN. TOTAL (UG/L)	ETHION. TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN		100										
FEB	.000	.000	.01	.000	.000	.000	.00	.000	.000	.000	.00	.00
15 MAR	.000	.000	•03	.000	.000	.000	•00	.000	.000	.000	.00	.00
15 APR	.000	.000	•01	.000	.000	.000	•00	.000	.000	.001	•00	•00
18 MAY	.000	.000	•01	.000	.000	.000	.00	.000	.000	.000	.00	.00
22 JUN	.000	.000	• 0 1	.000	.000	.000	•00	.000	.000	.001	.00	.00
19 JUL	.000	.000	•01	.000	.000	.000	• 0 0	.000	.000	.000	.00	.00
13 AUG	.000	.000		.000	.000	.000		.000	.000	.000		.00
29 SEP	.000	.000	•01	.000	.000	.000	.00	.000	.000	.001	.00	.00
11	.000	.000	•00	.000	.000	.000	•00	.000	.000	.000	•00	.00
	METHYL PARA- THION, TOTAL	METHYL TRI- THION, TCTAL	PARA- THION, TOTAL	PER- THANE TOTAL	TOX- APHENE, TOTAL	TOTAL TRI- THION	MIREX,	2,4-D, TOTAL	2,4,5-T TOTAL	SILVEX,	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM
DATE	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
16 FEB	• 0 0	.00	• 0 0	.00	0.0	.00	•00	.00	.01	.00	8.75	.000
15 MAR	• 0 0	• 0 0	•00	•00	0.0	.00	•00	.01	•00	•00	6.73	•000
15 APR	.00	.00	.00	.00	0.0	.00	.00	.00	.00	.00	3.00	.000
18	.00	.00	•00	.00	0.0	.00	.00	.01	.00	.00	5.49	.000
22	• 0 0	•00	• 0 0	.00	0.0	.00	.00	.00	• 00	.00	9.71	.000
JUN 19 JUL	.00	.00	.00	.00	0.0	.00	.00	.01	.00	.00	16.5	.000
13 AUG				.00	0.0		.00	.00	.00	.00	21.9	1.14
29	.00	• 0 0	•01	.00	0.0	.00	•00	.00	.00	.00	12.8	.000
SEP 11	.00	.00	.00	.00	0.0	.00	.00	.00	.00	.00	13.3	.000

#### 293810089392000 BLACK BAY NEAR MOUTH OF RIVER AUX CHENES, NEAR BOHEMIA, LA (CE 86070)

LOCATION.--Lat 29°38'10", long 89°39'20", in NE4 sec.26, T.16 S., R.15 E., Plaquemines Parish, Hydrologic Unit 08090203, 8.7 mi (14.0 km) northeast of Bohemia.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- January 1978 to September 1978.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
JAN												
16 FEB	1300	18200	8.0	25	5	13.0	120	4.0	K4		2000	1900
15 MAR	1200	12600	7.5	20	6	11.2	54	4.6	<5	0	1300	1200
15 APR	1235	12100	7.9	15	5	8.9	84	2.6	K20	K12	1200	1100
18	1300	12100	7.9	10	10	10.6	120	5.6	<5	<5	1300	1200
22 JUN	1215	14300	8.0	30	6	7.7	180	2.9	K36	<5	1600	1500
19 JUL	1245	15100	8.2	20	6	7.9	330	4.6	K24	<5	1700	1600
13 AUG	1245	12700	8.0	40	6	7.0	140	2.5	<5	<5	1400	1300
29 SEP	1325	16600	7.9	30	3	8.8	370	1.3	120		1800	1700
11	1215	17300	8.0	30	6	8.7	140	3.9	190	<5	1700	1600
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JAN												
16 FEB	130	400	3200	77	31	120	102	0	84	1.6	820	5500
15 MAR	92	260	2200	77	27	89	86	0	71	4.4	770	4000
15 APR	82	242	2600	80	33	200	90	0	74	1.8	580	4500
18	90	270	2200	77	26	85	102	0	84	2.1	530	3900
22 JUN	110	310	27.00	78	30	110	100	0	82	1.6	620	4700
19 JUL	120	330	2800	77	30	120	117	0	96	1.2	630	5000
13 AUG	100	270	2300	77	27	98	134	0	110	2.1	510	4200
29 SEP	130	350	3200	78	33	130	127	0	100	2.6	680	5800
11	130	330	3400	80	36	130	131	0	110	2.1	730	5900

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

### 293810089392000 BLACK BAY NEAR MOUTH OF RIVER AUX CHENES, NEAR BOHEMIA, LA (CE 86070) -- Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS RESIDU AT 105 DEG. C SUS- PENDED (MG/L	E SET , A MA (ML	TLE-	NITRO- GEN; HITRATE TOTAL (MG/L AS N)	NITE TO (M)	EN; RITE NO TAL T G/L (	ITRO- GEN: 2+NO3 OTAL MG/L S N)	NIT GEN 9 MON I ORGA DIS (MG	IA + ANIC 5.	PHOR TOT (MG	US, AL /L	ARSE TO (UC	NIC F	SENIC SUS- ENDED OTAL UG/L S AS)	SOL (UC	ENIC (S= _VED G/L AS)	BERYI LIUM TOTAL RECOV ERABL (UG/L AS BE	LII SI V- PEI LE RI	RYL- UM, US- NDED ECOV. UG/L S BE)
JAN 16	3	5	<1.0	.00		.01	.01		.70		.07		0	0		0		0	0
FEB 15		1	<1.0	•01		.01	.02		.68		.07		0	0		0		10	10
MAR 15		7	<1.0	•01		.01	.02		.42		.14		0	0		0		0	0
APR		_		.04		.01	.05		.67		.33		3	2		1		0	0
18 MAY			<1.0			.01	.03		.76		.08		0	0		0		5	0
JUN		5	<1.0	•02									1	0		1		10	5
19 JUL		6	<1.0	•04		.03	•07		.83		.07		3	0		3		10	0
13 AUG		27	<1.0	•00		.01	.01		.96		.14			0		2		10	10
29 SEP	1	3	<1.0	•00		.01	.01		.95		.18		2						
11		6	<1.0	•01		.01	.02		.81		.14		2	1		1		10	0
	L C S ATE A	ERYL- IUM, DIS- GOLVED UG/L (S BE)	CADMIL TOTAL RECOV ERABL (UG/L AS CE	PEN PEN PEN PEN PEN PEN PEN PEN PEN PEN	S- DED OV- BLE /L	CADMIUM DIS- SOLVEI (UG/L AS CD)	REC ERA (UG	M+	CHRO MIUM HEXA VALEN DIS (UG/ AS C	, - T,	COPPE TOTA RECO ERAE (UG/ AS C	L OV- BLE 'L	COPPER SUS- PENDEL RECOV- ERABLE (UG/L AS CU)	COPI DI: SOI	PER• S- LVED G/L CU)	IRON DIS- SOLVE (UG/L AS FE	- ED	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	
JAN 16	v 5	0		0	0		)	0		0		2		)	2		30	0	
FEE 15	5	0		1	0	1		20		0		8		5	3	i	20	2	
MAF 15	5	0		0	0		)	10		0		2		)	2		40	4	
APF	R B	0		0	0		)	20		0		9		3	6	- 5	40	9	
MA)	Y 2	5		0	0		)	10		0		5	49	3	2		0	3	
JUL		5		0	0		0	0		0		5		2	3	- 3	20	1	
JUL		10		2	1		1	20		0		5		3	2		50	5	
AUG		0		Ü	0		0	10		0		4		2	2		40	2	
SEF		10		0	0		0	0		0		4		0	4	- 3	20	4	
		10		•															
D	, ,	EAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD DIS- SOLVE (UG/I AS PE	ED ERA	AL OV- BLE	MERCUR SUS- PENDE RECOV- ERABLI (UG/L AS HG	MERO DI SOL	CURY IS- LVED G/L HG)	NICKE TOTA RECO ERAB (UG/ AS N	IL IV- ILE	PENI RECO ERAL (UG.	S- DED DV- BLE /L	NICKEL DIS- SOLVE (UG/L AS NI	NI TO (U	LE- UM, TAL G/L SE)	SELE- NIUM SUS- PENDI TOTAI (UG/I AS SI	ED L	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	
JAI 10	N 6	0		0	.2		2	. 0		5		3		2	0		0	0	
FE		1		1	. 0			. 0		3		1		2	0		0	0	
MAR		1		3	.0			.0		0		0		0	0		0	0	
API	R	9		0	.0			.0		7		6		1	0		0	0	
MA		3		0	.0			.0		4		4		0	0		0	0	
JUI										2		2		0	0		0	0	
JUI		1		0	.0	•		.0				3		4	0		0	0	
AU		3		2	.0			.0		7								0	
SEI		2		0	.0	•		• 0		7		0		7	0		0	0	
1	1	4		0	. 0		U	.0		3		1		2	0		0	0	

<sup>&</sup>lt; Actual value is known to be less than the value shown.

# 293810089392000 BLACK BAY NEAR MOUTH OF RIVER AUX CHENES, NEAR BOHEMIA, LA (CE 86070)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANTDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD+ TOTAL (UG/L)
JAN 16	20	10	10	9.7	.00	0	0	.0	.00	.000	.0	.000
FEB 15	30	10	20	9.5	.00	1	0	.0	.00	.000	.0	.000
MAR 15	20	10	10	8.4	.00	1	0	.0	.00	.000	.0	.000
APR 18	50	30	20	17	.00	2	0	.0	.00	.000	.0	.000
MAY						2	0			.000	.0	.000
JUN	20	0	20	11	•00			• 0	.00	.000		.000
JUL	30	0	30	9.1	.00	2	0	• 0	.00		•0	
13 AUG	30	0	30	14	.00	1	0	.0	.00	.000	.0	.000
29 SEP	20	0	20	14	•00	2	0	• 0	.00	.000	• 0	.000
11	20	0	20	13	•00	1	0	• 0	.00	.000	• 0	.000
DATE	DDE + TOTAL (UG/L)	DDT. TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION+ TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN 16	.000	.000	•01	.000	.000	.000	•00	.000	.000	.000	•00	.00
FEB 15	.000	.000	.07	.000	.000	.000	.00	.000	.000	.002	.00	.00
MAR 15	.000	.000	•01	.000	.000	.000	•00	.000	.000	.001	.00	.00
APR 18	.000	.000	•01	.000	.000	.000	•00	.000	.000	.003	•00	•00
MAY 22	.000	.000	.01	.000	.000	.000	.00	.000	.000	.006	.00	.00
JUN 19			.02	.001	.000	.000	.00	.000	.000	.001	.00	.00
JUL 13	.000	.000	.02			.000	.00	.000	.000	.000	.00	.00
AUG 29	.000	.000	.01	.000	.003		.00				.00	.00
SEP	.000	.000	.00	.000		.000		.000	.000	.001	.00	.00
11	.000	.000	.00	.000	7,7	.000	•00	.000	.000	.001	.00	.00
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX+ TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JAN 16	.00	.00	.00	.00	0.0	.00	.00	.00	.00	.00	11.3	.000
FEB 15	.00	.00	•00	.00	0.0	.00	.00	.00	.00	.00	7.52	.000
MAR 15	•00	•00	•00	•00	0.0	.00	•00	•00	.00	.00	11.9	.000
APR 18	.00	.00	.00	.00	0.0	.00	.00	.00	.01	.00	34.4	5.21
MAY 22	.00	•00	•00	.00	0.0	.00	•00	-			14.2	.000
JUN 19	•00	•00	•00	.00	0.0	.00	•00	.00	.00	.00	10.6	.000
JUL 13	.00	.00	.00	.00	0.0	.00	.00	.00	.00	.00	23.6	2.04
AUG 29	.00	.00	•00	.00	0.0	.00	•00	.00	.00	.00	18.2	.930
SEP 11	.00	.00	•00	.00		.00	•00				19.0	.000
	• 00	• 00	• 00	• 00	0.0	• 00	• 00				19.0	•000

292730089032200 MISSISSIPPI RIVER GULF OUTLET AT MILE -5.0 (BRETON SOUND), NEAR HOPEDALE, LA (CE 99212)

LOCATION.--Lat 29°27'30", long 89°03'22", T.22 S., R.21 E., Plaquemines Parish, Hydrologic Unit 08090203, 42.4 mi (78.2 km) southeast of Hopedale.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1976 to current year.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND. BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./	HARD- NESS (MG/L AS CACO3)	HARD- NESS: NONCAR- BONATE (MG/L CACO3)
JAN 16	1125	29600	8.0	5	7	12.0	120	1.4	к8	<5	3500	3400
FEB	1125	29000	0.0	3	,	12.0	120	1.4	1,0	(5	3500	3400
15 MAR	1015	33300	8.1	5	8	11.8	140	3.6	K44	К 2	3900	3800
15 APR	1100	43100	8.2	0	2	10.2	100	2.1	<b>&lt;</b> 5	<5	4900	4800
18	1105	28600	8.1	5	10	10.6	140	3.5	<5	<5	3200	3100
22 JUN	1030	29800	8.5	0	3	10.4	380	2.1	K76	K12	3400	3300
19	1130	32800	8.5	5	9	8.4	470	2.8	К8	<5	3900	3800
13 AUG	1115	36800	8.5	0	1	8.6	200	2.6	<5	<5	4500	4300
29 SEP	1200	36900	8.1	5	5	8.6	390	.6	110	K16	4400	4300
11	1050	32900	8.4	0	1	7.8	630	1.9	K20	<5	3700	3600
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SOD IUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JAN 16	220	710	5300	75	39	230	111	0	91	1.8	1500	10000
FEB												10000
15 MAR	250	800	6600	78	46	190	102	0	84	1.3	1600	12000
15 APR	310	1000	8000	77	50	340	137	0	112	1.4	1900	14000
18 MAY	220	650	5700	78	44	230	123	0	101	1.6	1500	10000
22 JUN	210	690	6000	78	45	220	120	6	108	.7	1500	8600
19	240	800	6700	77	47	280	123	4	110	.7	1500	12000
13 AUG	270	920	7700	78	50	310	129	6	120	.7	1800	14000
29 SEP	270	900	7300	77	48	310	143	0	117	1.8	1500	13000
11	260	750	6900	79	49	260	130	5	120	.9	1700	12000

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

#### MISSISSIPPI RIVER DELTA

292730089032200 MISSISSIPPI RIVER GULF OUTLET AT MILE -5.0 (BRETON SOUND), NEAR HOPEDALE, LA (CE 99212) -- Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SULIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SE'	TTLE- ABLE ATTER _/L/ HR)	NIT GE NITR TOT (MG AS	N. ATE NI AL T	ITRO- GEN, TRITE OTAL MG/L S N)		AL S/L	NIT GEN+ MONI ORGA DIS (MG AS	AM- A + NIC	PHOP TO		(0	ENIC TAL G/L AS)	ARSE SU: PENI TOT. (UG: AS	S- DED AL /L	ARSEN DIS SOLV (UG/ AS A	IIC ED	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	PEN RE	RYL- JM, JS- NDED ECOV. JG/L S BE)
JAN 16	26		<1.0		.21	.01		.22		.34		.05		0		0		0	0		0
FEB 15	26		<1.0		.03	.01		.04		.19		.04		1		1		0	0		0
MAR 15	7		<1.0		.14	.01		.15		.34		.10		1		0		1	0		0
APR 18	9		<1.0		.58			.62		.60		.06		2		2		0	10		10
MAY						.04															
JUN	15		<1.0		•24	.01		.25				.03		1		1		0	20		20
19 JUL	21		<1.0		•09	.04		.13		. 45		.06		2		1		1	5		0
13 AUG	- 3	1	<1.0		• 0 1	.01		.02		.57		.03		5		1		1	20		10
29 SEP	14		<1.0		.16	.02		.18		.53		.09		2		1		1	10		0
11	9	1	<1.0		• 04	.01		.05		.68		.07		1		0		1	0		0
DA	D1 S0 (U	RYL- UM, S- LVED IG/L BE)	CADM TOTA RECO ERAN (UGA	IUM AL OV- BLE /L	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADM	S- VED /L	CHRO MIUM TOTA RECO ERAE (UG/ AS C	AL OV- BLE 'L	CHRO MIUM HEXA VALEN DIS (UGA AS (	M, A- NT, S.	COPP TOT REC ERA (UG AS	AL OV- BLE /L	COPPE SUS- PEND RECO ERAB (UG/ AS C	ED V- LE L	COPPE DIS- SOLV (UG/ AS C	ED L	IRON. DIS- SOLVE (UG/L AS FE	D ER	AD, TAL COV- ABLE G/L PB)	
JAN	•••	0		0	0		0		40		0		2		0		2	3	0	1	
FEB	3				0		0		20		0		6		3		3		0	2	
MAR		0		0													2		0	3	
APR		0		1	0		1		20		0		3		1						
MAY		0		Ü	0		0		30		0		5		3		2		0	3	
JUL		0		0	0		0		10		0		5		3		5		0	3	
19 JUL	•••	5		1	0		1		30		0		3		2		1		0	3	
13 AUG	3	10		2	2		0		10		0		4		1		3	3	0	4	
		10		0	0		0		40		0		5		4		1	5	0	0	
		0		0	C		0		20		0		3		0		3	3	10	1	
DA	PE RE EF	AD, SUS- NDED COV- RABLE JG/L S PB)	LEAI DI: SOL (UG: AS	D• S- VEU /L	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	PEN REC ERA (UG	DED OV- BLE	MERCI DIS SOLV (UG.	JRY S- VED VL	NICKI TOTA RECO ERAN (UG.	AL DV- BLE /L	NICK SU PEN REC ERA (UG AS	S- DED OV- BLE /L	NICKE DIS- SOLV (UG/ AS N	ED L	SELE NIUM TOTA (UG/ AS S	, L L	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE	SE N1 D C	LE- UM, )IS- )LVED JG/L ; SE)	
JAN		1		0					0				2		,		0		0	0	
FEB		1		0	.0		.0		.0		4		3		1		0				
MAR		2		0	1.2		1.2		. 0		3		3		0		0		0	0	
APR		0		3	.0		.0		.0		0		0		0		0		0	0	
18 MAY		3		0	.0		.0		• 0		4		4		0		0		0	0	
	2	2		1	• 0		• 0		• 0		0		0		0		0		0	0	
		3		0	. 2		.1		.1		4		4		0		0		0	0	
13 AUG	3	0		4	.0		. 0		.0		5		3		2		0		0	0	
29		0		0	.1		.1		.0		0		0		0		1		0	1	
SEP 11		1		0	.0		.0		. 0		2		1		1		0		0	0	

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

292730089032200 MISSISSIPPI RIVER GULF OUTLET AT MILE -5.0 (BRETON SOUND), NEAR HOPEDALE, LA (CE 99212)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD. TOTAL (UG/L)
JAN 16	40	20	20	4.3	.00	0	0	.0	.00	.00	.0	.00
FEB 15	60	30	30	3.6	.00	0	0	.0	.00	.00	.0	.00
MAR 15	50	30	20	2.6	.00	0	0	.0	.00	.00	.0	.00
APR 18	60	20	40	3.3	.00	0	0	.0	.00	•00	.0	.00
MAY	30	0	30	3.0		2	0					
JUN					.00			.0	.00	.00	.0	.00
19 JUL	30	0	30	3.6	.00	1	0	• 0	.00	.00	• 0	•00
13 AUG	60	0	60	3.2	•00	1	0	.0	.00	.00	• 0	•00
29 SEP	40	10	30	4.9	.00	1	0	.0	.00	.00	• 0	.00
11	40	0	40	3.9	•00	0	0	.0	.00	.00	.0	•00
DATE	DDE • TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN 16	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
FEB 15	.00	.00	•01	.00	•00	.00	•00	.00	.00	.00	.00	.00
MAR 15	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
APR 18	.00	.00	•01	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY 22	.00	.00	•01	.00	•00	.00	•00	.00	.00	.00	•00	.00
JUN 19	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUL 13	.00	.00	•00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AUG	.00		•01									.00
29 SEP		.00		.00	.00	.00	.00	.00	.00	.00	.00	
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
DATE	METHYL PARA- THION. TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX+ TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JAN 16	.00	.00	•00	.00	0	.00	.00	.01	.00	.00	3.75	.000
FEB 15	.00	.00	•00	.00	0	.00	•00	.01	.00	.00	4.90	.000
MAR 15	.00	.00	•00	.00	0	.00	.00	.00	.00	.00	10.8	.000
APR 18	.00	.00	•00	.00	0	.00	.00	.02	.01	.00	1.55	.000
YAM 22	.00	.00	•00	.00	0	.00		.01.		.00	4.81	.000
JUN					0		•00					
JUL	.00	.00	.00	.00		.00	.00	.01	.00	.00	27.5	.000
13 AUG	.00	.00	•00	.00	0	.00	.00	.00	.00	.00	5.46	.000
SEP	.00	.00	•00	.00	0	.00	•00	.00	.00	.00	14.2	.000
11	.00	.00	•00	.00	0	.00	.00	.00	.00	.00	6.48	.000

#### 291919089361800 BAYOU LONG AT MILE 5.1, NEAR EMPIRE, LA (CE 99213)

LOCATION.--Lat 29°19'19", long 89°36'18", in sec.11, T.21 S., R.28 E., Plaquemines Parish, Hydrologic Unit 08090301, 4.2 mi (6.8 km) south southwest of Empire.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- January 1978 to September 1978.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM. FECAL, 0.7 UM-MF (COLS./	HARD- NESS (MG/L AS CACO3)	HARD- NESS; NONCAR- BONATE (MG/L CACO3)
JAN	1250	46200		-	2.0		200				5500	5100
16 FEB	1250	46300	8.1	5	30	9.4	200	1.7	K4		5500	5400
15 MAR	1135	34800	7.9	5	25	10.8	69	4.8	K4		4200	4100
15 APR	1210	34900	8.1	10	25	9.3	140	1.3	K12	5	4100	4000
18	1230	11600	8.0	10	15	10.2	52	3.8	к8	K4	1300	1200
22 JUN	1200	19000	8.3	0	15	9.4	210	1.9	( 2 -	K16	2400	2300
19 JUL	1215	25000	8.3	10	30	7.3	380	2.0	K20	K14	2900	2800
13 AUG	1220	31000	8.2	5	9	7.4	360	2.7	<5	<5	3700	3600
29 SEP	1315	25600	7.9	15	20	7.3	370	1.3	K140	<4	2700	2600
11	1200	25600	8.1	10	10	6.6	260	2.5	510	K20	2700	2600
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HC03)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE; DIS- SOLVED (MG/L AS CL)
JAN	270	1100	0200	70		2	140				25.44	
16 FEB	370	1100	9300	79	55	36	148	0	121	1.9	2500	17000
15	270	850	7000	77	47	260	133	0	109	2.7	1600	13000
MAR 15	260	850	6200	75	42	290	133	0	109	1.7	1400	11000
18	96	250	2000	76	24	81	112	0	92	1.8	530	3700
22 JUN	170	470	3800	76	34	150	126	0	103	1.0	930	6800
19	190	590	4600	76	37	210	135	0	111	1.1	1100	8800
13	240	760	6400	77	46	260	146	0	120	1.5	1500	12000
29 SEP	190	540	4400	77	37	180	147	0	121	3.0	1200	8600
11	200	540	5000	79	42	190	146	0	120	1.9	1200	8800

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

### 291919089361800 BAYOU LONG AT MILE 5.1, NEAR EMPIRE, LA (CE 99213) -- Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE ABLE MATTE (ML/L/ HR)	NITR R TOT	N. G ATE NIT AL TO /L (M	TRO- EN, RITE TAL G/L N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITHO GEN, AM MONIA ORGANI DIS. (MG/L AS N)	- + PH C PHO TO	IOS- PRUS, TAL IG/L	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSEN DIS SOLV (UG/	LIC TO	RYL- UM, OTAL CCOV- RABLE JG/L B BE)	BERYL- LIUM, SUS- PENDED RECOV (UG/L AS BE	).
JAN	1000												v	2.0		
16 FEB	158	<1.	. 0	.13	.03	.16	. 2	9	.11	2	1		1	20	1	0 1
15	80	<1.	• 0	• 03	.01	• 0 4	.3	0	.08	1	1		0	10		0
MAR 15	92	<1.	. 0	.35	.01	.36	.3	8	.17	1	1		0	0		0
APR 18	27	<1.	. 0 1	• 1	.07	1.2	.6	0	.08	2	2		0	0		0
22 JUN	25	<1.	. 0	.77	.04	.81	.5	2	.06	1	0		1	5		0
19	22	<1.	. 0	.33	.05	.38	.5	1	.10	1	0		1	20	1	0
JUL 13	35	<1.	. 0	.02	.03	.05	.7	2	.10	2	1		1	20	1	0
AUG 29	52	<1.	. 0	•42	.05	.47	.7	5	.16	2	0		2	10		0
SEP 11	29	<1	. 0				.7	5	.08	2	1		1	10	1	10
ŪΑ	DI: SOI (U	JM, 1 S- F _VED E S/L	ADMIUM FOTAL RECOV- FRABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMII DIS SOLV (UG/ AS C	- REC ED ERA L (UG	M, M AL H OV- VA BLE /L (	HRO- IUM, EXA- LENT, DIS. UG/L S CR)	COPPE TOTA RECO ERAB (UG/ AS C	V PEN V REC LE ERA L (UG	DED COP OV- DI BLE SO	S- LVED G/L	IRON, DIS- SOLVED (UG/L AS FE)	LEA TOT REC ERA (UG AS	AL OV- BLE /L	
JAN 16		10	0	0		0	30	0		6	5	1	40		4	
FEB																
MAR		10	1	0		1	30	0		14	12	2	20		4	
APR	•••	0	0	0		0	20	0		4	2	2	130		4	
18 MAY		0	1	1		0	10	0		4	0	4	30		4	
		5	0	0		0	15	0		6	4	2	0		4	
19		10	0	0		0	15	0		7	4	3	20		4	
		10	2	1		1	20	0		5	2	3	30		5	
AUG 29 SEP		10	0	0		0	10	0		6	4	2	20		2	
		0	U	0		0	20	1		4	1	3	20		3	

11...

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

# 291919089361800 BAYOU LONG AT MILE 5.1, NEAR EMPIRE, LA (CE 99213)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)
JAN										4	100
16	2	2	.0	.0	.0	10	8	2	0	0	0
FEB						1.0					
15	3	1	• 2	• 2	• 0	18	16	2	0	0	0
MAR	1.2	11.0					1	0	0	0	0
15	0	4	.0	.0	.0	1	1	U	U	U	U
APR	5		,	.0	.1	8	8	0	0	0	0
18	3	1	.1	. 0	• •	0	0	•			
MAY 22	4	0	.0	.0	.0	6	6	0	0	0	0
JUN	-	U	• 0	••	••						
19	3	1	.0	.0	. 0	4	3	1	0	0	0
JUL	-	•	••	•							
13	3	2	. 1	.1	.0	7	4	3	0	0	0
AUG											
29	2	0	.1	. 1	.0	44	14	30	0	0	0
SEP											
11	3	0	.1	.0	.1	4	4	0	0	0	0

DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE (MG/L)	PCB. TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD. TOTAL (UG/L)
JAN									0.0	000		000
16	80	20	60	4.1	.00	0	0	• 0	.00	.000	.0	.000
FEB 15	60	30	30	5.7	.00	1	0	.0	.00	.000	.0	.000
MAR												
15	40	30	10	3.3	.00	1	0	.0	.00	.000	.0	.000
APR 18	30	10	20	5.6	.00	0	0	.0	.00	.000	.0	.000
MAY	-	10.4		373						2.00		
22	30	0	30	4.9	.00	1	0	.0	.00	.000	.0	.000
JUN 19	50	10	40	5.0	.00	2	0	.0	.00	.000	.0	.000
JUL	30									221		000
13	60	0	60	5.3	.00	1	0	.0	6.0	.001	.0	.000
AUG 29	40	0	40	7.2	.00	1	0	.0	.00	.000	.0	.000
SEP 11	30	0	30	4.9	.00	0	0	.0	.00	.000	.0	.000

MISSISSIPPI RIVER DELTA
291919089361800 BAYOU LONG AT MILE 5.1, NEAR EMPIRE, LA (CE 99213)--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN 16	.000	.000	.01	.000	.000	.000	•00	.000	.000	.000	.00	.00
FEB 15	.000	.000	•03	.001	.000	.000	.00	.000	.000	.001	.00	.00
MAR 15 APR	.000	.000	.01	.000	.000	.000	.00	.000	.000	.000	.00	.00
18	.000	.000	•01	.002	.000	.000	•00	.000	.001	.000	.00	.00
22 JUN	.000	.002	• 0 0	.003	.000	.001	•00	.000	.000	.000	.00	• 0 0
19	.000	.000	.01	.001	.000	,000	.00	.000	.000	.003	.00	.00
13 AUG	.003	.000	• 01	.000	.000	.000	.00	.000	.000	.000	.00	.00
29 SEP	.000	.000	• 01	.001		.000	•00	.000	.000	.001	.00	.00
11	.000	.000	•00	.001		.000	.00	.000	.000	.001	.00	.00
											CHLOR-A	CHLOR-6
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JAN	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TUTAL (UG/L)	PLANK- TON CHROMO FLUOROM (UG/L)	PLANK- TON CHROMO FLUOROM (UG/L)
JAN 16 FEB	PARA- THION, TOTAL	TRI- THION, TOTAL	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE,	TRI-	TOTAL	TOTAL	TOTAL	TUTAL	PLANK- TON CHROMO FLUOROM	PLANK- TON CHROMO FLUOROM
JAN 16 FEB 15 MAR 15	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	(UG/L)	PLANK- TON CHROMO FLUOROM (UG/L)	PLANK- TON CHROMO FLUOROM (UG/L)
JAN 16 FEB 15 MAR 15 APR 18	PARA- THION. TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION+ TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L) 0.0	TRI- THION (UG/L)	TOTAL (UG/L)	.00	TOTAL (UG/L)	.00	PLANK- TON CHROMO FLUOROM (UG/L) 10.0 21.2	PLANK- TON CHROMO FLUOROM (UG/L)
JAN 16 FEB 15 MAR 15 APR 18 MAY 22	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L) .00	**************************************	THANE TOTAL (UG/L) .00 .00	APHENE, TOTAL (UG/L) 0.0 0.0	TRI- THION (UG/L) .00	.00 .00	.00 .00	.00 .00	.00 .00	PLANK- TON CHROMO FLUOROM (UG/L) 10.0 21.2 7.70	PLANK- TON CHROMO FLUOROM (UG/L)
JAN 16 FEB 15 MAR 15 APR 18 MAY 22 JUN 19	PARA- THION, TOTAL (UG/L) .00 .00	TRI- THION, TOTAL (UG/L)	1HION, TOTAL (UG/L) .00 .00	THANE TOTAL (UG/L) .00 .00	0.0 0.0 0.0 0.0	TRI- THION (UG/L)	.00 .00 .00	.00 .00 .03	.00 .00 .01	.00 .00 .00	PLANK- TON CHROMO FLUOROM (UG/L) 10.0 21.2 7.70 7.85	PLANK- TON CHROMO FLUOROM (UG/L) .000 .000
JAN 16 FEB 15 MAR 15 APR 18 MAY 22 JUN 19 JUL 13	PARA- THION, TOTAL (UG/L) .00 .00 .00	TRI- THION, TOTAL (UG/L) .00 .00	1HION, TOTAL (UG/L) .00 .00 .00	THANE TOTAL (UG/L) .00 .00 .00	0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00	.00 .00 .00 .00	10TAL (UG/L) .00 .00 .03 .03	.00 .00 .01	.00 .00 .00	PLANKTON CHROMO FLUOROM (UG/L) 10.0 21.2 7.70 7.85 8.43	PLANK- TON CHROMO FLUGROM (UG/L) .000 .000
JAN 16 FEB 15 MAR 15 APR 18 MAY 22 JUN 19 JUL	PARA- THION- TOTAL (UG/L)  .00 .00 .00 .00 .00	TRI- THION, TOTAL (UG/L) .00 .00 .00	1HION, TOTAL (UG/L) .00 .00 .00	.00 .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0	.00 .00 .00 .00	.00 .00 .00 .00	TOTAL (UG/L)  .00 .00 .03 .03 .03 .02	.00 .00 .01 .01	.00 .00 .00 .00	PLANK- TON CHROMO FLUOROM (UG/L) 10.0 21.2 7.70 7.85 8.43 16.6	PLANK- TON CHROMO FLUOROM (UG/L) .000 .000 .000

#### 07380250 BAYOU BARATARIA AT LAFITTE, LA (CE 82875)

LOCATION.--Lat 29°40'06", long 90°06'36", lot 5, T.16 S., R.23 E., Jefferson Parish, Hydrologic Unit 08090301, 1.0 mi (1.6 km) south of Lafitte.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily 32.0°C June 26, 27, July 4, 5, 18, Aug. 20, 1978; minimum daily, 3.0°C Jan. 20, 1977.
CHLORIDE: Maximum daily, 10,000 mg/L Apr. 21, 1977; minimum daily, 100 mg/L Aug. 7, 1975.

EXTREMES FOR CURRENT YEAR.-WATER TEMPERATURES: Maximum daily, 32.0°C June 26, 27, July 4, 5, 18, Aug. 20; minimum daily, 4.0°C Jan. 20, 21.
CHLORIDE: Maximum daily, 2,700 mg/L Aug. 29; minimum daily, 160 mg/L Feb. 22, 23.

TEMPERATURE	(DEG.	C)	OF	WATER,	WATER	YEAR	OCTOBER	1977	TO	SEPTEMBER	1978
				01	VCE-DA	ILY					

					O.	MCE DATE						
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		24.0	18.0	13.0	7.0	15.0	21.5	24.0	24.0	31.0	30.0	29.0
2		22.0	17.0	10.0	8.0	16.0	22.0	25.0	29.5	31.5	30.5	29.0
3	27.0	20.0	18.0	9.0	7.0	16.0	22.0	25.0	28.0	31.5	30.5	29.0
4	25.0	21.0	21.0	9.0	8.0	14.5	22.0	21.0	27.0	32.0	31.0	29.0
5	24.5	19.0	24.5	10.5	8.0	10.5	23.0	22.0	29.0	32.0	31.0	29.0
6		19.0	18.0	12.5	7.5	11.5	23.0	23.5	28.0	31.0	31.0	30.5
7	24.0	18.0	14.0	14.5	5.0	13.5	23.5	24.5	26.0	31.0	30.0	30.0
8	24.0	20.0	13.0	15.0	6.0	15.0	24.0	25.0	20.0	30.5	30.0	29.5
9	23.5	20.0	14.0	10.0	5.0	13.0	24.0	25.0		27.0		29.0
10	24.0	17.0	11.0	8.5	5.5	11.0	24.0	25.0		27.0		28.0
11	24.0	15.0	10.5	7.0	7.0	12.5	24.0	25.0		28.5		28.5
12	22.0	15.0	10.5	7.5	9.0	15.0	21.0	26.0		29.0		29.0
13	20.0	15.0	12.0	8.0	9.5	18.0	20.0	26.0		29.0		29.0
14	18.0	15.0	13.0	6.0	10.0		21.0	25.5		29.0		29.0
15	18.0	15.0	15.5	5.0	9.0	18.0	22.0	25.0		29.0		29.0
16	18.0	17.0	16.0	7.0	10.0	18.0	23.0	27.0		29.5		29.0
17	17.5	17.0	16.0	8.0	10.0	16.0	24.0	26.0	29.0	31.0	30.0	29.0
18	18.0	18.0	15.5	6.5	8.0		24.5	25.0	29.0	32.0	30.5	29.0
19	18.0	18.0	14.0	6.0	8.0	17.0	24.5	26.0	29.0	31.0	31.0	29.0
20	20.0	19.0	12.5	4.0	6.5	17.0	23.0	27.5	29.0	30.5	32.0	29.0
21	22.0	20.0	10.0	4.0	8.0	18.0	23.0	28.0	30.0	30.0	31.5	29.5
22	22.0	20.0	10.0	4.5	7.0		23.0	28.5	30.5	28.0	31.0	30.0
23	23.0	19.5	10.0	6.0	8.5	20.0	23.5	29.5	31.0	29.0	31.0	30.0
24	24.0	19.5	10.5	8.5	9.0	20.0	23.5	29.5	31.0	29.0	30.0	29.5
25	24.0	19.0	10.5	11.5	9.5	20.0	24.5	30.0	31.5	29.5	30.0	29.0
26	23.0	17.0	11.0	8.0	10.5	18.0	24.0	30.0	32.0	30.0	30.0	28.5
27	22.5	18.0	9.0	7.5	11.0	17.5	22.0	29.5	34.0	30.0	30.5	28.0
28	22.0	19.0	9.5	7.5	11.0	17.0	22.0	29.0	31.0	30.0	29.0	28.0
29	22.0	19.0	10.0	7.0		18.0	23.0	28.0	31.0	30.0	27.0	26.0
30	22.0	19.5	11.5	7.5		20.0	23.5	30.0	31.0	30.0	28.0	25.5
31	22.0		10.0	7.0		20.0		29.5		30.0	29.5	
MONTH	22.0	18.5	13.5	8.5	8.0	16.5	23.0	26.5		30.0		29.0
YEAR	MAX	32.0	MIN	4.0	MEAN	21.0						

## 07380250 BAYOU BARATARIA AT LAFITTE, LA (CE 82875) -- Continued

# DISSOLVED CHLORIDE (CL), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

					ON	CE-DAILY						
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DAT	001	1101			44.7	2.12	25.0		330	420	340	600
1		1200	740	280	200	900	250		300	360	350	600
2	1900	1800	700	450	210	850	270		200	360	340	880
3	1400	1600	700	480	200	850	280			360	390	780
4	1300	1200	660	400	190	200	340		190			1000
		1100	520	400	200	190	380		200	360	380	1000
5	1800	1100	520			100						
		070	530	400	210	230	450		260	300	400	980
6		970		480	210	300	310		220	310	430	980
7	1700	960	500		410	260	370		400	310	390	900
8	1800	930	410	450		260	1300	1100	480	310	320	880
9	1700	1100	640	300	200			640	240	330	690	920
10	1800	900	660	320	410	200	1200	640	240	330		
				-24	7-4	222	1800	470	240	330	450	920
11	1600	900	550	320	420	220	550	420	250	360	350	1000
12	1600	900	550	470	440	220		410	240	360	300	980
13	1400	860	500	300	300	220	400		220	340	300	1000
14	1800	1000	580	360	310		460	300		340	300	680
15	1700	740	520	340	190	280	350	400	240	340	300	
15	1700								25.0	320	350	650
16	1500	920	510	340	200	210	490	360	250			620
	1400	970	630	350	200	190	500	440	290	360	350	850
17			380	320	190		920	430	320	420	350	
18	1500	1200		340	200	230	440	320	350	450	350	850
19	1400	1100	380	310	210	220	460	320	360	490	350	880
20	1200	1100	420	310	210	220						
				280	250	260	360	300	380	500	300	850
21	1200	1500	400				320	320	370	430	300	900
22	1200	1500	420	270	160		990	400	330	660	330	880
23	1400	1000	420	300	160	260		460	370	650	380	650
24	1500	1000	440	300	180	270	1000			520	400	600
25	1500	960	480	250	220	340	1000	460	300	520	400	
			200	170	230	210	1000	460	320	420	450	700
26	960	860	380		250	210	300	480	290	360	480	700
27	950	880	500	230		220	320	460	310	360	1100	950
28	970	880	490	210	250		440	490	310	330	2700	1800
29	1000	830	550	210		240		450	450	360	1100	1800
30	1100	700	520	200		230	900			370	1100	
31	1100		780	190		230		340		310	1100	
52025	1400	1100	530	320	240	300	610		300	390	520	890
MONTH	1400	1100	530	320			113,713					
YEAR	MAX	2700	MIN	160	MEAN	590						

#### 293604090041000 BARATARIA BAY WATERWAY AT MILE 25.0, NEAR LAFITTE, LA (CE 82879)

LOCATION.--Lat 29°36'04", long 90°04'10", T.17 S., R.24 E., Jefferson Parish, Hydrologic Unit 08090301, 5.8 mi (9.3 km) south southeast of Lafitte and at mile 25.0 (40.2 km).

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1976 to current year.

SPE-

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OXYGEN OXYGEN

COLI-

COLI-

DATE	TIME	CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	FORM, TOTAL, IMMED. (COLS. PER 100 ML)	FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS: NONCAR- BONATE (MG/L CACO3)
1777		1111037	(011.37	0111137	10107	(1.07 )	(110) [	(MO) L	100 MC	100 FIL	CACOSI	CACOSI
JAN 23	1115	1410	7.7	60	55	12.0	67	3.4	1200	140	170	99
FEB	1115	1410		00	33	12.0	07	3.4	1200	140	170	99
16	1005	2710	7.5	60	65	10.6	52	2.6	K300	K8	290	230
MAR	0015	2750					1.2				244	
APR	0945	2750	7.4	40	85	8.5	67	1.5	K600	K60	300	240
19	1000	3080	7.6	40	30	7.6	59	.9	K80	K10	330	270
MAY												
23	0915	1890	7.7	4.0	30	6.9	53	1.7	K35	K20	210	160
JUN 20	0920	4160	7.7	40	25	6.4	59	2.1	K150	<5	410	350
JUL	0,20	4100		40		0.4	3,9	2.1	KISO	\3	410	330
14	0900	2170	7.8	30	25	6.7	46	2.2	K90		210	150
AUG 30	1000	18400	7.4	30	55	6.6	180	4.6	6600	K40	2000	1900
SEP	1000	10400		30	23	0.0	100	4.0	8800	K+0	2000	1900
12	1030	10200	7.7	40	15	8.2	140	2.6	3000	1000	970	870
	CALCIUM DIS- SOLVED (MG/L	MAGNE- SIUM, DIS- SOLVED (MG/L	SODIUM, DIS- SOLVED (MG/L	SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L	BICAR- BONATE (MG/L AS	CAR- BONATE (MG/L	ALKA- LINITY (MG/L AS	CARBON DIOXIDE DIS- SOLVED (MG/L	SULFATE DIS- SOLVED (MG/L	CHLO- RIDE, DIS- SOLVED (MG/L
DATE	AS CA)	AS MG)	AS NA)	PERCENT		AS K)	HC03)	AS C03)	CACO3)	AS CO2)	AS 504)	AS CL)
JAN												
23	32	23	200	70	6.6	7.5	86	0	71	2.7	62	350
FEB 16	37	49	420	74	11	16	73	0	60	3.7	100	740
MAR			120	, ,	**	10	,,,		00	5.7	100	740
16	37	51	420	73	11	31	68	0	56	4.3	100	780
APR	4.0	67	E 4.0	76	10	21	71		E 0	2.0	120	010
19	40	57	540	76	13	21	71	0	58	2.9	120	940
23	28	34	310	75	9.3	12	64	0	52	2.0	75	530
JUN												
20	43	73	710	78	15	27	76	0	62	2.4	150	1200
14 AUG	28	35	350	77	10	13	78	0	64	2.0	68	620
30	150	390	3300	77	32	140	115	0	94	7.3	800	5900
SEP 12	92	180	1900	80	27	63	119	0	98	3.8	370	3400

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

## 293604090041000 BARATARIA BAY WATERWAY AT MILE 25.0, NEAR LAFITTE, LA (CE 82879) -- Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLID RESID AT 10 DEG. SUS- PENDE (MG/	UE 5 SE C, M	TTLE- ABLE ATTER L/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NIT TO (M	TRO- EN; RITE ! TAL G/L N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)	GEN MON ORG DI (M	TROAM- IA + ANIC S. G/L N)	PHOP TO	OS- RUS, TAL G/L P)	TO	ENIC TAL G/L AS)	ARSENI SUS- PENDE TOTAL (UG/L AS AS	D C	SENIC DIS- DLVED DG/L S AS)	BERY LIUM TOTA RECO ERAB (UG/ AS B	, L L V- F LE	ERYL- IUM, SUS- ENDED RECOV	v.
JAN 23	1	52	<1.0	.83		.02	.85		.46		.26		2		1	1		0		0
FEB 16		86	<1.0	.88		.06	.94		1.1		.25		2		1	1		10		10
MAR											.27		2		1	1		0		0
16	1	78	<1.0	•86		.03	.89		.05									0		0
19 MAY		19	<1.0	.61		.02	.63		.90		.11		2		1	1				
23 JUN		38	<1.0	•04		.04	.08		.77		.10		2		1	1		0		0
20 JUL		32	<1.0	• 05		.00	.05		.77		.10		2		1	1		0		0
14 AUG		21	<1.0	.07		.01	.08		.94		.13		4		3	1		0		0
30	2	24	<1.0	.03		.01	.04		.77		.27		2		1	1		10		0
SEP 12		2	<1.0	•00		.01	.01		.84		•10		2		1	1		0		0
DA		BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMI TOTA RECO ERAB (UG/ AS C	NL PEN NV- REC BLE ERA 'L (UC	MIUM JS- NDED COV- ABLE JL CD)	CADMIC DIS- SOLVE (UG/L AS CE	MI UM TO RED ER	RO- UM, TAL COV- ABLE G/L CR)	CHRO MIUM HEXX VALEN DIS (UGAS (	M, A- NT, S.	COPPE TOTA RECO ERAL (UG.	AL OV- BLE /L	COPPER SUS- PENDE RECOV ERABI (UG/L AS CU	ED CG	OPPER, OIS- OOLVED UG/L AS CU)	IRON DIS SOLV (UG/ AS F	ED L	LEAD, TOTAL RECOV ERABL (UG/L AS PE	E	
JAN	3	0		3	0		3	0		0		11		3	8		50	1	2	
FEB	3			1	0		1	0		0		26		23	3	,	10		8	
MAR		0										13		8	5		30		4	
APF		0		1	0		1	0		0					7		20		3	
MAY		0		1	0		1	0		0		8		1						
23 AUL	3	0		0	0		0	0		0		33		30	3		20		.0	
20 JUL		0		0	0		0	0		0		7		3	4		30		2	
		0		3	2		1	0		0		8		0	8		40		6	
	0	10		0	0		0	20		0		7		4	3		30	1	.8	
12	2	0		1	1		0	20		0		4		1	3		20		4	
DA	ATE	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAU DIS SOLV (UG/ AS F	0. TO 6- RE VED ER: VL (U	CURY TAL COV- ABLE G/L HG)	MERCU SUS PEND RECO ERAB (UG/ AS H	ED MER V- D LE SO L (U	CURY IS- LVED G/L HG)	NICK TOT REC ERA (UG AS	AL OV- BLE /L	NICK SU PEN REC ERA (UG AS	S- DED OV- BLE	NICKE DIS- SOLV (UG/ AS N	ED .	SELE- NIUM; TOTAL (UG/L AS SE)	SELE NIUM SUS PENI TOTA (UGA	AL	SELE- NIUM: DIS- SOLVE (UG/L	ED	
JAN	3	11		1	.2		. 0	.2		11		11		0	0		0		0	
FEE		8		0	.2		.2	.0		8		7		1	0		0		0	
MAF	3	1		3	.9		.9	.0		10		10		0	0		0		0	
APH		2		1				.0		1		0		1	0		0		0	
MA					.0		• 0													
JUL		10		U	.0		.0	.0		5		5		0	0		0		0	
JUL		2		0	.0		• 0	• 0		4		4		0	0		0		0	
AUG	4	2		4	.4		• 4	• 0		6		2		4	0		0		0	
	0	18		0	.0		. 0	.0		5		4		1	0		0		0	
	2	4		0	.0		. 0	.0		3		3		0	0		0		0	

<sup>&</sup>lt; Actual value is known to be less than the value shown.

# 293604090041000 BARATARIA BAY WATERWAY AT MILE 25.0, NEAR LAFITTE, LA (CE 82879)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ZINC+ TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE (MG/L)	PCB. TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD+ TOTAL (UG/L)
JAN 23	40	30	10	17	.00	4	0	.0	.00	.000	.0	.000
FEB	50	10	40			2	0		.00	.000	.0	.000
16 MAR				18	.00			.0				
16 APR	30	30	0	18	.00	1	0	.0	.00	.000	.0	.000
19 MAY	10	0	10	14	•00	0	0	•0	.00	.000	• 0	.000
23 JUN	20	10	10	13	.00	5	0					
20 JUL	20	0	20	12	.00	3	0	.0	.00	.000	.0	.000
14 AUG	20	10	10	14	.00	3	0	• 0	.00	.000	.0	.000
30	30	0	30	19	.00	2	0	.0	.00	.000	.0	.000
12	20	0	20	17	.00	1	0	.0	.00	.000	.0	.000
DATE	DDE. TOTAL (UG/L)	DDT+ TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN. TOTAL (UG/L)	ETHION. TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN 23	.000	.000	.02	.000	.000	.000	.00	.000	.000	.002	.00	.00
FEB 16	.000	.000	•11	.001	.000	.000	.00	.000	.000	.002	.00	.00
MAR 16	.000	.007	•02	.000	.000	.000	.00	.000	.000	.002	.00	.00
APR			.01		.000	.000	.00	.000	.000	.000	.00	.00
19 MAY	.000	.000		.000								
23 JUN				77								
JUL	.000	.002	•02	.000	.000	.000	•00	.000	.000	.000	.00	.00
14 AUG	.000	.000	.02	.000	.000	.000	.00	.000	.000	.001	.00	.00
30 SEP	.000	.000	.01	.000	.004	.000	.00	.000	.000	.000	.00	.00
12	.000	.000	•01	.000	.000	.000	•00	.000	.000	.002	•00	.00
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JAN 23	.00	.00	•00	.00	0.0	.00	.00	.00	.00	.01	1.92	.000
FEB 16	•00	•00	•00	.00	0.0	.00	.00	.01	.00	.01	2.80	.000
MAR 16	.00	.00	.00	.00	0.0	.00	.00	.01	.01	.01	5.24	4.28
APR 19	.00	.00	•00	.00	0.0	.00	.00	.00	.01	.00	4.36	.000
MAY 23								.00	.00	.01	7.33	.000
JUN 20	.00	.00	.00	.00		.00	.00	.01	.00	.03	19.1	.000
JUL 14					0.0	.00			.00	.03	29.0	1.07
AUG	.00	•00	•00	.00	0.0		•00	•00				
SEP	•00	•00	•00	.00	0.0	.00	•00	.00	.00	.00	36.1	.000
12	.00	.00	.00	.00	0.0	.00	.00	.00	.00	.01	46.0	.000

#### 291618089564900 BARATARIA BAY WATERWAY AT MILE 0.8, NEAR GRAND ISLE, LA (CE 82876)

LOCATION.--Lat 29°16'18", long 89°56'49", in sec.29, T.21 S., R.25 E., Jefferson Parish, Hydrologic Unit 08090301, 0.2 mi (0.3 km) southwest of USC&GS Barataria Lighthouse and 3.4 mi (5.5 km) northeast of Grand Isle.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- January 1978 to September 1978.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CGN- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM. TOTAL. IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
JAN	1100	20200	В А	20	10	11. 2	0.6			1.0	24.00	25.00
23 FEB	1100	28300	8.0	20	10	11.2	96	1.7	K100	<5	3600	3500
16 MAR	0940	36200	7.5	10	15	11.0	89	3.9	<5	<5	4400	4400
16 APR	0920	27400	7.9	15	20	8.8	140	2.6	2.4	20	3300	3200
19	0945	21600	7.6	5	7	6.9	43	1.6		40	2400	2300
23	0855	21500	8.6	5	15	11.3	290	3.5	<5	<5	2600	2500
JUN 20	0900	29800	8.3	5	20	6.7	480	2.4	K90	<5	3400	3300
JUL 14	0845	27600	8.3	10	3	7.8	320	4.0		K16	3200	3000
30 SEP	0920	32200	8.2	5	5	7.6	520	1.8	150	K28	3800	3700
12	1000	29600	8.4	5	8	9.4	330	2.9	1600	<5	3600	3500
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HC03)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE + DIS- SOLVED (MG/L AS CL)
JAN 23	220	730	5600	76	41	210	118	0	97	1.9	1500	10000
16	300	890	7300	77	48	270	56	0	46	2.8	1700	13000
MAR 16	200	670	5300	77	40	190	110	0	90	2.2	1300	9100
APR 19	150	500	4300	78	38	180	108	0	89	4.3	1100	7800
23	180	530	4200	76	36	160	105	11	104	•5	980	7500
JUN 20	220	690	5700	77	43	250	132	0	108	1.1		11000
JUL 14	210	640	5300	77	41	220	145	0	120	1.2	1300	9800
30	240	770	6300	77	45	260	142	0	120	1.4	1600	1200
SEP 12	240	730	6200	78	45	240	136	4	118	.9	1900	11000

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

0

0

0

0

5

0

0

0

10

291618089564900 BARATARIA BAY WATERWAY AT MILE 0.8, NEAR GRAND ISLE, LA (CE 82876) -- Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

MISSISSIPPI RIVER DELTA

BERYL-BERYL-SOLIDS . NITHO-LIUM, NITRO-NITRO-ARSENIC LIUM, NITRO-RESIDUE GEN . AM-MONIA + ARSENIC SETTLE-GEN, GEN. GEN, PHOS-SUS-TOTAL SUS-AT 105 PENDED DIS-PENDED NITRATE ARSENIC DEG. C. ABLE NITRITE K00+N03 ORGANIC PHORUS. RECOV-SOLVED ERABLE RECOV. TOTAL TOTAL TOTAL SUS-MATTER TUTAL TOTAL TOTAL DIS. (UG/L (MG/L (UG/L (UG/L (UG/L (UG/L (MG/I (MG/L PENDED (ML/L/ (MG/L (MG/I AS PI AS AS) AS ASI AS BE) AS BE) AS N) AS NI AS AS) DATE AS NI AS N) (MG/L) HR) 1 0 0 .26 1.2 .06 1 23... 31 <1.0 . 25 .01 FEB 75 <1.0 .01 .07 .38 .08 1 1 0 10 16 ... MAR 0 0 0 . 05 0 56 <1.0 .03 .01 -04 .13 16 ... APR .04 .53 .77 .06 0 10 .49 19 ... 5 <1.0 MAY 0 10 23... 65 <1.0 .31 .04 .35 . 37 .06 1 1 .00 .17 .65 .07 1 1 0 10 33 .17 <1.0 20 ... JUL .54 .05 0 3 10 <1.0 .00 .01 .01 3 14 ... AUG .07 2 1 10 30... <1.0 .06 .04 .10 .70 28 SEP 2 1 10 <1.0 .05 .02 .07 .57 .07 12 ... 8 COPPER. CADMILIM CHRO-CHRO-MIUM, COPPER. SUS-LEAD. RERYL -CADMIUM SUS-MIUM, COPPER. PENDED CADMIUM TOTAL HEXA-TOTAL PENDED IRON, TOTAL LIUM, TOTAL DIS-DIS-DIS-RECOV-DIS-RECOV-RECOV-RECOV-VALENT . RECOV-RECOV-SOLVED SOLVED ERABLE ERABLE DIS. ERABLE ERABLE SOLVED ERABLE ERABLE (UG/L AS CD) AS CRI AS CRI AS CU) AS CU) AS CU) AS FE) AS PR DATE AS CD) AS CD AS BE) JAN 3 2 40 3 20 0 0 1 23 ... 0 1 FFR 0 U 0 0 20 0 2 30 10 16 ... 16 ... 0 0 1 10 0 APR 10 1 10 0 1 30 0 3 19 ... MAY 20 2 0 3 23 ... 5 0 0 0 15 6 JUN 3 3 30 3 0 25 0 20 ... 10 0 0 JUL 5 10 2 1 20 0 5 30 14 ... AUG 0 30 0 5 2 3 30 0 10 0 0 30 ... SEP 3 20 4 0 12 ... 0 0 0 0 20 MERCURY NICKEL, SELE-LEAD, MERCURY SUS-NICKEL, SUS-NIUM, SELE-TOTAL PENDED LEAD, TOTAL PENDED MERCURY PENDED NICKEL . SELE-SUS-NIUM, PENDED DIS-DIS-SOLVED DIS-SOLVED NIUM. DIS-RECOV-RECOV-RECOV-RECOV-RECOV-TOTAL SOLVED ERABLE ERABLE TOTAL FRABI F FRABLE ERABLE (UG/L DATE AS PB) AS PB) AS HG) AS HG AS NI) AS NI) AS NI AS SE) AS SE) AS SE) JAN 23 ... .0 0 0 0 0 3 .0 .0 8 FEB 0 0 1.1 11 10 1 0 0 16 ... 0 1.1 - 0 MAR 16 ... 0 .0 . 0 . 0 0 0 0 0 0 0 APR . 0 0 0 19 ... 0 1 . 0 . 0 1 0 1 0 MAY 0 0 . 0 . 0 3 3 0 2 . 0 23 ... 20 ... 2 .0 . 0 3 3 0 0 0 0 1 - 0 JUL 0 0 0 14 . . . . 2 .2 - 0 1 AUG 0 . 0 0 0 0 0 0 0 30 ... 0 SEP .0 .0 3 3 0 0 0 12.. 0 . 0

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

# 291618089564900 BARATARIA BAY WATERWAY AT MILE 0.8, NEAR GRAND ISLE, LA (CE 82876)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	ZINC, TOTAL RECOV- ERABLE (UG/L	ZINC, SUS- PENDED RECOV- ERABLE (UG/L	ZINC, DIS- SOLVED (UG/L	CARBON+ ORGANIC TOTAL (MG/L	CYANIDE TOTAL (MG/L	PHENOLS	OIL AND GREASE	PCB.	NAPH- THA- LENES, POLY- CHLOR. TOTAL	ALDRIN, TOTAL	CHLOR- DANE, TOTAL	DDD • TOTAL
DATE	AS ZN)	AS ZN)	AS ZN)	AS C)	AS CN)	(UG/L)	(MG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
JAN		1.0				2			0.0	0.0		0.0
23 FEB	40	0	40	6.2	.00	2	0	.0	.00	.00	.0	.00
16 MAR	60	20	40	4.7	.00	2	0	.0	.00	.00	.0	.00
16	30	20	10	5.9	.00	0	0	.0	.00	.00	.0	.00
APR 19	40	10	30	3.8	.00	0	4	.0	.00	.00	.0	.00
MAY 23	30	0	30	4.9	.00	3	0	.0	.00	.00	.0	.00
JUN		0	50		.00	2	0	.0	.00	.00	.0	.00
20 JUL	50			5.6								
14 AUG	50	0	50	3.9	.00	1	0	.0	.00	.00	.0	.00
30 SEP	40	10	30	3.7	.00	2	0	.0	.00	.00	.0	.00
12	40	0	40	4.6	.00	1	0	• 0	.00	.00	• 0	.00
	DDE+	DDT.	DI- AZINON, TOTAL	DI- ELDRIN TOTAL	ENDO- SULFAN, TOTAL	ENDRIN, TOTAL	ETHION.	HEPTA- CHLOR, TOTAL	HEPTA- CHLOR EPOXIDE TOTAL	LINDANE TOTAL	MALA- THION, TOTAL	METH- OXY- CHLOR, TOTAL
JAN	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
23 FEB	.00	.00	.01	.00	.00	.00	•00	.00	.00	.00	.00	.00
16	.00	.00	• 02	.00	.00	.00	•00	.00	.00	.00	.00	.00
MAR 16	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
APR 19	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
YAM 23	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUN												
20	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
14 AUG	.00	.00	• 02	.00	.00	.00	•00	.00	.00	.00	.00	.00
30 SEP	.00	.00	.01	.00		.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00	.00
	METHYL PARA- THION,	METHYL TRI- THION,	PARA- THION,	PER- THANE	TOX- APHENE • TOTAL	TOTAL TRI- THION	MIREX,	2,4-D, TOTAL	2,4,5-T TOTAL	SILVEX,	CHLOR-A PHYTO- PLANK- TON CHROMO	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM
DATE	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
JAN 23	.00	.00	•00	.00	0	.00	.00	.00	.00	.01	5.76	.000
FEB 16	.00	.00	•00	.00	0	.00	.00				20.4	.000
MAR 16	.00	.00	.00	.00	0	.00	.00	.01	.00	.00	8.85	.000
APR												
19 MAY	.00	.00	•00	.00	0	.00	.00	.02	.01	.00	2.72	.000
23 JUN	.00	.00	•00	.00	0	.00	•00	.04	.00	.00	12.0	.000
20	.00	.00	.00	.00	0	.00	.00	.01	.00	.00	10.4	.000
14	.00	.00	•00	.00	0	.00	.00	.00	.00	.00	10.5	.000
AUG 30	.00	.00	•00	.02	0	.00	.00	.00	.00	.00	3.23	.000
SEP 12	.00	.00	.00	.00	0	.00	.00	.00	.00	.00	.310	.000
		1.5	7.7									

LOCATION.--Lat 29°43'26", long 90°15'15", T.15 S., R.22 E., St. Charles Parish, Hydrologic Unit 08090301, 7.3 mi (11.7 km) west southwest of Barataria.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- January 1978 to September 1978.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
JAN 23	1150	860	7.4	70	40	11.6	67	2.2	5000	28	110	60
FEB 16	1120	405	7.4	80	55	11.0	23	2.1	<5	<5	70	33
MAR												
16 APR	1025	360	7.4	60	30	8.8	41	.8	180	K4	66	19
19	1045	488	7.5	60	15	7.3	48	1.3	K24	K5	86	31
23	0945	774	7.6	40	15	7.2	52	2.8	<5	K4	100	52
20	1000	1210	7.5	30	6	7.2	30	1.7	K10	<5	130	81
JUL 14	0930	1030	7.7	30	7	6.9	40	1.5	<5		110	57
AUG 30	1045	1330	7.7	30	3	7.4	39	1.1	750		140	70
SEP 12	1115	2050	7.8	30	3	8.0	140	.6	<5	<5	220	150
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE * DIS- SOLVED (MG/L AS CL)
JAN 23	20	15	130	70	5.4	£ 3			En	2.0	2.0	000
FEB						5.3	61	0	50	3.9	30	220
16 MAR	16	7.3	49	59	2.5	3.2	45	0	37	2.9	17	82
16 APR	16	6.3	39	55	2.1	3.7	57	0	47	3.6	16	62
19 MAY	19	9.4	58	58	2.7	4.0	67	0	55	3.4	21	98
23 JUN	18	14	110	69	4.7	5.7	62	0	51	2,5	27	180
20	20	19	190	75	7.3	7.2	58	0	48	2.9	40	310
14 AUG	19	15	160	75	6.7	6.1	64	0	53	2.0	29	270
30 SEP	27	17	210	76	7.8	6.6	82	0	67	2.6	34	350
12	32	35	320	75	9.4	14	85	0	70	2.2	82	560

 $<sup>\</sup>ensuremath{\mathtt{K}}$  Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

# 294326090151500 CENTER OF LAKE SALVADOR NEAR BARATARIA, LA (CE 99216)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS+ RESIDUE AT 105 DEG- C+ SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO GEN, NITRIT TOTAL (MG/L AS N)	GEN	RO- GEI	ITRO- N.AM- NIA + GANIC IS. MG/L S N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
JAN 23	106	<1.0	.46	.0	2	.48	1.2	. 19	2	1	1	0	0
FEB 16	110	<1.0	.36	.0		40	.23	.22	2	1	1	10	0
MAR 16	17	<1.0	.43	.0		47	.99	.23	1	1	0	0	0
APR	27		.31	.0		.33	.73	.12	2	1	1	0	0
19		<1.0		.0		.05	.69	.08	1	0	1	10	0
23 JUN	4	<1.0	.03	.0		.03	.67	.08	3	0	3	6	6
JUL	32	<1.0						.09	3	0	3	0	0
14 AUG	2	<1.0	.00	.0		.01	.64		3	0	3	0	0
30 SEP	7	<1.0	• 0 7	.0		.08	.82	.09	2	0	2	0	0
12	7	<1.0	.01	. 0	1	.02	.97	.07	2	· ·	2	U	v
DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIU DIS- SOLVE (UG/L AS CD	D ERAF	MAL HIDV- VAI	HRO- IUM, EXA- LENT, DIS. UG/L S CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)
JAN 23	0	5	0		5	10	0	9	4	5	180	11	10
FEB 16	10	0	0		0	0	0	16	7	9	160	5	5
MAR 16	0	1	0		1	10	0	8	2	6	230	6	2
APR 19	0	0	0		0	0	0	6	2	4	80	4	3
YAM 23	10	2	0		2	0	0	5	2	3	50	4	2
JUN 20	0	0	0		0	0	0	4	2	2	50	2	2
JUL	0	1	0		1	0	0	5	2	3	30	2	2
14 AUG	0	0	0		U	0	0	5	3	2	30 .	1	1
SEP		1	1		0	10	0	3	0	3	20	2	2
12	0				U	10	·					-	
DA	SOL (UG	AD + TO' IS - REC VED ER/	CURY STAL PECOV- REABLE ER	COV- ABLE S G/L (	RCURY DIS- OLVED UG/L S HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	PEN REC ERA (UG.	S- DED NICE OV- DIS BLE SOL	S- NIC LVED TOT	AL TOT	M, SELE 5- NIUM DED DIS AL SOLV /L (UG/	• DIU - DI ED SOL L (UG	JM, S- VED
JAN		1	.0	.0	.0	9		7	2	1	1	0	
FEB		0	.0	.0	.0	8		8	0	0	0	0	
MAR	2												
APR		4	. 0	.0	.0	0		0	0	0	0	0	1.0
MAY		1	• 0	• 0	• 0	5		5	0	0	0	0	. 0
JUN		2	• 0	• 0	. 0	0		0	0	0	0	0	
JUL		0	. 0	• 0	.0	5		3	2	0	0	0	
AUG		0	• 0	• 0	. 0	6		2	4	0	0	0	
30 SEP		0	. 0	• 0	• 0	0		0	0	0	0	0	144
		0	• 0	.0	. 0	3		3	0	0	0	0	

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

## 294326090151500 CENTER OF LAKE SALVADOR NEAR BARATARIA, LA (CE 99216)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC + SUS - PENDED RECOV - ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD+ TOTAL (UG/L)
JAN 23	30	10	20	17	.00	4	0	.0	.00	.00	.0	.00
FEB 16	20	10	10	10	•00	8	0	.0	.00	.00	.0	.00
MAR 16	10	0	10	8.7	.00	2	0	.0	.00	.00	.0	.00
APR 19	10	10	0	11	.00	0	0	.0	.00	.00	.0	.00
YAM 23	10	0	10	12	.00	3	0	.0	.00	.00	.0	.00
JUN 20	10	0	10	8.9	.00	2	0	.0	.00	.00	.0	.00
JUL 14	10	0	10	9.5	.00	1	0	.0	.00	.00	.0	.00
AUG 30	10	0	10	10		2	0		.00			.00
SEP					• 00			.0		.00	.0	
12	0	0	0	11	•00	2	0	• 0	.00	.00	• 0	.00
DATE	DDE + TOTAL (UG/L)	DDT + TOTAL (UG/L)	DI- AZINON. TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN. TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN 23	•00	.00	•01	.00	0.0	0.0	0.0	0.0	.00	0.0	0.0	0.0
FEB 16	.00	.00	.01	.00	.00	.00	•00	.00		.00	.00	.00
MAR					.00	.00	•00	.00	.00	.00	.00	.00
16 APR	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19 MAY	.00	.00	•01	.00	.00	.00	•00	.00	.00	.00	.00	.00
23	.00	.00	• 01	.00	• 0 0	.00	•00	.00	.00	.00	•00	• 0 0
JUL	.00	.00	•01	.00	.00	.00	.00	.00	.00	.00	.00	.00
14 AUG	.00	.00	• 02	.00	• 0 0	.00	• 0 0	.00	.00	.00	.00	.00
30 SEP	.00	.00	•01	.00	• 0 0	.00	• 0 0	.00	.00	.00	.00	.00
12	.00	.00	•00	.00		.00	.00	.00	.00	.00	.00	.00
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TCTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE; TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JAN		. 53. 2.		.00, 2,	.03/2/	,,,,,,,,	,00,0,	.00/ 6/	.00/ = /		.00/ [/	,00,0,
23 FEB	.00	.00	.00	.00	0	.00	.00	.00	.00	.01	1.97	.000
16 MAR	.00	.00	• 0 0	.00	0	.00	.00	.02	.00	.01	3,50	.000
16 APR	.00	.00	• 0 0	.00	0	.00	• 0 0				.000	.000
19 MAY	.00	.00	.00	.00	0	.00	.00	.08	.00	.25	2.91	.000
23 JUN	.00	.00	• 0 0	.00	0	.00	.00	.08	.01	.25	15.7	.000
20	.00	.00	•00	.00	0	.00	.00	.02	.00	.07	5.83	.000
14	.00	.00	.00	.00	0	.00	.00	.03	.01	.12	10.5	.000
AUG 30	.00	.00	• 0 0	.00	0	.00	.00	.00	.00	.00	4.98	.000
SEP 12	.00	.00	.00	.00	0	.00	.00	.02	.01	.03	.000	.000

AC-FT

#### MISSISSIPPI RIVER DELTA

#### 07380400 BAYOU LAFOURCHE AT DONALDSONVILLE, LA

LOCATION.--Lat 30°06'00", long 90°58'40", in lot 96, T.11 S., R.14 E., Louisiana meridian, Ascension Parish, Hydrologic Unit 08090301, on left bank 40 ft (12 m) upstream from culvert under State Highway 18, in Donaldsonville, and 1,500 ft (457 m) downstream from pumping plant.

PERIOD OF RECORD. -- August 1957 to current year.

GAGE .-- Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Pumping plant at Donaldsonville pumps total flow of Bayou Lafourche from Mississippi River except for small amounts of storm drainage during heavy runoff. Records of dissolved oxygen, water temperatures and suspended-sediment loads for the water year 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE. -- 21 years, 251 ft 3/s (7.108 m3/s), 181,800 acre-ft/yr (224 hm3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 600 ft<sup>3</sup>/s (17.0 m<sup>3</sup>/s) Apr. 6, 1975; no flow June 11, 14, 1959, Feb. 23, 24-27, 28, 1970, Mar. 3, Apr. 2, 3, May 14, 1971, Sept. 7-12, 1973.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR SEP MAY JUN JUL AUG q ---------TOTAL MEAN MAX MIN 

CAL YR 1977 TOTAL 81915 MEAN 224 MAX 389 MIN 144 AC-FT 162500 WTR YR 1978 TOTAL 84058 MEAN 230 MAX 431 MIN 116 AC-FT 166700

MISSISSIPPI RIVER DELTA

## 07380400 BAYOU LAFOURCHE AT DONALDSONVILLE, LA--Continued

GAGE HEIGHT. IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.76	8.74	7.87	8.61	8.28	8.77	8.88	8.37	8.77	8.34	8.36	
2	8.77	8.62	8.35	8.57	8.21	8.72	9.03	8.50	8.71	8.34	8.35	
3	8.77	8.35	8.13	8.52	8.43	8.76	9.07	8.26	8.72	8.34	8.35	
4	8.77	8.34	8.14	8.45	8.28	8.76	9.09	8.32	8.67	8.34	8.35	
5	8.51	8.59	8.23	8.09	8.15	8.69	9.11	8.43	8.68	8.36	8.35	
6	8.34	8.75	8.55	8.21	8.19	8.53	9.12	8.43	8.63	8.34	8.35	
7	8.34	8.77	8.67	8.25	8.34	8.38	9.14	8.52	8.60	8.45	8.36	8.32
8	8.34	8.78	8.70	8.17	8.29	8.40	9.14	8.39	8.58	8.72	8.35	8.32
9	8.35	8.57	8.75	8.17	8.35	8.38	9.14	8.31	8.51	8.74	8.34	8.32
10	8.35	8.36	8.62	8.13	8.36	8.38	8.77	8.42	8.45	8.55	8.33	8.33
11	8.41	8.36	8.64	8.07	8.33	8.38	8.05	8.57	8.42	8.35	8.33	8.32
12	8.37	8.36	8.67	8.28	8.27	8.34	8.32	8.57	8.35	8.34	8.33	8.20
13	8.36	8.36	8.74	8.45	8.25	8.37	8.37	8.58	8.28	8.34	8.33	8.32
14	8.36	8.38	8.76	8.44	8.29	8.39	8.35	8.59	8.23	8.34	8.33	8.32
15	8.36	8.41	8.78	8.43	8.12	8.39	8.34	8.60	8.38	8.32	8.33	8.37
16	8.36	8.47	8.80	8.42	8.15	8.42	8.67	8.63	8.35	8.23	8.32	8.00
17	8.34	8.49	8.83	8.42	8.17	8.45	9.05	8.66	8.39	8.36		8.31
18	8.34	8.50	8.79	8.49	8.09	8.50	9.07	8.74	8.38	8.36		8.31
19	8.38	8.47	8.79	8.32	8.01	8.56	9.00	8.69	8.38	8.16		8.31
20	8.38	8.42	8.77	8.26	7.97	8.63	9.02	8.66	8.38	8.36		8.32
21	8.51	8.47	8.74	8.27	7.96	8.70	8.89	8.66	8.37	8.36		8.32
55	8.77	8.46	8.73	8.27	7.94	8.81	8.69	8.66	8.37	8.37		8.32
23	8.78	8.57	8.73	8.32	8.21	8.67	8.63	8.72	8.36	8.38		8.32
24	8.82	8.67	8.69	8.17	8.59	8.67	8.58	8.74	8.35	8.36		8.32
25	8.55	8.64	8.67	7.70	8.77	8.72	8.54	8.75	8.35	8.37		8.32
26	8.34	8.50	8.65	7.67	8.78	8.81	8.49	8.74	8.35	8.37		8.32
27	8.21	8.41	8.63	7.99	8.78	8.73	8.45	8.68	8.34	8.38		8.32
28	8.33	7.99	8.63	7.93	8.78	8.57	8.12	8.65	8.34	8.38		8.32
29	8.56	7.65	8.68	7.89		8.64	8.18	8.74	8.33	8.37		8.58
30	8.72	7.34	8.70	8.13		8.71	8.28	8.73	8.34	8.37		9.19
31	8.72		8.65	8.34		8.77		8.74		8.35		
MEAN	8.49	8.43	8.62	8.24	8.30	8.58	8.72	8.58	8.45	8.38		
MAX	8.82	8.78	8.83	8.61	8.78	8.81	9.14	8.75	8.77	8.74	8.36	9.19
MIN	8.21	7.34	7.87	7.67	7.94	8.34	8.05	8.26	8.23	8.16		

### 07381000 BAYOU LAFOURCHE AT THIBODAUX, LA

LOCATION.--Lat 29°47'52", long 90°49'21", in lot 117, T.15 S., R.16 E., Lafourche Parish, Hydrologic Unit 08090301, on downstream side of left pier of drawspan of bridge on State Highway 20 at Thibodaux, and 2.7 mi (4.3 km) upstream from Laurel Valley Canal.

PERIOD OF RECORD.--April 1966 to current year (elevations only). Unpublished records, May 1954 to July 1957, available in files of Baton Rouge district office.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development, Office of Public Works).

REMARKS.--Pumping plant at Donaldsonville pumps total flow of Bayou Lafourche from Mississippi River except for small amounts of storm drainage during heavy runoff. Weir located about 1,000 ft (300 m) downstream since Nov. 5, 1968. Records of suspended-sediment loads for the water year 1978 are published under miscellaneous water-quality sites of this report.

EXTREMES FOR PERIOD OF RECORD. -- Maximum elevation, 7.64 ft (2.329 m) Apr. 17, 1973; minimum, 0.82 ft (0.250 m) Dec. 2, 1966.

EXTREMES FOR CURRENT YEAR. -- Maximum elevation, 6.82 ft (2.079 m) Jan. 24; minimum, 4.85 ft (1.478 m) Dec. 6.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

				11131	AITTAILEGGS	ODSERVAL	20113 71 0	000				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.38	5.22	5.70	5.59	5.33	5.51	5.44	5.16	5.60	5.18	5.26	5.26
2	5.42	5.82	5.29	5.53	5.47	5.50	5.50	5.22	5.69	5.27	5.22	5.25
3	5.46	5.51	5.13	5.48	5.39	5.57	5.57	5.34	5.56	5.21	5.18	5.24
4	5.44	5.27	4.94	5.43	5.35	5.50	5.61	5.42	5.56	5.18	5.18	5.23
5	5.45	5.11	4.89	5.40	5.26	5.49	5.61	5.28	5.57	5.17	5.18	5.21
6	5.34	5.15	4.89	5.19	5.16	5.47	5.61	5.27	5.53	5.29	5.22	5.18
7	5.25	5.24	5.06	5.15	5.18	5.46	5.63	5.67	5.44	5.29	5.49	5.18
8	5.27	5.27	5.20	5.89	5.20	5.87	5.64	6.33	5.83	5.25	5.35	5.21
9	5.34	5.40	5.28	5.50	5.21	5.55	5.68	5.81	5.49	5.36	5.29	5.22
10	5.30	5.20	5.29	5.26	5.22	5.40	5.70	5.60	5.36	5.39	5.26	5.25
11	5.44	5.07	5.26	5.11	5.22	5.32	5.66	5.42	5.41	5.31	5.24	5.24
12	5.54	5.01	5.25	5.24	5.24	5.31	5.61	5.41	5.36	5.22	5.32	5.23
13	5.33	4.97	5.27	5.30	5.29	5.27	5.89	5.35	5.27	5.17	5.30	5.20
14	5.25	5.01	5.67	5.30	5.21	5.34	5.57	5.32	5.19	5.19	5.28	5.21
15	5.17	5.05	5.52	5.27	5.20	5,33	5.41	5.35	5.10	5.18	5.34	5.20
16	5.15	5.07	5.47	5.25	5.13	5.35	5.36	5.36	5.17	5.20	5.28	5.28
17	5.13	5.11	5.56	5.55	5.12	5.34	5.57	5.45	5.18	5.14	5.19	5.19
18	5.02	5.14	5.60	5.37	5.19	5.37	5.69	5.58	5.22	5.16	5.22	5.20
19	4.98	5.18	5.57	5.61	5.11	5.40	5.72	5.55	5.22	5.18	4.94	5.19
20	5.00	5.27	5.58	5.37	5.04	5,44	5.70	5.47	5.20	5.16	5.04	5.17
21	5.00	5.26	5.61	5.25	5.02	5.49	5.63	5.47	5.20	5.22	5.13	5.15
22	5.10	5.61	5.58	5.21	4.95	5.53	5.49	5.48	5.20	5.23	5.09	5.15
23	5.20	5.34	5.58	5.32	4.98	5.60	5.45	5.50	5.20	5.35	5.12	5.16
24	5.26	5.24	5.59	5.67	5.08	5.67	5.40	5.52	5.17	5.29	5.09	5.15
25	5.37	5.23	5.59	6.66	5.31	5.67	5.38	5.50	5.17	5.23	5.06	5.14
26	5.24	5.25	5.57	5.90	5.45	5.65	5.33	5.52	5.17	5.21	5.06	5.14
27	5.07	5.16	5.57	5.39	5.48	5.66	5.30	5.55	5.22	5.39	5.09	5.20
28	4.95	6.20	5.55	5.15	5.56	5.60	5.28	5.55	5.19	5.37	5.10	5.35
29	4.94	5.64	5.55	5.02		5.40	5.09	5.57	5.15	5.27	5.59	5.26
30	5.07	6.16	5.96	4.94		5.39	5.15	5.58	5.22	5.22	5.61	5.33
31	5.19		5.69	5.13		5.41		5.60		5.21	5.33	
MEAN	5.23	5.31	5.43	5.40	5.23	5.48	5.52	5.49	5.33	5.24	5.23	5.21
MAX	5.54	6.20	5.96	6.66	5.56	5.87	5.89	6.33	5.83	5.39	5.61	5.35
MIN	4.94	4.97	4.89	4.94	4.95	5.27	5.09	5.16	5.10	5.14	4.94	5.14

#### 07381200 BAYOU LAFOURCHE AT VALENTINE, LA

LOCATION.--Lat 29°35'35', long 90°28'25', on line between lots 96 and 98, T.17 S., R.20 E., Lafourche Parish, Hydrologic Unit 08090301, on upstream side of bridge on State Highway 308, at Valentine, 5.2 mi (8.4 km) upstream from Intracoastal Waterway, and 5.7 mi (9.2 km) south of Lockport.

PERIOD OF RECORD. -- April 1966 to current year (elevations only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1968, at datum 2.98 ft (0.908 m) lower.

REMARKS.--Pumping plant at Donaldsonville pumps total flow of Bayou Lafourche from Mississippi River except for small amounts of storm drainage during heavy runoff. Elevation affected by tide at all stages.

EXTREMES FOR PERIOD OF RECORD. -- Maximum elevation, 3.44 ft (1.049 m) Sept. 6, 1977; minimum, -0.18 ft (-0.055 m) Feb. 9, 1968 (present datum).

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2.71 ft (0.826 m) Aug. 29; minimum, 0.21 ft (0.064 m) Feb. 24.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.19	1.74	2.31	1.69	1.14	1.34	.74	1.70	1.77	1.37	1.48	2.20
2	2.24	2.30	2.09	1.51	1.39	1.29	.97	1.86	1.81	1.40	1.44	2.02
3	2.15	2.20	1.90	1.16	1.27	1.71	1.24	1.96	1.91	1.41	1.34	1.82
4	1.84	2.08	1.83	1.17	1.18	1.32	1.43	2.29	2.02	1.39	1.16	1.66
5	1.81	1.86	1.89	1.24	1.14	.94	1.41	2.07	1.98	1.33	1.19	1.52
6	1.82	1.64	1.85	1.39	1.04	1.03	1.52	2.01	1.98	1.27	1.24	1.60
7	1.84	1.61	1.38	1.49	1.03	1.43	1.52	2.09	1.99	1.31	1.18	1.72
8	1.99	1.68	1.44	1.89	1.14	1.74	1.34	2:30	2.19	1.21	1.30	1.86
9	2.15	2.04	1.71	1.72	1.08	1.44	1.40	2.37	2.19	1.24	1.68	1.87
10	1.98	1.88	1.46	1.32	.98	1.00	1.60	2.30	2.02	1.27	1.76	1.98
11	2.35	1.34	1.27	1.18	.90	.90	1.73	2.16	1.87	1.32	1.64	1.93
12	2.17	1.20	1.27	1.37	1.15	1.09	1.61	2.17	1.80	1.31	1.54	1.90
13	1.66	1.18	1.38	1.52	1.54	1.24	1.74	2.13	1.54	1.32	1.49	1.98
14	1.46	1.16	1.65	1.08	1.37	1.56	1.54	1.94	1.38	1.29	1.47	1.95
15	1.43	1.26	1.64	.69	1.09	1.47	1.49	1.66	1.33	1.23	1.36	1.95
16	1.44	1.42	1.61	.79	1.04	1.41	1.54	1.48	1.51	1.23	1.33	1.88
17	1.34	1.57	1.67	1.39	1.12	.77	1.64	1.60	1.72	1.24	1.32	1.85
18	1.29	1.62	1.56	1.15	1.39	.39	1.76	1.81	1.86	1.24	1.35	2.04
19	1.27	1.71	1.50	1.65	.98	.50	1.71	1.91	1.84	1.37	1.40	2.11
20	1.29	1.98	1.62	1.31	.89	.74	1.47	1.77	1.84	1.39	1.45	2.09
21	1.31	2.09	1.14	1.01	.96	1.09	1.28	1.64	1.84	1.44	1.29	2.11
22	1.40	2.19	.74	.89	.51	1.01	1.40	1.67	1.83	1.67	1.36	2.07
23	1.60	2.03	.86	.91	.40	1.05	1.66	1.70	1.78	1.76	1.38	2.00
24	1.88	1.95	1.08	1.20	.27	1.28	1.76	1.74	1.73	1.84	1.48	1.87
25	2.04	1.88	1.33	2,32	.53	1.34	1.71	1.83	1.58	1.81	1.61	1.64
26	1.79	1.70	1.14	2.27	.85	.97	1.60	1.82	1.47	1.71	1.70	1.69
27	1.67	1.64	1.02	1.94	.87	.74	1.18	1.75	1.45	1.64	1.88	1.88
28	1.49	2.09	1.02	1.19	1.20	.65	1.16	1.79	1.38	1.68	2.14	1.91
29	1.49	2.10	1.10	1.32		.72	1.27	1.84	1.31	1.54	2.45	1.97
30	1.55	2.34	1.86	1.14		.71	1.51	1.82	1.31	1.54	2.60	1.99
31	1.59		1.85	1.24		.72		1.79		1.48	2.45	
MEAN	1.73	1.78	1.49	1.36	1.02	1.08	1.46	1.90	1.74	1.43	1.56	1.90
MAX	2,35	2.34	2.31	2.32	1.54	1.74	1.76	2.37	2.19	1.84	2.60	2.20
MIN	1.27	1.16	.74	.69	.27	.39	.74	1.48	1.31	1.21	1.16	1.52

## 07381225 BAYOU LAFOURCHE (ABOVE INTRACOASTAL WATERWAY) NEAR LAROSE, LA

LOCATION.--Lat 29°34'30", long 90°23'40", in 10t 46, T.17 S., R.20 E., Lafourche Parish, Hydrologic Unit 08090301, at highway bridge connecting State Highways 1 and 308, 0.4 mi (0.6 km) northwest of Larose, and 0.6 mi (1.0 km) upstream from Intracoastal Waterway.

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: October 1973 to current year (discontinued).

INSTRUMENTATION. --Water-quality monitor since October 1973. Sensor is installed 3 ft (0.9 m) from stream bottom.

REMARKS.--Pumping plant at Donaldsonville pumps total flow of Bayou Lafourche from Mississippi River except for small amounts of storm drainage during freshets and some flow from Company Canal, entering at Lockport. Reverse flow at times of high tide.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 8,630 micromhos Apr. 7, 1977; minimum, 126 micromhos May 18, 1976.

EXTREMES FOR CURRENT YEAR.-SPECIFIC CONDUCTANCE: Maximum daily, 1,040 micromhos Oct. 23, 24; minimum daily, 159 micromhos Jan. 27.

#### SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	ост	OBER	NOVE	MBER ^	DECE	MBER	JAN	IUARY	FEBR	UARY	MA	RCH
1	244		472	386	259	221	378	344	256	221	557	399
2			522	351	290	211	404	342	285	241	490	412
2			429	352	296	277	479	357	295	260	466	352
4			431	382	329	289	433	336	304	263	462	387
5	457	414	452	383	329	289	395	363	315	291	423	378
6	465	407	402	384	364	315	414	383	363	303	471	391
7	442	380	408	386	346	285	405	381	366	314	471	388
8	413	384	408	367	319	306	488	374	355	307	489	385
9	394	372	378	330	318	305	394	342	352	292	424	375
10	407	378	513	367	409	310	402	323	378	288	393	345
11	399	369	505	401	355	326	404	334	303	291	406	382
12	494	401	460	415	364	346	399	327	292	247	409	366
13	489	393	453	433	436	346	419	339	399	255	401	369
14	502	414	483	332	428	331	400	328	378	301	421	370
15	450	414	358	288	413	345	352	335	317	297	469	373
16	435	420	311	276	370	328	357	341	322	302	468	420
17	442	421	284	260	372	329	475	338	350	323	454	396
18	502	443	365	258	433	350	395	363	480	335	431	402
19	445	421	752	362	368	336	397	291	397	348	408	395
20	437	424	633	463	394	319	334	276	382	350	411	408
21	443	420	625	458	385	323	378	318	411	353	474	409
22	459	413	558	277	362	331	371	304	378	349	508	448
23	1040	432	351	275	338	333	386	313	400	356	513	488
24	1040	605	302	227	360	340	424	319	426	367	496	452
25	667	515	283	251	355	343	329	226	377	352	472	450
26	519	407	388	275	484	350	224	193	395	342	480	451
27	475	433	381	272	509	355	191	159	397	375	450	435
28	461	416	278	220	370	340	188	174	448	366	456	434
29	453	404	414	241	417	329	215	188			441	407
30	470	413	316	243	421	351	203	192			420	408
31	473	418			376	339	273	197			429	412
MONTH	1040	369	752	220	509	211	488	159	480	221	557	345

## 07381225 BAYOU LAFOURCHE (ABOVE INTRACOASTAL WATERWAY) NEAR LAROSE, LA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	AP	RIL	м	AY	JU	INE	JU	LY	AUG	UST	SEPT	TEMBER
1	444	419	368	354			401	362				
2	439	420	366	352	334	307	418	398				
2 3 4	429	416	381	347	317	302	421	377				
4	429	415	498	350	409	317	416	338	381	339		
5	477	422	366	341	358	321	403	357	380	354		
	200		2.7.7									
6	521	474	535	348	333	302	402	379	385	366		
7	520	444	701	511	322	264	388	347				
8	447	418	676	431	328	250	373	320				
9	418	374	444	296	314	275	353	309				
10	375	358	548	280	321	306	374	349				
	0.10	000	5.0	200	0	000		9.,,				
11	353	335	539	286	401	316	373	356				
12	337	308	286	190	459	328	440	362				
13	334	309	226	164	331	308	496	359				
14	337	289	225	178	350	315	477	377				
15	334	295	306	225	354	342	410	374				
	334	275	300	223	334	342	410	314				
16	364	301			350	319	420	398				
17	344	332			335	326	413	404				
18	331	318			333	324	405	330				
19	327	296			328	323	521	342				
		307						324				
20	330	307			326	316	417	324				
21	329	321			323	294	390	362				
22	334	320			326	304	416	355				
23	333	321			351	326	446	387				
		328			395	350	475	396				
24	456							390				
25	393	351			411	378	403	390				
26	357	337			399	372	393	322				
27	355	340			385	371	361	334				
28	358	351			390	370	356	343				
29	364	352			390	385	470	350				
	369	360			397	358	470	365				
30						0.0.0						
31												
MONTH	521	289	701	164	459	250	521	309	385	339		
MUNIA	361	207	101	104	437	250	261	309	303	337		

#### 07381230 BAYOU LAFOURCHE (AT INTRACOASTAL WATERWAY) AT LAROSE, LA (CE 82203)

LOCATION.--Lat 29°34'20", long 90°23'02", T.17 S., R.20 E., Lafourche Parish, Hydrologic Unit 08090301, at intersection with Intracoastal Waterway at mile 35.3 (56.8 km) WHL).

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

REMARKS. -- Flow direction is dependent upon tide and upon wind velocity. Samples are collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 32.5°C July 28, 29, 1977; minimum daily, 6.0°C Jan. 19, 20, 1977, Jan. 20, 21, 22, 23, 1978.
CHLORIDE: Maximum daily, 6,700 mg/L Oct. 25, 1976; minimum daily, 18 mg/L Aug. 5, 1975.

EXTREMES FOR CURRENT YEAR. --

WATER TEMPERATURES: Maximum daily, 31.0°C for several days in June and July; minimum daily, 6.0°C Jan. 20, 21, 22, 23. CHLORIDE: Maximum daily, 3,600 mg/L Aug. 29; minimum daily, 25 mg/L June 17.

WATER Q	UAI TTY	DATA.	WATER	YFAR	OCTOBER	1977	TO	SEPTEMBER	1078
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DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
OCT 28	1255	473	8.1	10	40	7.8	45	3.5			140	26
NOV												
16 DEC	1155	433	7.9	70	80	7.4	84	3.2	2800	K160	120	26
15 JAN	1355	290	7.2	100	40	7.8	64	3.9	5000	K300	85	11
23 FEB	1135	329	7.4	55	85	9.7	59	2.0	7000	K2500	100	30
16	1030	300	7.5	80	80	9.5	28	2.5	1200	K380	92	26
MAR 16	1005	442	7.6	30	45	8.2	34	3.0	K3600	42	130	37
APR 19	1035	326	7.5	40	35	8.1	41	4.8	K100	72	120	36
MAY 23	0940	395	8.0	10	20	5.3	21	2.7	K400	<5	153	38
JUN 20	0945	321	7.7	40	40	6.1	30	2.1	K180	140	100	17
JUL												
AUG	0915	610	7.7	50	60	5.3	37	1.1	500	K310	150	57
30 SEP	1030	1400	7.4	30	25	6.5	39	2.1	K8400	K420	220	120
12	1100	1510	7.4	50	40	5.4	43	3.2	420	220	180	95
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 28	35	12			- 22		139	0	114	1.8	43	71
NOV	30	11							7.5			
16 DEC							114	0	94	2.3	54	55
15 JAN	22	7.2	22	35	1.0	3.4	90	0	74	9.1	14	34
23 FEB	27	8.5	22	31	.9	3.1	85	0	70	5.4	30	35
16 MAR	24	7.8	24	35	1.1	2.8	81	0	66	4.1	22	39
16	35	11	42	40	1.6	3.6	113	0	93	4.5	38	62
APR 19	32	10	20	26	.8	3.8	103	0	84	5.2	35	31
MAY 23	43	11	24	25	.8	3.8	140	0	115	2.2	44	30
20	26	8.7	28	37	1.2	3.0	102	0	84	3.3	17	41
JUL 14	35	16	81	53	2.8	4.8	117	0	96	3.7	43	140
AUG 30	39	29	210	67	6.2	9.9	113	0	93			
SEP										7.2	69	380
12	36	23	170	65	5.4	8.4	109	0	89	6.9	53	300

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

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## 07381230 BAYOU LAFOURCHE (AT INTRACOASTAL WATERWAY) AT LAROSE, LA (CE 82203)--Continued) WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN + AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
OCT 28	118	<1.0	•35	.01	.36	.73	•19	3	2	1	10	1.0
NOV											10	10
16 DEC	262	<1.0	•41	•02	•43	.85	.34	4	3	1	0	0
15 JAN	272	<1.0	.27	.01	.28	1.1	.41	3	2	1	0	0
23 FEB	326	<1.0	• 46	.03	.49	.20	.37	4	3	1	0	0
16 MAR	148	<1.0	.43	.04	.47	.99	.21	3	2	1	0	0
16 APR	52	<1.0	.50	.03	.53	.54	.21	2	0	2	0	0
19	38	<1.0	•85	.05	.90	.73	.16	2	0	2	. 0	0
YAM 23	21	<1.0	.89	.05	.94	.34	.09	2	0	2	0	0
JUN 20	54	<1.0	.19	.01	.20	.47	.14	2	1	1	0	0
JUL 14	57	<1.0	•53	.01	.54	.78	.12	4	3	1	10	10
AUG 30	54	<1.0	.49	.01	.50	.84	•15	3	0	3	10	10
SEP 12	78	<1.0	.26	.01	.27	.86	.18	3	2	1	0	0
				•••	•		• • •	-		•	v	· ·
DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER. TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)
ост	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
0CT 28	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM; TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
0CT 28 NOV 16 DEC	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD) <10	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM+ HEXA- VALENT, DIS- (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU) <10	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB) <100	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
0CT 28 NOV 16 DEC 15	DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD) <10 0	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM+ HEXA- VALENT+ DIS+ (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
OCT 28 NOV 16 DEC	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD) <10	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM+ HEXA- VALENT, DIS- (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU) <10	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB) <100	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
OCT 28 NOV 16 DEC 15 JAN 23 FEB 16	DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD) <10 0	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM+ HEXA- VALENT+ DIS+ (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE) 20 90	TOTAL RECOV- ERABLE (UG/L AS PB) <100 10	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
0CT 28 NOV 16 DEC 15 JAN 23 FEB 16 MAR 16	DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0 1	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)  <10  8  11  31	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU) 5 1 2	DIS- SOLVED (UG/L AS FE) 20 90 150	TOTAL RECOV- ERABLE (UG/L AS PB) <100 10 11 13	SUS-PENDED RECOV-ERABLE (UG/L AS PB)
OCT 28 NOV 16 DEC 15 JAN 23 FEB 16 MAR 16 APR	LIUM• DIS- SOLVED (UG/L AS BE)  0 0 0	TOTAL RECOV- REABLE (UG/L AS CD)  <10 0 1	SUS- PENDED RECOV- ERABLE (UG/L AS CD) <10 0	DIS- SOLVED (UG/L AS CD) 0 0	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 10 4 0 20	MIUM+ HEXA- VALENT, DIS- (UG/L AS CR) 0 0	TOTAL RECOV- ERABLE (UG/L AS CU)  <10  8  11  31 22	SUS- PENDED RECOV- ERABLE (UG/L AS CU)  <5 7 9 23 14	DIS- SOLVED (UG/L AS CU) 5 1 2 8	DIS- SOLVED (UG/L AS FE) 20 90 150 60	TOTAL RECOV-ERABLE (UG/L AS PB) <100 10 11 13 5	SUS- PENDED RECOV- ERABLE (UG/L AS PB) <100 9 11 13
OCT 28 NOV 16 DEC 15 JAN 23 FEB 16 MAR 16 APR 19 MAY 23	LIUM• DIS- SOLVED (UG/L AS BE)  0 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0 1 1	SUS-PENDED RECOV-ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD) 0 0 0	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 10 4 0 20 10	MIUM+ HEXA- VALENT+ DIS+ (UG/L AS CR) 0 0	TOTAL RECOV- REABLE (UG/L AS CU)  <10 8 11 31 22	SUS- PENDED RECOV- ERABLE (UG/L AS CU) <5 7 9 23 14	DIS- SOLVED (UG/L AS CU) 5 1 2 8	DIS- SOLVED (UG/L AS FE) 20 90 150 60 150	TOTAL RECOV-ERABLE (UG/L AS PB) <100 10 11 13 5	SUS-PENDED RECOV-ERABLE (UG/L AS PB)
OCT 28 NOV 16 DEC 15 JAN 23 FEB 16 MAR 16 APR 19 MAY 23 JUN 20	LIUM• DIS- SOLVED (UG/L AS BE)  0 0 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0 1 1 1 0	SUS- PENDED RECOV- ERABLE (UG/L AS CD)  <10 0 0 0 0	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 10 4 0 20 10	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0 0	TOTAL RECOV- REABLE (UG/L AS CU)  <10 8 11 31 22 9 9	SUS- PENDED RECOV- ERABLE (UG/L AS CU) <5 7 9 23 14 0	DIS- SOLVED (UG/L AS CU) 5 1 2 8 8	DIS- SOLVED (UG/L AS FE) 20 90 150 60 150 70	TOTAL RECOVERABLE (UG/L AS PB)  <100 10 11 13 5 3 4	SUS-PENDED RECOV-ERABLE (UG/L AS PB)  <100 9 11 13 4 0 3
OCT 28 NOV 16 DEC 15 JAN 23 FEB 16 MAR 16 APR 19 MAY 23 JUN 20 JUN 14	LIUM• DIS- SOLVED (UG/L AS BE)  0 0 0 0 0 0	TOTAL RECOV- REABLE (UG/L AS CD)  <10 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SUS-PENDED RECOV-ERABLE (UG/L AS CD)  <10 0 0 0 0 0 0 0	DIS- SOLVED (UG/L AS CD)  0  0  1  1  0  0	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 10 4 0 20 10 10	MIUM, HEXAT VALENT, DIS. (UG/L AS CR) 0 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CU)  <10  8  11  31  22  9  9  5	SUS- PENDED RECOV- ERABLE (UG/L AS CU)  <5 7 9 23 14 0 3 1	DIS- SOLVED (UG/L AS CU) 5 1 2 8 8 9 6	DIS- SOLVED (UG/L AS FE) 20 90 150 60 150 70 30	TOTAL RECOV-ERABLE (UG/L AS PB) <100 10 11 13 5 3 4	SUS-PENDED RECOV-ERABLE (UG/L AS PB)  <100 9 11 13 4 0 3 3
OCT 28 NOV 16 DEC 15 JAN 23 FEB 16 MAR 19 MAY 23 JUN 20 JUL 14 AUG 30	LIUM• DIS- SOLVED (UG/L AS BE)  0 0 0 0 0 0 0 0	TOTAL RECOV- REABLE (UG/L AS CD)  <10 0 1 1 0 0 0 0 0 0	SUS-PENDED RECOV-ERABLE (UG/L AS CD)  <10 0 0 0 0 0 0 0 0 0	DIS- SOLVED (UG/L AS CD) 0 0 0 1 1 1 0	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 10 4 0 20 10 0 0	MIUM+ HEXA- VALENT+ DIS+ (UG/L AS CR) 0 0 0 0	TOTAL RECOV- RECOV- CHAPTER (UG/L AS CU)  <10 8 11 31 22 9 9 5 7	SUS- PENDED RECOV- ERABLE (UG/L AS CU) <5 7 9 23 14 0 3	DIS- SOLVED (UG/L AS CU) 5 1 2 8 8 9 6	DIS- SOLVED (UG/L AS FE) 20 90 150 60 150 70 30 10	TOTAL RECOV-ERABLE (UG/L AS PB)  <100 10 11 13 5 3 4 3 3	SUS-PENDED RECOV-ERABLE (UG/L AS PB)  <100 9 11 13 4 0 3 3 3
OCT 28 NOV 16 DEC 15 JAN 23 FEB 16 MAR 19 MAY 23 JUN 20 JUL 14 AUG	LIUM. DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- REABLE (UG/L AS CD)  <10 0 1 1 1 0 0 2	SUS-PENDED RECOV-ERABLE (UG/L AS CD)  <10 0 0 0 0 0 1	DIS- SOLVED (UG/L AS CD)  0  0  1  1  0  0  1	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 10 20 10 0	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0 0 0 0	TOTAL RECOV- REABLE (UG/L AS CU)  <10 8 11 31 22 9 9 5 7 8	SUS- PENDED RECOV- ERABLE (UG/L AS CU) <5 7 9 23 14 0 3 1	DIS- SOLVED (UG/L AS CU)  5 1 2 8 8 9 6 4 5 6	DIS- SOLVED (UG/L AS FE) 20 90 150 60 150 70 30 10 90 40	TOTAL RECOV-ERABLE (UG/L AS PB)  <100 10 11 13 5 3 4 3 9	SUS-PENDED RECOV-ERABLE (UG/L AS PB)  <100 9 11 13 4 0 3 3 3 4

<sup>&</sup>lt; Actual value is known to be less than the value shown.

## 07381230 BAYOU LAFOURCHE (AT INTRACOASTAL WATERWAY) AT LAROSE, LA (CE 82203) -- Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL+ DIS- SOLVED (UG/L AS NI)	SELE- NIUM. TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	
OCT 28	0	• 0	.0	.0	<50	<48	2	0	0	0	1.3	
NOV	.0	• •	• 0	••	-30	. , ,	-		-		-	
16	1	.0	.0	.0	14	11	3	0	0	0	.0	
DEC 15	0	.0	.0	.0	16	15	1	0	0	0	.0	
JAN 23	0	.0	.0	.0	22	18	4	0	0	0	.0	
FEB 16	1	.0	.0	.0	5	4	1	0	0	0	1.0	
MAR								4			4.0	
16	3	. 0	. 0	. 0	6	2	4	0	0	0	1.0	
APR					_	-			0	0	.0	
19 MAY	1	• 0	• 0	• 0	7	7	0	0				
23 JUN	0	.0	.0	.0	3	3	0	0	0	0	1.0	
20	0	.0	.0	.0	3	3	0	0	0	0	.0	
JUL 14	5	.2	.2	.0	8	3	5	0	0	0	.4	
AUG 30	0	.0	.0	.0	4	3	1	0	0	0		
SEP 12	0	.0	.0	.0	5	3	2	0	0	0		

DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC; SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE (MG/L)	PCB. TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD+ TOTAL (UG/L)
0CT 28	20	0	20	7.5	.00	2	0	• 0	.00	.000	.0	.000
NOV	20	· ·	20									
16	40	30	10	14	.00	2	0	.0	.00	.000	.0	.000
DEC				100				•	0.0	0.00	.0	.000
15	50	40	10	16	.00	4	0	. 0	.00	.000	. 0	.000
JAN	6.0	50	10	15	.00	4	0	.0	.00	.000	.0	.000
23	60	50	10	13	•00		•	• •		.000		.000
FEB 16	30	20	10	10	.00	2	0	.0	.00	.000	.0	.000
MAR												22.2
16	20	10	10	7.9	.00	0	0	.0	.00	.000	.0	.000
APR			1.1						.00	.000	.0	.000
19	10	0	10	13	.00	0	0	.0	.00	.000	• 0	.000
YAM 23	20	10	10	7.7	.00	3	0	.0	.00	.000	.0	.000
JUN					•					11,111		
20	20	10	10	9.5	.00	3	0	.0	.00	.000	.0	.000
JUL									0.0			
14	20	0	20	9.8	.00	3	0	. 0	.00	.000	.0	.000
AUG	2.0		10		.00	2	0	.0	.00	.000	.0	.000
30	20	10	10	11	• 00	_	U	• •		.000	• •	.000
SEP 12	10	10	0	19	.00	2	0	.0	.00	.000	.0	.000
			1.5		3.17							

<sup>&</sup>lt; Actual value is known to be less than the value shown.

## 07381230 BAYOU LAFOURCHE (AT INTRACOASTAL WATERWAY) AT LAROSE, LA (CE 82203)--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE + TOTAL (UG/L)	DDT. TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION. TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
OCT 28	.000	.000	•01	.000	.000	.000	•00	.000	.000	.001	.00	.00
NOV 16	.000	.000	.01	.000	.000	.000	.00	.000	.000	.000	.00	.00
DEC 15	.000	.000	.01	.000	.000	.000	.00	.000	.000	.000	.00	.00
JAN 23	.000	.000	•02	.000	.000	.000	•00	.000	.000	.000	.00	.00
FEB 16	.000	.000	.01	.000	.000	.000	.00	.000	.000	.000	.00	.00
MAR 16	.000	.000	•01	.000	.000	.000	.00	.000	.001	.001	.00	.00
APR 19	.000	.000	•02	.001	.000	.000	.00	.000	.001	.000	.00	.00
MAY 23	.000	.001	.02	.002	.000	.000	.00	.000	.000	.000	.00	.00
JUN 20	.000	.000	.02	.001	.000	.000	.00	.000	.000	.000	.00	.00
JUL 14	.003	.000	•02	.000	.001	.000	•00	.000	.000	.001	.00	.00
AUG 30	.000	.000	.02	.001		.000	.00	.000	.000	.001	.00	.00
SEP 12	.000	.000	.01	.001		.000	.00	.000	.000	.000	.00	.00
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 28	.00	.00	.00	.00	0.0	.00	.00	.03	.01	.03	16.6	7.50
NOV 16	.00	.00	.00	.00	0.0	.00	.00				9.10	2.30
DEC 15	.00	.00	•00	.00	0.0	.00	.00	.02	.01	.01	.000	.000
JAN 23	.00	.00	.00	.00	0.0	.00	.00	.03	.01	.01	2.50	.000
FEB 16	.00	.00	•00	.00	0.0	.00	.00	.03	.01	.00	7.00	.000
MAR 16	.00	.00	•00	.00	0.0	.00	.00				24.7	4.01
APR 19	.00	.00	.00	.00	0.0	.00	.00	.08	.03	3.1	61.2	8.45
MAY 23	.00	.00	.00	.00	0.0	.00	.00	.00	.00	.17	44.4	.000
20	.00	.00	.00	.00	0.0	.00	.00	.00	.00	.07	39.0	.000
JUL 14	.00	.00	.00	.00	0.0	.00	.00	.00	.00	.03	13.5	.000
30 SEP	.00	.00	.00	.00	0.0	.00	.00	.11	.00	.04	18.5	.000
12	.00	.00	•01	.00	0.0	.00	.00	.00	.00	.03	6.80	.000

## 07381230 BAYOU LAFOURCHE (AT INTRACOASTAL WATERWAY) AT LAROSE, LA (CE 82203) -- Continued

		0/381230	BATOU LA	POURCHE (AI	INTRACOASTA	AL WAILKWAI)	AT IMMOSE,	LA (CL OZ	203) Concin	ded		
		TEMP	PERATURE	(DEG. C)		WATER YEAR	OCTOBER	1977 TO	SEPTEMBER	1978		
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	30.0 30.0 27.0 24.0 25.0	22.5 22.5 21.0 20.0 19.0	18.0 18.0 18.0 20.0	11.5 12.0 10.5 10.0 11.0	8.0 9.0 8.0 8.0 8.0	15.0 15.0 16.0 13.0 13.5	19.5 19.5 20.5 21.0 22.0	23.0 24.0 24.0 24.0 24.0	28.0 29.0 29.0 29.0 27.0	30.0 30.0 30.0 30.0 31.0	29.0 30.0  30.0 30.0	28.0 28.0 28.0 29.0 29.0
6 7 8 9	25.0 25.0 26.0 25.5 24.5	20.0 21.0 21.0 19.0 17.5	19.0 16.0 15.5 17.0 12.0	13.0 13.0 11.5 11.5	8.0 8.0 7.0 7.0 7.0	13.0 14.5 15.0 14.0 12.0	22.5 23.0 23.0 23.0 23.5	24.0 24.0 25.0 24.0	20.0 28.0 28.0 29.0 29.0	31.0 30.0 30.0 30.0 30.0	29.0 29.0 28.0 28.0	29.0 29.0 28.0 28.0 28.0
11 12 13 14 15	24.5 23.0 21.0 20.0 19.0	17.0 16.0 16.0 16.0	13.0 12.0 13.5 14.0 14.0	10.0 10.0 9.5 9.0 9.0	7.0 7.0 9.0 10.0	12.5 12.5 16.0 17.0 17.5	23.5 20.0 20.0 22.0 20.0	25.0 25.0 25.0 26.0 26.0	29.0 29.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 31.0	28.0 28.0 29.0 29.0 29.0	28.0 28.0 28.5 28.5 28.5
16 17 18 19 20	19.0 19.0 19.0 20.0 21.0	18.0 19.0 18.0 18.0 18.5	14.0 15.0 18.0 18.5 16.0	9.0 10.0 8.0 8.0 6.0	10.0 11.0 11.0 11.0 9.0	18.0 17.5 17.0  18.0	20.5 22.0 24.0 24.0 23.5	26.0 26.0 26.0 27.0 27.0	30.0 30.0 30.0 30.0 30.0	31.0 31.0 31.0 31.0 30.0	29.0 29.0 29.0 29.0 29.0	28.5 28.5 29.0 29.0 29.5
21 22 23 24 25	21.0 21.5 21.5 22.0 23.0	20.5 20.0 20.0 20.0 20.0	12.0 11.5 11.0 14.0 14.0	6.0 6.0 6.0 8.5	9.0 9.0 9.0 	18.5 18.5 19.0 19.0	23.0 23.0 23.0 23.5 24.0	27.0 27.0 27.0 28.0 28.0	30.0 30.0 30.0 30.0 31.0	30.0 29.0 29.0 29.0 29.0	29.0 30.0 30.0 30.0 30.0	29.0 29.0 29.0 28.5 28.5
26 27 28 29 30 31	22.0 22.0 22.0 23.0 22.0 22.0	18.0 18.0 19.0 20.0 20.0	12.0 11.0 11.0 11.0 11.0	10.0 9.0 9.0 9.0 8.5 8.0	11.0 12.0 14.0	19.0 17.0 18.0 18.0 19.0	22.0 22.0 22.0 22.0	28.0 24.0 29.0 29.0 29.0 29.0	31.0 30.0 30.0 30.0 31.0	28.0 28.0 28.0 28.0 28.0 31.0	30.0 30.0 30.0 28.0 28.0 28.0	28.5 28.0 28.0 27.5 27.0
MONTH	23.0	19.0	14.5	9.5	9.0	16.5	22.0	26.0	24.5	30.0	29.0	28.5
		DIS	SOLVED CH	HLORIDE (C	L), MG/L,	WATER YEAR	R OCTOBER	1977 TO	SEPTEMBER	1978		
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	150 140 180 180 260	66 350 88 68 60	60 48 48 50 46	40 55 55 53 65	61 32 38 42 33	140 82 48 58 40	48 49 50 42 40	39 62 89 120 100	28 36 32 30 34	41 42 63 53	50 45  52 47	520 300 300 100 85
6 7 8 9	98 72 170 350 79	52 80 64 62 64	44 56 54 70 52	46 48 46 50 46	34 34 74 36 46	49 70 40 50 48	40 54 42 38 39	200 220 110	30 31 31 35 37	50 84 63 59 44	50 57 53 54 55	96 110 130 110 110
11 12 13 14 15	81 80 66 72 76	100 82 68 140 60	110 58 62 70 60	85 88 44 45 41	44 47 52 42 38	41 44 64 67 79	33 55 40 42 38	100 100 100 110 70	40 30 37 36 20	42 42 52 54 50	89 86 82 54 56	170 160 190 140 80
16 17 18 19 20	84 76 66 84 78	71 72 150 130 140	58 52 50 33 39	44 62 56 48 36	50  	66 60 68  74	44 33 31 34 36	50 81 67 26 39	30 25 35 32 30	50 70 44 39 43	57 54 66 49 52	100 100 68 150 200
21 22 23 24 25	76 72 70 260 640	960 250 170 80 76	36 35 43 53 43	48 63 60 73 63	36 40  38	77 49 48 44 44	32 34 36 30 29	41 40 39 37 37	35 38 40 38 34	45 57 49 49 57	56 63 59 62 56	300 280 220 220 440
26 27 28 29 30	200 180 190 70 52	74 70 70 62 64	43 45 45 40 55	50 50 35 43 53	33 39 71 	47 50 48 48	38 34 39 38	40 31 31 32 34 32	32 40 32 34 32	60 58 62 64 60 66	150 150 530 3600 260 520	470 350 340 320 300
31	60	130	50 52	50 53	44	46 58	39	72	34	54	220	220
MONTH	140	130	26	33	7.7	30					477	1979

93

MEAN

3600

YEAR

MIN

25

#### 292245090123200 BAYOU LAFOURCHE AT GALLIANO, LA (CE 82300)

LOCATION. -- Lat 29°22'45", long 90°15'30", T.19 S., R.9 E., Lafourche Parish, Hydrologic Unit 08090301, at Galliano.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

REMARKS.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily 33.0°C July 7, 1977; minimum daily, 6.0°C Jan. 18, Feb. 1, 2, 1977.
CHLORIDE: Maximum daily, 12,000 mg/L Mar. 30, 1977; minimum, 16 mg/L Feb. 6, 1975.

EXTREMES FOR CURRENT YEAR.

WATER TEMPERATURES: Maximum daily, 31.0°C June 14, 15, 16, 18, 20, 21, Aug. 27, 28; minimum daily, 9.5°C Jan. 3, 14, 15, 16. CHLORIDE: Maximum daily, 7,100 mg/L May 2, 3; minimum daily, 27 mg/L Feb. 6.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.5	20.5	20.0	10.5	11.0	10.5	20.0	20.5	21.0	30.0	30.0	21.0
	28.5	20.0	11.0	10.0	11.0	10.5	20.0	20.5	21.0	30.0	30.0	30.0
2	25.0	20.5	11.0	9.5	10.5	10.5	20.0	20.5	21.0	30.0		30.0
4	25.0	10.5	11.0	10.0	10.5	10.0	20.0	20.5	21.0	30.0	30.0	30.0
5	25.0	10.5	20.0	10.0	10.5	10.5	20.0	20.5	21.0	30.0	30.0	30.0
6	20.5	10.5	10.5	10.0	10.5	10.5	20.0	20.5	21.0	30.0	30.0	21.0
7	20.5	20.0	10.5	10.0	10.5	10.5	20.0	20.5	21.0	30.0	30.0	21.0
8	25.0	20.0	10.5	10.0	10.5	10.5	20.0	20.5	21.0	30.0	30.0	21.0
9	25.0	20.0	10.5	10.0	10.5	10.5	20.5	20.5	21.0	30.0	30.0	21.0
10	20.5	10.5	10.0	10.0	10.5	10.0	20.0	20.5	21.0	30.0	30.0	21.0
11	20.5	10.5	10.0	10.0	10.5	10.5	20.0	20.5	30.0	30.0	30.0	21.0
12	20.0	10.5	10.0	10.0	11.0	10.5	20.0	20.5	30.0	30.0	30.0	21.0
13	11.5	10.5	10.5	10.0	10.0	20.0	20.0	20.5	30.0	30.0	30.0	21.0
14	20.0	10.5	10.5	9.5	10.0	20.0	20.0	20.5	31.0	30.0	30.0	21.0
15	20.0	10.5	10.5	9.5	10.0	20.0	20.0	20.5	31.0	30.0	30.0	21.0
13	20.0	10.5	10.5	7.5	10.0	20.0	20.0	2005				
16	10.5	10.5	10.5	9.5	10.0	21.0	20.0	21.0	31.0	30.0	30.0	21.0
17	10.5	11.0	10.5	10.5	10.5	21.0	20.5	20.5	30.0	30.0	30.0	21.0
18	10.5	11.0	10.5	10.5	10.5	21.0	20.5	20.5	31.0	30.0	30.0	21.0
19	20.0	11.0	10.5		10.0	21.0	20.5	20.5	30.0	30.0	30.0	21.0
20	20.0	20.0	10.5	10.5	10.0	21.0	20.0	20.5	31.0	30.0	30.0	21.0
21	20.0	20.0	10.5	10.5	10.0	20.0	20.0	21.0	31.0	30.0	30.0	21.0
22	20.0	20.0	10.0	10.5	10.0	20.0	20.0	21.0	30.0	30.0	30.0	21.0
23	20.0	20.0	10.5	11.0	10.0	20.0	20.5	21.0	30.0	30.0	30.0	21.0
24	20.5	20.0	10.5	10.0	10.0	20.0	20.0	21.0	30.0	30.0	30.0	21.0
25	20.5	10.5	10.5	11.0	10.0	21.0	20.5	21.0	30.0	30.0	30.0	21.0
26	20.5	11-0	10.0	11.0	10.0	21.0	20.0	20.5	30.0	30.0	30.0	30.0
27	20.5	11.0	10.0	11.0	10.5	20.5	20.0	21.0	30.0	30.0	31.0	21.0
28	20.0	20.0	10.0	11.0	10.5	21.0	20.0	21.0	30.0	30.0	31.0	20.5
29	20.0	20.0	10.5	11.0			20.5	21.0	30.0	30.0	30.0	20.5
30	20.5	20.0	10.0	11.0		21.0	20.5	21.0	30.0	30.0	30.0	20.5
31			10.5	10.5		20.0		21.0		30.0	30.0	
31	20.5	7.77	10.5	10.5		20.0	-7.77	21.0			50.0	
MONTH	20.5	15.0	11.0	10.5	10.5	16.5	20.0	20.5	27.0	30.0	30.0	22.5
YEAR	MAX	31.0	MIN	9.5	MEAN	19.5						

### 292245090123200 BAYOU LAFOURCHE AT GALLIANO, LA (CE 82300) -- Continued

## DISSOLVED CHLORIDE (CL), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	610	62	38	58	3500	990	5800	150	43	56	550
2	90	4300	54	52	56	1200	1000	7100	250	36	64	520
3	190	4300	40	48	30	75	1000	7100	240	46		400
4	150	1600	46	43	28	100	82	5400	50	60	60	320
5		110	46	51	29	65	60	510	50	62	78	220
5	140	110	40	31	2,							
6	360	68	44	58	27	70	160	310	50	52	78	140
7	340	72	40	46	33	85	47	410	50	49	120	150
8	170	66	30	58	180	70	50	170	48	55	240	130
9	950	2000	190	66	220	65	140	160	50	60	280	460
10	320	300	190	62	77	58	91	160	45	65	220	200
11	200	170	190	45	89	50	94	200	50	85	180	180
12	250	230	200	48	110	48	89	170	45	70	200	160
13	180	75	190		35	85	37	140	65	62	100	160
14	65	85	180		35	60	38	92	55	74	100	140
15	68	61	210		35	46	37	55	55	70	170	80
15	00	0.	210									
16	92	150	90		40	53	46	68	55	60	160	94
17	77	900	70	50	32	60	41	210	300	64	78	95
18	83	1300	60	62	48	66	52	220	280	65	68	93
19	61	710	40		35	62	48	220	680	70	72	380
20	76	1400	50	68	45	63	35	100	730	72	62	240
20	70	1400	30									75.64
21	170	3700	50	52	45	94	33	68	850	68	82	320
22	120	300	40	55	38	71	42	65	760	65	62	400
23	110	300	55	62	43	74	39	78	750	66	60	400
24	110	210	45	70	45	72	110	90	170	62	62	240
25	1100	210	55	42	280	170	540	90	34	390	68	
25	1100	210	33		200	•						
26	1200	68	62	30	1700	59	120	60	36	56	60	350
27	260	120	58	50	700	46	50	65	38	56	4800	350
28	150	110	130	40	1800	54	5700	60	35	58	4500	710
29	160	64	140	45			5800	1000	47	76	4500	1400
30	180	64	85	35		46	5800	250	43	68	5500	1400
			140	35		54		200		65	700	
31	180		140	33		5,1						
MONTH	250	790	93	50	210	220	750	990	200	73	760	350
YEAR	MAX	7100	MIN	27	MEAN	400						

### 07381300 BAYOU LAFOURCHE AT GOLDEN MEADOW, LA

LOCATION.--Lat 29°23'25", long 90°15'55", on line between lots 22 and 23, T.19 S., R.22 E., Lafourche Parish, Hydrologic Unit 08090301, near right bank on downstream side of first pile bent from right abutment of highway bridge connecting State Highways 1 and 308 at Golden Meadow.

PERIOD OF RECORD. --April 1959 to September 1968, February to July 1970, October 1970 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 3.40 ft (1.036 m) below National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development, Office of Public Works). Prior to Feb. 10, 1970, at datum 3.40 ft (1.036 m) higher.

REMARKS. -- Gage height affected by tide at all stages.

EXTREMES FOR PERIOD OF RECORD. -- Maximum gage height, 8.13 ft (2.478 m) Oct. 4, 1964, present datum; minimum, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 6.56 ft (2.000 m) Aug. 29; minimum, 3.38 ft (1.030 m) Jan. 19.

GAGE HEIGHT. IN FEET. WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 INSTANTANEOUS OBSERVATIONS AT 0800

				11451	ANTANEOUS	OBSERVAT	TONS AT U	800				
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.98	5.65		5.18	4.46	4.65	4.10	5.37	5.50	5.25	5.21	5.42
2	5.93	6.40		4.72	4.56	4.73	4.36	5.44	5.54	5.24	5.09	5.31
3	5.45	5.84		4.58	4.44	5.03	4.80	5.85	5.58	5.19	4.92	5.27
4	5.50	5.65		4.66	4.41	4.43	4.85	5.75	5.60	5.10	4.84	5.22
5	5.61	5.36		4.61	4.41	4.25	4.86	5.41	5.51	4.95	5.03	5.16
6	5.67	5.27		4.82	4.26	4.56	5,23	5.58	5.50	4.95	4.94	5.27
7	5.64	5.24	4.31	5.03	4.66	4.94	4.98	5.75	5.53	4.84	4.85	5.52
8	5.87	5.36	4.82	5.49	4.79	5.24	5.07	5.89	5.65	4.74	4.98	5.66
9	5.81	5.81	5.13	4.55	4.96	4.93	5.11	5.68	5.45	4.88	5.57	5.74
10	5.57	4.97	4.59	4.77	4.70	4.46	5.27	5.33	5.16	4.89	5.47	5.78
11	5.85	4.60	4.92	4.69	4.66	4.74	5.24	5.31	5.07	4.99	5.42	5.74
12	5.32	4.76	4.96	5.18	4.87	4.63	4.92	5.46	5.03	5.08	5.35	5.73
13	4.84	4.80	5.17	5.06	5.11	4.94		5.32	4.81	5.13	5.33	5.74
14	5.07	4.89	5.41	4.40	4.44	5.01		4.87	4.85	5.14	5.13	5.68
15	5.01	5.30	5.31	3.89	4.22	4.77		4.88	5.13	5.15	5.11	5.45
16	4.98	5.35	5.21	4.36	4.53	4.40		5.03	5.33	5.14	5.07	5.25
17	5.06	5.42	5.37	4.74	4.52	3.76		5.21	5.55	5.15	5.01	5.47
18	5.12	5.37	4.77	4.41	4.83	3.63	5.36	5.60	5.60	5.18	5.03	5.75
19	5.11	5.50	4.86	5.00	4.19	3.65	5.12	5.36	5.62	5.15	5.04	5.79
20	5.10		4.80	4.06	4.50	4.17	4.83	5.25	5.56	4.97	5.05	5.81
21	5.16		4.30	4.33	4.47	4.78	4.92	5,22	5.50	5.09	4.92	5.95
22	5.19		3.94	4.35	3.58	4.35	5.27	5.21	5.45	5.30	5.10	5.86
23	5.33		4.35	4.40	4.16	4.52	5.72	5.24	5.35	5.35	5.22	5.77
24	5.65		4.58	4.86	3.75	5.06	5.51	5.29	5.23	5.44	5.40	5.60
25	5.73		4.96	5.56	4.55	4.69	5.38	5.30	4.98	5.50	5.56	5.40
26	5.25		4.43	4.75	4.56	4.32	4.91	5.24	5.05	5.40	5.64	5.62
27	5.18		4.68	4.34	4.61	4.30	4.48	5.08	5.10	5.43	5.86	5.71
28	5.10		4.63	4.05	5.04	4.21	4.52	5.20	5.12	5.41	6.16	5.65
29	5.15		4.93	4.15		4.21	4.56	5.35	5.15	5.30	6.42	5.82
30	5.28		5.44	4.29		3.87	5.03	5.34	5.21	5.29	5.99	5.82
31	5.36		5.37	4.37		3.90		5.40		5.20	5.55	
MEAN	5.38			4.63	4.51	4.49		5.36	5.32	5.16	5.30	5.60
MAX	5.98	6.40		5.56	5.11	5.24	5.72	5.89	5.65	5.50	6.42	5.95
MIN	4.84		3.94	3.89	3.58	3.63	4.10	4.87	4.81	4.74	4.84	5.16

### 07381330 INTRACOASTAL WATERWAY AT HOUMA, LA (CE 76320)

LOCATION.--Lat 29°35'55", long 90°42'36", in sec.8, T.17 S., R.17 E., Terrebonne Parish, Hydrologic Unit 08090302, at State Highway 24 bridge at Houma.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1960, 1978.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	· PH	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./	HARD- NESS (MG/L AS CACO3)	HARD- NESS; NONCAR- BONATE (MG/L CACO3)
1230	260	7.2	5.0	75	9.5	51	. 9	K30000		71	11
1145	238										10
						54	2.6	K2400	K240	86	14
1120	327	7.6	30	150	7.2	35	2.3		440		
1020	302	7.5	60	110	4.5	44	3.5	K16	K56	100	19
1030	319	7.6	30	40	5.3	27	2.3	K120	K80	110	23
1000	380	7.7	30	35	5.5	22	2.7	K80	K48	110	21
1130	21900	7.5	15	3	6.2	320	2.6	K21000	940	2400	2300
1145	681	7.3	40	70	5.2	61	2.6	1200	K380	130	49
CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
1.0	4 3	21	20		2.2	70		4.0		1.0	20
											38
20	5.4	16	32	.8	2.7	75	0	62	3.8	15	23
22	7.5	24	37	1.1	3.8	88	0	72	5.6	14	36
						105	0	86	4.2	27	22
26	9.1	20	29	.9	3.5	102	0	84	5.2	15	32
29	9.1	20	28	.8	29	106	0	87	4.3	21	32
30	9.3	29	35	1.2	2.9	113	0	93	3.6	23	46
170	470	4400	79	39	170	122	0	100	6.2	1000	7900
30	14	78	55	2.9	4.4	102	0	84	8.2	35	140
	1230 1145 1135 1120 1020 1030 1000 1130 1145 CALCIUM DIS- SOLVED (MG/L AS CA) 18 20 22  26 29 30 170	CIFIC CON- DUCT- ANCE (MICRO- MHOS)  1230 260 1145 238 1135 304 1120 327 1020 302 1030 319 1000 380 1130 21900 1145 681  CALCIUM DIS- SOLVED (MG/L AS CA) AS MG)  18 6.3 20 5.4 22 7.5 26 9.1 29 9.1 30 9.3 170 470	CIFIC CON- DUCT- ANCE PH  (MICRO- MHOS) (UNITS)  1230 260 7.2  1145 238 7.5  1135 304 7.4  1120 327 7.6  1020 302 7.5  1030 319 7.6  1000 380 7.7  1130 21900 7.5  1145 681 7.3  CALCIUM DIS- SOLVED SOLVED SOLVED (MG/L AS CA) AS MG) AS NA)  18 6.3 21  20 5.4 16  22 7.5 24  26 9.1 20  29 9.1 20  30 9.3 29  170 470 4400	TIME CONT COLOR (PLAT- ANCE PH INUM- COBALT UNITS)  1230	TIME	TIME	CLFIC CON- OUCT- ANCE (MICRO- MHOS) (UNITS) UNITS) (JTU) (MG/L) (HIGH  1145 238 7.5 50 80 9.8 35  1135 304 7.4 70 180 7.4 54  1120 327 7.6 30 150 7.2 35  1020 302 7.5 60 110 4.5 44  1030 319 7.6 30 40 5.3 27  1000 380 7.7 30 35 5.5 22  1130 21900 7.5 15 3 6.2 320  1145 681 7.3 40 70 5.2 61  CALCIUM DIS- SOLVED (MG/L) OIS- OIS- OIS- OIS- OIS- OIS- OIS- OIS-	CIFIC CON-	TIME	CIFIC CON-   COLOR COLOR COLOR COLOR COLOR CON-   COLOR CON-   COLOR C	CIFIC CON- COLOR

K Results based on colony count outside the acceptable range (non-ideal colony count).

## 07381330 INTRACOASTAL WATERWAY AT HOUMA, LA (CE 76320)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN: NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN; NO2+NO3 TOTAL (MG/L AS N)	MONIA +	PHOS-	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
JAN	100			0.2				2	1		0	0
23 FEB	189	<1.0	.15						1	1		0
16 MAR	188	<1.0	• 42		.46		.20	3	1	2	0	0
16 APR	240	<1.0	•15	.03	.18	.70	.37	4	3	1	0	0
19	140	<1.0	.90	.05	.95	.68	.22	2			0	
23	148	<1.0	• 14	.02	.16	1.1	.19	3	1	2	0	0
JUN 20	49	<1.0	.57	.01	.58	.57	.13	5	0	5	0	0
JUL 14	36	<1.0	.28	.01	.29	.61	.11	4	1	3	0	0
AUG 30	22	<1.0	.10	.01	.11	. 95	.13	3	1	2	0	0
SEP 12	89	<1.0	.30	.02	.32	. 95	.16	3	1	2	0	0
DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	DIS.	ERABLE (UG/L	PENDED RECOV- ERABLE (UG/L	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)
JAN 23	0	1	0	1	20	) (	31	29	2	80	6	6
FEB 16	0	0	0	0	C	) (	) 11	8	3	160	8	8
MAR 16	0	1	0	1	10	) (			10	170	4	1
APR 19		1	- 1				2-7				10	
MAY 23	0	0	0	0					4	50	5	5
JUN 20	0	1	0						3	50	4	4
JUL 14	0	1	0				) 6			20	8	4
AUG												
30 SEP	0	0	0						2	30	1	1
12	0	1	1	0	20	) (	) 6	2	4	30	7	7
	SOL (U) (TE AS	AD, TO IS- REG VED ER/	CURY STAL PECOV- REABLE ER	COV- D ABLE SO G/L (U	CURY TO IS- RE LVED ER G/L (L	CKEL + STAL PECOV- REPARE EF	RABLE SO	S- NI LVED TO IG/L (U	UM» PEN TAL TOT G/L (UG	NDED DI TAL SOL	M. DII S- D. VED SOI	NA- JM, IS- LVED 5/L V)
		0	• 0	. 0	.0	14	10	4	0	0	0	. 0
		0	.2	.2	• 0	12	12	0	1	1	0	1.0
MAR 16		3	. 0	. 0	.0	10	7	3	1	0	1	1.0
APR			.0			7			0			.0
MAY		0	.1	.1	.0	5	5	0	0	0	0	
JUN												. 0
JUL		0	.0	.0	.0	6	4	2	2	0	2	.8
AUG		4	.0	.0	• 0	7	4	3	0	0	0	2.1
SEP		0	.1	.1	. 0	3	3	0	0	0	0	
12	•••	0	.0	.0	.0	7	7	0	0	0	0	

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA
07381330 INTRACOASTAL WATERWAY AT HOUMA, LA (CE 76320)--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	ZINC. TOTAL RECOV-	ZINC; SUS- PENDED RECOV-	ZINC, DIS-	CARBON, ORGANIC	CYANIDE		OIL		NAPH- THA- LENES, POLY-		CHLOR-	
	ERABLE (UG/L	ERABLE (UG/L	SOL VED	TOTAL (MG/L	TOTAL (MG/L	PHENOLS	GREASE	PCB,	CHLOR.	ALDRIN. TOTAL	DANE +	DDD,
DATE	AS ZN)	AS ZN)	AS ZN)	AS C)	AS CN)	(UG/L)	(MG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
JAN 23	40	30	10	13	.00	2	0	.0	.00	.000	.0	.000
FEB 16	60	50	10	14	.00	2	0	.0	.00	.000	. 0	.000
MAR 16	40	20	20	14	.00	1	0	.0	.00	.000	.0	.000
APR 19	30			8,4	.00	10	0	.0	.00	.000	.0	.000
MAY 23	20	0	20	15	.00	6	0	.0	.00	.000	.0	.000
JUN 20	20	10	10	9.9	.00	2	0	.0	.00	.000	.0	.000
JUL 14	20	0	20	12	.00	2	0	.0	.00	.000	.0	.000
AUG 30	100	20	80	7.9	.00	2		. 0	.00	.000	.0	.000
SEP 12	20	20	0	13	.00	2	0	.0	.00	.000	.0	.000
12	20	20	V	13	*00		v		• • • • • • • • • • • • • • • • • • • •			
DATE	DDE +	DDT. TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN* TOTAL (UG/L)	ENDRIN: TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN	(UG/L)	(OG/L)	(00, 2)	(00/2)	(00, 2)	100/2/	(00/2/	100/2/	100/-			
23 FEB	.000	.000	.01	.000	.000	.000	.00	.000	.000	.000	.00	.00
16	.000	.001	.01	.001	.000	.000	.00	.000	.000	.000	.00	.00
16 APR	.000	.000	.01	.000	.000	.000	.00	.000	.000	.001	.00	.00
19 MAY	.000	.000	•01	.002	.000	.000	.00	.000	.000	.000	.00	.00
23 JUN	.000	.000	.01	.002	.000	.003	.00	.000	.000	.000	.00	.00
20	.000	.001	.01	.001	.000	.000	.00	.000	.000	.000	.00	.00
JUL 14 AUG	.000	.000	.02	.001	.003	.000	• 0 0	.000	.000	.000	.00	.00
30 SEP	.000	.000	• 02	.001	.000	.000	.00	.000	.001	.000	.00	.00
12	.000	.000	.01	.000	.000	.000	.00	.000	.000	.002	.00	.00
	W. T. I.V.	METHYL									CHLOR-A PHYTO- PLANK-	CHLOR-B PHYTO- PLANK-
DATE	METHYL PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2.4.5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	TON CHROMO FLUOROM (UG/L)	TON CHROMO FLUOROM (UG/L)
JAN 23	.00	.00	•00	.00	0.0	.00	.00	.02	.01	.00	1.97	.000
FEB 16	.00	.00	.00	.00	0.0		.00	.07	.01	.00	3.15	.000
MAR		.00	.00	.00	0.0		.00	.03	.00	.01	12.0	2.24
16 APR	.00		.00	.00			.00	.08	.01	.04	5.46	2.05
19 MAY	.00	.00	.00	.00	0.0		.00	.07	.01	.15	41.4	2.63
23	.00	.00			0.0		.00	.02	.02	.06	29.2	.000
JUL	.00	.00	•00	.00	0.0		.00	.02	.06	.00	33.3	.850
14 AUG	.00	.00	.00	.00	0.0	0.0	.00	.34	.00	.01	9.96	.000
30 SEP	.00	.00	•00	.00	0.0				.00	.11	8.30	.450
12	• 0 0	• 0 0	• 0 0	.00	0.0	.00	• 0 0	.01	.00	•11	0.30	• 430

#### 07381320 BAYOU TERREBONNE AT HOUMA, LA (CE 76270)

LOCATION.--Lat 29°36'00", long 90°43'00", T.17 S., R.17 E., Terrebonne Parish, Hydrologic Unit 08090302, at Houma.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1956, 1959, 1975 to current year.

PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD. -- CHLORIDE (water years 1975-76); Maximum daily, 4,600 mg/L Sep. 16, 1976; minimum daily, 10 mg/L Nov. 13-17, 1976.

EXTREMES FOR CURRENT YEAR. --

CHLORIDE: Maximum daily, 2,500 mg/L Aug. 30, minimum daily, 19 mg/L Jan. 14, 19, 27, 28.

TEMPERATURE	(DEG.	C)	OF	WATER,	WATER	YEAR	OCTOBER	1977	10	SEPTEMBER	1918
				01	NCE-DA	ILY					

					0.	TOL DATE						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			18.0	14.0	9.0	15.0	21.0	24.0	28.0	30.0	29.0	28.0
2			19.0	13.0	10.0	16.0	21.0	24.0	28.0	30.0	29.0	29.0
3			20.0	12.0	10.0	16.0	21.0	25.0	28.0	30.0	30.0	29.0
4			20.0	12.0	9.0	15.0	21.0	24.0	26.0	31.0	30.0	29.0
5			21.0	13.0	. 9.0	14.0	21.0	24.0	27.0	31.0	30.0	29.0
6			19.0	13.0	9.0	15.0	21.0	24.0	28.0	30.0	30.0	28.0
7		22.0	16.0	14.0	10.0	15.0	21.0	25.0	28.0	30.0	30.0	28.0
8		22.0	17.0	15.0	8.0	16.0	21.0	25.0	28.0	31.0	29.0	28.0
9		21.0	16.0	14.0	8.0	15.0	22.0	25.0	28.0	30.0	30.0	27.0
10		18.0	14.0	11.0	9.0	14.0	22.0	25.0	29.0	31.0	29.0	28.0
11		18.0	14.0	11.0	9.0	14.0	22.0	24.0	28.0		29.0	28.0
12		17.0	13.0	12.0	10.0	16.0	20.0	25.0	29.0		29.0	28.0
13	18.0	17.0	13.0	11.0	10.0	17.0	19.0	26.0			29.0	28.0
14	19.0	18.0	14.0	10.0	11.0	18.0	19.0	26.0			28.0	28.0
15	19.0	18.0	14.0	10.0	11.0	19.0	22.0	25.0			28.0	28.0
16	19.0	19.0	15.0	10.0	11.0	19.0	22.0	26.0			29.0	28.0
17		18.0	16.0	10.0	13.0	18.0	24.0	25.0			29.0	28.0
18		19.0	16.0	9.0	10.0	17.0	24.0	26.0			30.0	
19		19.0	15.0	8.0	10.0	18.0	24.0	25.0			30.0	
20		20.0	17.0	8.0	10.0	19.0	23.0	27.0			30.0	
21		21.0	15.0	7.0	10.0	19.0	22.0	27.0			30.0	
22		20.0	13.0	8.0	11.0	19.0	24.0	27.0			30.0	
23		20.0	13.0	8.0	11.0	20.0	24.0	28.0			30.0	
24		21.0	13.0	10.0	12.0	20.0	28.0	28.0			30.0	
25		20.0	13.0	11.0	13.0	19.0	24.0	28.0		28.0	31.0	
26		18.0	13.0	11.0	13.0	19.0	23.0	28.0		28.0	30.0	
27		19.0	13.0	11.0	14.0	19.0	22.0		30.0	28.0	29.0	
28		20.0	12.0	12.0	15.0	19.0	23.0	28.0	30.0	28.0	30.0	
29		20.0	13.0	11.0		20.0	23.0		28.0	28.0	28.0	
30		19.0	14.0	11.0		20.0	23.0		31.0	28.0	28.0	
31			13.0	10.0		20.0		29.0		29.0	28.0	
MONTH		19.5	15.0	11.0	10.5	17.5	22.0	26.0			29.5	

## 07381320 BAYOU TERREBONNE AT HOUMA, LA (CE 76270) -- Continued

## DISSOLVED CHLORIDE (CL), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2		42	23	28	34	40	39	42	28	60	46	500
2		40	32	34	30	31	37	38	26	64	46	450
3		36	30	28	29	28	41	39	24	41	38	400
4		49	46	36	35	28	32	45	22	40	45	250
5		48	72	53	30	31	33	31	22	43	44	150
6		51	35	39	32	45	32	28	30	47	53	130
7		51	32	43	30	41	28	40	26	56	44	130
8		47	58	32	30	25	32	39	26	45	36	130
9		58	38	44		36	27	47	20	44	40	120
10		77	36	28		37	26	36	25	42	46	120
11		64	52	28		43	27	37	32		42	140
12		60	46	33		40	26	34	42		52	150
13	79	56	31	27		55	24	36	32		50	130
14	82	46	31	19		44	24	37	34		43	120
15	84	64	32	21		37	29	36	33		48	100
16	55	45	30	25		31	28	34	31		48	83
17	68	40	29	41	28	30	28	37	28		58	80
18	52	42	25	29	22	52		31	20		74	120
19	46	40	23	19	22	38	30	32	26		57	82
20	58	42	37	41	31	38	21	29	24		49	58
21	59	44	34	48	32	40	37	28			54	70
22	58	46	34	40	30	34	40	32			58	98
23	41	38	36	40	35	40	34	30	22		48	120
24	45	81	44	42	30	48	43	30	24		52	68
25	42	39	34	44	34	64	30	31		42	52	88
26	48	50	45	28	30	22	38	27		41	57	72
27	35	48	33	19	33	46	33		45	33	53	75
28	40	54	30	19	38	39	37	25	50	40	500	75
29	45	21	32	25		38	43		44	34	480	90
30	43	20	32	29		48	41		40	52	2500	160
31	46		28	26		40		27		50	1700	
MONTH		48	36	33		39	32	34	31		210	150
YEAR	MAX	2500	MIN	19	MEAN	64						

## 07381325 HOUMA NAVIGATION CANAL AT HOUMA, LA (National stream-quality accounting network station)

LOCATION.--Lat 29°34'00", long 90°42'55", T.17 S., R.17 E., Terrebonne Parish, Hydrologic Unit 08090302, near center of span on downstream side of bridge on State Highway 661 in Houma.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1977 to current year.

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: April 1978 to September 1978. WATER TEMPERATURES: April 1978 to September 1978.

EXTREMES FOR PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: WATER TEMPERATURES:

#### WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM- FLOW+ INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)
JAN 10 FEB	1330		361	7.7	10.0	70	35	9.6	5.8			86
22 MAR	1200		181	7.2	10.0	10	20	7.5	2.9	1200		74
16	0700		213	7.4	5.0	50	15	5.0	3.2	K280		84
APR 12	1030		330	6.8	21.0	60	20	6.2	5.0	K26000	7 15.44	100
MAY 02	1430		357	7.3	25.0	20	90	8.6	8.0	K790	1400	130
JUN 13	1615		303	7.2	30.5	20	15	5.5	2.7	330	K40	98
JUL 06	1800		202	6.8	29.5	50	28	4.4	3.0		1000	51
10	0800	693	361	7.3	26.5	40	45			K15000	300	100
SEP 14	0745		415	7.5	28.0	50	40	6.7	3.6		1100	100
DATE	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JAN 10	9	24	6.3	13	24	.6	4.4	94	0	77	12	23
FEB 22	15	21	5.3	8.9	20	.5	3.3	72	0	59	6.4	19
MAR 16	12	23	6.5	11	21	.5	4.2	88	0	72	5.9	25
APR 12	15	28	8.1	26	34	1.1	3.6	108	0	89	13	39
MAY 02	37	37	10	18	22	• 7	3.6	113	0	93	36	27
JUN 13	16	27	7.5	24	34	1.1	2.9	102	0	84	14	37
06	0	20	.2	15	38	.9	2.1	72	0	59	5.4	19
10 SEP	21	27	9.1	30	38	1.3	2.9	96	0	79	24	46
14	20	25	9.3	41	46	1.8	3.2	98	0	80	20	62

K Results based on colony count outside the acceptable range (non-ideal colony count).

## 07381325 HOUMA NAVIGATION CANAL AT HOUMA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	FLUO- RIDE; DIS- SOLVED (MG/L AS F)	SILI DIS SOL (MG AS	CA, RE - AT VED D /L S	LIDS, SIDUE 180 EG. C DIS- OLVED MG/L)	SOLIDS SUM OF CONSTI TUENTS DIS- SOLVE (MG/L	50L • 50 • 50	IDS, DIS- DLVED TONS PER C-FT)	SOL (TO	IDS, IS- LVED ONS ER AY)		AL /L	NIT GEI AMMOI TOT (MG	N, NIA OF AL 1	GEN, GEN, GGANIC OTAL MG/L	GEN MON ORG TO (M	TRO- ,AM- IA + ANIC TAL G/L N)	GEN,	RG. P. AL /L	NITRO GEN, AM MONIA ORGANIO DIS. (MG/L AS N)	-
JAN	.2		9.9	141	13	0	.19				.11		.23	2.2					.9	,
10 FEB	• 6		9.9	141	13	9	.19				•11			_					• 9	ı
22	. 1		2.6	105	10	2	.14				.05		.21						1.2	
16	• 1		5.2	119	12	4	.16				.08		.30	1.0		1.3		.20	1.1	
12	• 1		6.9	198	17	9	.27				.27		.38	1.4		1.8		.50	1.3	
MAY 02	.1		5.2	197	19	3	.27				.98		.18	4.0		4.2	3	.6	.63	3
13	.1		8.6		16	9	.23				.08		.21	1.3		1.5		.64	.86	5
JUL 06	.1		7.0	119	10	5	.16				.05		.16	1.2		1.4		.51	.89	9
AUG 10	•2		7.8	200	19	4	.27	374			.47		.14	.81		.95		.24	.7	,
SEP	•-		•	-00	•		•	5,			•		•			• , ,		•	• • •	
14	• 2	- 5	7.1	239	21	6	.33				.33		.10	.77		.87		.24	.63	3
DAT	GE TOT (MG	J/L	NITRO- GEN+ TOTAL (MG/L 4S NO3)	PHOS PHORU TOTA (MG/ AS F	S- PH US, D AL S 'L (	HOS- DRUS, IS- OLVED MG/L S P)	CARBO ORGAN TOTA (MG,	NIC AL /L	CARBO ORGAN DIS- SOLVE (MG/ AS (	VIC ED VL	CARBO ORGAN SUS- PENDE TOTA (MG/ AS C	IC D L L	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	SIE DI % FI TH	SP. VE AM. NER AN	SED: MEN' SUS- PENI (MG/	r, DED	SEDI MENI DIS- CHARG SUS- PENE (T/DA	6E • - 0ED	
JAN 10. FEB					32	.12			1	1	1	•5			96		96			
22.	• •				19	.08		8.9							76		60			
16.	1	. 4	6.1		,43	.22	1	4					390		74		92			
12.		. 1	9.2		44	.12			2	1	2	.6			96		76			
02. JUN	5	.2	23		.19	.00	1	1					2300		91		214			
13.		.6	7.0		.17	.02	1	0							82		79			
JUL 06. AUG	1	.5	6.4		.27	.11			12	2	2	.4			82		140			
10. SEP	1	.4	6.3		.13	.04	13	2							94	1	104	195		
14.	1	.2	5.3		.12	.04	13	2							92		70			

## 07381325 HOUMA NAVIGATION CANAL AT HOUMA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDED RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
JAN 10	3	2	1	100	100	0	4	1	3	10
APR 12	7	1	6	200	0	200	1	0	1	0
JUL 06	6	3	3	200	0	200	0	0	0	10
	CHRO- MIUM, SUS- PENDED	CHRO- MIUM, DIS-	COBALT, TOTAL RECOV-	COBALT, SUS- PENDED RECOV-	COBALT, DIS-	COPPER, TOTAL RECOV- ERABLE	COPPER, SUS- PENDED RECOV- ERABLE	COPPER, DIS- SOLVED	IRON* TOTAL RECOV- ERABLE	IRON* SUS- PENDED RECOV- ERABLE
DATE	RECOV. (UG/L AS CR)	SOLVED (UG/L AS CR)	(UG/L AS CO)	ERABLE (UG/L AS CO)	SOLVED (UG/L AS CO)	(UG/L AS CU)	(UG/L AS CU)	(UG/L AS CU)	(UG/L AS FE)	(UG/L AS FE)
JAN 10	10	0	1	1	0	7	0	7	2600	2400
12	0	0	0	0	0	10	3	7	2900	2800
JUL 06	10	0	0	0	0	10	3	7	2600	2300
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD+ SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE; DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
JAN										0
10 APR	240	5	3	2	120	40	80	•1	.1	.0
12 JUL	130	4	1	3	610	130	480	.0	.0	.0
06	320	12	8	4	320	80	240	.2	.1	.1
DA	SEL NIU TOT (UC	NIC LE- SC JM, PEI TAL TO	DS- NIC NDED DI TAL SOL	VED ERA	VER+ SI TAL PET COV- REC ABLE ER/	ABLE SOL	IS- REC LVED ERA	AL PEN COV- REC ABLE ERA	NDED ZIN COV- DI ABLE SOL	S- VED
JAN 10	0	0	0	0	0	0	0	20	0	20
	2	0	0	0	0	0	0	30	10	20
JUL 06	5	0	0	0	0	0	0	20	0	20

### 07381325 HOUMA NAVIGATION CANAL AT HOUMA, LA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

						ONCE-DAILY						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
¥-								267	c60		363	18500
1								333	262		210	1420
3								335	260		242	892
4								333	c62		222	716
4 5								266	263		221	700
6								269	265			704
7								289	c34	215		543
8								334	269	202		575
9								284	271	208		641
10								248	270	235	353	711
11								246	270	236	363	631 622
12							269	347 238	271 236	246 258	396 402	556
13							303	243	£62	237	413	431
14 15							322	234	260	199	411	399
16							305	225	62	190	410	456
17							292	225		241	371	460
18							300	232		241	374	452
19							295 262	231 232		223 242	352 350	445
20												
21							262	235		179 212	359 363	443
23							262	201		238	365	399
24							276	199		285	366	405
25							257	188		266	363	427
26							248	201		323	371	447
27							275	219		363	401	453
28							274	186		271	14500	454
29							276	194		270	26000	454 450
30 31							304	221 267		363 361	18500 18600	
MONTH								249		252	3170	1160
THO IT IT		TEM	PERATURE	(DEG. C)	OF WATER	, WATER YEA			SEPTEMBE			
						ONCE-DAILY						
DAY			000	1441	FEB	1145				11.11	44.0	CEO
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	001	NOV	DEC	JAN	FEB	MAR	APR	25.0	30.0	JUL	30.0	30.0
1 2	001	NOV	DEC	JAN	FEB	MAR		25.0 25.0	30.0 30.0		30.0 30.0	30.0
2	001	NOV	DEC	JAN	FEB	МАН		25.0 25.0 23.0	30.0 30.0 30.0		30.0 30.0 30.0	30.0 30.0 30.0
2 3 4	001	NOV	DEC	JAN	reb	MAR		25.0 25.0 23.0 25.0	30.0 30.0 30.0 30.0		30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0
2 3 4 5	001	NOV	DEC	JAN	reb	ман		25.0 25.0 23.0	30.0 30.0 30.0		30.0 30.0 30.0	30.0 30.0 30.0
2 3 4 5	001	NOV	DEC	JAN	reb	ман		25.0 25.0 23.0 25.0 25.0	30.0 30.0 30.0 30.0		30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0
2 3 4 5	001	NOV	DEC	JAN	reb	МАК	===	25.0 25.0 23.0 25.0 25.0	30.0 30.0 30.0 30.0	===	30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0
2 3 4 5	001	NOV	DEC	JAN	FEB	ман	===	25.0 25.0 23.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0		30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9	001	NOV	DEC	JAN	FEB	ман		25.0 25.0 23.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0 25.0 30.0	30.0	30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8	001	NOV	DEC	JAN	FEB	ман		25.0 25.0 23.0 25.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0 25.0 30.0	30.0	30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10	001	NOV	DEC	JAN	FEB	ман		25.0 25.0 23.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0 25.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10	001	NOV	DEC	JAN	FEB	ман		25.0 25.0 23.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0 30.0 25.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10	001	NOV	DEC	JAN	FEB	ман		25.0 25.0 23.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10 11 12 13 14	001	NOV	DEC	JAN	FEB	ман	20.0	25.0 25.0 23.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	30.0 30.0 30.0 30.0 30.0 25.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10	001	NOV	DEC	JAN	FEB	ман		25.0 25.0 23.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10 11 12 13 14	001	NOV	DEC	JAN	FEB	ман	20.0	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0 25.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15	001	NOV	DEC	JAN	FEB	ман	20.0 20.0 20.0 20.0 20.0	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15	001	NOV	DEC	JAN	FEB	ман	20.0 20.0 20.0 25.0	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0 30.0 25.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15	001	NOV	DEC	JAN	FEB	ман	20.0 20.0 20.0 20.0 25.0 25.0	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0 25.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15	001	NOV	DEC	JAN	FEB	ман	20.0 20.0 20.0 25.0	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0 30.0 25.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	001	NOV	DEC	JAN	FEB	ман	20.0 20.0 20.0 25.0 20.0 20.0 20.0	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0 25.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 3	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	001	NOV	DEC	JAN	FEB	ман	20.0 20.0 20.0 20.0 25.0 25.0 25.0 20.0	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	001	NOV	DEC	JAN	FEB	ман	20.0 20.0 20.0 20.0 25.0 25.0 25.0 20.0	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	001	NOV	DEC	JAN	FEB	ман	20.0 20.0 20.0 20.0 20.0 25.0 25.0 25.0	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	001	NOV	DEC	JAN	FEB	ман	20.0 20.0 20.0 20.0 25.0 25.0 25.0 20.0 20	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	001	NOV	DEC	JAN	FEB	MAK	20.0 20.0 20.0 20.0 20.0 25.0 25.0 25.0	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0 25.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 3	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	001	NOV	DEC	JAN	FEB	ман	20.0 20.0 20.0 20.0 25.0 25.0 20.0 20.0	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0 25.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	001	NOV	DEC	JAN	FEB	ман	20.0 20.0 20.0 20.0 25.0 25.0 25.0 20.0 20	25.0 25.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	001	NOV	DEC	JAN	FEB	ман	20.0 20.0 20.0 20.0 25.0 25.0 20.0 20.0	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	001	NOV	DEC	JAN	FEB	ман	20.0 20.0 20.0 20.0 20.0 25.0 25.0 25.0	25.0 25.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	001	NOV	DEC	JAN	FEB	ман	20.0 20.0 20.0 20.0 25.0 25.0 20.0 25.0 20.0 20	25.0 26.0 26.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.0 30.0

## 07381325 HOUMA NAVIGATION CANAL AT HOUMA, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER \$977 TO SEPTEMBER \$978

MAR. 16, 1978 0700 HOURS

PHYTOPLANKTON 390 CELLS/ML

_ORGANISMNAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
CHLOROCOCCALES		
HYDRODICTYACEAE		
PEDIASTRUM	140	37
OOCYSTACEAE		
ANKISTRODESMUS	10	2
SCENEDESMACEAE		
SCENEDESMUS	29	7
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
CENTRALES		
COSCINODISCACEAE	1.0	
PENNALES	10	2
FRAGILARIACEAE		
SYNEDRA		0
NAVICULACEAE		U
NAVICULA	1.0	2
PINNULARIA	19	5
NITZSCHIACEAE	1.3	,
NITZSCHIA	29	7
CYANOPHYTA		,
.CYANOPHYCEAE		
HORMOGONALES		
OSCILLATORIACEAE		
OSCILLATORIA	120	29
EUGLENOPHYTA		
.CRYPTOPHYCEAE		
CRYPTOMONIDALES		
CRYPTOMONODACEAE		
CRYPTOMONAS	19	5
, EUGLENOPHYCEAE		
EUGLENALES		
EUGLENACEAE		
TRACHELOMONAS	10	2

MAY 2, 1978 1430 HOURS

PHYTOPLANKTON 2,300 CELLS/ML

_ORGANISMNAME	CELLS/ML	PER_CENT
CHLOROPHYTA .CHLOROPHYCEAECHLOROCOCCALESCOELASTRACEAE		
COELASTRUM OOCYSTACEAE	260	11
DICTYOSPHAERIUM SCENEDESMACEAE	140	6
SCENEDESMUS OOCYSTACEAE	140	6
GLOEOACTINIUM CHRYSOPHYTA	160	7
.BACILLARIOPHYCEAE CENTRALES COSCINODISCACEAE		
CYCLOTELLA MELOSIRA PENNALES	240 370	11 16
FRAGILARIACEAE SYNEDRA	300	13
NITZSCHIACEAE NITZSCHIA CYANOPHYTA	14	1
.CYANOPHYCEAECHROCCOCCALESCHROCCOCCAEAEANACYSTIS EUGLENOPHYTA	640	28
.EUGLENOPHYCEAE .EUGLENALES EUGLENACEAE TRACHELOMONAS	14	1

### 293313090360500 BAYOU TERREBONNE NEAR BOURG, LA (CE 76403)

LOCATION, -- Lat 29°33'13", long 90°36'05", T.17 S., R.18 E., Terrebonne Parish, Hydrologic Unit 08090302, at Bourg.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF DAILY RECORD.-WATER TEMPERATURES: October 1976 to current year.
CHLORIDE-SURFACE: October 1974 to current year.
CHLORIDE-10 FT DEPTH: October 1975 to current year.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey. Samples are collected at the water surface and at a 10-ft (3.0-m) depth.

EXTREMES FOR PERIOD OF RECORD.-WATER TEMPERATURES: Maximum daily, 32.0°C July 4, 5, 1978; minimum daily, 3.0°C Jan. 15, 1978.
CHLORIDE-SURFACE: Maximum observed, 7,500 mg/L Mar. 30, 1977; minimum daily, 14 mg/L May 31, 1975.
CHLORIDE-10 FT DEPTH: Maximum daily, 7,600 mg/L Apr. 19, 1976; minimum daily, 14 mg/L Mar. 5, 1978.

EXTREMES FOR CURRENT YEAR.-WATER TEMPERATURES: Maximum daily, 32.0°C July 4, 5; minimum daily, 3.0°C Jan. 15.
CHLORIDE-SURFACE: Maximum daily, 5,000 mg/L Aug. 30; minimum daily, 17 mg/L Jan. 30.
CHLORIDE-10 FT DEPTH: Maximum daily, 5,300 mg/L Aug. 30; minimum daily, 14 mg/L Mar. 5.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

					· ·	NOL DAIL!						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.0	23.0	19.0		10.0	16.0	19.0	23.0	20.0	30.0	28.0	27.0
2	29.5	22.5	17.5		10.0	16.0	20.0	24.0	20.0	30.0	29.0	28.0
3	26.5	21.0	18.0		10.0	16.0	20.0	24.0	27.0	31.0	29.0	28.0
4	23.5	19.5	18.0	26.0	8.0	10.0	21.0	23.0	27.0	32.0	29.0	28.0
5	23.0	18.5	19.5	13.0	10.0	10.0	21.0	25.0	27.0	32.0	30.0	27.0
6		20.0	18.5	10.5	10.0	14.0	22.0	24.0	20.0	31.0	30.0	28.0
7		19.0	16.0	15.5	8.0	15.0	22.0	24.0	20.0	30.0	29.0	28.0
8		21.0	16.5	11.5		15.0	22.0	24.0	28.0	30.0	29.0	28.0
9		21.5	17.5	6.0	8.0	15.0	22.0	24.0	20.0	30.0	28.0	28.0
10		19.0	13.0	8.0	8.0	11.0	22.0	24.0	28.0	30.0	28.0	27.0
11		15.5	12.0	8.0	10.0	11.0	23.0	25.0	24.0	31.0	29.0	27.0
12		15.0	14.0	9.0	10.0	15.0	19.0	25.0	24.0	30.0	29.0	28.0
13	18.0	16.0		9.0	12.0	17.0		26.0	30.0	30.0	29.0	28.0
14	18.0	16.0		10.0	12.0	17.0		23.0	26.0	30.0	28.0	28.0
15	18.0	19.0		3.0	11.0	17.0		25.0	24.0	30.0	27.0	28.0
16	18.0	19.0		9.0	11.0	17.0		28.0	29.0	30.0	28.0	28.0
17	19.0	18.5		10.0	11.0	17.0		26.0	24.0	30.0	29.0	28.0
18	20.5	18.0		6.0	11.0	17.0	24.0	26.0	27.0	30.0	28.0	28.0
19	20.5	17.0		8.0	10.0	17.0	24.0	27.0	24.0	30.0	28.0	29.0
20	20.0	19.0		7.0	10.0	19.0	24.0	27.0	29.0	30.0	28.0	29.0
21	20.0	19.5		7.0	9.0	19.0	24.0	27.0	24.0	29.0	28.0	29.0
22	20.0	19.0		8.0	9.0	19.0	24.0	27.0	30.0	29.0	29.0	29.0
23	21.0	19.0		7.0	10.0	19.0	22.0	27.0	30.0	30.0	30.0	29.0
24	21.5	20.0		10.0	12.0	19.0	23.0	28.0	30.0	30.0	30.0	29.0
25	22.0	17.5		15.0	12.0	19.0	23.0	28.0		29.0	30.0	28.0
26	21.0	18.0		8.0	15.0	18.0		28.0		29.0	30.0	28.0
27	21.0	17.5		10.0	13.0	18.0	23.0	28.0	31.0	28.0	30.0	28.0
28	21.5	19.0		11.0	16.0	18.0	22.0	28.0	31.0	27.0	29.0	27.0
29	21.0	20.0		10.0		18.0	22.0	29.0	31.0	28.0	27.0	26.0
30	21.5	19.0		11.0		19.0	22.0	28.0	31.0	27.0	26.0	26.0
31	22.0			10.0		19.0		29.0		29.0	27.0	
MONTH		19.0		10.0	10.5	16.5	22.0	26.0	24.0	29.5	28.5	28.0
YEAR	MAX	32.0	MIN	3.0	MEAN	22.0						

SEP

#### MISSISSIPPI RIVER DELTA

### 293313090360500 BAYOU TERREBONNE NEAR BOURG, LA (CE 76403)--Continued

FEB

DAY

OCT

DEC

UISSOLVED CHLORIDE (CL), MG/L, WATER YEAR OCTOBER 1977 TO SEPIEMBER 1978
SAMPLING DEPTH 5.00(FT.), ONCE-DAILY

APR

JUN

JUL

	001	NOV	DEC	JAN	LEB	MAR	AFR	MA	5014	JOL	AUG	SEF
1	52	45	44		20	33	34	38	20	46	30	180
2	68	120	50		22	38	40	320	27	52	32	110
3	38	1500	50		30	36	32	340	30	50	48	140
4	68	170	46	44	28	32	31	310	24	52	46	260
5	38	44	35	42	26	59	32	82	24	46	42	360
-									-			220
6		92	50	42	29	34	32	80	25	40	40	260
7		42	55	44	31	43	32	75	24	45	44	260
8		48	54	50	39	44	37	75	24	62	60	160
9		95	45	42	34	30	32	88	40	63	50	150
10		52	45	34	31	39	27	65	39	55	56	130
11		55	45	41	38	56	30	50	44	46	52	58
12		45	41	29	20	34	26	55	35	42	54	96
13	40	60		35	29	42		52	30	41	60	70
14	38	41		38	24	40		55	27	46	56	92
15	40	64		37	27	38		55	32	44	54	85
16	54	50		51	26	42		92	36	42	50	120
17	40	54		44	26	36		58	32	44	44	120
18	55	42		46	32	45	38	45	33	44	46	130
19	53	50		46	31	40	31	50	20	52	43	55
20	54	46		34	32	40	36	48	33	56	44	58
					2.2	3.2			201	2.0	100	11.0
21	42	39		31	32	42	32	38	29	54	45	60
22	50	39		32	32	36	34	35	31	54	54	90
23	44	48		41	31	38	32	40	20	54	42	75
24	49	41		40	36	38	39	45	27	60	42	100
25	52	44		18	42	37	36	42	30	47	44	100
4.5		22		2.7	1.2			4.3		7.4	1.2	
26	43	39		31	41	41		50	26	47	48	100
27	40	39		18	36	40	38	45	54	37	44	100
28	38	46	~	19	28	37	30	45	52	48	700	120
29	42	40	~~~	19		40	35	42	48	39	2300	220
30	46	46		17		42	35	50	49	34	5000	350
31	46			50		40		24		27	900	
MONTH		100		25	3.0		2.2	2.0	2.1		220	1.0
MONTH		100		35	30	40	33	80	33	47	330	140
YEAR	MAX	5000	471	1.7	MEAN	85						
TEAR	MAX		MIN	17	MEAN							
		DIS	SOLVED CH						SEPTEMBE	R 1978		
				SAMPLING	DEPTH	10.00(F	T.) . ONC	E-DAILY				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
							APR	MAY				
1	48	45	46		25	34	APR	MAY 36	24	52	30	160
1 2	48 50	45 120	46 50	===	25 24	34 32	APR 39 40	MAY 36 340	24	52 50	30 34	160 120
1 2 3	48 50 58	45 120 1700	46 50 50		25 24 27	34 32 31	APR 39 40 34	MAY 36 340 340	24 26 24	52 50 56	30 34 50	160 120 140
1 2 3 4	48 50 58 42	45 120 1700 180	46 50 50 39	34	25 24 27 31	34 32 31 37	39 40 34 31	MAY 36 340 340 340	24 26 24 25	52 50 56 68	30 34 50 48	160 120 140 260
1 2 3	48 50 58	45 120 1700	46 50 50		25 24 27	34 32 31	APR 39 40 34	MAY 36 340 340	24 26 24	52 50 56	30 34 50	160 120 140
1 2 3 4 5	48 50 58 42 38	45 120 1700 180 38	46 50 50 39 30	34	25 24 27 31 28	34 32 31 37 14	APR 39 40 34 31 36	MAY 36 340 340 340 77	24 26 24 25 24	52 50 56 68 48	30 34 50 48 42	160 120 140 260 360
1 2 3 4 5	48 50 58 42 38	45 120 1700 180 38	46 50 50 39 30	34 44	25 24 27 31 28	34 32 31 37 14	APR 39 40 34 31 36	MAY 36 340 340 340 77 65	24 26 24 25 24	52 50 56 68 48	30 34 50 48 42	160 120 140 260 360
1 2 3 4 5	48 50 58 42 38	45 120 1700 180 38 64 45	46 50 50 39 30 46	34 44 42 42	25 24 27 31 28 28	34 32 31 37 14 35	APR 39 40 34 31 36	MAY 36 340 340 340 77 65 80	24 26 24 25 24 25 24	52 50 56 68 48 45 48	30 34 50 48 42 42	160 120 140 260 360
1 2 3 4 5	48 50 58 42 38	45 120 1700 180 38 64 45 52	46 50 50 39 30 46 110 140	34 44 42 42 46	25 24 27 31 28 28 27 34	34 32 31 37 14 35 44 43	APR 39 40 34 31 36 32 29 28	MAY 36 340 340 340 77 65 80 88	24 26 24 25 24 24 24 39	52 50 56 68 48 45 48 52	30 34 50 48 42 42 44 64	160 120 140 260 360 280 260 160
1 2 3 4 5 6 7 8 9	48 50 58 42 38	45 120 1700 180 38 64 45 52 100	46 50 50 39 30 46 110 140 50	34 44 42 42 46 48	25 24 27 31 28 28 27 34	34 32 31 37 14 35 44 43 31	APR 39 40 34 31 36 32 29 28 32	MAY  36 340 340 340 77  65 80 88 88	24 24 25 24 25 24 24 33 33	52 50 56 68 48 45 48 52 58	30 34 50 48 42 42 44 64 48	160 120 140 260 360 280 260 160 150
1 2 3 4 5	48 50 58 42 38	45 120 1700 180 38 64 45 52	46 50 50 39 30 46 110 140	34 44 42 42 46	25 24 27 31 28 28 27 34	34 32 31 37 14 35 44 43	APR 39 40 34 31 36 32 29 28	MAY 36 340 340 340 77 65 80 88	24 26 24 25 24 24 24 39	52 50 56 68 48 45 48 52	30 34 50 48 42 42 44 64	160 120 140 260 360 280 260 160
1 2 3 4 5 6 7 8 9	48 50 58 42 38	45 120 1700 180 38 64 45 52 100 51	46 50 50 39 30 46 110 140 50 46	34 44 42 42 46 48 26	25 24 27 31 28 28 27 34 37 36	34 32 31 37 14 35 44 43 31 56	APR 39 40 34 31 36 32 29 28 32 30	MAY  36 340 340 340 77  65 80 88 88 50	24 26 24 25 24 22 43 39 33 34	52 50 56 68 48 45 48 52 56	30 34 50 48 42 42 44 64 48 55	160 120 140 260 360 280 260 160 150
1 2 3 4 5 6 7 8 9 10	48 50 58 42 38	45 120 1700 180 38 64 45 52 100 51	46 50 39 30 46 110 140 50 46	34 44 42 42 46 48 26	25 24 27 31 28 28 27 34 37 36	34 32 31 37 14 35 44 43 31 56	APR 39 40 34 31 36 32 29 28 32 30	MAY  36 340 340 340 77  65 80 88 88 50	24 26 24 25 24 25 24 39 33 34	52 556 68 48 45 48 52 56 42	30 34 50 48 42 42 44 64 48 55	160 120 140 260 360 280 260 160 150 130
1 2 3 4 5 6 7 8 9 10	48 50 58 42 38	45 120 1700 180 38 64 45 52 100 51	46 50 50 39 30 46 110 140 50 46	34 44 42 42 46 48 26	25 24 27 31 28 28 27 34 37 36	34 32 31 37 14 35 44 43 31 56	APR 39 40 34 31 36 32 29 28 32 30	MAY  36 340 340 340 77  65 80 88 88 50  65 50	24 26 24 25 24 25 24 22 43 33 34 35	50 56 68 48 45 48 55 66 48	30 34 50 48 42 42 44 64 48 55	160 120 140 260 360 280 260 150 130
1 2 3 4 5 6 7 8 9 10	48 50 58 42 38	45 120 1700 180 38 64 45 52 100 51 44 98	46 50 39 30 46 110 140 50 46	34 44 42 42 46 48 26 36 26 38	25 24 27 31 28 28 27 34 37 36	34 32 31 37 14 35 44 43 31 56	39 40 34 31 36 32 29 28 32 30	MAY  36 340 340 340 77  65 80 88 88 50 65 50	24 26 24 25 24 25 24 39 33 34 36 35 34	550 568 48 45 48 556 422 41	30 34 50 48 42 42 44 64 48 55	160 120 140 260 360 280 260 150 130 70 100 82
1 2 3 4 5 6 7 8 9 10	48 50 58 42 38	45 120 1700 180 38 64 45 52 100 51 44 98 88	46 50 50 39 30 46 110 140 50 46	34 44 42 42 46 48 26 36 26 38 40	25 24 27 31 28 28 27 34 37 36 40 35 30 24	34 32 31 37 14 35 44 43 31 56 37 36	APR 39 40 34 31 36 32 29 28 32 30 31	MAY  36 340 340 340 77  65 80 88 88 50  65 50 52	24 26 24 25 24 25 24 39 33 34 36 35 35 34 33	50 56 68 48 45 45 48 48 48 48 48 48 48 48 48 48 48 48 48	30 34 50 48 42 42 44 64 48 55	160 120 140 260 360 280 260 160 150 130 70 100 82 92
1 2 3 4 5 6 7 8 9 10	48 50 58 42 38	45 120 1700 180 38 64 45 52 100 51 44 98	46 50 50 39 30 46 110 140 50 46	34 44 42 42 46 48 26 36 26 38	25 24 27 31 28 28 27 34 37 36	34 32 31 37 14 35 44 43 31 56	APR 39 40 34 31 36 32 29 28 32 30	MAY  36 340 340 340 77  65 80 88 88 50 65 50	24 26 24 25 24 25 24 39 33 34 36 35 34	550 568 48 45 48 556 422 41	30 34 50 48 42 42 44 64 48 55	160 120 140 260 360 280 260 150 130 70 100 82
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	48 50 58 42 38  42 38 38	45 120 1700 180 38 64 45 52 100 51 44 98 88	46 50 50 39 30 46 110 140 50 46	34 44 42 42 46 48 26 36 26 38 40	25 24 27 31 28 28 27 34 37 36 40 35 330 24 31	34 32 31 37 14 35 44 43 31 56 37 36 43 36 40	APR 39 40 34 31 36 32 29 28 32 30	MAY  36 340 340 340 77  65 80 88 88 50 65 50 60	24 26 24 25 24 25 24 39 33 34 35 35 35 37 37 37	500688 4582866 441664	30 34 50 48 42 44 64 48 55 50 50 66 54	160 120 140 260 360 280 260 160 150 130 70 100 82 92 87
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	48 50 58 42 38  42 38 38 38	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53	46 50 50 39 30 46 110 140 50 46	34 44 42 42 46 48 26 36 26 38 40 44	25 24 27 31 28 28 27 34 37 36 40 35 30 24 31	34 32 31 37 14 35 44 43 31 56 37 36 43 36 40	APR 39 40 34 31 36 32 29 28 32 30 31	MAY  36 340 340 340 77  65 80 88 88 50  65 50 65 60 42	24 26 24 25 24 25 24 33 34 33 34 35 35 36 33 37 38	500 568 48 458 556 422 456 44 42	30 34 50 48 42 42 44 64 48 55	160 120 140 260 360 280 260 160 150 130 70 100 82 92 87
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	48 50 58 42 38  42 38 38 52 40	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53	46 50 50 39 30 46 110 140 50 46	34 44 42 42 46 48 26 36 26 38 40 44	25 24 27 31 28 28 27 34 37 36 40 35 30 24 31	34 32 31 37 14 35 44 43 31 56 37 36 43 36 40	39 40 34 31 36 32 29 28 32 30 31	MAY  36 340 340 340 77  65 80 88 88 50  65 50 65 50 42 42	24 26 24 25 24 22 43 39 33 34 35 36 35 36 33 37 38	500 568 48 48 558 555 422 41 64 42 42	30 34 50 48 42 42 44 64 48 55 50 66 54	160 120 140 260 360 280 260 160 150 130 70 100 82 92 87
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	48 50 58 42 38  42 38 38 52 40 56	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53	46 50 50 39 30 46 110 140 50 46	34 44 42 42 46 48 26 36 26 38 40 44 34 47	25 24 27 31 28 28 27 34 37 36 40 35 330 24 31	34 32 31 37 14 35 44 43 31 56 37 36 43 36 40	39 40 34 31 36 32 29 28 32 30 31 34 4	MAY  36 340 340 340 77  65 80 88 88 50 65 50 60 42 42 50	24 26 24 25 24 24 24 39 33 34 35 34 35 34 33 35 34 33 34	555688 45886 22164 224 4555 4454 424	30 34 50 48 42 42 44 64 48 55 50 50 66 54	160 120 140 260 360 280 260 160 150 130 70 100 82 92 87
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	48 50 58 42 38  42 38 38 52 40 56	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53	46 50 50 39 30 46 110 140 50 46	34 44 42 42 46 48 26 36 26 38 40 44 37	25 24 27 31 28 28 27 34 37 36 40 35 30 24 31 24 28 29 28	34 32 31 37 14 35 44 43 31 56 37 36 43 36 40 46 36 49 42	39 40 34 31 36 32 29 28 32 30 31	MAY  36 340 340 340 77  65 80 88 88 50  65 50 62 50 60  42 42 50 42	24 26 24 25 24 25 24 39 33 34 35 34 33 35 36 37 38 37 38 38 37 38 38 38 38 38 38 38 38 38 38 38 38 38	506688 45856 22164 22450 4454 42450	30 34 50 48 42 42 44 64 48 55 50 54 66 54 50 44 43 44	160 120 140 260 360 280 260 160 150 130 70 100 82 92 87
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	48 50 58 42 38  42 38 38 52 40 56	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53	46 50 50 39 30 46 110 140 50 46	34 44 42 42 46 48 26 36 26 38 40 44 34 47	25 24 27 31 28 28 27 34 37 36 40 35 330 24 31	34 32 31 37 14 35 44 43 31 56 37 36 43 36 40	39 40 34 31 36 32 29 28 32 30 31 34 4	MAY  36 340 340 340 77  65 80 88 88 50 65 50 60 42 42 50	24 26 24 25 24 24 24 39 33 34 35 34 35 34 33 35 34 33 34	555688 45886 22164 224 4555 4454 424	30 34 50 48 42 42 44 64 48 55 50 50 66 54	160 120 140 260 360 280 260 160 150 130 70 100 82 92 87
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	48 50 58 42 38  42 38 38 52 40 56	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53	46 50 50 39 30 46 110 140 50 46	34 44 42 42 46 48 26 36 26 38 40 44 37	25 24 27 31 28 28 27 34 37 36 40 35 30 24 31 24 28 29 28	34 32 31 37 14 35 44 43 31 56 37 36 43 36 40 46 36 49 42	39 40 34 31 36 32 29 28 32 30 31 34 33	MAY  36 340 340 340 77  65 80 88 88 50  65 50 62 50 60  42 42 50 42	24 26 24 25 24 25 24 39 33 34 35 34 33 35 36 37 38 37 38 37 38 38 38 38 38 38 38 38 38 38 38 38 38	506688 45856 22164 22450 4454 42450	30 34 50 48 42 42 44 64 48 55 50 54 66 54 50 44 43 44	160 120 140 260 360 280 260 160 150 130 70 100 82 92 87
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	48 50 58 42 38  42 38 38 52 40 56 54 52	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53 53 40 40 44 45	46 50 50 39 30 46 110 140 50 46 48 44 	34 44 42 42 46 48 26 36 26 38 40 44 37 37	25 24 27 31 28 28 27 34 37 36 40 35 330 24 31 28 29 28 30	34 32 31 37 14 35 44 43 31 56 37 36 43 36 40 40 40 40 42 42	39 40 34 31 36 32 29 28 32 30 31 34 33 33	MAY  36 340 340 340 77  65 80 88 88 50 65 50 60 42 42 42 42	24 26 24 25 24 24 39 33 34 35 34 35 34 35 34 35 34 35 34 35 34 35 36 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	555688 45856 221664 424555 44565 555	30 34 50 48 42 44 64 48 55 50 50 66 54 50 44 43 44 42	160 120 140 260 360 280 260 150 130 70 100 82 92 87 120 130 72 50
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	48 50 58 42 38 42 38 42 38 38 52 40 54 52 53	45 120 1700 180 38 64 45 52 100 51 44 98 84 45 53 53 40 40 44 45	46 50 50 39 30 46 110 140 50 46 48 44 	34 44 42 42 46 48 26 36 26 38 40 44 37 37 37	25 24 27 31 28 28 27 34 37 36 40 35 30 24 31 24 28 29 28 30 30	34 32 31 37 14 35 44 43 31 56 37 36 43 36 40 46 36 49 42 42 42	APR 39 40 34 31 36 32 29 28 32 30 31 34 33 33	MAY  36 340 340 340 77  65 80 88 88 50  65 50 60 42 42 42 42 35	24 26 24 25 24 25 24 39 33 34 35 34 33 35 34 35 34 35 37 38 37 38 38 38 38 38 38 38 38 38 38 38 38 38	200688 58286 22164 22405 668 44555 44564 42405 555	30 34 50 48 42 42 44 64 48 55 50 54 66 54 50 44 44 42 42	160 120 140 260 360 280 260 160 150 130 70 100 82 92 87 120 120 130 72 50
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	48 50 58 42 38  42 38 38 52 40 56 52 53 48	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53 53 40 40 44 45	46 50 50 39 30 46 110 140 50 46 48 44 	34 44 42 42 46 48 26 36 26 38 40 44 34 47 49 37 37	25 24 27 31 28 28 27 34 37 36 40 35 30 24 31 28 29 28 30	34 32 31 37 14 35 44 43 31 56 37 36 43 36 40 46 36 49 42 42 42	APR 39 40 34 31 36 32 29 28 32 30 31 34 33 33 26 32	MAY  36 340 340 340 77  65 80 88 88 50  65 50 65 50 60 42 42 42 35 38	24 26 24 25 24 25 24 24 39 33 34 35 36 35 36 37 38 37 38 38 39 31 31 32 32 33 34 35 36 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	550688 5586 22164 22455 55 56	30 34 50 48 42 42 44 64 48 55 50 66 54 54 43 44 42 42 42 58	160 120 140 260 360 280 260 160 150 130 70 100 82 92 87 120 130 72 50
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	48 50 58 42 38  42 38 38 52 40 56 54 52 53 46	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53 53 40 40 44 45 45 43 41 36	46 50 50 39 30 46 110 140 50 46 48 44 	34 44 42 42 46 48 26 36 26 38 40 44 37 37 37 37 37	25 24 27 31 28 28 27 34 37 36 40 35 30 24 31 28 29 28 30 30 31 32	34 32 31 37 14 35 44 43 31 56 37 36 43 36 40 40 40 40 42 42 42 42 43 30 36	39 40 34 31 36 32 29 28 32 30 31 34 33 33 26 32 30	MAY  36 340 340 340 77  65 80 88 88 50 65 50 60 42 42 42 42 35 38 40	24 26 24 25 24 25 24 39 33 34 35 34 35 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38	200688 58286 22164 22405 668 44555 44564 42405 555	30 34 50 48 42 44 64 48 55 50 66 54 50 44 43 44 42 42 58 44	160 120 140 260 360 280 260 150 130 70 100 82 92 87 120 130 72 50
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	48 50 58 42 38  42 38 38 52 40 56 54 52 53 46 47 48	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53 53 40 40 44 45 45 43 41 36 37 47	46 50 50 39 30 46 110 140 50 46 48 44 	34 44 42 42 46 48 26 36 26 38 40 44 37 37 37 37 37 37 32 40 40 25	25 24 27 31 28 28 27 34 37 36 40 35 30 24 31 28 29 28 30 30 31 32 38 50	34 32 31 37 14 35 44 43 31 56 37 36 43 36 49 42 42 42 42 43 30 36 36 36 36 49 49 42 42 43 31 31 31 31 31 31 31 31 31 31 31 31 31	39 40 34 31 36 32 29 28 32 30 31 34 33 33 36 32 30 37 38	MAY  36 340 340 340 77  65 80 88 88 50  65 50 60  42 42 42 42 35 38 40 45	24 26 24 25 24 25 24 39 33 34 35 34 33 35 34 20 31 20 31 20 31 32 33 34 33 33 34 35 36 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	555688 58286 22164 22405 6686 44555 44564 42555 5555	30 34 50 48 42 44 64 48 55 50 66 54 50 44 43 44 42 42 58 44 44 44	160 120 140 260 360 280 260 150 130 70 100 82 92 87 120 130 72 50
1 2 3 3 4 5 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	48 50 58 42 38 42 38 42 42 38 38 52 40 56 54 52 53 48 46 47 48 43	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53 53 40 44 45 45 41 36 37 47	46 50 50 39 30 46 110 140 50 46 48 44 	34 44 42 42 46 48 26 36 38 40 44 37 37 37 37 33 33 40 40 25	25 24 27 31 28 28 27 34 37 36 40 35 30 24 31 24 28 30 29 28 30 31 32 38 31 32 38 50 39	34 32 31 37 14 35 44 43 31 56 37 36 43 36 40 46 36 49 42 42 42 42 43 30 36 36 36 49 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	APR 39 40 34 31 36 32 29 28 32 30 31 34 33 33 26 32 30 37 38	MAY  36 340 340 340 77  65 80 88 88 50  65 50 60  42 42 42 42 42 42 42 42 42 42 42 42 46 65	24 26 24 25 24 25 24 39 33 34 35 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	555688 58286 22164 22405 6686 44555 44564 42555 5555	30 34 50 48 42 42 44 64 48 55 50 54 66 54 54 42 42 42 44 44 44 42 48	160 120 140 260 360 280 260 150 130 70 100 82 92 87 120 120 130 72 50
1 2 3 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27	48 50 58 42 38  42 38 38 52 40 56 54 55 52 53 48 46 47 48 43 37	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53 53 40 40 44 45 45 41 36 37 47	46 50 50 39 30 46 110 140 50 46 48 44 	34 44 42 42 46 48 26 36 26 38 40 44 34 47 49 37 37 33 33 40 40 25	25 24 27 31 28 28 27 34 37 36 40 35 30 24 31 28 29 28 30 31 32 38 31 32 38 30 31 32 38 38 39 30 30 30 30 30 30 30 30 30 30 30 30 30	34 32 31 37 14 35 44 43 31 56 37 36 43 36 49 42 42 42 42 43 30 36 36 38 43	APR  39 40 34 31 36 32 29 28 32 30 31 34 33 33 26 32 30 37 38	MAY  36 340 340 340 77  65 80 88 88 50 65 50 60 42 42 42 35 38 40 45 48 65 55	24 26 24 25 24 25 24 39 33 34 35 34 33 35 34 20 31 20 31 20 31 32 33 34 33 33 34 35 36 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	200688 58286 22164 22405 66864 4555 44164 427405 5555	30 34 50 48 42 42 44 64 48 55 50 66 54 55 50 66 54 43 44 42 42 44 44 44 44 44 44 44 44 44 44	160 120 140 260 360 280 260 160 150 130 70 100 82 92 87 120 130 72 50
1 2 3 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	48 50 58 42 38  42 38 38 52 40 56 47 48 43 37 42	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53 53 40 44 45 43 41 36 37 47 43 49	46 50 50 39 30 46 110 140 50 46 48 44 	34 44 42 42 46 48 26 36 26 38 40 44 47 49 37 37 37 37 37 32 40 40 25 28 18	25 24 27 31 28 28 27 34 37 36 40 35 30 24 31 24 28 30 29 28 30 31 32 38 31 32 38 50 39	34 32 31 37 14 35 44 43 31 56 37 36 43 36 40 40 46 38 43 30 36 36 49 42 42 42 42 43 44 43 44 43 44 43 44 43 46 47 48 48 48 48 48 48 48 48 48 48	APR  39 40 34 31 36 32 29 28 32 30 31 34 33 33 26 32 30 37 38	MAY  36 340 340 340 77  65 80 88 88 50  65 50 60  42 42 42 42 42 42 42 42 42 42 42 42 46 65	24 26 24 25 24 25 24 39 33 34 35 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	200688 58286 22164 22405 66864 689 55564 44555 55555 4489	30 34 50 48 42 42 44 64 48 55 50 66 54 50 43 44 42 42 58 44 44 44 44 44 44 44 44	160 120 140 260 360 280 260 160 150 130 70 100 82 92 87 120 130 72 50 60 73 80 95 100
1 2 3 3 4 4 5 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	48 50 58 42 38 42 38 38 52 40 56 54 52 53 48 46 47 48 43 37 42 42	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53 53 40 44 45 45 47 47 43 41 49 40	46 50 50 39 30 46 110 140 50 46 48 44 	34 44 42 42 46 48 26 36 38 40 44 37 37 37 37 33 33 40 40 25 28 18 19 21	25 24 27 31 28 28 27 34 37 36 40 35 30 24 31 28 29 28 30 31 32 38 31 32 38 30 31 32 38 38 39 30 30 30 30 30 30 30 30 30 30 30 30 30	34 32 31 37 14 35 44 43 31 56 36 40 46 36 49 42 42 43 30 36 36 49 42 42 43 30 46 47 48 48 48 48 48 48 48 48 48 48	APR  39 40 34 31 36 32 29 28 32 30 31 34 33 33 26 32 30 37 38	MAY  36 340 340 340 77  65 80 88 88 50 65 50 60 42 42 42 35 38 40 45 48 65 55	24 26 24 25 24 25 24 25 24 39 33 34 35 36 37 37 38 38 38 38 39 38 38 38 38 38 38 38 38 38 38 38 38 38	200688 58286 22164 22405 66864 6898 55564 44564 42405 55555 44898	30 34 50 48 42 42 44 64 48 55 50 54 66 54 50 44 44 42 42 42 48 44 44 44 44 48 48 42 42 42 43 44 44 44 44 44 44 44 44 44 44 44 44	160 120 140 260 360 280 260 160 150 130 70 100 82 92 87 120 130 72 50
1 2 3 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	48 50 58 42 38  42 38 52 56 55 52 53 48 46 47 48 43 37 42 46	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53 53 40 40 44 45 45 41 36 37 47 43 41 49 49	46 50 50 39 30 46 110 140 50 46 48 44 	34 44 42 42 46 48 26 36 26 38 40 44 34 47 49 37 37 33 33 40 40 25 28 18 19 21 18	25 24 27 31 28 28 27 34 37 36 40 35 30 24 31 28 29 28 30 31 32 38 31 32 38 31 32 38 31 32 33 34 34 35 36 36 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	34 32 31 37 14 35 44 43 31 56 37 36 43 36 40 46 49 42 42 43 30 36 36 49 42 42 43 44 43 44 45 46 47 48 48 48 48 48 48 48 48 48 48	APR  39 40 34 31 36 32 29 28 32 30 31 34 33 33 26 32 30 37 38	MAY  36 340 340 340 77  65 80 88 88 50 65 50 60 42 42 42 35 38 40 45 48 65 55 42 40 40	24 24 25 24 25 24 24 39 33 34 35 34 35 36 37 37 37 38 38 38 39 38 38 38 38 38 38 38 38 38 38 38 38 38	200688 58286 22164 224405 66864 68983 4454 42405 55555 48983	30 34 50 48 42 42 44 64 64 65 55 50 66 54 50 66 54 42 42 42 43 44 44 44 44 44 44 44 44 44 44 44 44	160 120 140 260 360 280 260 160 150 130 70 100 82 92 87 120 130 72 50 60 73 80 95 100
1 2 3 3 4 4 5 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	48 50 58 42 38 42 38 38 52 40 56 54 52 53 48 46 47 48 43 37 42 42	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53 53 40 44 45 45 47 47 43 41 49 40	46 50 50 39 30 46 110 140 50 46 48 44 	34 44 42 42 46 48 26 36 38 40 44 37 37 37 37 33 33 40 40 25 28 18 19 21	25 24 27 31 28 28 27 34 37 36 40 35 330 24 31 28 29 28 30 31 32 38 31 32 38 50 39 39 39 39 30 30 30 30 30 30 30 30 30 30 30 30 30	34 32 31 37 14 35 44 43 31 56 36 40 46 36 49 42 42 43 30 36 36 49 42 42 43 30 46 47 48 48 48 48 48 48 48 48 48 48	APR  39 40 34 31 36 32 29 28 32 30 31 34 33 33 26 32 30 37 38	MAY  36 340 340 340 77  65 88 88 88 50  65 50 60  42 42 42 35 38 40 45 48 65 55 48	24 24 24 25 24 25 24 25 24 39 33 34 35 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	200688 58286 22164 22405 66864 6898 55564 44564 42405 55555 44898	30 34 50 48 42 42 44 64 48 55 50 54 66 54 50 44 44 42 42 42 48 44 44 44 44 48 48 42 42 42 43 44 44 44 44 44 44 44 44 44 44 44 44	160 120 140 260 360 280 260 150 130 70 100 82 92 87 120 130 72 50 60 73 80 95 100 98 100 120 220
1 2 3 3 4 4 5 5 6 6 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	48 50 58 42 38 42 38 38 52 40 56 54 52 53 48 46 47 48 43 37 42 46 44	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53 53 40 44 45 43 41 36 37 47 43 41 49 40 49	46 50 50 39 30 46 110 140 50 46 48 44 	34 44 42 42 46 46 48 26 38 40 44 37 37 37 37 37 37 37 37 37 37 37 37 37	25 24 27 31 28 28 27 34 37 36 40 35 330 24 31 28 29 28 30 38 31 32 38 50 39 38 31 32 38 50 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38	34 32 31 37 14 35 44 43 31 56 36 40 46 36 49 42 42 43 30 36 36 49 42 42 43 46 46 47 48 48 48 48 48 48 48 48 48 48	APR  39 40 34 31 36 32 29 28 32 30 31 34 33 33 26 32 30 37 38	MAY  36 340 340 340 77  65 88 88 88 50 65 50 60 42 42 42 35 38 40 45 48 65 55 42 40 40 29	24 24 25 24 25 24 25 24 25 26 27 33 33 35 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	200688 58286 22164 22405 66864 689836 44555 44564 42405 55555 4489836	30 34 50 48 42 44 464 48 55 50 54 66 54 50 44 43 44 44 42 42 58 44 44 44 44 48 48 55 58 44 44 46 48 48 48 48 48 48 48 48 48 48 48 48 48	160 120 140 260 360 280 260 150 130 70 100 82 92 87 120 130 72 50 60 73 80 95 100 98 100 120 220 360
1 2 3 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	48 50 58 42 38  42 38 52 56 55 52 53 48 46 47 48 43 37 42 46	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53 53 40 40 44 45 45 41 36 37 47 43 41 49 49	46 50 50 39 30 46 110 140 50 46 48 44 	34 44 42 42 46 48 26 36 26 38 40 44 34 47 49 37 37 33 33 40 40 25 28 18 19 21 18	25 24 27 31 28 28 27 34 37 36 40 35 30 24 31 28 29 28 30 31 32 38 31 32 38 31 32 38 31 32 33 34 34 35 36 36 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	34 32 31 37 14 35 44 43 31 56 37 36 43 36 40 46 49 42 42 43 30 36 36 49 42 42 43 44 43 44 45 46 47 48 48 48 48 48 48 48 48 48 48	APR  39 40 34 31 36 32 29 28 32 30 31 34 33 33 26 32 30 37 38	MAY  36 340 340 340 77  65 80 88 88 50 65 50 60 42 42 42 35 38 40 45 48 65 55 42 40 40	24 24 25 24 25 24 24 39 33 34 35 34 35 36 37 37 37 38 38 38 39 38 38 38 38 38 38 38 38 38 38 38 38 38	200688 58286 22164 224405 66864 68983 4454 42405 55555 48983	30 34 50 48 42 42 44 64 64 65 55 50 66 54 50 66 54 42 42 42 43 44 44 44 44 44 44 44 44 44 44 44 46 47 48 48 48 48 48 48 48 48 48 48 48 48 48	160 120 140 260 360 280 260 160 150 130 70 100 82 92 87 120 130 72 50 60 73 80 95 100 120 220 360
1 2 3 3 4 4 5 5 6 6 7 8 9 10 11 12 13 14 15 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 MONTH	48 50 58 42 38 42 38 38 52 40 56 45 52 53 46 47 48 43 47 48 43 44 44	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53 53 40 40 44 45 41 36 37 47 47 49 40 49 49	46 50 50 39 30 46 110 140 50 46 48 44 	34 44 42 46 48 26 36 26 38 40 44 37 37 37 37 37 33 40 40 40 25 28 18 19 21 18 17	25 24 27 31 28 28 27 34 37 36 40 35 30 24 31 28 29 28 30 31 32 38 31 32 38 31 32 38 31 32 38 31 32 38 31 32 33 34 34 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	34 32 31 37 14 35 44 43 31 56 37 36 43 36 40 46 49 42 42 42 43 30 31 31 32 43 33 44 43 33 44 43 34 44 43 36 46 47 48 48 48 48 48 48 48 48 48 48	APR  39 40 34 31 36 32 29 28 32 30 31 34 33 33 26 32 30 37 38	MAY  36 340 340 340 77  65 88 88 88 50 65 50 60 42 42 42 35 38 40 45 48 65 55 42 40 40 29	24 24 25 24 25 24 25 24 25 26 27 33 33 35 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	200688 58286 22164 22405 66864 689836 44555 44564 42405 55555 4489836	30 34 50 48 42 44 464 48 55 50 54 66 54 50 44 43 44 44 42 42 58 44 44 44 44 48 48 55 58 44 44 46 48 48 48 48 48 48 48 48 48 48 48 48 48	160 120 140 260 360 280 260 150 130 70 100 82 92 87 120 130 72 50 60 73 80 95 100 98 100 120 220 360
1 2 3 3 4 4 5 5 6 6 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	48 50 58 42 38 42 38 38 52 40 56 54 52 53 48 46 47 48 43 37 42 46 44	45 120 1700 180 38 64 45 52 100 51 44 98 88 44 53 53 40 44 45 43 41 36 37 47 43 41 49 40 49	46 50 50 39 30 46 110 140 50 46 48 44 	34 44 42 42 46 46 48 26 38 40 44 37 37 37 37 37 37 37 37 37 37 37 37 37	25 24 27 31 28 28 27 34 37 36 40 35 330 24 31 28 29 28 30 38 31 32 38 50 39 38 31 32 38 50 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38	34 32 31 37 14 35 44 43 31 56 36 40 46 36 49 42 42 43 30 36 36 49 42 42 43 46 46 47 48 48 48 48 48 48 48 48 48 48	APR  39 40 34 31 36 32 29 28 32 30 31 34 33 33 26 32 30 37 38	MAY  36 340 340 340 77  65 88 88 88 50 65 50 60 42 42 42 35 38 40 45 48 65 55 42 40 40 29	24 24 25 24 25 24 25 24 25 26 27 33 33 35 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	200688 58286 22164 22405 66864 689836 44555 44564 42405 55555 4489836	30 34 50 48 42 44 464 48 55 50 54 66 54 50 44 43 44 44 42 42 58 44 44 44 44 48 48 55 58 44 44 46 48 48 48 48 48 48 48 48 48 48 48 48 48	160 120 140 260 360 280 260 150 130 70 100 82 92 87 120 130 72 50 60 73 80 95 100 98 100 120 220 360

## 292700090420000 BAYOU GRAND CAILLOU NEAR DULAC, LA (CE 76323)

LOCATION.--Lat 29°27'00", long 90°42'00", T.19 S., R.17 E., Terrebonne Parish, Hydrologic Unit 08090302, 4.0 mi (6.4 km) north of Dulac.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: October 1977 to current year. CHLORIDE: October 1974 to current year.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-CHLORIDE (water years 1975-76): Maximum daily, 18,000 mg/L Nov. 2, 1974; minimum daily, 14 mg/L Aug. 6, 1975.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

					01	NCE-DAILY						
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		36.0	30.0		23.0	23.0	27.0	30.0	28.0	36.0	30.0	
1	35.0	30.0	29.0		24.0	25.0	24.0	25.0	29.0	35.0	35.0	
2	34.0	33.0	33.0		20.0	26.0	25.0	24.0	27.0	35.0	30.0	
			33.0		25.0	20.0	27.0	27.0	29.0	33.0	1111	
4	32.0	30.0			21.0	21.0	28.0	28.0	28.0			
5		35.0	31.0		21.0	21.0	20.0	20.0	2000			
6	34.0		29.0		20.0	23.0	26.0	28.0	28.0	31.0		
7		5 7 7	25.0	30.0	21.0	26.0	28.0	29.0	30.0		33.0	
8		36.0	31.0		22.0	24.0	25.0	30.0			28.0	
9			28.0	35.0	20.0	21.0	28.0	28.0			27.0	
10	36.0	29.0	24.0	23.0	23.0	23.0	28.0	29.0			25.0	
11	33.0	23.0	22.0	29.0	21.0	20.0	24.0	28.0			25.0	
12	30.0	30.0	28.0	31.0	25.0	20.0	26.0	25.0			24.5	
13		33.0	29.0	23.0	24.0	23.0	27.0	28.0			27.0	
14		35.0	30.0	21.0	20.0	21.0	28.0	29.0			30.0	
15			29.0	23.0	23.0	25.0	29.0	30.0			33.0	
13			- /• 0									
16			35.0	22.0	26.0	21.0	29.0	33.0			30.0	
17		36.0	28.0	21.0	25.0	21.0	28.0	30.0	30.0		35.0	
18	20.0		35.0	25.0	21.0	20.0	27.0	33.0	29.0			
19	29.0		29.0	21.0	20.0	23.0	26.0	35.0				
20	26.0	35.0	33.0	24.0	20.0	26.0	24.0	35.0				
21	28.0	36.0	29.0	23.0	22.0	26.0	27.0					
	29.0	30.0	23.0	25.0	20.0	24.0	27.0			30.0		
22		30.0	30.0	27.0	26.0	27.0	28.0	35.0		29.0		
23	27.0	35.0	35.0	28.0	25.0	27.0	29.0	32.0	31.0	28.0		
24	29.0	35.0	24.0	28.0	23.0	23.0	27.0	36.0	33.0	27.0		
25	25.0		24.0	20.0	25.0	23.0	21.0	30.0	55.0	21.0		
26	29.0	29.0	23.0	20.0		20.0	24.0		30.0	27.0		
27	30.0		20.0	21.0		24.0	24.0			24.0		35.0
28	27.0			20.0		25.0	27.0		30.0	29.0		35.0
29	28.0	35.0				27.0	28.0		30.0	29.0		34.0
30	28.0	34.0				26.0	29.0		30.0	33.0		33.0
31	29.0					23.0				35.0		
MONTH			29.0		22.5	23,5	27.0	31.0				

MISSISSIPPI RIVER DELTA

### 292700090420000 BAYOU GRAND CAILLOU NEAR DULAC, LA (CE 76323) -- Continued

DISSOLVED CHLORIDE (CL), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	260	530		530	530	55	46	60	56	82	
	110	100	540		510	550	69	50	50	46	78	
2	120	100	540		500	520	49	54	55	41	80	
4	110	470	550		520	520	110	56	60	41	80	
5	110	480	540		460	520	48	58	46	40	75	
6	110	500	530		510	520	44	55	50	42	75	
7	120	500	540	70	510	75	55	66	56		85	
8	110	460	550	520	520	75	51	52			69	
9	110	500	550	530	530	75	51	52			71	
10	120	500	540	520	540	50	51	56			65	
11	110	350	550	540	540	50	51	60			66	
12	110	490	500	520	500	72		51			60	
13	110	60	540	530		52	40	57			70	
14		66	510	530	530	50	55	58			66	
15		500	510	520	520	52	62	88			79	
15		200	310	520	320	32						
16		500	520	72	520	50	52	65			65	
17		500	520	65	530	85	60	65	65		70	
18	96	500	580	55	510	65	58	65	50		68	
19	76	520	520	65	510	70	52	70			68	
20	120	490	570	63	500	60	50	60			66	
21	100	520	560	70	510	60	52	65			65	
22	88	530	510	70	500	70	55	65		40	62	
23	85	530	530	66	500	50	50	65		60	75	
24	90	530	530	76	510	80	52	70	46	90	110	
25	95	530	520	72	100	60	52	70	47	85	83	70
26	95	520	510	490		60	72	60	52	82	80	64
27	100	520	630	510		60	52	75		60		63
28		520	030	530		62	52		40	100		71
29	79 88	530		550		50	61		52	82		64
		540				58	58		42	80		66
30 31	110	540				52				80		
31	110					32						
MONTH	100	440	540		500	150	56	61			74	

### 292300090370000 BAYOU PETIT CAILLOU NEAR BOUDREAUX CANAL, NEAR DULAC, LA (CE 76303)

LOCATION.--Lat 29°23'00", long 90°37'00", T.19 S., R.18 E., Terrebonne Parish, Hydrologic Unit 08090302, 5.7 mi (9.2 km) east of Dulac.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 33.0°C June 3, July 4, 31, 1977; minimum daily, 3.5°C Jan. 20, 1977.
CHLORIDE: Maximum daily, 9,500 mg/L Nov. 1, 1974; minimum daily, 12 mg/L Aug. 2, 12, 1975.

EXTREMES FOR CURRENT YEAR. --CHLORIDE: Maximum daily, 7,800 mg/L Feb. 12; minimum daily, 16 mg/L Jan. 26.

TEMPERATURE	(DEG.	C)	OF	WATER,	WATER	YEAR	OCTOBER	1977	TO	SEPTEMBER	1978	
				Oi	VCF-DA	TIY						

					01	NCE-DAILY						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.0	24.0	18.0		8.0	16.5		27.0	24.0	32.0	28.0	28.0
2	30.5	24.0	21.0		9.0	15.0		28.0	27.0	33.0	29.0	29.0
3	27.0	22.0	21.0	10.0	9.0	16.0		26.0	27.0	32.0	29.0	29.0
4	25.0	21.0	22.0	10.0	8.0	17.0		26.0	28.0	35.0	30.0	28.0
5	26.0	22.0	22.0	11.0	9.0	17.0		25.0	27.0	35.0	32.0	28.0
6	26.0	22.0	15.0	16.5	9.0	18.0		25.0	27.0	35.0	29.0	29.0
7	25.0	22.0	15.0		7.0	18.0		25.0	27.0	32.0	29.0	29.0
8	25.0	21.5	15.0	16.0	8.0	15.0		26.0	27.0	32.0	28.0	28.0
9	25.0	22.0	15.0	12.0	10.0	15.5		25.0	30.0		30.0	28.0
10	25.0	18.0	10.0		9.0	16.0		25.0	27.5	32.5	28.0	27.0
11	23.5	18.5	11.0	10.5	13.0	17.0		25.0	29.0	32.0	28.0	27.5
12	22.0	18.0		8.0	15.0	17.0		25.0	29.5	31.0	30.0	28.0
13	22.0	18.0		9.0	13.0	17.0		26.0	30.0	31.0	28.0	28.0
14		19.0		8.0	12.0			26.0	30.0	31.0	28.0	29.0
15				8.5	11.0			25.0	31.0	32.0	28.0	29.0
16	22.0	20.0		8.0	11.0			25.0	31.0	32.0	29.0	29.0
17	22.0	19.0		9.0	12.0			25.0	31.0	31.0	29.0	29.0
18	23.0	22.0		8.0	13.0			26.0	31.0	32.0	30.0	29.0
19	23.0			8.0	11.0			26.0	31.0	31.0	31.0	27.0
20	24.0	0.55		6.0	8.0			26.0	31.0	30.5	31.0	27.0
21	25.0	21.0		6.0	11.0			26.0	30.0		31.0	27.0
22	25.0	21.0		6.0	14.0			26.0	31.0		31.0	27.0
23	23.0	22.0		6.0	14.0			26.0	30.0	34.0	31.0	27.0
24	23.5	22.0		12.0	14.0			26.0	30.0		31.0	27.0
25	23.0	19.0		11.0	9.0			26.0	30.0	28.0	31.0	27.0
26	24.0	19.0		11.0	17.0			26.0	32.0	28.0	29.0	27.0
27	23.0	20.0		11.0	17.0			26.0	34.0	28.0	29.0	26.5
28	24.0	19.5		10.5	16.0			26.0	32.0	28.0	30.0	26.0
29	24.0	20.0		9.5				26.0	32.0	27.0	27.0	26.0
30	23.0	19.0		9.0				26.0	32.0	28.0	28.0	26.0
31	23.0			8.0				27.0		27.0	28.0	
MONTH	24.5	20.5		9.5	11.5	12-		26.0	29.5	31.0	29.5	27.5

292300090370000 BAYOU PETIT CAILLOU NEAR BOUDREAUX CANAL, NEAR DULAC, LA (CE 76303) -- Continued

DISSOLVED CHLORIDE (CL), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1400	1800	320		800	610	990	2500	1300	1200	620	500
2	1400	1800	330		1300	600	1000	2600	450	1200	750	1700
3	480	1300	1300	1200	700	670	1100	1800	600	1200	1200	1700
4	760	1400	910	1300	1400	280	980	4900	400	1200	1100	1600
5	1200	1000	880	1300	1000	310	2800	5100	65 u	1200	1600	1600
		2002	22	75.0	1100	140	2600	5100	600	1200	1200	2200
6	1300	1000	770	750	1100		1400	2600	700	1200	1200	2300
7	2000	2000	820		1200	150		2300	600	1200	700	2400
8	1800	2100	960	480	900	160	1500	980	450	1200	760	1600
9	1400	800	1100	480	4100	1300	550		950	1600	1100	2300
10	1300	1100	1300	470	3900	1300	540	970	950	1000	1100	2300
11	780	720	1300	470	6400	970	1400	900	550	1600	1100	2100
12	1200	720		370	7800	1000	1500	1000	350	1600	1100	2200
13	1200	750		380	230	510	600	960	470	1700		1800
14	1200	1600		1000	230	490	520	940	2100	1800		2400
15				600	240	550	540	2000	2200	1400	720	1500
					1.2	000	520	2000	2100	2000	1200	1400
16	1000	4400		660	340	280	520	1900	2200	2000	1200	2000
17	900	4700		550	450	320	520		2900	2000	1100	2100
18	910	3300		190	470	100	880	1000		1100	910	2500
19	940			140	310	940	870	1100	2900		950	2800
20	970	3300		80	310	1400	860	2400	3000	880	950	2800
21	980	2100		480	260	1400	890	2400	2300		1000	3200
	1600	2100		500	180	720	2200	2400	2600		400	3200
22	4300	1700		480	180	680	2200	1300	2600	800	640	1500
23		1300		40	730	670	1500	1200	2300	540	1400	1700
24 25	4500 1900	2600		40	740	780	1600	1200	2500	1200	1400	1600
23	1900	2000									4600	1600
26	1700	2900		16	790	790	1300	1300	1800	950		
27	1900	2600		34	890	810	1400	1500	1400	320	4500	1500
28	1900	2100		31	1800	1200	1300	1600	1400	350	5200	1500
29	1900	600		27		1200	2400	1600	1500	800	4200	2800
30	1800	600		69		1200	2600	1200	1500	200	1700	2600
31	1700			58		1100		1400		500	490	
MONTH	1600	1900		440	1400	730	1300	1900	1500	1200	1500	2000
YEAR	MAX	7800	MIN	16	MEAN	1400						

#### 07381327 HOUMA NAVIGATION CANAL AT CROZIER, LA (CE 76343)

LOCATION.--Lat 29°32'22", long 90°42'16", in lot 15, T.8 S., R.17 E., Terrebonne Parish, Hydrologic Unit 08090302, on right bank of canal, 0.8 mi (1.3 km) east of Crozier.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--Water years 1966, 1975, October 1976 to current year.

PERIOD OF DAILY RECORD.-WATER TEMPERATURES: October 1976 to current year.
CHLORIDE: October 1974 to September 1975, October 1976 to current year.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-CHLORIDE (water year 1975): Maximum daily, 6,300 mg/L Nov. 2, 1974; minimum daily, 20 mg/L Aug. 11, 1975.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

	JAN 14.0 12.0	9.0 9.0 9.0	MAR 15.0 15.0	APR	MAY	JUN	JUL	AUG	SEP
19.0 19.0 19.0	14.U 12.0	9.0	15.0						
19.0 19.0	14.0	9.0							
19.0 19.0	12.0		15 0						
			15.0						
	12 0	9.0	14.0						
	15.0	10.0	14.0						
20.0	14.0	10.0	14.0						
17.0	14.0	10.0	14.0						
17.0	15.0	9.0	14.0						
18.0	12.0	9.0	15.0						
	12.0	9.0	14.0						
14.0	10.0	9.0	14.0						
14.0	10.0	10.0	15.0						
	10.0	10.0	14.0						
	12.0	10.0	19.0						
	12.0	10.0	19.0						
	12.0	11.0	19.0						
	10.0	12.0	19.0						
	9.0	11.0	18.0						
	8.0	11.0	19.0						
	7.0	11.0							
	7.0	11.0							
	7.0	10.0							
	7.0	10.0							
	8.0	11.0							
	9.0	12.0							
	9.0	13.0							
	9.0	13.0							
	10.0	15.0							
	10.0								
	10.0								
	10.0								
	10.5	10.5							
	20.0 17.0 17.0 17.0 18.0 16.0 14.0 14.0 14.0 10.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0

### 07381327 HOUMA NAVIGATION CANAL AT CROZIER, LA (CE 76343) -- Continued

DISSOLVED CHLORIDE (CL), MG/L, WATER YEAR OCTOBER 1977 TO SEPIEMBER 1978 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	36	38		27	43		33	19		47	
2	50	40	46		33	47		24	23		45	
3	39	90	50	40	30	33		27	26			
4	52	86	46	38	26	34		31	24			
5	79	45	45	34	26	52		37	31			
6	69	45	36	39	29	54		32	31			
7	7.1	53	48	40	27	57		37	25			
8	64	44	39	34	25	44		39	26			
9	60	74	51	27	9.4	40		42	28			
10	50	52	53	47	40	46		34	28			
11	49	62	59	44	29	43		34	32	59		
12	41	52	41	49	26	40		38	32	47		
13	40	62		47	36	50		33		40		
14	56	52		52	30	34		35				
15	68	60		41	28	34		40		56		
16	61	54		52	26	38		41		48		
17	70	46		50	24	46		38		46		
18	48	46		46	22	36		40		56		
19	42	28		97	30	33		32		53		
20	41	28		49	28			36		45		
21	39	32		45	28			34		42		
22	45	22		41	38			33		40		
23	41	28		39	41		36	33		47		
24	44	28		41	43		32	32		40		
25	35	47		39	38		41			45		
26	32	59		38	29		27			46		
27	42	51		42	31		30			54		
28	44	37		40	47		35			61		
29	55	48		35			34			61		
30	58	44		42			33			56		
31	48			38						47		
MONTH	51	48		44	30							

#### 292345090504500 LAKE DE CADE NEAR THERIOT, LA (CE 91905)

LOCATION.--Lat 29°23'45", long 90°50'45", in SW4NE4 sec.29, T.19 S., R.16 E., Terrebonne Parish, Hydrologic Unit 08090302, 7.3 mi (11.8 km) southwest of Theriot.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- January 1978 to September 1978.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS- PER 100 ML)	COLI- FORM+ FECAL+ 0.7 UM-MF (COLS./	HARD- NESS (MG/L AS CACO3)	HARD- NESS* NONCAR- BONATE (MG/L CACO3)
JAN 23	1250	870	7.6	50	85	11.6	50	2.1	K160	K28	130	64
FEB												
16 MAR	1255	639	7.5	70	90	10.8	30	2.4	<5	<5	94	40
16 APR	1220	656	7.8	50	210	8.7	79	1.7	4-	K20	110	50
19	1225	514	7.6	60	100	7.9	40	1.5		K200	120	53
MAY 23	1120	1050	8.1	20	15	8.0	35	2.1	K40	<5	170	90
JUN 20	1115	507	8.0	40	1.0							
JUL					10	8.4	35	2.7	K70	K28	120	32
14 AUG	1100	802	8.3	30	8	8.6	30	6.3	<5	<5	140	44
30	1240	3100	7.6	30	5	7.6	52	1.8	660	<5	450	360
SEP 12	1235	3750	7.8	30	10	8.0	96	1.0	K40	<5	460	380
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JAN	22	18	130	67	5.0	6.7	79	0	65	2.2	20	24.0
23 FEB	22					0.7		0		3.2	29	240
16 MAR	18	12	80	63	3.6	4.7	66	0	54	3,3	18	140
16 APR	21	13	86	62	3.6	5.7	73	0	60	1.9	26	140
19	25	13	58	51	2.3	4.7	82	0	67	3.3	32	95
YAM 23	31	23	150	64	5.0	8.0	100	0	82	1.3	53	250
JUN 20	28	12	55	49	22	3.9		0	87			
JUL							106			1.7	22	88
14 AUG	28	16	96	59	3.6	5.3	112	0	92	.9	28	170
30 SEP	47	81	660	75	14	28	107	0	88	4.3	160	1200
12	52	81	560	71	11	22	106	0	87	2.7	140	1100

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

## 292345090504500 LAKE DE CADE NEAR THERIOT, LA (CE 91905)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN; NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SULVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM. SUS- PENDED RECOV. (UG/L AS BE)
JAN												
23 FEB	230	<1.0	• 35	.03	.38	.67	.20	3	2	1	0	0
16 MAR	262	<1.0	• 35	.06	.41	.99	.21	3	2	1	0	0
16 APR	480	1.8	.64	.04	.68	.93	.45	4	2	2	0	0
19 MAY	145	<1.0	.68	.02	.70	.72	.15	2	1	1	10	0
23 JUN	22	<1.0	.01	.01	.02	.52	.03	1	1	0	0	0
20	5	<1.0	.00	.01	.01	.68	.10	5	0	5	0	0
14 AUG	15	<1.0	•00	.01	.01	.68	.09	3	0	3	0	0
30	8	<1.0	.00	.01	.01	.80	.08	2	1	1	10	10
SEP 12	15	<1.0	• 0 0	.01	.01	1.0	.06	2	1	1	10	0
DATE	BERYL- LIUM+ DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECGV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS- (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER+ DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD+ TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)
JAN 23	0	1	0	1	20	0	13	9	4	30	13	13
FFR	0	0	0	0	10	0	23	15	8	120	7	7
16 MAR												
16 APR	0	0	0	0	20	0	16	2	14	120	7	1
19 MAY	10	3	0	3	0	0	5	2	3	1300	6	4
23	0	0	0	0	0	2	4	2	2	10	3	3
20 JUL	0	1	0	1	10	0	5	2	3	60	6	5
14	0	1	1	0	10	0	4	2	2	40	5	3
30	0	0	0	0	0	0	4	3	1	170	0	0
SEP 12												

<sup>&</sup>lt; Actual value is known to be less than the value shown.

# 292345090504500 LAKE DE CADE NEAR THERIOT, LA (CE 91905)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAT	50L	AD. TO IS- RE LVED EF	RCURY OTAL ECOV- RABLE JG/L S HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCI DIS SOLV	ED ERA	EL,	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL DIS- SOLVE (UG/L AS NI	D TOTA	M, PEN AL TOT /L (UG	IV. SE IS- NI IUED D AL SO	UM, I IS- DLVED S	VANA- DIUM, DIS- GOLVED (UG/L AS V)	
JAN															
23.		0	. 0	.0		. 0	17	17		0	0	0	0		
FEB 16. MAR		0	.3	.3		.0	6	6		0	0	0	0		
16.		6	• 0	. (		• 0	17	17		0	1	1	0		
APR 19.		2	. 0	. (		. 0	7	6		1	0	0	0	4.0	
YAM 23.		0	.1	. 1		. 0	0	0		0	0	0	0		
JUN 20.		1					5	4		1	1	0	1	.6	
JUL 14.		2	.0	. (		. 0	4	4		0	0	0	0	4-	
AUG								1		0	1	0	1		
30, SEP	• • •	0	. 0	. (	)	• 0	1								
12.		0	. U		)	• 0	4	1		3	0	0	0		
DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV ERABLI (UG/L AS ZN	E SUI	IS- OF LVED G/L	RBON; RGANIC TOTAL IMG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHEN (UC	NULS	OIL AND REASE MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRING TOTAL (UG/L)	TOTA	DDD L TOTA	L
JAN 23	40	4	0	0	14	.00		2	0	. 0	.00	.00	0	.0 .0	00
FEB 16	40	3	0	10	8.8	.00		1	0	. 0	.00	.00	0	.0 .0	000
MAR 16	50	4	0	10	24	.00		0	0	. 0	.00	.00	0	.0 .0	000
APR 19	30	2	0	10	13	.00		2	0	. 0	.00	.00	0	.0 .0	000
MAY 23	10		0	10	9.3	.00		3	0	. 0	.00	.00	0	.0 .0	000
JUN						•00		3	0	.0	.00	.00	0	.0 .0	000
20 JUL	10		0	10	9.0										000
14 AUG	10		0	10	12	.00		2	0	. 0	.00				
30 SEP	10		0	10	13	• 0 0		2	0	. 0	.00	.00			000
12	10	1	0	0	13	.00		0	0	. 0	.00	.00	0	.0 .(	000

## 292345090504500 LAKE DE CADE NEAR THERIOT, LA (CE 91905)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE, TOTAL (UG/L)	DDT, TCTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN 23	.000	.000	+01	.000	.000	.000	• 0 0	.000	.000	.001	.00	.00
FEB 16	.000	.000	.01	.000	.000	.000	.00	.000	.000	.000	.00	.00
MAR 16	.000	.000	.00	.000	.000	.000	.00	.000	.000	.001	.00	.00
19 MAY	.000	.000	.01	.001	.000	.000	.00	.000	.000	.001	.00	.00
23 JUN	.000	.001	• 01	.001	.000	.013	• 0 0	.000	.000	.000	.00	.00
20	.000	.000	.02	.000	.000	.000	.00	.000	.000	.000	.00	.00
14 AUG	.000	.000	.02	.000	.000	.000	.00	.000	.000	.000	.00	.00
30 SEP	.000	.000	.01	.000	.000	.000	• 0 0	.000	.000	.001	.00	.00
12	.000	.000	.01	.000	.000	.000	.00	.000	.000	.000	.00	.00
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION* TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX. TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JAN	PARA- THION, TOTAL	TRI- THION, TOTAL	THION,	THANE	APHENE *	TRI- THION	TOTAL	TOTAL	TOTAL	TOTAL	PHYTO- PLANK- TON CHROMO FLUOROM	PHYTO- PLANK- TON CHROMO FLUOROM
JAN 23 FEB 16	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JAN 23 FEB 16 MAR 16	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JAN 23 FEB 16 MAR 16 APR	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION+ TOTAL (UG/L) .00	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L) 0.0	TRI- THION (UG/L)	TOTAL (UG/L)	.00	.00	.00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 3.93	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JAN 23 FEB 16 MAR 16 APR 19 MAY 23	PARA- THION. TOTAL (UG/L) .00	TRI- THION, TOTAL (UG/L)	**************************************	THANE TOTAL (UG/L) .00 .00	APHENE, TOTAL (UG/L) 0.0 0.0	TRI- THION (UG/L)	.00 .00	.00 .01	.00 .00	.00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 3.93 3.50 5.55	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .000 1.70 2.51
JAN 23 FEB 16 MAR 16 APR 19 MAY 23 JUN 20	PARA- THION, TOTAL (UG/L) .00 .00	TRI- THION, TOTAL (UG/L) .00 .00	THION, TOTAL (UG/L) .00 .00	THANE TOTAL (UG/L) .00 .00	0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00	TOTAL (UG/L)  .00 .00 .00	.00 .01 .01	.00 .00 .00	.00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 3.93 3.50 5.55	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .000 1.70 2.51 2.35
JAN 23 FEB 16 MAR 16 APR 19 MAY 23 JUN 20 JUL	PARA- THION, TOTAL (UG/L) .00 .00 .00	TRI- THION, TOTAL (UG/L) .00 .00 .00	THION, TOTAL (UG/L) .00 .00 .00	THANE TOTAL (UG/L) .00 .00 .00	0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00	TOTAL (UG/L)  .00  .00  .00  .00  .00	TOTAL (UG/L)  .00  .01  .01  .07  .05	.00 .00 .00	.00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 3.93 3.50 5.55 13.3	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .000 1.70 2.51 2.35
JAN 23 FEB 16 MAR 16 APR 19 MAY 23 JUN 20	PARA- THION, TOTAL (UG/L) .00 .00 .00 .00	TRI- THION, TOTAL (UG/L) .00 .00 .00	THION, TOTAL (UG/L) .00 .00 .00 .00	THANE TOTAL (UG/L) .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00	TOTAL (UG/L)  .00  .00  .00  .00  .00  .00	TOTAL (UG/L)  .00  .01  .01  .07  .05	.00 .00 .00 .00	.00 .00 .00 .00 .01 .03	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 3.93 3.50 5.55 13.3 14.7 56.4	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .000 1.70 2.51 2.35 .000

## 07381557 CHICOT PASS AT MYETTE POINT, NEAR CHARENTON, LA (CE 03750) (Formerly published as ATCHAFALAYA RIVER MAIN CHANNEL AT MYETTE POINT, NEAR CHARENTON)

LOCATION.--Lat 29°53'40", long 91°26'46", T.13 S., R.10 E., St. Mary Parish, Hydrologic Unit 08080101, at mile 95.4 (153.5 km), 5.0 mi (8.0 km) east of Charenton.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN+ DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
OCT 26	1400	411	8.0	20	10	8.4	23	.4			140	24
NOV 15	1310	403	7.9	20	80	9.2	66	1.4	1700	K10		34
DEC	1405	316									150	38
19 JAN			8.0	20	85	10.0	23	2.1	1400	280	110	26
26 FEB	0830	342	7.5	50	80	12.6	34	3.1	760		110	37
17	0930	326	7.4	30	82	12.4	25	5.1	94	86	85	24
17 APR	0905	378	7.8	50	140	9.2	29	.4	K260	K170		
20 MAY	1000	324	7.6	20	80	8.7	28	. 4	K140	K16	130	38
24	0900	324	7.3	40	140	6.8	45	.9	4000	<5	120	49
JUN 20	1315	604	7.9	20	90	7.3	33		1000	110	190	64
JUL 14	1240	499	8.1	30	70	7.5	15	1.3	K90	K16	170	55
AUG 30	1420	552	7.8	10	35	6.8	11	.8	15000	K47	170	58
SEP 12	1435	489	7.8	5	15	7.4	10	.2	K60	K28	170	54
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 26	38	11					126	0	110	2.0		25
NOV	39		-							2.0	45	25
15 DEC		12					136	0	110	2.7	45	34
19 JAN	29	8.3	18	26	•8	3.0	98	0	80	1.6	35	24
26 FEB	31	9.0	22	29	.9	3.1	94	0	77	4.8	42	31
17	21	7.8	17	30	.8	2.2	74	0	61	4.7	29	22
17 APR							97	0	80	2.5		
20	35	10	14	19	.5	3.1	110	0	90	4.4	36	19
24 JUN	19	17			4-	8.1	83	0	68	6.7		
20	50	15	56	39	1.8	4.1	150	0	120	3.0	75	78
JUL 14	45	14	31	28	1.0	3.5	140	0	110	1.8	61	41
AUG 30	45	15	39	32	1.3	4.2	141	0	120	3.6	66	62
SEP 12	45	14	32	29	1.1	3.6	142	0	120	3.6	72	34

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

## 07381557 CHICOT PASS AT MYETTE POINT, NEAR CHARENTON, LA (CE 03750)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS+ RESIDUE AT 105 DEG. C+ SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN:AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
OCT 26	166	<1.0	1.2	.01	1.2	1.1	•41	3	1	2	10	
NOV												10
15 DEC	402	<1.0	1.3	.01	1.3	.40	.45	4	2	2	0	0
19 JAN	67	<1.0	1.2	.03	1.2	.76	.41	3	2	1	0	0
26 FEB	190	<1.0	1.1	.04	1.1	1.5	.28	3	2	1	0	0
17	166	<1.0	.83	.04	.87	.19	.21	2	2	0	0	0
MAR 17	79	<1.0	.76	.02	.78	.84	.21	1	0	1	0	0
APR 20	164	<1.0	1.6	.01	1.6	.62	.20	2	1	1	0	0
MAY 24	258	<1.0	1.2	.05	1.2	1.8	.29	4	3	1	0	0
JUN 20	392	<1.0	1.4	.00	1.4	.50	.34	8	7	1	10	0
JUL 14	53	<1.0	1.4	.00	1.4	.77	.16	3	1	2	0	0
AUG	64											
30 SEP		<1.0	•99	.01	1.0	.99	.14	2	0	2	10	10
12	20	<1.0	•56	.01	.57	1.1	.14	2	0	2	0	0
DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER + SUS - PENDED RECOV - ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON. DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)
OCT			100									
26	0	<10	<10	0	0	0	10	8	2	30	<100	<99
15 DEC	0	0	0	0	12	0	16	14	2	60	9	9
19 JAN	0	0	0	0	40	0	13	10	3	60	14	14
26 FEB	0	1	0	1	20	0	11	5	6	40	6	6
17 MAR	0	1	0	1	10	0	11	7	4	30	8	8
17	0	0	0	0	0	0	5	3	2	200	3	3
APR 20	0	1	0	1	0	0	5	1	4	80	5	5
MAY 24	0	1	0	1	0	0	14	0	14	120	10	9
JUN 20	10	1	0	1	20	0	11	5	6	40	10	10
JUL 14	0	1	0	1	10	0	10	7	3	40	12	10
AUG												
30 SEP 12	0	0	0	0	0	1 0	6	3	3	20	4	4

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07381557 CHICOT PASS AT MYETTE POINT, NEAR CHARENTON, LA (CE 03750) -- Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOL (UG	D. S- VED	MERCUR TOTAL RECOV ERABL (UG/L	PEN REC E ERA (UG	S- DED MERC OV- DI BLE SOL /L (UC	CURY 1 (S- F LVED E	ICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL SUS- PENDEL RECOV- ERABLE (UG/L AS NI	NICKE DIS- SOLV	VED TO	LE- UM, TAL IG/L SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE	SELE NIUM D DIS SOLV	/ED	VANA- DIUM, DIS- SOLVE (UG/L AS V)	D
OCT 26.		1		. 0	. 0	. 0	<50	<4	9	1	0		0	0		
NOV										2	1		0	1		3
15 DEC	• •	0		. 0	. 0	. 0	13	1								
19.		0		, 0	. 0	. 0	20	1	8	2	0		0	0		, 4
JAN 26.		0		. 0	. 0	. 0	10		5	5	0		0	0	1.	, 0
FEB 17		0		9	.9	. 0	9		8	1	0		0	0	1.	. 0
MAR		0		.0	. 0	. 0	6		4	2	1		1	0		_
APR											0		0	0	1.	0
20.	• •	0	•	. 0	. 0	. 0	6		2	4						
24 JUN	• •	1		. 0	. 0	. 0	11		9	2	1		1	0		-
20.		0	,	. 0	. 0	. 0	10		5	5	0		0	0	1.	, 0
JUL 14.		2		. 1	.1	. 0	10		8	2	0		0	0		. 0
AUG 30.		0		. 0	. 0	. 0	2		2	0	1		0	1		.7
SEP											0		0	0		. 0
12.	• •	2		. 0	.0	. 0	4		1	3	U		U	U	1.	. 0
DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	REC ERA	NC, JS- NDED COV- ABLE G/L ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)		L PH	ENOLS UG/L)	OIL AND GREASE (MG/L)	PCB+ TOTAL (UG/L	CHI TO	NES,	ALDRIN, TOTAL (UG/L)	CHLI DANI TOT	E .	DDD+ TOTAL (UG/L)
ОСТ	20		1.0	10	7.6		00	2			0	.00	.000		.0	.000
26	20		10													.000
15 DEC	44		40	4	5.7		00	2	0		0	.00	.000		.0	
19	50		40	10	7.7		00	2	0	,	0	.00	.000		. 0	.000
JAN 26	40		30	10	7.9		00	4	0		0	.00	.000		• 0	.000
FEB 17	40		40	0	7.1		.00	1	0		0	.00	.000		.0	.000
MAR 17	20		10	10	5.3		00	0	0		0	.00	.000		. 0	.000
APR 20	30		10	20	8.0		00	2	0		0	.00	.000		. 0	.000
MAY	40		20	20	9.8		0.0	3	0			.00	.000		. 0	.000

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AUG 30...

SEP 12...

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<sup>10</sup> < Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

## 07381557 CHICOT PASS AT MYETTE POINT, NEAR CHARENTON, LA (CE 03750)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN* TOTAL (UG/L)	ENDRIN: TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
OCT 26	.000	.000	•30	.000	.000	.000	.00	.000	.001	.003	.00	00
NOV 15	.000	.000	.01	.003	.000	.001	.00	.000	.001	.000	.00	.00
DEC 19	.000	.000	.01	.003	.000	.000	.00	.000	.000	.000	.00	.00
JAN 26	.002	.002	• 02	.003	.000	.000	•00	.000	.000	.000	.00	.00
FEB 17	.001	.007	.01	.000	.000	.000	.00	.000	.000	.000	.00	.00
MAR 17	.000	.005	•01	.002	.000	.000	.00	.000	.000	.000	.00	.00
APR 20	.000	.002	• 02	-004	.000	.000	.00	.000	.001	.000	.00	.00
MAY 24	.000	.009	.01	.007	.000	.000	.00	.000	.002	.000	.00	.00
JUN 20	.000	.007	.01	.007	.000	.001	.00	.000	.002	.000	.00	.00
JUL 14	.000	.000	• 02	.006	.000	.000	.00	.000	.002	.002	.00	.00
AUG 30	.000	.000	.01	.004		.001	.00	.000	.001	.000	.00	.00
SEP 12	.000	.000										
												A
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 26	PARA- THION, TOTAL	TRI- THION, TOTAL	THION,	THANE	APHENE,	TRI- THION	TOTAL	TOTAL	TOTAL	TOTAL	PHYTO- PLANK- TON CHROMO FLUOROM	PHYTO- PLANK- TON CHROMO FLUOROM
OCT 26 NOV 15	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 26 NOV 15 DEC 19	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 26 NOV 15 DEC 19 JAN 26	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THÂNE TOTAL (UG/L)	APHENE, TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	.03	.02	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .400	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .032
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17	PARATHION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L) .00 .00	THÂNE TOTAL (UG/L) .00 .00	APHENE, TOTAL (UG/L) 0.0 0.0	TRI- THION (UG/L) .00 .00	TOTAL (UG/L) .00 .00	.03 .03	.02 .01	.00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .400	PHYTO- PLANK- TON CHROMO FLUGROM (UG/L) .032 .000
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17	PARA- THION- TOTAL (UG/L) .00 .00	TRI- THION, TOTAL (UG/L) .00 .00	THION, TOTAL (UG/L) .00 .00	THANE TOTAL (UG/L) .00 .00	O.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00	TOTAL (UG/L) .00 .00	.03 .03 .00	.02 .01 .01	.00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .400 1.70 .000	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .032 .000
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20	PARA- THION- TOTAL (UG/L) .00 .00	TRI- THION, TOTAL (UG/L) .00 .00	THION, TOTAL (UG/L) .00 .00 .00	THANE TOTAL (UG/L) .00 .00 .00	0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00	TOTAL (UG/L)  .00  .00  .00  .00	.03 .03 .00 .00	.02 .01 .01	.00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .400 1.70 .000 .000	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .032 .000 .000
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24	PARA- THION- TOTAL (UG/L)  .00  .00  .00  .00  .00	TRI- THION, TOTAL (UG/L) .00 .00 .00	.00 .00 .00 .00	THANE TOTAL (UG/L) .00 .00 .00	0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00	TOTAL (UG/L)  .00 .00 .00 .00 .00	.03 .03 .00 .00 .00	.02 .01 .01 .00 .01	.00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .400 1.70 .000 .000 1.23 2.76	PHYTO- PLANK- TON CHROMO FLUGROM (UG/L) .032 .000 .000
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN 20	PARA- THION, TOTAL (UG/L) .00 .00 .00 .00	TRI- THION, TOTAL (UG/L) .00 .00 .00 .00	.00 .00 .00 .00 .00	THANE TOTAL (UG/L) .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00 .00	.00 .00 .00 .00 .00	101AL (UG/L) .03 .03 .00 .00 .04 .05	.02 .01 .01 .00 .01	.00 .00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .400 1.70 .000 .000 1.23 2.76 2.97	PHYTO- PLANK- TON CHROMO FLUGROM (UG/L) .032 .000 .000 .000
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN 20 JUN 20 JUL 14	PARA- THION, TOTAL (UG/L) .00 .00 .00 .00 .00	TRI- THION, TOTAL (UG/L) .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00	THANE TOTAL (UG/L) .00 .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00 .00	TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00	TOTAL (UG/L)  .03 .00 .00 .00 .04 .05 .02	.02 .01 .01 .00 .01 .01	.00 .00 .00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .400 1.70 .000 .000 1.23 2.76 2.97 2.17	PHYTO- PLANK- TON CHROMO FLUDROM (UG/L) .032 .000 .000 .000
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN 20 JUN 20 JUL	PARA- THION- TOTAL (UG/L) .00 .00 .00 .00 .00	TRI- THION+ TOTAL (UG/L) .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00	THANE TOTAL (UG/L) .00 .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L)  .00  .00  .00  .00  .00  .00  .00  .	TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00 .00	TOTAL (UG/L)  .03 .03 .00 .00 .04 .05 .02 .04 .02	.02 .01 .01 .00 .01 .01 .01	.00 .00 .00 .00 .00 .00 .01 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .400 1.70 .000 .000 1.23 2.76 2.97 2.17 4.41	PHYTO- PLANK- TON CHROMO FLUGROM (UG/L) .032 .000 .000 .000 .000

#### 07381590 WAX LAKE OUTLET AT CALUMET, LA

LOCATION.--Lat 29°41'52", long 91°22'22", in lot 56, T.15 S., R.11 E., St. Mary Parish, Hydrologic Unit 08080101, at Southern Pacific Transportation Co. railroad bridge, 160 ft (50 m) downstream from State Highway 90, 0.4 mi (0.6 km) downstream from Bayou Teche, 0.5 mi (0.8 km) west of Calumet, and 9.8 mi (15.8 km) west of Morgan City.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--April 1973 to June 1975 (discharge measurements only), October 1976 to current year (elevations and discharge measurements only). Gage heights, May 1942 to September 1976 and discharge, 1942-46, 1949-55, and intermittently, 1957 to current year (collected in same vicinity) are in reports of Corps of Engineers, New Orleans district.

GAGE. -- Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS. -- Relief outlet for Atchafalaya basin; discharge and elevations are affected by tide at all stages.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4.89 ft (1.490 m) Aug. 29, minimum, 0.35 ft (0.107 m) Mar. 4.

DISCHARGE MEASUREMENTS MADE DURING YEAR

	Date	Discharge (ft <sup>3</sup> /s)	Da	ite	Discharge (ft <sup>3</sup> /s)		Date		ischarge (ft³/s)	Dat	e	Discharge (ft <sup>3</sup> /s)
Oct. Nov.	6, 1977 19 20 1	56,700 73,000 60,600 110,000 72,100	Mar. Apr.	15 15 20 3	64,400 153,000 137,000		May 18 May 31 June 14 June 21 July 6		125,000 139,000 105,000 79,100 54,800	Aug.	19 9 22 13	60,200 46,000 44,000 48,200
		ELE	EVATION,				OCTOBER 1977 ATIONS AT 0800		EPTEMBER 1978			
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4	3.32 2.66 1.09 2.24	2.07 2.88 2.09 1.29	2.41 2.63 2.61 2.51	2.86 2.32 2.21 2.34	2.23 2.28 2.28 2.34	1.56 1.48 1.11	3.38 3.61 3.89 4.03	3.85 3.60 4.23 3.71	4.46	2.19 2.45 2.35 2.41	2.30 2.04 1.87 1.64	2.02 1.84 1.97 1.91
5	2.30	1.43	2.65	2.26	2.48	.50	4.12	3,63		2.22	2.11	1.65
6 7 8 9	2.32 2.39 2.84 2.06 2.10	1.61 1.69 1.89 2.38	1.91 1.87 2.60 2.54 1.80	2.20 2.25 2.80 1.60 1.98	2.37 2.77 2.79 3.21 3.11	1.11 1.66 1.66 1.33 1.04	4.42 4.39 4.38 4.52 4.57	3.99 4.52 4.30 4.04 3.74	4.66	2.25 2.03 1.88 2.13 2.16	1.88 1.99 1.65 1.94	1.73 1.59 1.88 2.20 2.34
11 12 13	2.17 .83 1.28	1.10 1.54 1.37	2.49 2.73 2.93	2.16 2.59 1.96	3.15 3.26 3.76	1.99 1.77 2.43	4.85 4.51 4.54	3.85 3.90 3.80	3.74 3.50	1.93 2.01 1.84	1.77 2.05 2.01	2.42 2.70 2.44
14	1.83 1.76	1.82 2.60	3.44	1.45	2.65	1.98	4.45	3.41		1.85	2.27	2.59 1.85
16 17 18 19 20	1.33 1.84 2.03 1.93 1.80	2.45 2.27 2.06 2.20 2.34	3.16 3.34 2.81 2.90 2.99	1.72 1.69 1.65 2.25 1.55	2.36 2.01 2.05 1.49 1.73	1.02 1.15 1.13 1.27 1.67	4.49 4.53 4.69 4.41 4.05	3.78 3.78 4.41 4.11 4.13	3.20 3.25 3.14	2.11 2.02 2.27 2.64 2.45	1.96 1.99 2.20 2.11 1.97	1.71 2.02 2.21 2.02 2.12
21 22 23 24 25	1.74 1.79 2.05 2.12 1.96	2.38 2.32 2.18 2.09 2.17	2.44 2.49 2.84 2.89 2.98	1.94 2.01 2.21 2.78 2.98	1.61 .99 1.51 1.11 1.70	2.20 2.22 2.46 3.08 2.74	4.19 4.33 4.54 4.39 4.22	4.16 4.26 4.37 4.44 4.38	3.02 2.89 2.67	2.18 2.60 2.50 2.24 2.18	1.72 1.65 1.92 1.96 2.29	2.21 1.97 1.38 1.31 1.26
26 27 28 29 30 31	1.44 1.13 1.29 1.43 1.61	1.81 3.06 2.34 2.45 2.74	2.58 2.82 2.67 2.85 3.02 2.86	2.28 2.35 2.25 2.22 2.37 2.11	1.92 1.90 2.40	2.72 2.79 3.07 3.19 3.07 3.23	3.84 3.58 3.57 3.53 3.72	4.32 4.15 4.20 4.28 4.31 4.30	1.98 1.75 1.69 1.98	2.29 2.54 2.20 2.25 2.14 2.17	2.16 2.65 3.55 4.87 2.48 1.81	2.00 1.82 1.64 1.67 1.92
MEAN MAX MIN	1.89 3.32 .83	2.05 3.06 .76	2.71 3.44 1.80	2.16 2.98 1.45	2.28 3.76 .99	1.89 3.23 .37	4.21 4.85 3.38	4.05 4.52 3.41	4.66	2.64	2.15 4.87 1.64	1.95 2.70 1.26

NOTE.--Elevations for period Dec. 22 to Feb. 16 furnished by Corps of Engineers.

#### 07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

#### WATER-OUALITY RECORDS

PERIOD OF RECORD. -- Water years 1956, 1959-60, 1973 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

CDE-

REMARKS. -- Corps of Engineers station 03720. Samples are collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 33.0°C July 20, 1978; minimum daily, 2.5°C Feb. 10, 11, 1978.
CHLORIDE: Maximum daily, 150 mg/L June 13, 14, 1977; minimum daily, 9.1 mg/L Apr. 15, 1976.

EXTREMES FOR CURRENT YEAR.-WATER TEMPERATURES: Maximum daily 33.0°C July 20; minimum daily 2.5°C Feb. 10, 11.
CHLORIDE: Maximum daily, 89 mg/L Oct. 8; minimum daily, 15 mg/L Apr. 7, May 15.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEM	WATER	QUALITY DATA	WATER	YEAR	OCTOBER	1977	TO	SEPTEMBER	1978
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DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	UXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND; BIO- CHEM- ICAL; 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CACO3)
OCT	1250											
26	1350	408	7.9	5	15	8.3	34	•5			140	35
15 DEC	1250	392	7.9	20	70		43		680	K60	140	35
19 JAN	1355	286	8.0	20	80	9.8	22	3.0	1400	K150	100	20
11	1600	360	7.9	20	55	12.2	46				140	42
FEB 15	1400	250	7.2	55	85	12.5	11	1.9	860	88	90	31
MAR 15	1400	368	7.4	15	70	9.9	29	1.3		K160	120	39
APR 20	1400	321	7.7	25	55	6.8	23	1.2		K100	130	
MAY 03	1430	358	7.9	20	85	87.5						40
JUN						7.2	42		5600	270	160	55
14 JUL	0900	339	7.5	15	70	6.1	39	2.2	6400	K80	130	36
06 AUG	1000	579	7.8	5	45	6.4	19	.9	30	<5	180	64
09 SEP	1000	443	7.3	30	55		42		600	200	160	41
13	0900	484	6.7	15	15	6.9	220	.3	78		170	42
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SOUTUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
26	39	11	44				128	0	105	2.6	53	26
NOV 15	38	11	44		122	44	128	0	110	2.6	42	28
DEC 19	29	7.6	14	22	.6	2.7	98	0	80			
JAN 11	38	11	15	18						1.6	33	17
FEB 15	25				.6	3.0	120	0	98	2.4	39	22
MAR		6.8	12	22	.6	2.1	72	0	59	7.3	29	17
15 APR	34	9.3	25	30	1.0	2.8	99	0	81	6.3	41	33
20 MAY	36	9.5	12	16	.5	3.3	110	0	90	3.5	35	18
03 JUN	44	11	14	16	.5	3.7	128	0	105	2.6	43	25
14	34	11	16	21	.6	3.0	115	0	94	5.8	36	22
06	50	14	47	35	1.5	3.6	144	0	120	3.7	71	65
AUG 09	41	13	21	22	.7	3.7	140	0	110	11	53	28
SEP 13	43	14	31	28	1.1	3.6	150	0	120	48	71	31
V D14	17 Table 1						150		120	70		31

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

### 07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN; NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)	NITRO- GEN; NOZ+NO3 TOTAL (MG/L AS N)	NITRO- GEN:AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
OCT												
26	146	<1.0	1.2	.01	1.2	.80	.36	3	2	1	10	10
15	246	<1.0	1.2	.01	1.2	.44	.33	4	2	2	0	0
DEC 19	272	<1.0	1.1	.02	1.1	.52	.31	3	2	1	0	0
JAN												
11	121	<1.0	1 . 8	.04	1.8	.84	.21	2	1	1	0	0
15	230	<5.0	.83	.03	.86	.54	.25	3	2	1	. 0	0
MAR 15	92	<1.0	.85	.02	.87	1.3	.23	2	2	0	0	0
APR								3	2			0
20	163	<1.0	1.5	.01	1.5	.73	.15			1	0	
03	178	<1.0	1.8	.01	1.8	.74	.22	3	2	1	0	0
14	186	<1.0	1.1	.03	1.1	.40	.22	5	3	2	0	0
JUL 06	60	<1.0	.89	.01	.90	.89	.13	3	0	3	10	0
AUG									,	7	2.0	
09 SEP	65	<1.0	1.7	.01	1.7	.64	.12	3	1	2	10	9
13	25	<1.0	.54	.01	.55	.53	.09	2	0	2	10	10
DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS, (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER+ DIS- SOLVED (UG/L AS CU)	IRON; DIS- SOLVED (UG/L AS FE)	LEAD , TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD + SUS - PENDED RECOV - ERABLE (UG/L AS PB)
OCT 26	0	<10	< 10	0	16	0	10	6	4	20	< 100	<99
NOV 15	0	0	0	0	8	0	16	14	2	60	7	6
DEC												
19			0	0	60	0	1.4	13	1	110	10	10
JAN	0	0	0	0	60	0	14	13	1	110	10	10
11	0	0	0	0	60 20	0	14 14	13	1 5	110	10	9
11 FEB 15												
11 FEB 15	0	0	0	0	20	0	14	9	5	40	9	9
11 FEB 15 MAR 15	0 0	0 1 1	0 0	0 1 1	20 10 0	0 0	14 27 10	9 16 6	5 11 4	40 40 20	9 8 8	9 7 2
11 FEB 15 MAR 15 APR 20	0	0	0	0 1 1 3	20 10 0	0 0 0	14 27 10 24	9 16 6 17	5 11 4 7	40 40 20 90	9 8 8	9 7 2 12
11 FEB 15 MAR 15 APR 20 MAY 03	0 0	0 1 1	0 0	0 1 1	20 10 0	0 0	14 27 10	9 16 6	5 11 4	40 40 20	9 8 8 12	9 7 2 12
11 FEB 15 MAR 15 APR 20 MAY 03 JUN 14	0 0 0	0 1 1 5	0 0 0 2	0 1 1 3	20 10 0	0 0 0	14 27 10 24	9 16 6 17	5 11 4 7	40 40 20 90	9 8 8	9 7 2 12
11 FEB 15 MAR 15 APR 20 MAY 03 JUN 14	0 0 0 0	0 1 1 5	0 0 0 2 1	0 1 1 3	20 10 0 10	0 0 0	14 27 10 24	9 16 6 17 2	5 11 4 7 8	40 40 20 90 130	9 8 8 12	9 7 2 12
11 FEB 15 MAR 15 APR 20 MAY 03 JUN 14 JUL 06	0 0 0 0 0 0	0 1 1 5 1 2	0 0 0 2 1 1 1	0 1 1 3 0 1 2	20 10 0 10 0 15	0 0 0 0 0 0 0 0	14 27 10 24 10 23 25	9 16 6 17 2 7	5 11 4 7 8	40 40 20 90 130 40	9 8 8 12 10	9 7 2 12 10
11 FEB 15 MAR 15 APR 20 MAY 03 JUN 14 JUL 06	0 0 0 0 0 0 0	0 1 1 5 1	0 0 0 2 1 1	0 1 1 3 0	20 10 0 10 0	0 0 0 0 0 0	14 27 10 24 10 23	9 16 6 17 2	5 11 4 7 8 16 6	40 40 20 90 130 40	9 8 8 12 10 13	9 7 2 12 10 12 8

<sup>&</sup>lt; Actual value is known to be less than the value shown.

## 07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

DATE	LEAD+ DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY OIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM+ TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM+ DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
ост	,	.0	.0	. 0	<50	<49	1	0	0	0	
26	1	. 0	. 0	. 0	130	. 4 3					
15	1	.0	. 0	. 0	12	10	2	1	0	1	. 1
DEC											
19	0	- 0	. 0	. 0	19	16	3	0	0	0	.8
JAN							2	0	0	0	. 0
11	0	• 0	. 0	. 0	17	14	3	0	U	U	• 0
FEB		0	.0	.0	11	9	2	1	0	1	1.0
15 MAR	1	• 0	• 0	. 0	11	7	2	*			
15	6	. 0	. 0	. 0	6	2	4	1	1	0	1.0
APR	· ·		• •								
20	0	. 0	. 0	. 0	11	10	1	0	0	0	1.0
MAY						-		0	0	0	1.0
03	0	. 0	. 0	. 0	11	7	4	0	U	0	1.0
JUN	1	.1	.1	. 0	10	9	1	1	0	1	.2
14 JUL	1	• 1	. 1	. 0	10	,					
06	5	. 4	. 4	. 0	9	3	6	1	0	1	
AUG											-
09	4	. 0	. 0	. 0	10	6	4	1	0	1	.3
SEP									0	0	2.2
13	5	. 0	. 0	. 0	4	2	2	0	0	0	5.2

DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON * ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE (MG/L)	PCB+ TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALURIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD+ TOTAL (UG/L)
OCT 26	20	0	20	7.1	.00	2		. 0	.00	.000	. 0	.000
NOV	20	U	20	1 . 1	.00	_			• • •			
15	30	20	8	7.4	.00	2	0	. 0	.00	.000	. 0	.000
DEC 19	50	40	10	7.1	.00	2	0	. 0	.00	.000	.0	.000
JAN										10.2		
11	30	20	10	6.1	.00	0	0	. 0	.00	.000	. 0	.000
FE8 15	50	40	10	8.0	.00	2	0	. 0	.00	.000	.0	.000
MAR 15	30	20	10	7.7	.00	2	0	.0	.00	.000	.0	.000
APR	30											
20	30	20	10	8.2	.00	4	0	. 0	.00	.000	. 0	.000
MAY 03	30	20	10	7.0	.00	7	0	. 0	.00	.000	. 0	.000
JUN												15/4/5
14	40	20	20	6.6	.00	3	0	. 0	.00	.000	. 0	.000
JUL 06	30	10	20	8.0	.00	1	0	. 0	.00	.000	. 0	.000
AUG									0.0	222	0	001
09	20	0	20	6.3	• 0 0	3	0	. 0	.00	.000	• 0	.001
SEP 13	10	0	10	6.9	.00	0	0	. 0	.00	.000	• 0	.000

### 07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

												~
DATE	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
OCT	.000	.000	0.1	.000	.000	.000	.00	.000	.001	.000	.00	.00
26 NOV			•01									
15 DEC	.000	.000	.01	.003	.000	.002	.00	.000	.000	.001	.00	.00
19 JAN	.000	.000	•01	.003	.000	.000	.00	.000	.000	.000	.00	.00
11	.000	.000	•01	.002	.000	.000	.00	.000	.000	.000	.00	.00
FEB 15	.000	.004	.01	.002	.000	.000	.00	.000	.000	.000	.00	.00
MAR 15	.000	.000	•02	.000	.000	.000	.00	.000	.000	.000	.08	.00
APR 20	.000	.000	.01	.001	.000	.000	.00	.000	.000	.000	.00	.00
MAY 03	.000	.000	.00	.002	.000	.000	.00	.001	.000	.000	.00	.00
JUN 14	.001	.002	.01	.002	.002	.000	.00	.000	.000	.001	.00	.00
JUL 06	.000	.004	•01	.004	.000	.000	.00	.000	.000	.000	.00	.00
AUG 09	.000	.002	.03	.006	.001	.001	.00	.000	.002	.000	.00	.00
SEP												.00
13	.000	.000	• 01	.002		.000	.00	.000	.000	.000	.00	.00
	METHYL	METHYL									CHLOR-A PHYTO- PLANK-	CHLOR-B PHYTO- PLANK-
DATE	PARA- THION, TOTAL (UG/L)	TRI- THION, TCTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE + TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	TON CHROMO FLUOROM (UG/L)	TON CHROMO FLUOROM (UG/L)
DATE	PARA- THION, TOTAL	THION.	THION,	THANE TOTAL (UG/L)	APHENE .	TRI- THION	TOTAL	TOTAL	TOTAL (UG/L)	TOTAL	TON CHROMO FLUOROM	CHROMO FLUOROM
OCT 26	PARA- THION, TOTAL	THION.	THION,	THANE	APHENE .	TRI- THION	TOTAL	TOTAL	TOTAL	TOTAL	TON CHROMO FLUOROM	CHROMO FLUOROM
OCT 26 NOV 15	PARA- THION, TOTAL (UG/L)	THION. TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE + TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TON CHROMO FLUOROM (UG/L)	CHROMO FLUOROM (UG/L)
OCT 26 NOV 15 DEC	PARA- THION, TOTAL (UG/L)	THION. TCTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE + TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TON CHROMO FLUOROM (UG/L)	CHROMO FLUOROM (UG/L)
OCT 26 NOV 15 DEC 19 JAN 11	PARA- THION+ TOTAL (UG/L)	THION, TCTAL (UG/L) .00	THION+ TOTAL (UG/L) .00	THANE TOTAL (UG/L)	APHENE + TOTAL (UG/L) 0.0	TRI- THION (UG/L)	.00	.03	.02	.00	TON CHROMO FLUOROM (UG/L) 1.27 3.30	CHROMO FLUOROM (UG/L) •141 •000
OCT 26 NOV 15 DEC 19 JAN 11 FEB 15	PARA- THION+ TOTAL (UG/L)	.00 .00	**************************************	.00 .00	APHENE + TOTAL (UG/L) 0.0 0.0	TRI- THION (UG/L) .00 .00	.00 .00	.03 .03	.02 .02	.00 .01	TON CHROMO FLUOROM (UG/L)  1.27 3.30 .000	CHROMO FLUOROM (UG/L) -141 -000
OCT 26 NOV 15 DEC 19 JAN 11 FEB 15 MAR 15	PARA- THION, TOTAL (UG/L) .00 .00	.00 .00 .00	THION, TOTAL (UG/L) .00 .00	THANE TOTAL (UG/L) .00 .00	0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00	.00 .00 .00	.03 .03 .02	.02 .02 .01	.00 .01 .00	TON CHROMO FLUOROM (UG/L) 1.27 3.30 .000	CHROMO FLUGROM (UG/L) .141 .000 .000
OCT 26 NOV 15 DEC 19 JAN 11 FEB 15 MAR 15 APR 20	PARA- THION, TOTAL (UG/L) .00 .00 .00	.00 .00 .00	THION, TOTAL (UG/L) .00 .00 .00	.00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00	.00 .00 .00 .00	.03 .03 .02 .06	.02 .02 .01 .02	.00 .01 .00 .00	TON CHROMO FLUOROM (UG/L) 1.27 3.30 .000 .000	.141 .000 .000
OCT 26 NOV 15 DEC 19 JAN 11 FEB 15 MAR 15 APR 20 MAY 03	PARA- THION, TOTAL (UG/L) .00 .00 .00	.00 .00 .00 .00	THION, TOTAL (UG/L) .00 .00 .00 .00	.00 .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0	.00 .00 .00 .00	.00 .00 .00 .00	10TAL (UG/L) .03 .03 .02 .06 .04	.02 .02 .01 .02 .01	.00 .01 .00 .00	TON CHROMO FLUOROM (UG/L) 1.27 3.30 .000 .000 1.87 5.93	CHROMO FLUOROM (UG/L)  .141 .000 .000 .000 .000
OCT 26 NOV 15 DEC 19 JAN 11 FEB 15 MAR 15 APR 20 MAY 03 JUN 14	PARA- THION, TOTAL (UG/L)  .00 .00 .00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00 .00	.00 .00 .00 .00 .00	.03 .03 .02 .06 .04 .05	.02 .02 .01 .02 .01 .02	.00 .01 .00 .00 .00	TON CHROMO FLUOROM (UG/L)  1.27 3.30 .000 .000 1.87 5.93	CHROMO FLUOROM (UG/L)  .141 .000 .000 .000 .000
OCT 26 NOV 15 DEC 19 JAN 11 FEB 15 MAR 15 APR 20 MAY 03	PARA- THION, TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00	THION, TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00 .00	.00 .00 .00 .00 .00	10TAL (UG/L) .03 .03 .02 .06 .04 .05 .03	.02 .02 .01 .02 .01 .03 .01	.00 .01 .00 .00 .00	TON CHROMO FLUOROM (UG/L) 1.27 3.30 .000 .000 1.87 5.93 1.49 3.14	.141 .000 .000 .000 .000
OCT 26 NOV 15 DEC 19 JAN 11 FEB 15 MAR 20 MAY 03 JUN 14 JUL	PARA- THION, TOTAL (UG/L)  .00  .00  .00  .00  .00  .00  .00  .	.00 .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	.00 .00 .00 .00 .00 .00	TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00 .00	10TAL (UG/L) .03 .03 .02 .06 .04 .05 .03 .03	.02 .02 .01 .02 .01 .03 .01	.00 .01 .00 .00 .00 .00	TON CHROMO FLUOROM (UG/L)  1.27  3.30  .000  .000  1.87  5.93  1.49  3.14  4.66	CHROMO FLUOROM (UG/L)  .141 .000 .000 .000 .000 .000 .000
OCT 26 NOV 15 DEC 19 JAN 11 FEB 15 APR 20 MAY 03 JUN 14 JUL 06 AUG	PARA- THION, TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L)  .00  .00  .00  .00  .00  .00  .00  .	TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00 .00 .00	TOTAL (UG/L)  .03 .03 .02 .06 .04 .05 .03 .03 .05	.02 .02 .01 .02 .01 .03 .01 .00	.00 .01 .00 .00 .00 .00 .00	TON CHROMO FLUOROM (UG/L)  1.27 3.30 .000 .000 1.87 5.93 1.49 3.14 4.66 10.5	CHROMO FLUOROM (UG/L)  .141 .000 .000 .000 .000 .000 .000 .00

## 07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

TEMPERATURE	(DEG.	C)	OF	WATER.	WATER	YEAR	OCTOBER	1977	TO	SEPTEMBER	1978
					MCE-DA						

		TEM	PERATURE	(DEG. C)	OF WATER.	WATER YEAR	OCTOBER	1977 TO	SEPTEMBER	1978		
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.0	19.0	15.0		3.0	5.5	10.5		24.0	29.0	31.0	
	28.0	19.0	14.5		3.0	6.0			24.0	29.0	31.0	30.5
2	26.0	18.5	13.5		3.0	7.0	11.0		24.0	30.0	31.5	30.5
4	26.0	18.0	13.5		3.0	7.0	11.0	19.0	24.0	30.0	31.5	30.5
5	26.0	18.0	13.5		3.0	7.0	11.0	19.0	24.0	31.0	31.5	30.5
6	26.0	18.0	12.0	6.0	3.0	7.0	12.0	19.0	25.0	31.0		30.5
7	26.0	18.0		6.0	3.0	7.0	12.0		25.5	31.0	29.5	30.5
9	25.5	18.0	12.0	6.0	3.0	7.0	12.0	19.0	26.0	31.0	29.0	30.5
8	25.0	18.0	11.5	5.5	3.0	7.0	14.0	18.0	26.0	31.0	29.0	30.5
10	25.0	17.0	11.0	5.5	2.5	7.0		18.0	26.0	31.5	29.0	30.5
11	24.5	17.0	10.5	5.5	2.5	7.0	14.5	18.0	26.0	31.0	29.0	30.5
12	23.0	16.5	10.5	5.5	3.0	7.0	14.5	18.0	26.5	31.0	30.0	30.5
13	24.0	16.5	10.5	5.5	3.0	7.0	14.5	18.0	26.5	31.0	30.5	29.5
14	20.5	16.5	10.5	4.0	3.0	8.0	14.5	18.0	26.5	31.0	30.5	29.0
15	20.5	16.5	10.5	4.0	3.0	8.0		18.0	26.5	31.0	30.5	29.0
16	20.0	16.5	10.5	4.0	3.0			19.0	27.0	31.0	30.5	29.0
17	19.5	16.5		4.0	3.0			20.0	27.0	31.5	30.0	29.0
18	19.5	16.5		3.0	3.0			20.5	27.5	32.0	30.0	29.0
19	19.5	16.0		3.0	4.0			21.0	27.5	32.5	30.0	29.0
20	19.5	16.0		3.0	4.0			21.5	27.5	33.0	30.0	29.0
21	19.5	15.5		3.0	4.0			22.0	27.5	32.0	30.0	29.0
22	19.5	15.5		3.0	4.0			22.0	28.0	32.0	30.0	29.0
23	19.5	15.5			4.0			22.0	29.0	32.0	30.0	29.0
24	19.5	15.5		3.0	6.0			22.0	29.0	30.5	30.0	29.0
25	19.5	15.5		3.0	6.0			22.0	29.0		30.0	28.0
26	19.5	15.5		3.0	6.0			22.0	29.0	30.5	30.5	28.0
27	19.5	15.0		3.0	6.0			22.0	29.0	30.5	30.5	28.0
28	19.5	15.0		3.0	6.0			22.0	29.0	30.5	30.5	28.0
29	19.5	15.0		3.0		10.0		23.5	29.0	31.0	30.5	28.0
30	19.5	15.0		3.0		10.0		23.5	29.0	31.0	30.5	27.0
31	19.0			3.0		10.5		24.0		31.5	30.5	
MONTH	22.6	16.5		4.0	3.5			20.5	27.0	31.0	30.0	29.5
YEAR	MAX	33.0	MIN	2.5	MEAN	19.5						
		DIS	SOLVED C	HLORIDE (	CL), MG/L,	WATER YEAR	OCTOBER	1977 TO	SEPTEMBER	1978		
					0	NCE-DAILY						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	30	26		29	36	19		18	62	32	
2	26	32	32		26	32	24		20	64	32	48
3	26	35	40		29	28	30		20	61	36	44
4	34	31	27		33	26	18	18	18	69	42	48
5	4.5	34	En		22	4.0	20	22	1.0		2.2	17

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	30	26		29	36	19		18	62	32	
2	26	32	32		26	32	24		20	64	32	48
3	26	35	40		29	28	30		20	61	36	44
4	34	31	27		33	26	18	18	18	69	42	48
5	45	34	50		32	40	38	22	18	66	32	42
6	31	37	32	29	33	27	17	26	16	74		42
7	68	33		31	27	29	15		22	62	30	41
8	89	34	19	26	46	28	19	23	22	59	31	48
9	47	37	29	31	23	30	28	43	20	55	31	43
10	57	37	26	29	41	30	25	22		54	31	46
11	44	36	38	28	21	36	27	27		50	33	42
12	34	52	28	30		35		26	28	54	30	50
13	32	40	28	37	24	34	36	27	26	40	24	44
14	32	56	24	35	18	34	25	23	24	51	29	42
15	30	30	21	22	19	35		25	24	49	31	48
16	28	25	21	24	20			21	26	50	35	43
17	38	36		36	20			25	28	46	36	63
18	32	24		40	19			19	26	42	34	50
19	39	24		36	20			23	26	48	34	42
20	28	39		39	21			19	54	38	34	60
21	57	26		47	22			20	62	42	38	42
22	29	34		35	24			16	74	40	36 .	50
23	24	26			27			19	66	49	32	52
24	25	29		39	25			16	66	33	32	52
25	26	32		34	29			15	64		34	52
26	32	30		35	32			19	64	34	33	42
27	36	30		41				21	60	40	35	45
28	34	30		29	36			16	58	34	34	42
29	34	28		47		20		20	62	34	30	38
30	30	25		30				26	65	32	30	40
31	23			29		21		18		30	32	
момтн	37	33		34	27			22	38	49	33	46
YEAR	MAX	89	MIN	15	MEAN	35						

#### 07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA

LOCATION.--Lat 29°41'47", long 91°12'39", on line between lots 1 and 6, St. Mary Parish, Hydrologic Unit 08080101, at Southern Pacific Transportation Co. railroad bridge, 0.3 mi (0.5 km) downstream from State Highway 90, 0.3 mi (0.5 km) upstream from Bayou Boeuf, and 1.0 mi (1.6 km) southwest of Morgan City High School.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--April 1973 to September 1975 (discharge measurements only), October 1976 to current year (elevations and discharge measurements only). Gage heights, 1905 to December 1975 and discharge, intermittently, 1927 to December 1975 (collected in same vicinity) are in reports of Corps of Engineers, New Orleans district, and National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS. -- Discharge and elevations affected by tide at all stages.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4.61 ft (1.405 m) Aug. 29; minimum, 0.34 ft (0.104 m) Mar. 4.

DISCHARGE MEASUREMENTS MADE DURING YEAR

	Date	Discharge (ft <sup>3</sup> /s)		Date		scharge (ft <sup>3</sup> /s)	Date	е	Discharge (ft <sup>3</sup> /s)	Dat	e	Discharge (ft <sup>3</sup> /s)
Oct. Nov. Nov.	6, 1977 19 2 16 20	. 121,000 . 66,000 . 135,000		Jan. 11, 19 Feb. 15 Mar. 15 Apr. 13 Apr. 20	1	.81,000 93,300 .61,000	May June June	3 18 1 14 21	. 194,000 . 250,000 . 172,000	July Aug. Aug.	9, 22,	. 115,000 . 102,000 . 92,800
			ELEVAT	ION, IN FEE		ER YEAR OCT			BER 1978			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.06 2.41 .89 1.88 2.10	1.78 1.82 1.90 1.36	2.06 2.19 2.12 2.04 2.16	2.42 2.08 1.97 2.03 1.98	1.69 1.81 1.80 1.87 2.02	1.32 1.19 1.06 .39	1.74 1.79 2.02 2.10 2.21	3.39 3.21 3.71 3.33 3.22	3.82 3.95 4.00 4.00 3.97	1.73 2.21 2.10 2.21 2.15	2.18 1.96 1.83 1.57	1.97 1.92 1.98 1.86 1.64
6 7 8 9	2.03 2.11 2.55 1.92 1.88	1.43 1.43 1.60 2.13	1.57 1.49 2.07 2.08 1.48	1.91 1.96 2.37 1.36 1.68	1.90 2.17 2.21 2.66 2.55	.98 1.42 1.50 1.70	2.56 2.56 2.50 2.32 2.46	3.49 4.09 3.77 3.55 3.28	4.03 4.12 3.91 3.57 3.23	2.19 1.88 1.64 1.81 1.83	1.70 1.70 1.42 1.67	1.56 1.51 1.78 2.01 2.20
11 12 13 14 15	2.02 .65 1.05 1.56 1.69	.96 1.36 1.09 1.43 2.23	2.04 2.26 2.46 2.98 2.67	1.78 2.20 1.68 1.24 1.11	2.55 2.59 2.95 2.27 2.02	.49 .81 1.00 1.39 1.50	2.50 2.33 2.47 2.37 2.48	3.38 3.42 3.32 3.02 3.19	3.31 3.16 2.81 2.52 2.64	1.54 1.66 1.60 1.61 1.85	1.63 1.84 1.84 2.01 1.88	2.30 2.44 2.30 2.60 1.90
16 17 18 19 20	1.50 1.70 1.55 1.60	2.03 1.84 1.62 1.77	2.65 2.84 2.43 2.59 2.58	1.26 1.48 1.25 1.72 1.22	2.15 1.84 1.87 1.34 1.51	1.36 .53 .79 1.09 1.48	2.48 2.58 2.97 2.71 2.26	3.31 3.33 3.82 3.63 3.62	2.76 2.83 2.87 2.83 2.86	2.04 1.87 2.18 2.51 2.26	1.93 1.97 2.22 2.09 2.85	1.79 2.13 2.13 1.97 2.01
21 22 23 24 25	1.50 1.60  2.00 1.40	1.98 1.97 1.80 1.76	2.20 2.15 2.35 2.40 2.50	1.45 1.55 1.71 2.11 2.44	1.51 .86 1.33 .93 1.47	1.68 1.51 1.48 1.53 1.63	2.66 2.86 2.76 2.68 3.87	3.67 3.80 3.85 3.89 3.84	2.67 2.59 2.70 2.73 2.54	1.97 2.38 1.99 1.81 1.79	2.63 1.48 1.81 1.82 1.93	2.13 1.82 1.47 1.27 1.05
26 27 28 29 30 31	1.26 .99 1.12 1.23 1.40 1.55	1.49 2.59 1.97 2.06 2.25	2.17 2.46 2.28 2.33 2.68 2.49	1.98 1.97 1.76 1.67 1.74 1.64	1.67 1.60 2.14	1.32 1.36 1.46 1.60 1.60	3.48 3.27 3.19 3.17 3.31	3.74 3.59 3.65 3.69 3.77 3.78	2.06 2.06 2.05 1.98 1.89	1.99 2.18 1.94 2.04 2.01 2.10	2.06 2.46 3.32 4.46 2.50 1.89	1.93 1.94 1.65 1.71 2.00
MEAN MAX MIN	3.06	1.71 2.59 .62	2.28 2.98 1.48	1.77 2.44 1.11	1.90 2.95 .86	1.26 1.74 .39	2.62 3.87 1.74	3.56 4.09 3.02	3.02 4.12 1.89	1.97 2.51 1.54	2.07 4.46 1.42	1.90 2.60 1.05

NOTE. -- Elevations for periods Oct. 6-15, Oct. 16 to Nov. 2, Mar. 11 to Apr. 25, and July 2-5 furnished by Corps of Engineers.

#### 07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

#### WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1959, 1973 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

REMARKS.--Samples are collected by Corps of Engineers and analyzed by Geological Survey. Corps of Engineers station 03780.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 32.0°C July 28, 1977; minimum daily, 4.0°C Jan. 2-9, 10, 11, 1978.
CHLORIDE: Maximum daily, 160 mg/L June 14, 15, 16, 1977; minimum daily, 11 mg/L Jan. 6, May 11, 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM9 TOTAL9 IMMED. (COLS. PER 100 ML)	COLI- FORM* FECAL* 0.7 UM-MF (COLS*/ 100 ML)
OCT	1240	417	7.8		5		8.2	35	. 4		
26	1340							50		K800	
15 DEC	1240	395	7.9		15	65					
19 JAN	1340	292	8.0		20	80	9.8	25	1.9	500	K300
11 FEB	1030	243	8.0	5.0	25	55	9.8	47			
15	1000	260	8.2	5.0	55	80	12.2	19	2.4	K320	K60
MAR 15	1030	374	7.5	8.5	15	70	9.6	31	1.1	K220	160
APR 20	1000	320	7.5	18.0	30	60	7.2	23	2.2		
MAY 03	0800	339	7.6	20.0	30	80	7.9	44	.9	2400	2200
JUN 14	1300	341	7.4	32.0	5	70	7.3	51	4.5	15000	<5
JUL 06	1400	590	7.8	30.0	10	45	6.7	21	.3	K100	K60
AUG	1400	446	7.8	29.0	10	45		36		K700	K30
SEP					5	15	7.0	18	1.0		4400
13	1130	469	7.2	28.0	2	.15	7.0	10	1.00		.,,00
DATE	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS; NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM. DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)
OCT 26		140	34	38	11					130	0
NOV 15		140	34	37	11					129	0
DEC		110	28	30	7.8	15	23	.6	2.8	100	0
19 JAN			44	37	11	16	20	.6	3.0	117	0
FEB		140					24	.6	2.3	80	0
15 MAR	250	94	28	26	7.1	14					
15 APR		120	39	32	9.1	25	31	1.0	3.8	99	0
20 MAY		130	41	35	9.4	13	18	.5	3.4	108	0
03		140	38	39	11	13	16	.5	3.4	124	0
14	2200	140	43	36	11	16	20	. 6	2.9	118	0
JUL 06	K80	190	72	50	15	46	34	1.5	3.4	140	0
AUG 09	50	170	66	44	14	23	23	.8	3.7	124	0
SEP		170	51	47	13	32	28	1.1	3.6	146	0

MISSISSIPPI RIVER DELTA
07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN; NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)	NITRO- GEN; NOZ+NO3 TOTAL (MG/L AS N)	NITRO- GEN+ AMMONIA TOTAL (MG/L AS N)	NITRO- GEN; ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT 26	110	54	34		<1.0	. 25	.01	. 26			
NOV 15	106	40	32		<1.0	1.2	.01	1.2			
DEC	0.0	27	18		<1.0	1.1	.02	1.1			
19 JAN	82	34									
11	96	39	23		<1.0						
15 MAR	66	31	18	.1	<1.0	.82	.05	.87	.23	.41	.64
15	81	41	34	.1	<1.0	.85	.02	.87	.18	.92	1.1
APR 20	89	35	20	.1	<1.0	1.4	.04	1.4	.09	.63	.72
MAY 03	102	38	18		<1.0	1.7	.02	1.7			
JUN 14	97	36	27	.2	<1.0	1.3	.05	1.3	.08	.92	1.0
JUL 06	110	71	65	.2	<1.0	.95	.01	.96	.00	.76	.76
AUG 09	100	56	27	.2	<1.0	1.7	.02	1.7	.14	.68	.82
SEP 13	120	71	31		<1.0	.55	.01	.56	.02	•55	•57
DATE	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN+ TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM+ SUS- PENDED RECOV- ERABLE (UG/L AS BA)
OCT											
26		1.2			.20		5	1	1		
15 DEC		.34			.42		4	2	2		
19 JAN		.51			.32		5	1	1		
11		1.4			.21	.06	2	1	1		
15 MAR	.00	.64	1.5	6.7		•55	3	2	1	100	0
15 APR	.47	.63	2.0	8.7	.29	.10	2	2	0	100	100
20	.06	.66	2.1	9.4	.23	.02	3	2	1	200	100
MAY 03		.75			.21		4	3	1		
JUN 14	.25	.75	2.3	10	.24	.04	5	3	2	400	100
JUL 06	.19	.57	1.7	7.6	1.4	.05	4	2	2	200	0
AUG 09	.21	.61	2.5	11	.18	.08	4	2	2	400	300
SEP 13	.00	.57	1.1	4.9	.07		2	0	2		

MISSISSIPPI RIVER DELTA

## 07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

	DATE	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM. TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM. SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM+ DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM. TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	
	UCT											
	26		0	0	0	<10	<10	0	4		0	
	15 DEC		0	0	0	0	0	0	0		0	
	19		0	O	0	0	0	0	20		0	
	JAN 11	0	0	U	0	1	0	1	10	0	0	
	FEB 15	100	0	0	0	1	0	1	10	10	0	
	MAR 15	0	0	0	0	0	0	0	0	0	0	
	APR 20	100	0	0	0	8	5	3	0	0	0	
	MAY 03		10	10	0	2	2	0	0		0	
	JUN	700	10	10	0	1	0	1	10	0	0	
	14 JUL	300										
	06 AUG	200	10	10	0	3	1	2	10	0	0	
	09 SEP	80	1	0	1	1	0	1	50	0	0	
	13		0	0	0	3	3	0	10		0	
DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDED RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER+ DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD+ SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD. DIS- SOLVED (UG/L AS PB)
OCT 26				<10	<8	2			20	<100	<99	1
NOV				19	17	2			30	7	6	1
15 DEC									110	10	10	0
19 JAN				14	13	1			7			
11 FEB	2	2	0	14	9	5	4400	4400	50	9	9	0
15 MAR	0	0	0	20	14	6	6500	6500	40	8	8	0
15	1	1	0	16	7	9	3500	3500	30	19	15	4
APR 20	3	2	1	19	11	8	6100	6100	30	15	13	2
MAY 03				26	19	7			60	28	28	0
JUN 14	2	2	0	27	7	20	5900	5900	40	10	10	0
JUL 66			2	24	20	4	4500	4400	60	17	9	8
	4	2	~	C-7								
AUG							6400	6400	10	23	23	0
AUG 09 SEP 13	5	4	1	15 57	12	3		6400	10 30	23	23	0

MISSISSIPPI RIVER DELTA
07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

DATE	MANGA- NESE* TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE * SUS- PENDED RECOV * (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TUTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL* TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL * SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM; DIS- SOLVED (UG/L AS SE)
OCT 26				. 0	. 0	. 0	<50	<49	1	0	0	0
NOV 15				.1	.1	. 0	12	10	2	1	0	1
DEC 19				. 0	. 0	. 0	19	18	1	0	0	0
JAN 11	160	150	10	. 0	<b>a</b> 0	. 0	18	15	3	0	0	0
15	240	230	10	.9	. 9	. 0	12	9	3	0	0	0
15 APR	120	100	20	. 0	0	. 0	6	1	5	1	0	1
20 MAY	280	240	40	. 0	. 0	. 0	27	26	1	0	0	0
03				• 0	. 0	. 0	10	8	2	0	0	0
14 JUL	300	290	10	. 0	.0	. 0	10	8	2	0	0	0
06 AUG	230	230	0	.2	. 0	. 2	13	8	5	1	1	0
09 SEP	440	440	2	. 0	. 0	. 0	17	15	2	1	1	0
13				. 0	. 0	. 0	7	5	2	0	0	0
DATE	SILVER. TOTAL RECOV- EMABLE (UG/L AS AG)	SILVER+ SUS- PENDED RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON+ ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)
OCT	TOTAL RECOV- ERABLE (UG/L	SUS- PENDED RECOV- ERABLE (UG/L	DIS- SOLVED (UG/L	DIUM, DIS- SOLVED (UG/L	TOTAL RECOV- ERABLE (UG/L	PENDED RECOV- ERABLE (UG/L	DIS- SOLVED (UG/L	ORGANIC TOTAL (MG/L	ORGANIC DIS- SOLVED (MG/L	ORGANIC SUS- PENDED TOTAL (MG/L	TOTAL (MG/L	
OCT 26	TOTAL RECOV- ERABLE (UG/L AS AG)	SUS- PENDED RECOV- ERABLE (UG/L	DIS- SOLVED (UG/L AS AG)	DIUM, DIS- SOLVED (UG/L AS V)	TOTAL RECOV- ERABLE (UG/L AS ZN)	SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	DIS- SOLVED (UG/L AS ZN)	ORGANIC TOTAL (MG/L AS C)	ORGANIC DIS- SOLVED (MG/L AS C)	ORGANIC SUS- PENDED TOTAL (MG/L AS C)	TOTAL (MG/L AS CN)	(UG/L)
0CT 26	TOTAL RECOV- EMABLE (UG/L AS AG)	SUS- PENDED RECOV- ERABLE (UG/L	DIS- SOLVED (UG/L AS AG)	DIUM, DIS- SOLVED (UG/L AS V)	TOTAL RECOV- ERABLE (UG/L AS ZN)	SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	DIS- SOLVED (UG/L AS ZN)	ORGANIC TOTAL (MG/L AS C)	ORGANIC DIS- SOLVED (MG/L AS C)	ORGANIC SUS- PENDED TOTAL (MG/L AS C)	TOTAL (MG/L AS CN)	(UG/L)
OCT 26 NOV 15 DEC 19 JAN 11	TOTAL RECOV- EHABLE (UG/L AS AG)	SUS- PENDED RECOV- ERABLE (UG/L AS AG)	DIS- SOLVED (UG/L AS AG)	DIUM, DIS- SOLVED (UG/L AS V)	TOTAL RECOV- ERABLE (UG/L AS ZN)	SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	DIS- SOLVED (UG/L AS ZN)	ORGANIC TOTAL (MG/L AS C)	ORGANIC DIS- SOLVED (MG/L AS C)	ORGANIC SUS- PENDED TOTAL (MG/L AS C)	TOTAL (MG/L AS CN)	(UG/L) 6 5
OCT 26 NOV 15 DEC 19 JAN 11 FEB 15	TOTAL RECOV- EKABLE (UG/L AS AG)	SUS- PENDED RECOV- ERABLE (UG/L AS AG)	DIS- SOLVED (UG/L AS AG)	DIUM, DIS- SOLVED (UG/L AS V)	TOTAL RECOV- ERABLE (UG/L AS ZN)	SUS- PENDED RECOV- ERABLE (UG/L AS ZN) 4	DIS- SOLVED (UG/L AS ZN) 6	ORGANIC TOTAL (MG/L AS C) 12 6.6 6.6	ORGANIC DIS- SOLVED (MG/L AS C)	ORGANIC SUS- PENDED TUTAL (MG/L AS C)	TOTAL (MG/L AS CN) .00	(UG/L) 6 5
OCT 26 NOV 15 DEC 19 JAN 11 FEB 15 MAR	TOTAL RECOV- EMABLE (UG/L AS AG)	SUS- PENDED RECOV- ERABLE (UG/L AS AG)	DIS- SOLVED (UG/L AS AG)	DIUM, DIS- SOLVED (UG/L AS V)	TOTAL RECOV- ERABLE (UG/L AS ZN) 10 30 40	SUS- PENDED RECOV- ERABLE (UG/L AS ZN) 4 20 40	DIS- SOLVED (UG/L AS ZN) 6 10	0RGANIC TOTAL (MG/L AS C) 12 6.6 6.6	ORGANIC DIS- SOLVED (MG/L AS C)	ORGANIC SUS- PENDED TUTAL (MG/L AS C)	TOTAL (MG/L AS CN) .00 .00	(UG/L) 6 5 0
OCT 26 NOV 15 DEC 19 JAN 11 FEB 15 MAR 15 APR 20	TOTAL RECOV- EKABLE (UG/L AS AG)	SUS- PENDED RECOV- ERABLE (UG/L AS AG)	OIS- SOLVED (UG/L AS AG)	DIUM, DIS- SOLVED (UG/L AS V)	TOTAL RECOV-ERABLE (UG/L AS ZN)	SUS- PENDED RECOV- ERABLE (UG/L AS ZN) 4 20 40 40	DIS- SOLVED (UG/L AS ZN) 6 10 0	ORGANIC TOTAL (MG/L AS C) 12 6.6 6.6 6.5 7.1	ORGANIC DIS- SOLVED (MG/L AS C)	ORGANIC SUS- PENDED TOTAL (MG/L AS C)	.00 .00 .00	(UG/L)  6  5  0  4
OCT 26 NOV 15 DEC 19 JAN 11 FEB 15 MAR 15 APR 20 MAY 03	TOTAL RECOV- EKABLE (UG/L A5 AG)	SUS- PENDED RECOV- ERABLE (UG/L AS AG)	OIS- SOLVED (UG/L AS AG)	DIUM, DIS- SOLVED (UG/L AS V)	TOTAL RECOV- ERABLE (UG/L AS ZN)  10 30 40 50 60	SUS- PENDED RECOV- ERABLE (UG/L AS ZN) 4 20 40 40	DIS- SOLVED (UG/L AS ZN) 6 10 0 10 20	ORGANIC TOTAL (MG/L AS C) 12 6.6 6.6 6.5 7.1 5.3	ORGANIC DIS- SOLVED (MG/L AS C)	ORGANIC SUS- PENDED TOTAL (MG/L AS C)	.00 .00 .00 .00	(UG/L)  6  5  0  4  0
OCT 26 NOV 15 DEC 19 JAN 11 FEB 15 MAR 15 APR 20 MAY 03 JUN 14	TOTAL RECOV- EKABLE (UG/L AS AG)  1 1 0	SUS- PENDED RECOV- ERABLE (UG/L AS AG)	015- SOL VED (UG/L AS AG)	DIUM, DIS- SOLVED (UG/L AS V)	TOTAL RECOV- ERABLE (UG/L AS ZN)  10 30 40 50 60 50	SUS-PENDED RECOV-ERABLE (UG/L AS ZN)  4 20 40 40 40 40 30	DIS- SOLVED (UG/L AS ZN) 6 10 0 10 20	0RGANIC TOTAL (MG/L AS C) 12 6.6 6.6 6.5 7.1 5.3 7.9	ORGANIC DIS- SOLVED (MG/L AS C)	ORGANIC SUS- PENDED TUTAL (MG/L AS C)	.00 .00 .00 .00 .00	(UG/L)  6 5 0 0 4 0 4 6
OCT 26 NOV 15 DEC 19 JAN 11 FEB 15 MAR 20 MAY 03 JUN 14	TOTAL RECOV- EKABLE (UG/L AS AG)   1  1  0	SUS- PENDED RECOV- EHABLE (UG/L AS AG)	015- SOL VED (UG/L AS AG)   0  0  1	DIUM, DIS- SOLVED (UG/L AS V)	TOTAL RECOV- ERABLE (UG/L AS ZN)  10 30 40 50 60 50 100	SUS- PENDED RECOV- ERABLE (UG/L AS ZN)  4  20  40  40  40  40  90	DIS- SOLVED (UG/L AS ZN) 6 10 20 10 20	ORGANIC TOTAL (MG/L AS C) 12 6.6 6.6 6.5 7.1 5.3 7.9	ORGANIC DIS- SOLVED (MG/L AS C)	ORGANIC SUS- PENDED TUTAL (MG/L AS C)	.00 .00 .00 .00 .00 .00	(UG/L)  6 5 0 0 4 0 4 6
OCT 26 NOV 15 DEC 19 JAN 11 FEB 15 MAR 15 APR 20 MOTHER 20 MAY 03 JUN 14 JUL	TOTAL RECOV- EKABLE (UG/L A5 AG)  1 1 0	PENDED RECOV- ERABLE (UG/L AS AG)  1 0 0	015- SOL VED (UG/L AS AG)   0  0  1  0	DIUM, DIS- SOLVED (UG/L AS V)	TOTAL RECOV- ERABLE (UG/L AS ZN)  10 30 40 50 60 50 100 40	SUS- PENDED RECOV- ERABLE (UG/L AS ZN)  4 20 40 40 40 40 20 20	DIS- SOLVED (UG/L AS ZN) 6 10 0 10 20 10 20	0RGANIC TOTAL (MG/L AS C) 12 6.6 6.6 6.5 7.1 5.3 7.9 7.1	ORGANIC DIS- SOLVED (MG/L AS C)	ORGANIC SUS- PENDED TOTAL (MG/L AS C)	.00 .00 .00 .00 .00 .00	(UG/L)  6 5 0 0 4 0 4 6

## 07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	OIL AND GREASE (MG/L)	PCB. TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE * TOTAL (UG/L)	DDD + TOTAL (UG/L)	DDE + TOTAL (UG/L)	DDT; TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO~ SULFAN* TOTAL (UG/L)	
OCT				222		0.00		0.00				
26 NOV	0	.0	.00	.000	• 0	.000	.000	.000	.00	.002	.000	
15	0	.0	.00	.000	.0	.000	.000	.000	.01	.003	.000	
DEC 19	0	. 0	.00	.000	. 0	.000	.000	.002	.01	.002	.000	
JAN 11	0	. 0	• 0 0	.000	. 0	.000	.000	.000	.01	.004	.000	
FEB 15	0	.0	.00	.000	. 0	.000	.002	.008	.01	.003	.000	
MAR												
15 APR	0	. 0	.00	.000	. 0	.000	.000	.000	.02	.003	.000	
20 MAY	0	• 0	.00	.000	. 0	.000	.000	.000	.01	.003	.000	
03	0	. 0	. 00	.000	. 0	.000	.000	.002	.02	.003	.000	
JUN 14	0	.0	.00	.000	. 0	.000	.000	.005	.01	.003	.000	
JUL				.000		.000	.000	.005		.005	.000	
06 AUG	0	. 0	.00	.000	. 0	.000	.000	,000	.01	.002	.000	
09 SEP	0	. 0	.00	.000	. 0	.000	.000	.001	.01	.005	.001	
13	0	. 0	.00	.000	. 0	.000	.000	.000	.02	.003		

DATE	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR; TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	
OCT 26	.000	.00	.000	.000	.000	.00	.00	.00	.00	.00	
NOV	.000								4.0		
15	.001	• 0 0	.000	.001	.000	.00	.00	.00	.00	.00	
DEC 19	.000	<b>*</b> 0 0	.000	.000	.000	• 0 0	.00	.00	• 0 0	.00	
JAN 11	.000	.00	.000	.000	.000	.00	.00	.00	.00	.00	
FEB 15	.000	• 0 0	.000	.000	.000	• 0 0	.00	.00	.00	.00	
MAR 15	.000	• 0 0	.000	.000	.000	.06	.00	.00	.00	.00	
APR 20	.000	.00	.000	.001	.000	.00	.00	.00	.00	.00	
MAY 03	.000	.00	.000	.000	.000	.00	.00	.00	.00	.00	
JUN 14	.000	• 0 0	.000	.001	.000	.00	.00	.00	.00	.00	
JUL 06	.000	• 0 0	.000	.000	.000	• 0 0	• 0 0	.00	• 0 0	• 0 0	
AUG 09	.000	.00	.000	.002	.000	.00	.00	.00	.00	.00	
SEP 13	.001	• 0 0	.000	.001	.000	.00	.00	.00	.00	.00	

DAY

MONTH

### MISSISSIPPI RIVER DELTA

## 07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978.

DATE	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-0, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	
OCT 26	.00	•00	0.0	.00	.00	.00	.00		1.64	.122	
NOV 15	•00	•00	0.0	.00	.02	.02	.00		3,67	2.33	
DEC 19	.00	.00	0.0	.00	.00	.00	.00		.000	.000	
JAN 11	.00	.00	0.0	.00	.05	.02	.00		.000	.000	
FEB 15	.00	•00	0.0	.00	.03	.01	.00		1.75	.000	
MAR 15	.00	.00	0.0	.00	.08	.03	.00	2500	1.80	.000	
APR			0.0		.05	.01	.00		1.94	.000	
20 MAY	.00	.00		.00							
03	.00	•00	0.0	.00	.08	•00	.01	5900	2.43	.000	
14 JUL	.00	• 0 0	0.0	•00	.04	.01	.00		5.30	•000	
06 AUG	.00	.00	0.0	.00	.04	.00	.00		21.6	.000	
09 SEP	.00	•00	0.0	.00	.01	.02	.00		6.61	.000	
13	.00	.00	0.0	.00	.02	.02	.00		.000	.000	
SPEC	IFIC COND	UCTANCE	(MICROMHOS		DEG. C)		EAR OCTOBE	R 1977 TO	) SEPTEMB	ER 1978	
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
							360 364	294 299	583 643		460 468
							366	315	607		503
							366	322	620		475
							367	321	594		463
							389	330	578		451
							387	332	579		461
							387 353	332 335	579 582		461 486
							387	332	579		461
						===	387 353 364 344	332 335 332 338	579 582 564 453	430	461 486 503 511
							387 353 364	332 335 332	579 582 564		461 486 503
						   310	387 353 364 344 351 355 342	332 335 332 338 341 342 338	579 582 564 453 468 428 428	430 449 484 406	461 486 503 511 498 503 493
						310 310	387 353 364 344 351 355 342 397	332 335 332 338 341 342 338 340	579 582 564 453 468 428 428 412	430 449 484 406 391	461 486 503 511 498 503 493 484
						310 310 314	387 353 364 344 351 355 342 397 320	332 335 338 341 342 338 340 331	579 582 564 453 468 428 428 412 406	430 449 484 406 391 383	461 486 503 511 498 503 493 484 477
						310 310 314	387 353 364 344 351 355 342 397 320	332 335 332 338 341 342 338 340 331	579 582 564 453 468 428 428 412 406	430 449 484 406 391 383	461 486 503 511 498 503 493 484 477
						310 310 314	387 353 364 344 351 355 342 397 320	332 335 338 341 342 338 340 331	579 582 564 453 468 428 412 406 443 452	430 449 484 406 391 383 420 428	461 486 503 511 498 503 493 484 477 481 480
						310 310 314 316 316 317	387 353 364 344 351 355 342 397 320 305 292 284	332 335 332 338 341 342 338 340 331 353 372 386	579 582 564 453 468 428 412 406 443 463	449 484 406 391 383 420 428 435	461 486 503 511 498 503 493 484 477 481 480 473
						310 310 314	387 353 364 344 351 355 342 397 320	332 335 338 341 342 338 340 331	579 582 564 453 468 428 412 406 443 452	430 449 484 406 391 383 420 428	461 486 503 511 498 503 493 484 477 481 480
						310 310 314 316 316 317 323	387 353 364 344 351 355 342 397 320 305 292 284 276	332 335 332 338 341 342 338 340 331 353 372 386 370	579 582 564 453 468 428 412 406 443 452 463 468	449 484 406 391 383 420 428 435 443	461 486 503 511 498 503 493 484 477 481 480 473 477
						310 310 314 316 317 323 325	387 353 364 344 351 355 342 397 320 305 292 284 276 286	332 335 332 338 341 342 338 340 331 353 372 386 370 508	579 582 564 453 468 428 412 406 443 463 468 480	449 484 406 391 383 420 428 435 443	461 486 503 511 498 503 493 484 477 481 480 473 473 473 473 473 475
						310 310 314 316 317 323 325 323 343 363	387 353 364 344 351 355 342 397 320 305 292 284 276 286 271	332 335 338 341 342 338 340 331 353 372 386 370 508	579 582 564 453 468 428 412 406 443 463 468 471 459 450	430 449 484 406 391 383 420 428 435 443 455	461 486 503 511 498 503 493 484 477 481 480 473 477 503
						310 310 314 316 317 323 325 323 343 363 355	387 353 364 344 351 355 342 397 320 305 292 284 276 286 282 276 271 270	332 335 332 338 341 342 338 331 353 372 386 370 508	579 582 564 453 468 428 412 406 452 463 468 480 471 459 446	449 484 406 391 383 420 428 435 443 455 443 443 426 423	461 486 503 511 498 503 493 484 477 481 480 473 477 503 488 475 509
						310 310 314 316 317 323 325 323 343 363	387 353 364 344 351 355 342 397 320 305 292 284 276 286 271	332 335 338 341 342 338 340 331 353 372 386 370 508	579 582 564 453 468 428 412 406 443 463 468 471 459 450	430 449 484 406 391 383 420 428 435 443 455	461 486 503 511 498 503 493 484 477 481 480 473 477 503
						310 310 314 316 317 323 325 323 343 363 355 352	387 353 364 344 351 355 342 397 320 305 292 284 276 286 271 270 270	332 335 332 338 341 342 338 331 353 372 386 370 508 552 578 570 559 551	579 582 463 468 428 428 406 452 463 452 463 450 450 450 450 450 450 450 450 450 450	449 484 406 391 383 420 428 435 443 455 443 426 423 431	461 486 503 511 498 503 493 484 477 481 480 473 477 503 488 475 508 486
						310 310 314 316 317 323 325 323 343 363 355 352	387 353 364 344 351 355 342 397 320 305 292 284 276 286 286 271 270 270 270 296	332 335 338 341 342 338 340 331 353 372 386 370 508 552 578 570 559 551	579 582 564 453 468 428 4212 406 443 452 463 468 471 459 450 446 456 458	430 449 484 406 391 383 420 428 435 443 455 443 443 443 443 443	461 486 503 511 498 503 493 484 477 481 480 473 477 503 488 475 509 508 486
						310 310 314 316 317 323 325 323 343 363 355 352 348 352 353	387 353 364 344 351 355 342 397 320 305 292 284 276 286 271 270 270 270 279	332 335 338 341 342 338 340 331 353 372 386 370 508 578 570 559 551	579 582 564 453 468 428 4106 4463 468 450 450 4466 458 450	430 449 484 406 391 383 420 428 435 443 455 443 455 443 426 423 431 442 437 426	461 486 503 511 498 503 484 477 481 480 473 477 503 488 475 509 508 486
						310 310 314 316 317 323 325 323 343 363 355 352	387 353 364 344 351 355 342 397 320 305 292 284 276 286 286 271 270 270 270 296	332 335 338 341 342 338 340 331 353 372 386 370 508 552 578 570 559 551	579 582 564 453 468 428 4212 406 443 452 463 468 471 459 450 446 456 458	430 449 484 406 391 383 420 428 435 443 455 443 443 443 443 443	461 486 503 511 498 503 493 484 477 481 480 473 477 503 488 475 509 508 486

### MISSISSIPPI RIVER DELTA

### 07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

		TEM	PERATURE	(DEG. C)		WATER YE		R 1977 TO	SEPTEMBE	R 1978		
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.5		15.0		5.5	8.5	12.0	18.0	24.0	28.5	29.0	28.5
2			14.0		5.5	8.5		19.0	24.0	28.5	29.5	29.0
3	25.0 24.0		14.0		5.5	8.5	12.0	19.0	24.5	29.0	29.5	29.0 28.5
5	24.5		15.0				13.5	18.0	25.0	29.5	29.5	28.5
6	23.5		13.5		4.5	8.0	13.5	18.0	25.0	29.5		28.5
7	24.0		13.0		4.5	10.0	13.5	19.0	25.0	29.5	29.5	28.0
8	23.0		13.0 12.5		4.5	8.5	13.5 15.0	19.0	25.5	30.0	29.5 28.0	27.0
10	22.0		12.5		4.0	8.0		19.0	27.0	29.0	29.0	27.0
11	23.0				4.0	8.0	16.0	19.5	25.0	29.0	29.0	27.0
12	23.0		10.0			10.0	15.5	20.0	20.0	29.5	29.5	27.5
13 14	20.0		11.0		5.0	10.0	15.5	20.0	26.0	29.0	29.0	27.5
15	21.0		9.5		5.0		15.5	21.0	26.5	27.5	27.5	27.0
16	20.0		10.0		5.5		15.5	21.5	20.5	28.5	28.5	27.0
17			10.0		6.0		17.5	21.5	26.0	28.5	28.5	27.0
18 19	19.0		10.0		6.0		18.5	22.0	26.5	28.5	28.5	27.5
20			10.0		6.0		18.5	22.5	27.0	29.0	29.0	27.5 27.5
21			9.5		6.0		19.0	23.0	27.0	28.5	28.5	27.5 27.5
22			8.5		6.0		18.5	22.0	27.5	28.0	28.0	27.5
23 24		16.0	9.0	6.0	7.0 7.0		19.0	22.0	27.5	28.5 28.5	28.5 28.5	27.5
25		16.0		5.5	7.0		19.0	22.0	28.0	28.0	28.0	26.5
26		16.0	9.0	5.0			18.5	22.0	28.0	29.0	29.0	27.0
27			9.0	5.0	8.0		18.0	22.0	28.5	29.5	29.5	27.5
28 29		15.0 15.0	9.0 8.5	5.0	9.0		19.0 17.5	22.0	28.5	28.5	28.5	27.0 27.0
30		15.0	8.0	5.0		12.0	19.5	23.0	28.5	28.0	28.0	27.0
31				5.0		12.0		23.5		28.5	28.5	
MONTH			11.0		5.5		16.5	20.5	26.5	29.0	29.0	27.5
		DIS	SOLVED CH	LORIDE (C		WATER YE		R 1977 TO	SEPTEMBE	R 1978		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	. AUG	SEP
1	39		26		22	38	23	19	30	64	34	42
2			40		19	32		22	17	68	27	38
3	28		27		20	35	23	32	17	71	32	47
5	32 27		27		25	27	18 19	25 22	17	76 80	33 41	46
6	29		28		22	31	19	18		72	32	38
7	29		23		23	30	17	18		72	34	36
8	33		24		23	28	20	28		63	32	44
10	36 33		19 24		18 18	26 41	19	36 42	21	57 60	44	46 45
11	38				28	31	23	44	21	58	38	42
12	29		20				19	46	22	52	25	43
13	26		25		26	32	18	24	24	50	23	40
14 15	27 27		21 27		26 30		20	27	23	46 50	29	51 52
16	31		21		24			26	22	47	28	42
17	54		28		27		19	45	23	44	32	40
18 19	30		20		27		20	21	25	39	32	51
20			20		28		20 20	22 19	23 53	42 42	30 30	52 57
21			19		29		26	20	58	42	32	53
22			38		27		24	18	65	36	32	51
23 24		50	25 28	30	25		25	20	73	32	30	43
25		43		23	25 26		25 22	18 16		32 49	30 29	51 58
26		31	48	26			23	18		39	27	45
27		27	31	31	36		23	14		38	30	40
28 29		37 26	25 24	27	34		22	14	76 68	38 30	30	40
30		24	18	53		20	21	18	80	34	27 27	40
31				30		22		16			34	

MONTH

### 07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

MAR. 15, 1978 1030 HOURS

PHYTOPLANKTON 2,500 CELLS/ML

PHYTOPLANKTON 2,500 CELLS/ML		
_ORGANISMNAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE CHLOROCOCCALES		
OOCYSTACEAE		
ANKISTRODESMUS	19	1
SCENEDESMACEAE	19	1
TETRASPORALES		
PALMELLACEAE	180	7
SPHAEROCYSTIS CHRYSOPHYTA	100	1
.BACILLARIOPHYCEAE		
CENTRALES COSCINODISCACEAE		
CYCLOTELLA	220	9
MELOSIRA	260	10
FRAGILARIACEAE		
ASTERIONELLA	75	3
SYNEDRA . NAVICULACEAE	28	1
NAVICULA	37	1
NITZSCHACEAE	9	0
NITZSCHIA SURIRELLACEAE	3	0
SURIRELLA	19	1
.CHRYSOPHYCEAE CHRYSOMONADALES		
OCHROMONADACEAE		
DINOBRYON CYANOPHYTA	37	1
CYANOPHYCEAE		
CHROCCOCCALES CHROCCOCCAEAE		
AGMENELLUM	150	6
EUGLENOPHYTA		
.EUGLENOPHYCEAE EUGLENALES		
EUGLENACEAE		
TRACHELOMONAS	19	1
MAY 3, 1978 0800 HOURS		
PHYTOPLANKTON 9,400 CELLS/ML		
_ORGANISMNAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
OOCYSTACEAE		
ANKISTRODESMUS	300	3
KIRCHNERIELLA SCENEDESMACEAE	150	2
SCENEDESMUS	300	3
CHRYSOPHYTA		
.BACILLARIOPHYCEAE CENTRALES		
COSCINODISCACEAE		
CYCLOTELLA MELOSIRA	300 910	3
PENNALES	910	10
NAVICULACEAE	700	
NAVICULA NITZSCHIACEAE	300	3
NITZSCHIA	150	2
SURIRELLACEAE	150	2
CYANOPHYTA	100	2
.CYANOPHYCEAE HORMOGONALES		
OSCILLATORIACEAE		
LYNGBYA	6,200	66
EUGLENOPHYTA	6,200	66
EUGLENOPHYTA .EUGLENOPHYCEAE EUGLENALES	6,200	66
EUGLENOPHYTA .EUGLENOPHYCEAE	6,200	66

### 293540091093000 BAYOU PENCHANT AT BAYOU CHENE, NEAR AMELIA, LA (CE 53100)

LOCATION.--Lat 29°35'40", long 91°09'30", in SWANWa sec.17, T.17 S., R.13 E., Terrebonne Parish, Hydrologic Unit 08090302, 7.9 mi (12.7 km) south-southeast of Morgan City, 5.9 mi (9.5 km) southwest of Amelia.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA: WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

			MAILH W	MLIII UMI	NA MUILK	ILAK OCIC	DEK TALL	IU SEFIE	JOEK TALO			
DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN+ DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	CULI- FURM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS. DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CACO3)
OCT	7255	3.1										
26	1335	297	8.0	20	8	7.0	17	2.5			100	13
15 DEC	1230	414	7.7	15	50	9.2	47	1 . 4	700	K80	140	33
19	1330	272	8.0	35	70	8.8	39	2.0	560	K150	91	12
23 FEB	1330	325	7.6	40	65	11.4	34	2.6	880	92	110	26
16	1340	258	7.6	30	80	11.0	19	2.2	2000	K320	93	22
16 APR	1310	306	7.9	20	80	10.3	39	3.7	220	130	110	30
19	1310	315	7.7	20	70	7.8	27	1.4	640	160	110	22
23 JUN	1210	415	7.6	15	120	6.3	34	1.3	K1600	K260	120	44
20 JUL	1215	482	7.6	30	45	7.6	43	3.1	K130	K36	130	29
14 AUG	1135	411	7.7	20	60	7.6	24	4.7	K50	<5	130	33
30	1330	1090	7.3	15	20	4.8	24	1.3	9800		210	110
12	1330	554	7.9	15	45	7.8	14	2.3	260	K40	160	47
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SULVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE; DIS- SOLVED (MG/L AS CL)
OCT							7.00					
26	28	8.0					106	0	87	1.7	20	22
15 DEC	37	12					131	0	107	4.2	39	28
19 JAN	24	7.6	17	28	. 8	3.4	96	0	79	1.5	23	22
23 FEB	27	9.5	21	29	.9	3.6	102	0	84	4.1	21	31
16	25	7.5	14	24	.6	3.3	87	0	71	3.5	21	20
16 APR	29	8.4	19	27	. 8	3.4	98	0	80	2.0	31	25
19	30	9.3	13	19	.5	3.4	107	0	88	3.4	33	16
23	30	11	33	37	1.3	3.7	93	0	76	3.7	33	54
JUN 20	33	11	21	26	.8	3.1	120	0	98	4.8	32	31
JUL 14	35	1.1	31	33	1.2	3.4	122	0	100	3.9	35	46
AUG 30	43	25	130	56	3.9	7.7	120	0	98	9.6	78	240
SEP 12	42	14	37	32	1.3	3.8	141	0	120	2.8	62	47

K Results based on colony count outside the acceptable range (non-ideal colony count).

## 293540091093000 BAYOU PENCHANT AT BAYOU CHENE, NEAR AMELIA, LA (CE 53100)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN; NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
OCT 26	95	<1.0	1.2	.01	1.2	.79	.25	3	1	2	10	10
15	118	<1.0	1.1	.01	1.1	.37	.21	3	1	2	0	0
DEC 19	95	<1.0	• 35	.03	.38	.51	.08	2	1	1	0	0
23	140	<1.0	.45	.02	.47	.59	.20	2	1	1	0	0
16	146	<1.0	.54	.02	•56	1.1	.17	3	2	1	0	0
16	137	<1.0	.24	.01	.25	.56	.23	3	0	3	0	0
APR 19	41	<1.0	1.5	.03	1.5	.65	.13	2	1	1	0	0
MAY 23	218	<1.0	.82	.01	.83	.65	.23	2	1	1	5	0
JUN 20	28	<1.0	.34	.00	.34	.67	.14	4	0	4	0	0
JUL 14	127	<1.0	.27	.01	.28	1.1	.14	4	1	3	0	0
AUG 30	40	<1.0	•53	.02	.55	.78	.09	2	0	2	0	0
SEP			.44		.45	.75	.16	3	1	2	0	0
12	11	<1.0	.44	.01	.45	.15	.10	3	1	2	U	U
DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)
ост	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
OCT 26	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
0CT 26 NOV 15 DEC	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD) <10	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM+ TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB) <100	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
0CT 26 NOV 15	LIUM. DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0	SUS-PENDED RECOV-ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU) 0	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE) 30 60	TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
OCT 26 NOV 15 DEC 19	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD) <10	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM+ TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU) 0 17 8	SUS- PENDED RECOV- ERABLE (UG/L AS CU) 0 15	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE) 30 60 110	TOTAL RECOV- ERABLE (UG/L AS PB) <100 5	SUS-PENDED RECOV-ERABLE (UG/L AS PB)
OCT 26 NOV 15 DEC 19 JAN 23 FEB 16	LIUM. DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0	SUS-PENDED RECOV-ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU) 0	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE) 30 60	TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
OCT 26 NOV 15 DEC 19 JAN 23 FEB 16	LIUM+ DIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0 2	SUS-PENDED RECOV-ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 4 12 0	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU) 0 17 8	SUS- PENDED RECOV- ERABLE (UG/L AS CU) 0 15	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE) 30 60 110	TOTAL RECOV- ERABLE (UG/L AS PB) <100 5	SUS-PENDED RECOV-ERABLE (UG/L AS PB)
OCT 26 NOV 15 DEC 19 JAN 23 FEB 16 MAR 16 APR 19	LIUM+ DIS- SOLVED (UG/L AS BE) 0 0	TOTAL RECOV- ERABLE (UG/L AS CD)  <10  0  2 0	SUS-PENDED RECOV-ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM+ TOTAL RECOV- ERABLE (UG/L AS CR) 4 12 0 10	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0	TOTAL RECOV- ERABLE (UG/L AS CU)  0  17  8  16  25	SUS- PENDED RECOV- ERABLE (UG/L AS CU)  0 15 5 13	DIS- SOLVED (UG/L AS CU) 4 2 3 3	OIS- SOLVED (UG/L AS FE) 30 60 110 60	TOTAL RECOV- ERABLE (UG/L AS PB) <100 5 6 6 5	SUS- PENDED RECOV- ERABLE (UG/L AS PB) <94 4 6
OCT 26 NOV 15 DEC 19 JAN 23 FEB 16 MAR 16 APR 19 APR 23	LIUM+ DIS- SOLVED (UG/L AS BE)  0 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0 0 2 0 2	SUS-PENDED RECOV- ERABLE (UG/L AS CD)  <10 0 0 0 0	DIS- SOLVED (UG/L AS CD) 0 0 0	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 4 12 0 10	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- PERABLE (UG/L AS CU)  0 17 8 16 25	SUS- PENDED RECOV- ERABLE (UG/L AS CU) 0 15 5 13 15	DIS- SOLVED (UG/L AS CU) 4 2 3 3 10	DIS- SOLVED (UG/L AS FE) 30 60 110 60 150	TOTAL RECOV- ERABLE (UG/L AS PB)  <100 5 6 6 5 5	SUS-PENDED RECOV-ERABLE (UG/L AS PB)
OCT 26 NOV 15 DEC 19 JAN 23 FEB 16 APR 16 APR 19 MAY 23 JUN 20	LIUM+ DIS- SOLVED (UG/L AS BE) 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0 0 2 0 2 5	SUS-PENDED RECOV-ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM+ TOTAL RECOV- ERABLE (UG/L AS CR) 4 12 0 10	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CU) 0 17 8 16 25	SUS- PENDED RECOV- ERABLE (UG/L AS CU) 0 15 5 13 15	DIS- SOLVED (UG/L AS CU) 4 2 3 10 8 2	DIS- SOLVED (UG/L AS FE) 30 60 110 60 150 70	TOTAL RECOV- ERABLE (UG/L AS PB)  <100 5 6 5 5 9	SUS-PENDED RECOV-ERABLE (UG/L AS PB)
OCT 26 NOV 15 DEC 19 JAN 23 FEB 16 MAR 16 APR 19 MAY 23 JUN	LIUM+ DIS- SOLVED (UG/L AS BE)  0 0 0 0 0 0 5	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0 0 2 0 2 5 0	SUS-PENDED RECOV-ERABLE (UG/L AS CD)  <10 0 0 0 0 0 0	DIS- SOLVED (UG/L AS CD) 0 0 0 2 0 2	MIUM+ TOTAL RECOV- ERABLE (UG/L AS CR) 4 12 0 10 10	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)  0 0 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CU)  0 17 8 16 25 9 4 11	SUS-PENDED RECOV-ERABLE (UG/L AS CU)  0 15 5 13 15 1 2 8	DIS- SOLVED (UG/L AS CU) 4 2 3 10 8 2	OIS- SOLVED (UG/L AS FE) 30 60 110 60 150 70 40	TOTAL RECOV- ERABLE (UG/L AS PB)  <100 5 6 6 5 9 7	SUS-PENDED RECOV-ERABLE (UG/L AS PB)  <94  4  6  5  3  9  7
OCT 26 NOV 15 DEC 19 JAN 23 FEB 16 APR 19 MAY 23 JUN 20 JUL 14 AUG	LIUM. DIS- SOLVED (UG/L AS BE)  0 0 0 0 0 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0 0 2 0 2 5 0 1	SUS-PENDED RECOV-ERABLE (UG/L AS CD)  <10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DIS- SOLVED (UG/L AS CD) 0 0 0 2 0 2 3	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 4 12 0 10 10 0	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)  0 0 0 0 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CU)  0 17 8 16 25 9 4 11 6	SUS-PENDED RECOV-ERABLE (UG/L AS CU)  0 15 5 13 15 1 2 8 4	DIS- SOLVED (UG/L AS CU) 4 2 3 3 10 8 2	DIS- SOLVED (UG/L AS FE) 30 60 110 60 150 70 40 40	TOTAL RECOV- ERABLE (UG/L AS PB)  <100 5 6 6 5 9 7 4	SUS-PENDED RECOV-ERABLE (UG/L AS PB)  <94  6 6 5 3 9 7 4
OCT 26 NOV 15 PEC 19 JAN 23 FEB 16 MAR 16 APR 19 MAY 23 JUN 20 JUL 14	LIUM+ DIS- SOLVED (UG/L AS BE)  0 0 0 0 0 0 0 0 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0 0 2 0 2 5 0 1 2	SUS-PENDED RECOV-ERABLE (UG/L AS CD)  <10 0 0 0 0 0 1	DIS- SOLVED (UG/L AS CD)  0 0 2 0 2 3 0 1	MIUM+ TOTAL RECOV- ERABLE (UG/L AS CR)  4 12 0 10 10 0 5	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)  0 0 0 0 0 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CU)  0 17 8 16 25 9 4 11 6 8	SUS-PENDED RECOV-ERABLE (UG/L AS CU)  0 15 5 13 15 1 2 8 4	DIS- SOLVED (UG/L AS CU)  4 2 3 10 8 2 3 2 4	DIS- SOLVED (UG/L AS FE) 30 60 110 60 150 70 40 40	TOTAL RECOVERABLE (UG/L AS PB)  <100 5 6 5 7 4 9	SUS-PENDED RECOV-ERABLE (UG/L AS PB)  <94  6  6  7  4  6  6  6  7  4  6  6  6  6  7  6  6  6  6  7  6  6  6

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

# 293540091093000 BAYOU PENCHANT AT BAYOU CHENE, NEAR AMELIA, LA (CE 53100)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM; SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	
OCT 26	6	.0	.0	• 0	<50	<49	1	0	0	0	1.3	
NOV	-											
15	1	• 0	. 0	. 0	10	7	3	1	0	1	. 0	
DEC					14	14	2	0	0	0	.0	
19	0	.0	.0	.0	16	14	2	U	0	U	. 0	
JAN 23	0	.0	.0	.0	13	13	0	0	0	0	.0	
FEB	· ·		••									
16	0	.7	.7	.0	7	4	3	1	0	1	1.0	
MAR					- 1						1 0	
16	2	.0	.0	.0	8	8	0	0	0	0	1.0	
APR	0	.0	.0	.0	4	4	0	0	0	0	.0	
19 MAY	0	.0	• 0	• •						- 7		
23	0	.1	.1	.0	9	9	0	0	0	0	1.0	
JUN												
20	0	.0	.0	.0	7	5	2	0	0	0	1.4	
JUL	~		.0	.0	10	7	3	0	0	0	.6	
14 AUG	3	.0	.0	• 0	10		3					
30	0	.0	.0	.0	2	2	0	0	0	0		
SEP												
12	0	.0	.0	.0	3	1	2	0	0	0	.0	

DATE	ZINC+ TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC+ SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON* ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES. POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD+ TOTAL (UG/L)
OCT 26	20	0	50	8.2	.00	2	0	.0	.00	.000	.0	.000
NOV	20	v	30	0.0	1,5.5.5	_						222
15	20	10	10	9.2	.00	4	0	. 0	.00	.000	. 0	.000
DEC									0.0	000	.0	.000
19	30	30	0	8.6	.00	0		.0	.00	.000	.0	.000
JAN	2.0	20	10	0.6	.00	2	0	.0	.00	.000	.0	.000
23	30	20	10	9.6	•00	_	· ·	• •	•••			
FEB 16	30	10	20	7.9	.00	1	0	.0	.00	.000	.0	.000
MAR	30											222
	30	20	10	8.7	.00	0	0	.0	.00	.000	.0	.000
APR					2.0	2	0	.0	.00	.000	.0	.000
19	20	10	10	5.4	.00	2	U	.0	.00	.000	••	.000
YAM 23	30	10	20	9.9	.00	2	0	.0	.00	.000	.0	.000
JUN	50	20	2.0	,.,								
20	20	10	10	8.7	.00	3	0	.0	_00	.000	. 0	.000
JUL									.00	000	.0	.000
14	20	10	10	12	.00	3	0	.0	.00	.000	• 0	.000
AUG	10	0	10	7.0	.00	2	0	.0	.00	.000	.0	.000
30 SEP	10	U	10		•00	-				.000		
12	10	10	0	8.6	.00	2	0	.0	.00	.000	. 0	.000

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

## 293540091093000 BAYOU PENCHANT AT BAYOU CHENE, NEAR AMELIA, LA (CE 53100)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE + TOTAL (UG/L)	DDT, TCTAL (UG/L)	UI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
OCT 26	.000	.000	• 0 0	.000	.000	.000	.00	.000	.000	.000	.00	.00
NOV 15	.000	.000	• 0 1	.004	.000	.002	.00	.000	.001	.001	.00	.00
DEC 19	.000	.000	.00	.000	.000	.000	.00	.000	.000	.000	.00	.00
JAN 23	.000	.002	.01	.002	.000	.000	.00	.000	.000	.000	.00	.00
FEB 16	.000	.000	.01	.000	.000	.000	.00	.000	.000	.000	.00	.00
MAR 16	.000	.000	.01	.000	.000	.000	.00	.000	.000	.001	.00	.00
APR 19	.000	.002	.02	.003	.000	.003	.00	.000	.001	.000	.00	.00
YAM 23	.000	.000	.01	.005	.000	.002	.00	.000	.001	.000	.00	.00
NUL 20	.000	.002	.01	.002	.000	.000	.00	.000	.000	.000	.00	. 00
JUL 14	.000	.000	.02	.001	.000	.000	.00	.000	.000	.006	.00	.00
AUG 30	.000	.000	• 02	.003	.000	.000	<b>.</b> 0 0	.000	.000	.001	.00	.00
SEP 12	.000	.000	.01	.002		.001	.00	.000	.000	.001	.00	.00
DATE	METHYL PARA- THION+ TOTAL (UG/L)	METHYL TRI- THION, TCTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TCX- APHENE * TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-0, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 26	.00	.00	• 0 0	.00	0.0	.00	.00	.02	.01	.00	7.10	.560
NOV 15	.00	.00	.00	.00	0.0	.00	.00	.02	.00	.00	6.73	.000
DEC 19	.00	.00	.00	.00	0.0	.00	.00	.00	.00	.00	5.90	.000
JAN 23	.00	.00	• 0 0	.00	0.0	.00	.00	.03	.01	.01	5.76	.000
FEB 16	.00	.00	• 0 0	.00	0.0	.00	.00	.05	.01	.00	4.58	.000
MAR 16	.00	.00	.00	.00	0.0	.00	.00	.11	.01	.00	2.76	.000
APR 19	.00	.00	.00	.00	0.0	.00	.00	.04	.00	.00	6.09	.000
YAM 23	.00	.00	.00	.00	0.0	.00	.00	.05	.02	.01	4.20	.000
NUL 20	.00	.00	.00	.00	0.0	.00	.00	.06	202	.06	64.7	.000
JUL 14	.00	.00	* 0 0	.00	0.0	.00	.00	.07	.01	.05	49.0	.000
AUG 30	.00	.00	• 0 0	.00	0.0	.00	.00	.00	.00	.00	9.78	.000
SEP 12	.00	.00	.00	.00	0.0	.00	.00	.08	.01	.05	21.7	.000

### 292215091231500 ATCHAFALAYA BAY AT EUGENE ISLAND, NEAR MORGAN CITY, LA (CE 88600)

LOCATION.--Lat 29°22'15", long 91°23'15", T.19 S., R.11 E., St. Mary Parish, Hydrologic Unit 08080108, 1.2 mi (1.9 km) northeast of Point Au Fer light, 25 mi (40 km) southwest of Morgan City.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1974 to current year.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

				SHEZII DAI	MAILE.	ILAN OUT	DEN ZIII	10 DEL IEI	IDEN 1710			
DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./	HARD- NESS (MG/L AS CACO3)	HARD- NESS; NONCAR- BONATE (MG/L CACO3)
OCT	1220	066	7.0	15		2.4						
26 NOV	1320	866	7.9	15	60	8.4	43	.8			180	78
DEC	1215	5180	8.0	10	55	9.4	290	1.8	900	110	620	510
19 JAN	1315	301	8.0	25	70	9.5	30	1.1	800	140	110	28
23 FEB	1305	403	7.7	20	60	12.0	21	1.1	880	110	130	38
16	1315	570	7.6	20	80	12.2	26	2.9	K340	52	120	61
MAR 16	1240	418	7.7	15	90	10.6	15	2.1	K1000	68	130	50
APR 19	1245	325	7.6	20	80	7.5	26	1.0	K1600	130	110	22
MAY 23	1150	298	7.6	40	100	6.7	25	.7	K1000	K72	110	33
JUN 20	1145	2260	8.1	20	50	7.7	30	1.1	1600	K52	300	200
JUL 14	1120	1380	8.0	20	35	7.6	10	1.4	440	K100	250	130
AUG												
30 SEP	1250	6210	7,5	20	10	5.2	85	2.1	6000	120	710	620
12	1315	17600	8.0	5	9	9.1	36	1.5	K20	K4	1900	1800
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 26	41	20					130	0	110	2.6	63	140
NOV 15	65	110					133	0	109	2.1	230	1500
DEC 19	29											
JAN		8.1	15	23	.6	2.9	100	0	82	1.6	39	21
23 FEB	34	12	24	27	.9	2.9	112	0	92	3.6	41	33
16 MAR	28	13	61	51	2.4	3.9	72	0	59	2.9	44	110
16 APR	33	11	33	35	1.3	3.1	97	0	80	3.1	42	49
19 MAY	29	9.1	14	21	.6	3.5	107	0	88	4.3	35	18
23	29	8.7	17	25	.7	3.1	92	0	75	3.7	31	24
JUN 20	47	45	330	69	8.3	15	124	0	100	1.6	100	570
14	51	30	170	59	4.7	8.6	142	0	120	2.3	97	290
AUG 30	71	130	1000	74	16	42	115	0	94	5.8	270	1900
SEP 12	150	370	3500	79	35	140	134	0	110	2.1	880	6200
											2.35	5557.77

K Results based on colony count outside the acceptable range (non-ideal colony count).

## 292215091231500 ATCHAFALAYA BAY AT EUGENE ISLAND, NEAR MORGAN CITY, LA (CE 88600)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN; NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)	NITRO- GEN; NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
OCT 26	16	<1.0	1.2	.01	1.2	.82	.27	3	1	2	0	0
NOV 15	142	<1.0	.97	.01	.98	.47	.24	3	2	1	0	0
DEC 19	13	<1.0	•99	.01	1.0	.42	.24	3	2	1	0	0
JAN 23	116	<1.0	1.3	.03	1.3	.52	.23	2	1	1	0	0
FEB 16	128	<1.0	•82	.03	.85	.67	.30	2	1	1	0	0
16 APR	134	<1.0	•85	• 02	.87	.60	•24	3	1	2	0	0
19 MAY	46	<1.0	1.6	.03	1.6	.76	.15	3	2	1.	0	0
23 JUN	42	<1.0	.86	.01	.87	.93	.16	2	1	1	5	0
20	4	<1.0	1.1	.01	1.1	.62	.13	5	0	5	0	0
14	29	<1.0	1.1	.01	1.1	.57	.08	3	1	2	10	0
30 SEP	12	<1.0	•15	.01	.16	.79	.08	2	1	1	10	10
12	21	<1.0	.23	.03	.26	.60	.08	2	1	1	0	0
	BERYL- LIUM,	CADMIUM TOTAL	CADMIUM SUS- PENDED	CADMIUM	CHRO- MIUM, TOTAL	CHRO- MIUM. HEXA-	COPPER.	COPPER, SUS- PENDED	COPPER,	IRON,	LEAD.	LEAD, SUS- PENDED
DATE	SOLVED (UG/L AS BE)	RECOV- ERABLE (UG/L AS CD)	RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	RECOV- ERABLE (UG/L AS CR)	VALENT, DIS. (UG/L AS CR)	RECOV- ERABLE (UG/L AS CU)	RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	RECOV- ERABLE (UG/L AS PB)	RECOV- ERABLE (UG/L AS PB)
OCT 26	SOLVED (UG/L	RECOV- ERABLE (UG/L	RECOV- ERABLE (UG/L	SOLVED (UG/L	RECOV- ERABLE (UG/L	VALENT, DIS. (UG/L	RECOV- ERABLE (UG/L	ERABLE (UG/L	DIS- SOLVED (UG/L	DIS- SOLVED (UG/L	RECOV- ERABLE (UG/L	RECOV- ERABLE (UG/L
OCT 26 NOV 15	(UG/L AS BE)	RECOV- ERABLE (UG/L AS CD)	RECOV- ERABLE (UG/L AS CD)	(UG/L AS CD)	RECOV- ERABLE (UG/L AS CR)	VALENT, DIS. (UG/L AS CR)	RECOV- ERABLE (UG/L AS CU)	ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	RECOV- ERABLE (UG/L AS PB)	RECOV- ERABLE (UG/L AS PB)
OCT 26 NOV 15 DEC 19	SOLVED (UG/L AS BE)	RECOV- ERABLE (UG/L AS CD)	RECOV- ERABLE (UG/L AS CD)	SOLVED (UG/L AS CD)	RECOV- ERABLE (UG/L AS CR)	VALENT, DIS. (UG/L AS CR)	RECOV- ERABLE (UG/L AS CU)	ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	RECOV- ERABLE (UG/L AS PB)	RECOV- ERABLE (UG/L AS PB)
OCT 26 NOV 15 DEC 19 JAN 23	SOLVED (UG/L AS BE)	RECOV- ERABLE (UG/L AS CD)	RECOV- ERABLE (UG/L AS CD)	SOLVED (UG/L AS CD)	RECOV- ERABLE (UG/L AS CR)	VALENT, DIS. (UG/L AS CR)	RECOV- ERABLE (UG/L AS CU)	ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	RECOV- ERABLE (UG/L AS PB) <100	RECOV- ERABLE (UG/L AS PB)
OCT 26 NOV 15 DEC 19 JAN 23 FEB 16	SOLVED (UG/L AS BE)	RECOV- ERABLE (UG/L AS CD) <10	RECOV- EHABLE (UG/L AS CD)	SOLVED (UG/L AS CD)	RECOV- ERABLE (UG/L AS CR)	VALENT, DIS. (UG/L AS CR)	RECOV- ERABLE (UG/L AS CU)	ERABLE (UG/L AS CU) 0 14	DIS- SOLVED (UG/L AS CU)	SOLVED (UG/L AS FE)	RECOV- ERABLE (UG/L AS PB) <100 8	RECOV- ERABLE (UG/L AS PB)
OCT 26 NOV 15 DEC 19 JAN 23 FEB 16 MAR 16	SOLVED (UG/L AS BE)	RECOV- ERABLE (UG/L AS CD) <10 1	RECOV- EHABLE (UG/L AS CD) <10 0	SOLVED (UG/L AS CD)	RECOV- ERABLE (UG/L AS CR) 5 4 0	VALENT, DIS- (UG/L AS CR) 0 0	RECOV- ERABLE (UG/L AS CU) 2 16 11	ERABLE (UG/L AS CU)  0  14  6	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE) 10 30 90 30	RECOV- ERABLE (UG/L AS PB) <100 8 6	RECOV- ERABLE (UG/L AS PB) <99 7 6
OCT 26 NOV 15 DEC 19 JAN 23 FEB 16 MAR 16 APR 19	SOLVED (UG/L AS BE) 0 0 0	RECOV- ERABLE (UG/L AS CD) <10 1 0	RECOV- EHABLE (UG/L AS CD) <10 0	SOLVED (UG/L AS CD)	RECOV- ERABLE (UG/L AS CR) 5 4 0 10	VALENT, DIS. (UG/L AS CR) 0 0	RECOV- ERABLE (UG/L AS CU) 2 16 11 10 25	ERABLE (UG/L AS CU)  0  14  6  8  18	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE) 10 30 90 30	RECOV- ERABLE (UG/L AS PB) <100 8 6 7	RECOV- ERABLE (UG/L AS PB) <99 7 6 7 4
OCT 26 NOV 15 DEC 19 JAN 23 FEB 16 MAR 16 APR 19 MAY 23	SOLVED (UG/L AS BE)	RECOV- ERABLE (UG/L AS CD)  <10  1  0  1	RECOV- EHABLE (UG/L AS CD)  <10  0  0  0  0	SOLVED (UG/L AS CD)  0 1 0 1 0 1	RECOV- ERABLE (UG/L AS CR) 5 4 0 10	VALENT, DIS. (UG/L AS CR) 0 0 0	RECOV- ERABLE (UG/L AS CU)  2  16  11  10  25	ERABLE (UG/L AS CU)  0  14  6  8  18	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE) 10 30 90 30 110	RECOV- ERABLE (UG/L AS PB) <100 8 6 7 4	RECOV- ERABLE (UG/L AS PB) 7 6 7 4
OCT 26 NOV 15 DEC 19 JAN 23 FEB 16 MAR 16 APR 19 MAY 23 JUN 20	SOLVED (UG/L AS BE)	RECOV- ERABLE (UG/L AS CD) <10 1 0 1	RECOV- EHABLE (UG/L AS CD) <10 0 0 0	SOLVED (UG/L AS CD)  0  1  0  1  1	RECOV- ERABLE (UG/L AS CR) 5 4 0 10 10	VALENT, DIS. (UG/L AS CR) 0 0 0	RECOV- ERABLE (UG/L AS CU) 2 16 11 10 25 8	ERABLE (UG/L AS CU)  0 14 6 8 18 2	DIS- SOLVED (UG/L AS CU) 2 2 5 2 7 6 2	DIS- SOLVED (UG/L AS FE) 10 30 90 30 110 90 60	RECOV- ERABLE (UG/L AS PB) <100 8 6 7 4 4	RECOV- ERABLE (UG/L AS PB) <99 7 6 7 4 0 6
OCT 26 NOV 15 DEC 19 JAN 23 FEB 16 MAR 16 APR 19 MAY 23 JUN 20 JUN 20 JUL 14	SOLVED (UG/L AS BE)	RECOV- ERABLE (UG/L AS CD)  <10  1  0  1  3 0	RECOV- EHABLE (UG/L AS CD)  <10  0  0  0  2  0	SOLVED (UG/L AS CD)  0  1  0  1  0  1  0	RECOV- ERABLE (UG/L AS CR) 5 4 0 10 10	VALENT, DIS. (UG/L AS CR)	RECOV- ERABLE (UG/L AS CU) 2 16 11 10 25 8 6	ERABLE (UG/L)  0  14  6  8  18  2  4	DIS- SOLVED (UG/L AS CU)  2  2  5  2  7  6  2  7	DIS- SOLVED (UG/L AS FE) 10 30 90 30 110 90 60 40	RECOV- ERABLE (UG/L AS PB) <100 8 6 7 4 4 6 5	RECOV- ERABLE (UG/L AS PB) <99 7 6 7 4 0 6 5
OCT 26 NOV 15 DEC 19 JAN 23 FEB 16 MAR 16 APR 19 MAY 23 JUN 20 JUL	SOLVED (UG/L AS BE) 0 0 0 0 0 0	RECOV- ERABLE (UG/L AS CD)  <10  1  0  1  3  0  1	RECOV- EHABLE (UG/L AS CD)  <10  0  0  0  2  0  0	SOLVED (UG/L AS CD)  0 1 0 1 0 1 1 0 1	RECOV- ERABLE (UG/L AS CR) 5 4 0 10 10 0 0	VALENT, DIS. (UG/L AS CR) 0 0 0 0 0	RECOV- ERABLE (UG/L AS CU)  2  16  11  10  25  8  6  8	ERABLE (UG/L AS CU)  0 14 6 8 18 2 4 1 5	DIS- SOLVED (UG/L AS CU)  2 2 5 2 7 6 2 7 3	DIS- SOLVED (UG/L AS FE) 10 30 90 30 110 90 60 40 60	RECOV- ERABLE (UG/L AS PB) <100 8 6 7 4 4 6 5	RECOVERABLE (UG/L AS PB)  7 6 7 4 0 6 5

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

# 292215091231500 ATCHAFALAYA BAY AT EUGENE ISLAND, NEAR MORGAN CITY, LA (CE 88600)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAT	SOI (U	AD, T IS- F LVED E G/L (	RCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	RECO	L P V- R LE E	CKEL, SUS- ENDED ECOV- RABLE UG/L S NI)	NICKEL DIS- SOLVE (UG/L AS NI	D TO	LE- S UM, PI TAL TO	ELE- IUA: SUS- ENDED DTAL UG/L S SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA DIUM DIS SOLV (UGA	4, 5- VED /L
OCT				0	.0		50	<49		1	0	0	0		2.3
NOV	••	1	• 0	.0	. 0		.50	147			v				
15.		1	.0	.0	. 0		12	10		2	0	0	0		
DEC 19.		0	.0	.0	.0		14	12		2	0	0	0		.6
JAN	•••	U	.0	.0	• •										
23.		0	.0	.0	.0		13	11		2	0	0	0		. 0
FEB 16.		0	1.1	1.1	.0		6	6		0	0	0	0		
MAR.	•••	U	1.1	1.1	• •		0	O							
16.		4	.0	.0	.0		9	7		2	9	0	9	10	1.0
APR		0	.0	.0	.0		4	3		1	0	0	0		.0
MAY	•••	U	• 0	.0	• •										
23.		0	.1	. 1	. (		9	9		0	0	0	0		. 0
NUC 0.5		0	.0	.0			8	7		1	0	0	0		
JUL.	•••	U													
14.		3	• 0	.0	. (		10	6		4	0	0	0		
AUG 30.		0	.0	.0	. (	ii.	3	3		0	0	0	0		
SEP															
12.	•••	0	.0	.0	• (		4	3		1	0	0	0		
ATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINCE SUS- PENDE RECOV ERABL (UG/L AS ZN	ED 21N /- D1 LE SOL	S- ORG	TAL T	ANIDE OTAL MG/L S CN)	PHENOL (UG/L	S A	IL ND EASE IG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES POLY CHLOR TOTAL (UG/L	· ALDR	IN, DA	HLOR-	DDD; TOTAL (UG/L
T 6	20	1	10	10	7.6	.00		5	0	.0	.0	0 .	000	.0	.01
V				2.0					2			0	000		
5 C	50		30	20	12	.00		4	2	• 0	.0	υ.	000	. 0	.00
_	- 0		20	1.0		0.0		^	0	0	0	0	000	0	0.1

DATE	RECOV- ERABLE (UG/L AS ZN)	RECOV- ERABLE (UG/L AS ZN)	DIS- SOLVED (UG/L AS ZN)	ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE; TOTAL (UG/L)	DDD, TOTAL (UG/L)
OCT									1.0			
26	20	10	10	7.6	.00	5	0	.0	.00	.000	. 0	.000
15 DEC	50	30	20	12	• 0 0	4	2	• 0	.00	.000	.0	.000
19	30	20	10	6.6	.00	0	0	. 0	.00	.000	. 0	.000
JAN												
23	30	20	10	6.0	.00	2	0	. 0	.00	.000	. 0	.000
FEB	25.0						127	2			•	
16	30	20	10	7.6	.00	1	0	. 0	.00	.000	. 0	.000
MAR									0.0	000	0	000
16	20	10	10	5.6	.00	0	0	• 0	.00	.000	. 0	.000
APR 19	20	10	10	6.5	.00	4	0	.0	.00	.000	.0	.000
MAY	20	10	10	0.5	.00			• •	• • •	.000	• •	.000
23	20	0	20	7.1	.00	3	0	.0	.00	.000	. 0	.000
JUN	1.5			3.53								
20	20	10	10	5.6	.00	3	0	. 0	.00	.000	. 0	.000
JUL												
14	20	0	20	4.6	.00	2	0	.0	.00	.000	. 0	.000
AUG	200		24.						0.0			
30	20	0	20	8.9	.00	2		. 0	.00	.000	. 0	.000
SEP	0.0			- 1					0.0		ń	222
12	20	0	20	5.6	.00	0	0	• 0	.00	.000	. 0	.000

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

## 292215091231500 ATCHAFALAYA BAY AT EUGENE ISLAND, NEAR MORGAN CITY, LA (CE 88600)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
OCT												
26 NOV	.000	.000	• 0 0	.000	.000	.000	.00	.000	.000	.000	.00	.00
15	.000	.000	•01	.002	.000	.001	• 0 0	.000	.000	.001	.00	.00
DEC 19	.000	.002	.01	.002	.000	.000	.00	.000	.000	.000	.00	.00
JAN 23	.000	.000	.01	.004	.000	.000	.00	.000	.000	.000	.00	.00
FEB 16	.000	.004	• 02	.002	.000	.000	•00	.000	.000	.000	.00	.00
MAR 16	.000	.000	.01	.000	.000	.000	.00	.000	.000	.002	.00	.00
APR 19	.000	.001	.01	.003	.000	.000	.00	.000	.001	.000	.00	.00
MAY 23	.000	.007	.01	.004	.000	.002	.00	.001	.001	.000	.00	.00
JUN 20	.000	.000	.02	.005	.000	.002	.00	.000	.001	.000	.00	.00
JUL 14	.000	.000	•02	.004	.000	.001	.00	.000	.001	.002	.00	.00
AUG 30	.000	.000	.01	.001	.000	.000	.00	.000	.000	.001	.00	.00
SEP 12	.000	.000	•01	.002		.000	.00	.000	.001	.001	.00	.00

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT							3.5		0.1			
26	.00	.00	.00	.00	0.0	.00	.00	.02	.01	.00	2.45	.223
15	.00	.00	• 0 0	.00	0.0	.00	.00	.02	.01	.01	7.60	3.90
DEC 19	.00	.00	•00	.00	0.0	.00	•00	.00	.00	.00	.000	.000
JAN	•00	• • • •	- 00		0.0		• • • •					
23	.00	.00	.00	.00	0.0	.00	.00	.02	.01	.00	.960	.000
FEB 16	.00	.00	.00	.00	0.0	.00	.00	.04	.01	.00	1.75	.000
16	.00	.00	• 00	.00	0.0	.00	.00	.07	.03	.00	3.30	.760
APR 19	.00	.00	• 0 0	.00	0.0	.00	.00	.04	.00	.01	5.27	.000
MAY		0.0	0.0	0.0	0.0	0.0	0.0	0.6	.02	.01	5.93	.000
23 JUN	.00	.00	.00	.00	0.0	.00	.00	.06	.02	.01	3.93	.000
20	.00	.00	.00	.00	0.0	.00	.00	.06	.01	.00	8.88	.000
JUL 14	.00	.00	• 0 0	.00	0.0	.00	• 0 0	.01	.00	.00	10.6	.000
AUG 30	.00	.00	.00	.00	0.0	.00	.00	.05	.01	.00	18.1	.000
SEP 12	.00	.00	• 0 0	.00	0.0	.00	.00	.02	.00	.00	12.4	.000

#### 07385750 BAYOU TECHE NEAR OLIVIER, LA

LOCATION.--Lat 29°57'18", long 91°42'54", in lot 28, T.12 S., R.7 E., Iberia Parish, Hydrologic Unit, on left bank of privately owned turn-span bridge, 3.6 mi (5.8 km) northwest of Jeanerette, 0.25 mi (0.40 km) downstream from Sandager Canal, and 2.8 mi (4.5 km) southeast of Olivier.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1958 to current year.

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: October 1975 to current year. pH: October 1976 to current year. WATER TEMPERATURES: November 1973 to current year.

SPE-

CIFIC

DISSOLVED OXYGEN: October 1973 to current year.

INSTRUMENTATION. -- Water-quality monitor since October 1973.

EXTREMES FOR PERIOD OF RECORD. --

EXTREMES FOR CURRENT YEAR.-SPECIFIC CONDUCTANCE: Maximum, 498 micromhos Aug. 21; minimum, 109 micromhos Dec. 13.
pH: Maximum, 8.1 units Jan. 18, Feb. 24; minimum, 6.2 units Jan. 6.
WATER TEMPERATURES: Maximum, 35.0°C July 16; minimum, 4.5°C Jan. 21.

#### WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

COLI-

FORM,

OXYGEN

DEMAND.

STREP-

TOCOCCI

5.3

6.1

7.6

.34

.27

---

HARD-

NESS,

HARD-

NESS,

DATE	TIME	CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNIT	AT	PER- I	COLOR (PLAT- INUM- COBALT JNITS)	TUR- BID- ITY (JTU)	OXYGI DI: SOL: (MG:	EN, C S- I VED 5	MAND, 310- CHEM- CAL, DAY	FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	KF (CO)	CAL DAGAR S	IESS, IS- OLVED MG/L AS	NESS, NONCAR BONATE DIS. (MG/L CACO3	,
NOV	1715	154	7	0	21 0	140	0.5		2 0	2	36					
09 FEB	1715	154	,	. 0	21.0	160	85		3.8	3.4	<5			52		3
10	1230	117	7	. 2	8.0	100	60	-	9.6	3.1	K1500			40		2
APR 26 JUL	1330	338	7	.2	23.5	80	45		5.9	1.7	15000			110		6
	0925	304	7	. 4	31.5	30	50		4.8	.4	1400	-	2200	100		0
	CALCI DIS- SOLV	UM SI DI ED SOL	S- VED S	ODIUM, DIS- OLVED		SODIU AD- SORP- TION	SI DI SOL	UM + E S- E VED	BICAR- BONATE (MG/L	CAR- BONAT	E (MG	TY, AL /L	SULFATE DIS- SOLVED	DIS SOL	E • VED	
DATE	AS C			(MG/L AS NA)	SODIUM PERCENT	RATIO	) (MG AS		HC03)	AS CO		03)	(MG/L AS SO4)	(MG AS		
NOV 09 FEB	14		4.2	7.5	22	2 .	.5	5.5	60		0	49	8.0	1	0	
10	10		3.7	6.7	25	5	.5	2.2	46		0	38	6.2		8.7	
26 JUL	27	1	1	22	29		,9	3.7	130		0	107	12	3	0	
18	26		9.1	19	28	3 .	.8	3.7	124		0	102	6.2	2	6	
DATE	FLUO RIDE DIS SOLV (MG/ AS F	, DIS - SOL ED (MG L AS	CA, RI	OLIDS, ESIDUE T 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS; SUM OF CONSTI- TUENTS; DIS- SOLVED (MG/L)	SOLIDS DIS- SOLVE (TONS	GE D NO2+ TOT (MG	N, NO3 (	NITRO- GEN•AM- MONIA + DRGANIC TOTAL (MG/L AS N)	NITR	GE L TOT L (MG	AL /L	PHOS- PHORUS, TOTAL (MG/L AS P)	CARB ORGA TOT (MG AS	NIC AL /L	
NOV 09 FEB		•1	9.0	94	88			.57	1.5	2.		.2	2.2	1	6	
1.0		1	F 2	70				0.0			2 0	2				

66

181

163

.10

.26

.23

.09

.45

.22

.93

1.5

1 - 4

1.7

72

194

168

5.3

11

12

.1

.1

10 ...

APR 26 ...

JUL 18 ...

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

# 07385750 BAYOU TECHE NEAR OLIVIER, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE+ DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
NOV 09	2	0	0	12	100	2	60	• 0	20	.00
DATE	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN+ TOTAL (UG/L)	CHLOR- DANE+ TOTAL (UG/L)	DDD + TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)
NOV 09	3	•0	.00	•00	•0	•00	.00	.00	.00	.00
DATE	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION+ TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)
NOV 09	.00	•00	.00	.00	.00	.00	.00	.00	.00	.00

D	ATE	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NO 0	v 9	0	.00	.44	.14	.09

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	ост	OBER	NOVE	MBER	DECE	MBER	JAL	NUARY	FEBR	RUARY	MA	ARCH
1 2 3	197 214 219	193 199 195	281	254		===	157 180 163	146 147 139	149 129 128	123 114 110	128 141 165	122 121 114
5	206 207	195 203					209 159	163 136	142 173	125 136	167 187	140 169
6 7 8	286 359 330	206 293 273	===		172	119	165 161 158	148 134 116	145 146 129	131 116 115	189 202 184	159 162 158
10	261 232	218 221			160 158	117 130	133 166	118 113	130 129	120 117	188 189	164 170
11 12	233 178	172 154			148 184	130 140	172 149	134 123	150 156	119 151	186 168	169 163
13 14 15	165 160 172	145 149 152		===	194 141 166	109 132 135	146 166 172	133 136 158	159 164 219	145 146 168	202 193 178	163 161 163
16 17	185 191	165 184			161 164	134 142	198 207	172 171	186 149	147 137	195 227	172 197
18 19	212	188 185	213 215	189 205	179 191	135 133	186 184	157 171	152 165	138 148	263 267	228 258
20	218	176	211	204	176	136	191	163	183	168	271	262
21 22 23	192 186 193	174 179			177 149	143	181 186	166 173	174 175	166 147	286 299	271 273
24 25	209	187 191 196			154 168 201	131 138 136	189 200 164	178 145 124	168 177 174	148 165 151	318 319 309	281 296 272
26	298	292			151	143	163	123	165	147	309	260
27 28	297 294	288 276			174 199	148 117	159 152	140 128	160 148	143 127	257 234	230 190
29 30	302	287			146	115	135	116			217	195
31	304 297	289 277			148 158	111 118	149	110		===	204 216	189 194
MONTH	359	145	281	189	201	109	209	110	219	110	319	114
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
		RIL	м	AY	JU	INE	JU	ILY	AUG	UST	SEPT	EMBER
1 2	204 230	189 204	407 348	336 338	396 408	372 180	306 305	264	324	255	212 217	191 166
3	242 218	208	343 380	337 342	407 415	313 387	295 293	283 284	249 249	229 220	181 175	160 154
5	219	210	384	379	388	301	294	287	273	251	170	154
6 7	224 215	208 204	385 391	380 284	295 199	165 156	304 348	293 306	284 278	261 202	202 196	170 173
8	218	213	336	291	176	131	359	296	269	201	214	166
10	236 310	218 236	381 389	337 379	167 195	124 166	304 319	294 302	353 362	276 307	168 160	132 135
11	299 252	222 180	396 397	384 383	194 185	176 159	421 421	318 345	335 396	304 312	160 156	141 145
13	231	181	416	382	158	145	346	289	397	298	175	151
14	235 224	208 212	412 399	384 378	166 192	152 162	331 335	303 304	352 354	308 332	190 186	173 163
16 17	252 254	222 249	411 411	396 380	195 192	169 175	325 328	306 322	336 356	317 325	184 177	169 158
18	259	237	369	273	191	174	330	323	370	355	173	132
19 20	253 241	232	321 316	247 237	189 211	174 190	412	325	414 475	366 419	173 188	148 173
21	236 250	228 235	295 284	254 277	212 213	207 203			498 478	471 383	242 219	191
23	274	250	294	283	213	204			399	377	216	206
24 25	322 322	273 293	296 318	280 275	215 229	205 214			397 379	365 355	290 244	217
26 27	335	321	338	292	233	229			382 390	368 373	241	208 147
28	336 327	319 317	284 271	251 253	245 270	232 246			387	354	202	185
29	332	321	299	269	282	263			363	165	203	189
30 31	407	326	326 375	299 326	283	270			199 203	141 186	198	174
MONTH	407	180	416	237	415	124	421	264	498	141	290	132

# 07385750 BAYOU TECHE NEAR OLIVIER, LA--Continued

PH (UNITS), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN										
	CCT	TOBER	NOVE	EMBER	DECE	EMBER	JAL	NUARY	FEBR	RUARY	МА	ARCH
1	7.2	7.1	7.1	6.8			6.8	6.7	7.4	6.8	7.1	7.0
2	7.3	7.3					7.2	6.8	7.3	7.1	7.1	6.9
3	7.5	7.3					7.0	6.7	7.3	7.1	7.8	6.9
5	7.5 7.5	7.3					7.2 6.8	6.8	7.2	7.1 7.1	7.3	7.1 7.1
6	7.5	7.3					6.8	6.2	7.3	7.0	7.2	7.0
7	7.4	7.3					6.8	6.6	7.4	7.0	7.4	7.1
8	7.5	7.3			7.3	6.8	7.0	6.8	7.2	7.1	7.5	7.1
9	7.6	7.4			7.4 7.5	7.0	7.0 7.1	6.9	7.3	7.1 7.1	7.5	7.1
11	7.6	7.3			7.1	6.8	7.0	6.9	7.6	7.1	7.5	7.2
12	7.4	7.2			7.0	6.7	7.1	6.9	7.8	7.1	7.3	7.1
13	7.3	7.1			7.2	6.8	7.1	6.8	7.3	7.1	7.3	7.1
14 15	7.2 6.7	6.6	6.8	6.6	7.0 7.2	6.7	7.0 7.1	7.0	7.4	7.1 7.2	7.6	7.2
16	7.0	6.5	6.8	6.5	7.0	6.7	7.1	7.1	7.5	7.1	7.6	7.4
17	7.1	6.6	7.0	6.5	7.0	6.8	7.7	7.1	7.5	7.0	7.7	7.5
18	6.6	6.3	7.0	6.8	7.0	6.7	8.1	7.2	7.5	7.1	7.8	7.5
20	7.0 7.0	6.6	7.0 7.0	6.9	7.1 7.3	6.8	7.3 7.5	7.1	7.5	7.2	7.7 7.7	7.6
21	7.1	6.9			7.3	6.8	7.5	7.2	7.7	7.1	7.6	7.5
22	7.0	6.7			7.0	6.8	7.4	7.3	8.0	7.2	7.6	7.3
23	7.0	6.9			7.1	6.8	7.4	7.2	7.7	7.3	7.4	7.2
24	7.0 7.1	7.0			7.2	6.8	7.4	7.2	8.1	7.6 7.3	7.5 7.3	7.3
26	7.1	6.9			6.9		7.0					
27	7.1	6.7			7.3	6.8	7.3	7.0 7.0	7.8 7.7	7.2	7.5 7.8	7.3
28	7.1	6.8			7.0	6.8	7.2	7.1	7.7	7.2	7.6	7.3
29	7 • 1	6.8			7.4	6.8	7.3	7.1			7.8	7.2
30 31	7.1 7.0	6.9			7.3 6.8	6.7	7.7	7.0 6.7			7.4	7.0
MONTH	7.6	6.3	7.1	6.5	7.5	6.5	8.1	6.2	8.1	6.8	7.8	6.9
DAY	MAX	MTN		MIN								
DAT		MIN	MAX	MIN								
	AP	RIL		1A Y	JL	INE	JU	JLY	AUG	UST	SEPT	EMBER
1	7.4	7.2	7.6	7.4	7.1	7.0	7.1	7.0			7.2	7.0
2	7.6	7.4	7.6	7.3 7.1	7.2	6.6	7.1 7.1	6.9	7.2	7.1 7.0	7.1	6.9
4	7.5	7.3	7.2	7.2	7.1	7.0	7.0	6.9	7.1	7.0	7.2	6.9
5	7.6	7.4	7.2	7.1	7.1	6.9	7.0	7.0	7.2	7.1	7.1	6.9
6	7.6	7.3	7.2	7.2	7.2	6.8	7.0	7.0	7.3	7.2	7.4	6.9
7	7 • 4	7.3	7.3	6.9	7.1	6.8	7.1	7.0	7.3	7.1	7.3	7.0
8	7.4	7.3	7.1 7.1	7.0	7.1 6.6	6.6	7.2	7.1 7.0	7.1 7.1	7.1	7.4	7.0
10	7.3	7.2	7.1	7.0	6.9	6.6	7.1	7.0	7.2	7.0	7.3	6.8
11	7.4	7.1	7.1	7.1	6.9	6.7	7.1	7.0	7.2	7.1	7.1	6.7
12	7.3	7.0	7.1	7.1	6.9	6.7	7.2	7.1	7.3	7.1	7.0	6.7
13	7.2 7.5	7.0 7.1	7.1 7.2	7.1 7.1	7.0 7.1	6.7	7.2	7.1 7.1	7.2	7.1 7.1	6.8 7.1	6.8
15	7.2	7.0	7.2	7.1	7.3	6.8	7.1	7.1	7.3	7.1	6.8	6.7
16	7.2	7.1	7.2	7.1	7.4	6.9	7.4	7.1	7.2	7.1	7.3	6.8
17	7.3	7.1	7.4	7.1	7.3	6.9	7.4	7.1	7.2	7.1	7.0	6.7
18	7.3 7.2	7.0 7.1	7.3	7.1 6.8	7.3 7.1	7.0	7.3	7.0 7.1	7.3	7.1	7.1	6.7
20	7.2	7.0	7.1	6.8	7.3	7.1			7.4	7.2	6.8	6.6
21	7.3	7.2	6.8	6.7	7.3	7.1			7.5	7.3	6.8	6.7
22	7.3	7.2	6.8	6.7	7.3	7.2			7.5	7.3	6.8	6.7
23	7.4	7.2	6.9	6.8	7.3	7.2			7.7	7.2	6.8	6.7
24	7.3	7.3 7.3	6.8	6.7	7.4	7.1 7.2			7.5	7.3	6.9	6.8
26	7.5	7.3	7.0	6.8	7.4	7.1			7.2	7.1	6.9	6.8
27	7.7	7.4	6.9	6.8	7.4	7.1			7.2	7.1	7.0	6.7
28	7.6	7.1	7.0	6.9	7.3	7.1			7.1	7.0	6.8	6.6
30	7.6	7.4	7.0 7.0	6.9	7.3 7.2	7.1 7.1			7.3 7.2	7.0 7.1	6.8	6.8
31			7.1	6.9					7.2	7.0		
MONTH	7.7	7.0	7.6	6.7	7.4	6.5	7.4	6.9	7.7	6.9	7.4	6.6
											3.3	

# MISSISSIPPI RIVER DELTA 07385750 BAYOU TECHE NEAR OLIVIER, LA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	001	OBER	NOV	EMBER	DEC	EMBER	JAN	NUARY	FEBR	RUARY	м	ARCH
1 2 3 4 5	30.5 30.0 28.5 26.0 25.5	29.5 29.0 26.0 25.0 24.0	22.5	22.0	===	===	13.5 13.0 11.0 11.0	12.0 11.0 10.0 10.0 10.5	7.5 7.0 7.0 7.5 8.5	7.0 6.5 6.5 6.0 6.5	15.0 14.5 14.5 13.0 13.0	14.0 14.0 13.0 12.0 11.0
6 7 8 9	25.0 25.0 25.5 25.5 24.5	24.5 24.5 25.0 25.0 24.0	===	===	15.5 15.5 15.5	14.5 14.0 12.5	13.0 15.0 15.5 13.5 12.0	12.0 13.0 13.5 12.0 10.0	8.0 7.5 8.0 7.5 8.0	7.0 7.0 6.5 6.5	14.0 14.5 14.5 13.0 13.5	12.0 14.0 13.0 11.5 11.0
11 12 13 14 15	24.0 21.0 20.0 20.0 20.0	21.5 20.0 19.5 18.5 18.5	17.5	16.5	12.5 12.5 14.0 14.5 14.5	12.0 11.5 12.5 14.0 14.0	10.0 9.0 9.0 9.0 9.0	9.0 9.0 8.5 8.0 7.5	9.0 11.0 11.0 10.5 10.0	6.5 8.0 9.5 9.5 9.0	14.0 15.0 16.5 18.5 18.5	12.5 13.5 15.0 16.0 17.0
16 17 18 19 20	20.5 20.0 20.5 21.0 21.5	19.5 19.0 19.0 19.5 20.5	18.5 19.5 19.0 18.5 19.5	17.0 18.5 18.0 18.0 18.5	15.0 15.5 15.0 16.0 16.0	14.0 14.5 14.0 14.0 14.0	10.5 10.5 8.0 7.0 6.0	8.5 8.0 7.0 6.0 5.0	10.5 10.5 10.0 9.5 10.0	9.0 9.5 9.0 8.5 8.5	18.0 17.5 18.0 18.5 18.0	17.0 16.0 16.0 16.5 17.5
21 22 23 24 25	22.0 22.5 22.5 22.5 22.5	21.0 21.5 22.0 22.0 22.0	===		14.0 12.5 12.5 14.0 14.5	11.5 11.0 11.5 12.5 13.0	5.5 5.5 7.5 11.0	4.5 5.0 5.5 7.5 9.5	9.5 9.5 11.0 11.5 12.5	8.5 7.5 8.5 9.5 11.0	18.5 19.5 20.5 20.5 20.0	17.5 18.0 19.0 19.5 18.5
26 27 28 29 30 31	23.0 23.0 22.5 23.0 22.5 23.0	22.0 21.5 21.5 21.5 21.5 21.5	=======================================	===	13.0 12.0 12.0 11.5 11.5	12.0 11.5 10.5 10.0 11.0	10.5 9.5 9.0 9.0 9.0 8.0	9.5 8.5 8.5 8.0 8.0 7.5	13.5 13.5 14.5	12.5 12.5 13.5	19.5 19.5 19.5 20.0 20.5 21.5	17.5 17.5 17.5 18.0 18.5 19.0
MONTH	30.5	18.5	22.5	16.5	16.0	10.0	15.5	4.5	14.5	6.0	21.5	11.0
		TEM	PERATURE	(DEG. C)	OF WATER,	WATER YE	AR OCTOBER	R 1977 TO	SEPTEMBER	R 1978		
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	AF	PRIL		MAY	J	UNE	JI	ULY	AUG	SUST	SEP	TEMBER
1 2 3 4 5	22.0 23.5 23.0 23.5 23.5	19.5 20.5 21.5 22.0 22.5	26.0 26.0 25.5 24.5 25.0	24.5 25.0 24.0 23.5 23.5	29.5 29.0 28.5 28.5 28.5	28.5 25.5 27.0 27.0 27.5	31.0 31.0 31.0 31.5 31.5	29.5 30.0 30.5 30.5 31.0	30.0 32.0 31.5 31.0	29.0 29.0 29.5 30.0	28.5 29.0 29.0 29.0 30.0	27.5 27.5 28.0 27.5 28.0
6 7 8 9	24.0 24.0 24.5 25.5 25.0	23.0 23.0 23.5 24.0 24.0	25.0 25.0 25.0 27.0 27.5	24.5 24.5 24.5 25.5 26.0	27.5 26.0 27.0 28.0 28.5	24.5 25.0 26.0 26.5 27.5	31.5 32.0 32.0 31.5 32.0	30.5 30.0 30.5 30.5 31.0	31.0 30.0 30.0 30.0 30.0	30.0 28.0 28.0 29.0 29.5	30.0 29.0 28.5 27.0 26.0	28.0 28.5 27.5 25.5 25.5
11 12 13 14 15	24.0 20.5 19.5 20.5 22.0	20.5 17.5 17.5 18.5 19.0	27.5 28.0 29.0 29.0 29.5	26.5 26.0 27.5 27.0 27.5	29.0 29.5 30.0 29.5 30.0	27.5 28.5 28.5 28.0 28.0	32.0 32.0 32.0 32.0 31.5	31.5 30.5 31.0 31.0 30.5	30.0 29.5 29.5 28.5 29.0	29.5 29.5 28.5 28.0 28.0	26.5 27.5 27.5 28.0 28.5	26.0 26.0 27.0 27.0 27.5
16 17 18 19 20	23.0 24.0 24.0 25.0 24.0	21.5 22.5 23.0 23.5 22.5	29.5 29.5 28.5 28.5 28.0	28.0 28.0 25.5 27.5 26.5	29.0 29.5 30.0 30.5 30.5	28.5 28.5 29.0 29.0 29.0	33.0 32.5 32.0 31.5	30.5 31.0 31.0 30.0	30.0 30.5 31.0 31.5 31.5	28.5 29.0 30.0 30.0 30.5	28.0 28.0 28.0 28.5 28.5	27.5 27.0 27.0 27.0 28.0
21 22 23 24 25	23.0 24.0 24.0 24.5 25.5	21.5 22.0 22.5 23.5 24.0	28.5 28.5 29.0 29.0 29.5	27.0 27.5 28.0 28.0 28.5	30.5 31.0 31.0 31.5 31.5	29.5 30.0 30.0 30.0 30.5	===	=======================================	31.5 31.5 31.5 31.5 31.5	30.0 30.5 30.0 30.5 30.0	29.5 29.5 30.0 29.5 28.5	27.5 28.0 28.0 28.0 27.5
26 27 28 29 30	24.0 24.5 25.0 25.0 25.5	22.5 22.0 22.0 22.5 23.5	29.5 30.0 30.0 30.0 29.5	28.5 29.0 29.0 29.0 28.5	31.5 31.5 32.0 31.5 31.0	30.5 30.5 30.0 30.5 30.0	===	===	31.0 31.0 30.5 28.0 27.0 28.0	30.0 30.5 28.0 25.5 25.5 26.5	28.0 26.5 26.5 26.0 25.5	27.0 25.0 25.5 25.0 25.0
31 MONTH	25.5	17.5	30.0	28.0	32.0	24.5	33.0	29.5	32.0	25.5	30.0	25.0

# 07385750 BAYOU TECHE NEAR OLIVIER, LA--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	ост	OBER	NOVE	MBER	DECEM	BER	JAN	UARY	FEBR	UARY	MAI	RCH
		2.6										
2	4.5	3.6							10.8	10.3		
3	4.3	2.6							10.4	10.3		
4	3.0	2.7							10.2	7.7		
5	3.1	2.7										
6	3.2	2.5										
7	2.8	1.7										
8	2.6	1.7										
10	2.8	1.8										
11	2.6	1.9										
12	2.2	2.0										
13	2.2	2.0										
14	2.4	.3										
15	• 4	.3										
16	1.1	.2										
17	1.6	.3							7.2	5.9		
18	.8	. 3	.5	• 1			7.8	7.1	7.1	6.7	3:6	2.2
19 20			.3	.0			8.2	8.1	6.9	6.2 5.9	3.6 3.6	3.2 3.0
21							8.7	8.3	6.4	6.0	3.0	2.0
22							8.5	7.7	6.3	6.3 5.4	3.2 5.0	2.8
23 24											6.1	3.9
25											5.8	3.4
26											6.7	5.8
27											6.7	5.7
28											6.0	3.7
29											4.8	4.0
30 31											4.7	2.7 3.8
							8.7	6.2	10.8	5.4	6.7	1.8
MONTH	4.5	•2	•5	• 0			0.1	0.2	10.8	5.4	0.7	1.0
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
DAY	MAX			MIN	MAX			MIN	MAX	100		MIN TEMBER
	AF	PRIL		MAY	JU	NE	JU	JLY	AU	GUST	SEPI	TEMBER
1	AF	PRIL 3.6		1AY	JU 4.8	NE 2.1	JI.	JLY 1.6	AU	GUST	SEP1	TEMBER
1 2	4.4 4.0	3.6 3.0		MAY	4.8 7.5	2.1 4.1	4.2 3.6	1.6 1.5	AU	GUST	SEPI	TEMBER
1 2 3 4	AF	PRIL 3.6		1AY	4.8 7.5 4.7 4.0	2.1 4.1 3.5 2.2	4.2 3.6 3.8 3.1	1.6 1.5 1.1 1.1	2.8 3.1 2.9	GUST 1.1 1.5 1.6	3.0 3.0 2.8 2.9	2.9 2.7 2.2 2.5
1 2 3	4.4 4.0 4.0	3.6 3.0 2.7		1AY	4.8 7.5 4.7	2.1 4.1 3.5	4.2 3.6 3.8	1.6 1.5 1.1	2.8 3.1	GUST 1.1 1.5	3.0 3.0 2.8	2.9 2.7 2.2
1 2 3 4 5	4.4 4.0 4.0 3.8 3.5	3.6 3.0 2.7 3.0 2.4		1AY	4.8 7.5 4.7 4.0 4.5	2.1 4.1 3.5 2.2 1.8	4.2 3.6 3.8 3.1	1.6 1.5 1.1 1.1	2.8 3.1 2.9	GUST 1.1 1.5 1.6	3.0 3.0 2.8 2.9	2.9 2.7 2.2 2.5
1 2 3 4	4.4 4.0 4.0 3.8	3.6 3.0 2.7 3.0		1AY	4.8 7.5 4.7 4.0 4.5 7.3 6.2	2.1 4.1 3.5 2.2 1.8 2.1	4.2 3.6 3.8 3.1 3.8	1.6 1.5 1.1 1.1	2.8 3.1 2.9 2.1 2.8 2.7	GUST 1.1 1.5 1.6 1.1 1.4 1.8	3.0 3.0 2.8 2.9 3.3 3.5 2.8	2.9 2.7 2.2 2.5 2.5 2.2
1 2 3 4 5 6 7 8	4.4 4.0 4.0 3.8 3.5	3.6 3.0 2.7 3.0 2.4 2.2 1.9 2.3		1AY	4.8 7.5 4.7 4.0 4.5	2.1 4.1 3.5 2.2 1.8 2.1 4.6 3.5	4.2 3.6 3.8 3.1 3.8	1.6 1.5 1.1 1.1 1.3	2.8 3.1 2.9 2.1	1.1 1.5 1.6 1.1	3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7	2.9 2.7 2.2 2.5 2.5 2.5 2.1
1 2 3 4 5 6 7 8	4.4 4.0 4.0 3.8 3.5 2.9 2.7 2.9 3.2	3.6 3.0 2.7 3.0 2.4 2.2 1.9 2.3 2.3		1AY	4.8 7.5 4.7 4.0 4.5 7.3 6.2 4.5 3.8	2.1 4.1 3.5 2.2 1.8 2.1 4.6 3.5 3.1	4.2 3.6 3.8 3.1 3.8	1.6 1.5 1.1 1.1 1.3	2.8 3.1 2.9 2.1 2.8 2.7	GUST 1.1 1.5 1.6 1.1 1.4 1.8	3.0 3.0 2.8 2.9 3.3 3.5 2.8	2.9 2.7 2.2 2.5 2.5 2.2
1 2 3 4 5 6 7 8 9	4.4 4.0 4.0 3.8 3.5 2.9 2.7 2.9 3.2 3.5	3.6 3.0 2.7 3.0 2.4 2.2 1.9 2.3 2.3 2.8	111	1AY	4.8 7.5 4.7 4.0 4.5 7.3 6.2 4.5 3.8 3.3	2.1 4.1 3.5 2.2 1.8 2.1 4.6 3.5 3.1 2.1	4.2 3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4	2.8 3.1 2.9 2.1 2.8 2.7	1.1 1.5 1.6 1.1 1.4 1.8	3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 5 6 7 8 9 10	4.4 4.0 4.0 3.8 3.5 2.9 2.7 2.9 3.2 3.5	3.6 3.0 2.7 3.0 2.4 2.2 1.9 2.3 2.3 2.8		1AY	4.8 7.5 4.7 4.0 4.5 7.3 6.2 4.5 3.8 3.3	NE  2.1 4.1 3.5 2.2 1.8  2.1 4.6 3.5 3.1 2.1	4.2 3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4	2.8 3.1 2.9 2.1 2.8 2.7	1.1 1.5 1.6 1.1 1.4 1.8	3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 5 6 7 8 9 10	4.4 4.0 4.0 3.8 3.5 2.9 2.7 2.9 3.2 3.5	3.6 3.0 2.7 3.0 2.4 2.2 1.9 2.3 2.3 2.8	111	1AY	4.8 7.5 4.7 4.0 4.5 7.3 6.2 4.5 3.8 3.3	NE  2.1 4.1 3.5 2.2 1.8  2.1 4.6 3.5 3.1 2.1 2.6 3.0	4.2 3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4	2.8 3.1 2.9 2.1 2.8 2.7	1.1 1.5 1.6 1.1 1.4 1.8	3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 5 6 7 8 9 10	4.4 4.0 4.0 3.8 3.5 2.9 2.7 2.9 3.2 3.5	3.6 3.0 2.7 3.0 2.4 2.2 1.9 2.3 2.3 2.8		1AY	4.8 7.5 4.7 4.0 4.5 7.3 6.2 4.5 3.8 3.3	NE  2.1 4.1 3.5 2.2 1.8  2.1 4.6 3.5 3.1 2.1	4.2 3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4	2.8 3.1 2.9 2.1 2.8 2.7	1.1 1.5 1.6 1.1 1.4 1.8	3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 5 6 7 8 9 10	4.4 4.0 4.0 3.8 3.5 2.9 2.7 2.9 3.2 3.5 3.7 3.9 3.9	3.6 3.0 2.7 3.0 2.4 2.2 1.9 2.3 2.3 2.8 2.2		1AY	4.8 7.5 4.7 4.0 4.5 7.3 6.2 4.5 3.8 3.3	2.1 4.1 3.5 2.2 1.8 2.1 4.6 3.5 3.1 2.1	4.2 3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4 	2.8 3.1 2.9 2.1 2.8 2.7	1.1 1.5 1.6 1.1 1.4 1.8	3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1 5.0	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14	4.4 4.0 4.0 3.8 3.5 2.9 2.7 2.9 3.2 3.5 3.9 3.9 3.9	3.6 3.0 2.7 3.0 2.4 2.2 1.9 2.3 2.3 2.3 2.8 2.2 3.2 2.8		MAY	4.8 7.5 4.7 4.0 4.5 7.3 6.2 4.5 3.8 3.3 4.0 4.1 2.8	NE  2.1 4.1 3.5 2.2 1.8  2.1 4.6 3.5 3.1 2.1  2.6 3.0 2.2 2.2	4.2 3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4 	2.8 3.1 2.9 2.1 2.8 2.7	1.1 1.5 1.6 1.1 1.4 1.8	3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1 5.0	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 5 6 7 8 9 10 \$1 12 13 14 15	4.4 4.0 4.0 3.8 3.5 2.9 2.7 2.9 3.2 3.5 3.7 3.9 3.5 2.9	3.6 3.0 2.7 3.0 2.4 2.2 1.9 2.3 2.3 2.3 2.8 2.2 3.2 2.8 2.7		1AY	4.8 7.5 4.7 4.0 4.5 7.3 6.2 4.5 3.8 3.3 4.0 4.1 2.9 8 3.3	NE  2.1 4.1 3.5 2.2 1.8  2.1 4.6 3.5 3.1 2.1  2.6 3.0 2.2 2.1 1.1 1.1 2.7	4.2 3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4 	2.8 3.1 2.9 2.1 2.8 2.7	1.1 1.5 1.6 1.1 1.4 1.8	3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1 5.0	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 5 6 7 8 9 10 41 12 13 14 15	4.4 4.0 4.0 3.8 3.5 2.7 2.7 2.9 3.2 3.5 3.7 3.9 3.9 3.5 2.9 2.7 2.9 2.4 1.9	2.6 3.6 3.0 2.7 3.0 2.4 2.2 1.9 2.3 2.3 2.3 2.8 2.2 3.2 2.8 2.7		1AY	4.8 7.5 4.7 4.0 4.5 7.3 6.2 4.5 3.8 3.3 4.0 4.1 2.9 2.8 3.3	2.1 4.1 3.5 2.2 1.8 2.1 4.6 3.5 3.1 2.1 2.6 3.0 2.2 2.2 1.1	3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4 	2.8 3.1 2.9 2.1 2.8 2.7	1.1 1.5 1.6 1.1 1.4 1.8	SEP1 3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1 5.0	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	4.4 4.0 3.8 3.5 2.9 2.7 2.9 3.2 3.5 3.7 3.9 3.5 2.9 2.9 2.9 2.1	2.2 1.9 2.3 2.3 2.3 2.3 2.8 2.2 3.2 2.8 2.7 2.2 1.8 2.7		1AY	4.8 7.5 4.7 4.0 4.5 3.8 3.3 4.0 4.1 2.8 3.3 3.2 4.0 4.4 4.9	NE  2.1 4.1 3.5 2.2 1.8  2.1 4.6 3.5 3.1 2.1  2.6 3.0 2.2 1.1  1.1 2.7 3.1 3.9	4.2 3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4 	2.8 3.1 2.9 2.1 2.8 2.7	1.1 1.5 1.6 1.1 1.4 1.8	3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1 5.0	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	4.4 4.0 4.0 3.8 3.5 2.9 2.7 2.9 3.2 3.5 3.7 3.9 3.9 3.5 2.9 2.1 3.6	2.6 3.6 3.0 2.7 3.0 2.4 2.2 1.9 2.3 2.3 2.3 2.8 2.2 3.2 2.8 2.7 2.8 2.7 2.8 2.7		1AY	4.8 7.5 4.7 4.0 4.5 7.3 6.2 4.5 3.8 3.3 4.0 4.1 2.9 8 3.3 3.2 4.4 4.9 4.6	2.1 4.1 3.5 2.2 1.8 2.1 4.6 3.5 3.1 2.1 2.6 3.0 2.2 2.2 1.1 1.1 2.7 3.1 3.9	3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4 	2.8 3.1 2.9 2.1 2.8 2.7	1.1 1.5 1.6 1.1 1.4 1.8 	SEP1 3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1 5.0	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	4.4 4.0 3.8 3.5 2.9 2.7 2.9 3.2 3.5 3.7 3.9 3.5 2.9 2.8 4.9 2.1 3.6 3.6	2.2 1.9 2.3 2.3 2.3 2.3 2.8 2.2 3.2 2.8 2.7 2.2 1.9 2.3 2.3 2.3 2.8 2.7		1AY	4.8 7.5 4.0 4.5 7.3 4.0 4.5 3.8 3.3 4.0 4.1 9.2 8.8 3.3 4.4 4.9 4.6 4.5	NE  2.1 4.1 3.5 2.2 1.8 2.1 4.6 3.5 3.1 2.1 2.6 3.0 2.2 2.2 1.1 1.1 2.7 3.1 3.9 3.2 2.9	4.2 3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4 	2.8 3.1 2.9 2.1 2.8 2.7	1.1 1.5 1.6 1.1 1.4 1.8 	SEP1 3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1 5.0	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	4.4 4.0 3.8 3.5 2.9 2.7 2.9 3.2 3.5 3.7 3.9 3.5 2.9 3.5 2.9 3.5 2.9 3.5 2.9 3.5 2.9 3.5 2.9 3.5 2.9 3.5 2.9 3.5 2.9 3.0 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	2.2 1.9 2.3 2.3 2.3 2.8 2.2 3.2 2.8 2.7 2.2 1.8 1.4 1.7 2.1		MAY	JU 4.8 7.5 4.0 7.3 4.0 7.3 4.0 4.1 9.8 3.3 4.1 9.8 3.3 3.2 4.4 4.5 4.5 4.5 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6	NE  2.1 4.1 3.5 2.2 1.8  2.1 4.6 3.5 3.1 2.1 2.6 3.0 2.2 2.2 1.1 1.1 2.7 3.1 3.9 3.2 2.9 3.0	3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4 	2.8 3.1 2.9 2.1 2.8 2.7	1.1 1.5 1.6 1.1 1.4 1.8 	SEP1 3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1 5.0	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	4.4 4.0 3.8 3.5 2.9 2.7 2.9 3.2 3.5 3.7 3.9 3.5 2.9 2.8 4.9 2.1 3.6 3.6	2.2 1.9 2.3 2.3 2.3 2.3 2.8 2.2 3.2 2.8 2.7 2.2 1.9 2.3 2.3 2.3 2.8 2.7		1AY	4.8 7.5 4.0 4.5 7.3 4.0 4.5 3.8 3.3 4.0 4.1 9.2 8.8 3.3 4.4 4.9 4.6 4.5	NE  2.1 4.1 3.5 2.2 1.8 2.1 4.6 3.5 3.1 2.1 2.6 3.0 2.2 2.2 1.1 1.1 2.7 3.1 3.9 3.2 2.9	4.2 3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4  	2.8 3.1 2.9 2.1 2.8 2.7	1.1 1.5 1.6 1.1 1.4 1.8 	3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1 5.0	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 5 6 7 8 9 10 41 12 13 14 15 16 17 18 19 20 21 22 23	4.4 4.0 4.0 3.8 3.5 2.7 2.7 2.9 3.2 3.5 3.7 3.9 3.5 2.9 2.4 1.9 2.1 3.6 3.0 3.4	2.6 3.6 3.0 2.7 3.0 2.4 2.2 1.9 2.3 2.3 2.8 2.2 3.2 2.8 2.7 2.2 1.8 1.4 1.7 2.1		1AY	4.8 7.5 4.7 4.0 4.5 7.3 2.5 4.5 4.0 4.5 4.0 4.0 4.5 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	NE  2.1 4.1 3.5 2.2 1.8 2.1 4.6 3.5 3.1 2.1 2.6 3.0 2.2 2.2 1.1 1.1 2.7 3.1 3.9 3.2 2.9 3.0 2.6	4.2 3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4  	2.8 3.1 2.9 2.1 2.8 2.7	1.1 1.5 1.6 1.1 1.4 1.8 	SEP1 3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1 5.0	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	4.4 4.0 3.8 3.5 2.9 2.7 2.3.5 3.5 3.7 3.9 3.5 2.9 2.8 4.1 3.6 3.0 3.4 3.2	2.2 1.9 2.3 2.3 2.3 2.8 2.2 3.2 2.8 2.7 2.2 1.4 1.7 2.1		1AY	JU 4.8 7.5 4.0 4.5 3.8 3.8 4.0 4.1 9.8 4.4 4.9 4.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5	NE  2.1 4.1 3.5 2.2 1.8 2.1 4.6 3.5 3.1 2.1 2.6 3.0 2.2 2.2 1.1 1.1 2.7 3.1 3.9 3.2 2.9 3.0 2.6 2.2 2.8	4.2 3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4 	2.8 3.1 2.9 2.1 2.8 2.7	1.1 1.5 1.6 1.1 1.4 1.8 	SEP1 3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1 5.0	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	4.4 4.0 4.0 3.8 3.5 2.7 2.7 2.9 3.2 3.5 3.7 3.9 3.5 2.9 2.4 1.9 2.1 3.6 3.0 3.4 3.4	2.6 3.6 3.0 2.7 3.0 2.4 2.2 1.9 2.3 2.3 2.8 2.2 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.8 2.7 2.8 2.8 2.7 2.8 2.8 2.7 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8		1AY	JU 4.8 7.5 4.0 5.6 4.5 7.3 4.0 4.5 3.3 4.1 4.9 4.6 4.6 4.6 5.6 6.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7	NE  2.1 4.1 3.5 2.2 1.8 2.1 4.6 3.5 3.1 2.1 2.6 3.0 2.2 2.1 1.1 1.1 2.7 3.1 3.9 3.2 2.9 3.0 2.6 2.2 2.8 3.0 3.0	4.2 3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4	2.8 3.1 2.9 2.1 2.8 2.7 	1.1 1.5 1.6 1.1 1.4 1.8 	SEP1 3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1 5.0	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	4.4 4.0 4.0 3.8 3.5 2.7 2.7 2.9 3.2 3.5 3.7 3.9 3.5 2.9 2.1 3.6 3.0 3.4 3.2 4.1	2.6 3.6 3.0 2.7 3.0 2.4 2.2 1.9 2.3 2.3 2.8 2.2 3.2 2.8 2.7 2.2 1.8 1.4 1.7 2.1 2.3 2.4 2.5 3.0 2.4		1AY	4.8 7.7 4.0 4.5 7.3 2.5 8.3 4.0 1.9 8.3 3.4 4.9 4.5 5.5 5.6 7.6 4.5 7.6 4.5 7.6 4.5 7.6 4.6 7.6 4.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7	NE  2.1 4.1 3.5 2.2 1.8 2.1 4.6 3.5 3.1 2.1 2.6 3.0 2.2 2.2 1.1 1.1 2.7 3.1 3.9 3.2 2.9 3.0 2.6 2.2 2.8 3.0 3.0 1.6	4.2 3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4   	2.8 3.1 2.9 2.1 2.8 2.7	GUST  1.1 1.5 1.6 1.1 1.4 1.8	SEP1 3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1 5.0	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 4 5 5 6 7 7 8 9 10 11 12 13 11 4 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	4.4 4.0 3.8 3.5 2.9 2.7 2.9 3.2 3.5 3.7 3.9 3.5 2.9 2.8 4.1 3.6 3.0 3.4 3.2 4.1	2.2 1.9 2.3 2.3 2.3 2.8 2.2 3.2 2.8 2.7 2.2 1.4 1.7 2.1 2.3 2.2 1.4 2.5 3.0		1AY	JU 4.8 7.5 7.3 4.0 5.3 4.0 4.5 3.8 3.0 4.1 9.6 4.5 5.6 6.2 7.6 4.5 5.6 6.2 7.6 6.5 6.2 7.6 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6	NE  2.1 4.1 3.5 2.2 1.8 2.1 4.6 3.5 3.1 2.1 2.6 3.0 2.2 2.2 1.1 1.1 2.7 3.1 3.9 3.2 2.9 3.0 2.6 2.2 2.8 3.0 3.0 1.6 1.3	4.2 3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4	2.8 3.1 2.9 2.1 2.8 2.7 	1.1 1.5 1.6 1.1 1.4 1.8 	SEP1 3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1 5.0	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	4.4 4.0 3.8 3.5 2.9 2.7 2.9 3.2 3.5 3.7 3.9 3.5 2.9 2.4 1.9 2.1 3.6 3.0 3.0 3.4 4.1	2.6 3.6 3.0 2.7 3.0 2.4 2.2 1.9 2.3 2.3 2.8 2.2 3.2 2.8 2.7 2.2 1.8 1.4 1.7 2.1 2.3 2.4 2.5 3.0 2.4		1AY	4.8 7.7 4.0 4.5 7.3 2.5 8.3 4.0 1.9 8.3 3.4 4.9 4.5 5.5 5.6 7.6 4.5 7.6 4.5 7.6 4.5 7.6 4.6 7.6 4.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7	NE  2.1 4.1 3.5 2.2 1.8 2.1 4.6 3.5 3.1 2.1 2.6 3.0 2.2 2.2 1.1 1.1 2.7 3.1 3.9 3.2 2.9 3.0 2.6 2.2 2.8 3.0 3.0 1.6	4.2 3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4   	2.8 3.1 2.9 2.1 2.8 2.7 	1.1 1.5 1.6 1.1 1.4 1.8 	SEP1 3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1 5.0	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9
1 2 3 4 4 5 5 6 7 7 8 9 10 11 12 13 11 4 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	4.4 4.0 3.8 3.5 2.9 2.7 2.9 3.2 3.5 3.7 3.9 3.5 2.9 2.8 4.1 3.6 3.0 3.4 3.2 4.1	3.6 3.0 2.7 3.0 2.4 2.2 1.9 2.3 2.3 2.8 2.2 3.2 2.8 2.7 2.2 1.8 1.4 1.7 2.1 2.3 2.2 2.3 3.0 2.8		1AY	4.8 7.5 4.0 4.5 7.3 4.0 4.1 4.5 3.3 4.1 4.9 4.6 4.5 5.6 6.5 6.5 6.5 6.5 6.5 6.5 6	NE  2.1 4.1 3.5 2.2 1.8 2.1 4.6 3.5 3.1 2.1 2.6 3.0 2.2 2.1 1.1 2.7 3.1 3.9 3.2 2.9 3.0 2.6 2.2 2.8 3.0 1.6 1.3 1.3	4.2 3.6 3.8 3.1 3.8 2.7	1.6 1.5 1.1 1.1 1.3 1.4	2.8 3.1 2.9 2.1 2.8 2.7 	1.1 1.5 1.6 1.1 1.4 1.8 	SEP1 3.0 3.0 2.8 2.9 3.3 3.5 2.8 2.7 5.1 5.0	2.9 2.7 2.2 2.5 2.5 2.5 2.1 1.8 2.1 2.9

## 295845091313000 BAYOU TECHE AT CHARENTON, LA (CE 64380)

LOCATION.--Lat 29°53'25", long 91°31'30", T.13 S., R.9 E., St. Mary Parish, Hydrologic Unit 08080102, 0.5 mi (0.8 km) north of Charenton.

PERIOD OF RECORD. -- Water years 1975 to current year.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily 32.5°C June 25, 28, July 1, 26, 1977, July 13, 1978; minimum daily, 4.0°C Jan. 19, 1977.

EXTREMES FOR CURRENT YEAR. --

NATIONALES FOR COMMENT INJURY WATER TEMPERATURES: Maximum daily, 32.5°C July 13; minimum daily, 6.0°C Jan. 21. CHLORIDE: Maximum daily, 380 mg/L Aug. 29; minimum daily, 8.0 mg/L Feb. 19.

		TEM	PERATURE	(DEG. C)		WATER YEAR	OCTOBER	1977 TO	SEPTEMBER	1978		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.0	23.5	17.5	13.0	8.0	13.0	16.5	20.5		32.0	30.0	28.0
2	29.5	23.0	17.5	13.0	8.5	16.0	18.5	23.0	27.5	31.5	30.0	28.5
3	26.5	20.5	18.0	9.5	8.5	15.5	17.5	23.0	27.0	31.5	30.0	28.5
4	23.5	18.5	18.5	12.0	8.5	12.0	17.0	21.5	26.0	31.0	31.0	29.5
5	24.5	18.5	20.0	12.0	8.5	11.5	17.5	21.0	28.0	31.5	31.5	28.5
6	24.5	20.0	19.0		9.0	12.0	18.5	24.0	28.0	31.5	31.0	29.5
7	27.5	20.5	14.0		8.5	23.0	21.5	20.5	27.0	31.0	29.5	29.0
8	27.5	21.0	12.5		7.5	15.5	23.0	23.0	27.5	31.5	30.0	29.0
9	29.0	22.5	12.5		7.0	23.0	23.0	26.0	28.5	30.5	29.5	29.0
10	23.0	17.5	12.5		7.0	11.5	22.0	25.5	28.5	31.5	28.0	27.5
11	24.5	17.5	12.5		8.0	14.5	17.5	26.5	28.0	31.5	31.5	26.5
12	19.5	15.5	12.0		9.5	14.0	19.0	26.5	20.0	31.5	30.5	27.0
13	19.0	16.0	11.0		9.5	15.0	18.0	26.0	29.0	32.5	28.5	27.5
14	19.0	17.5	13.0		11.5	16.0	20.0	24.5	29.0	31.5	29.5	27.0
15	19.0	18.0	14.0		11.0	18.5	21.5	25.0	28.5	31.5	27.5	
16	19.5	18.5			11.0	19.0	21.5	25.0	29.0	32.0	29.0	
17	16.0	20.0			11.5	16.0	22.0	26.0	29.0	31.5	30.0	29.0
18	16.0	23.5			10.5	17.0	20.0	26.0	30.5	32.0	30.5	29.0
19	16.0	21.5		8.0	10.0	16.5	23.0	26.5	30.0	32.0	30.5	29.0
20	22.0	19.5		6.5	10.0	16.5	21.5	28.0	30.0	32.0	30.0	29.0
21	23.5	20.0	12.5	6.0	11.0	15.0	21.5	28.0	30.0	32.0	30.5	29.0
22	23.0	19.5	11.0	6.5	8.0	16.5	21.5	29.0	30.5	30.5	30.0	29.0
23	23.5	19.5	13.0	9.0	10.0	17.5	21.0	28.0	30.5	30.0	28.0	28.5
24	22.0	20.0	13.0	10.0	12.0	18.0	21.5	28.5	30.5	30.5	32.0	28.0
25	23.0	20.0	13.0		13.0	19.5	22.5	25.5	31.5	27.5	32.0	26.5
26	22.5	18.0	12.5		11.5	18.0	25.0	25.5	30.5	28.0	32.0	27.5
27	22.0	17.5	23.5		12.5	17.0	20.5	28.5		28.0	31.0	27.5
28	23.0	18.5	12.5		15.0	17.5	20.5	28.5	30.5	28.0	29.5	27.5
29	23.5	30.0	13.0			18.0	21.0	29.0	30.0	31.0	27.5	25.5
30	24.5	19.5	12.5			16.5	21.0		30.0	31.0	27.0	25.0
31	24.5		12.0			16.5				31.5	27.5	
MONTH	23.0	20.0	14.5		10.0	16.5	20.5	25.5	29.0	31.0	30.0	28.0
YEAR	MAX	32.5	MIN	6.0	MEAN	22.0						

# 295845091313000 BAYOU TECHE AT CHARENTON, LA (CE 64380)--Continued

# DISSOLVED CHLORIDE (CL), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

DAY	oct	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	36	53	17	29	28	25	30		66	27	82
2	60	38	28	19	24	24	20	28	40	64	29	62
3	22	23	32	16	24	25	22	34	40	46	52	57
4	16	22	38	14	24	19	32	34	40	44	37	47
5	29	26	28	17	18	22	24	36	34	31	29	35
			20		10		24	30	34	51	23	33
6	17	20	30		16	24	29	34	36	40	32	32
7	19	26	29		23	24	24	32	34	33	50	26
8	29	25	27		29	35	24	34	36	39	38	29
9		23	21		21	19	22	36	30	36	36	27
10	20	26	15		18	20	22	30	30	32	39	28
								50		32	3,	20
11	38	29	13		18	19	24	32	30	31	39	36
12	25	22	35		16	21	32	28	30	25	37	30
13	29	22	20		23	21	29	30	32	31	37	34
14	42	30	19		39	36	22	31	19	34	36	28
15	36	34			24		21	27	15	35	34	29
15	50	34			24		21	21	13	33	34	29
16	40	36			17	26	22	26	10	28	32	29
17	23	34			16	20	20	30	20	23	38	28
18	43	44			16	20	23	34	19	26	51	24
19	34	28		34	8.0	26	25	33	19		41	40
20	24	28		18	12	22	26	38	18	48	41	38
			100									
21	23	56	13	33	20	42	21	32	25	27	43	31
22	23	32	16	24	20	34	22	29	10	34	39	32
23	25	34	16	25	20	36	19	33	19	36	38	35
24	37	26	22	27	20	26	20	38	16	34	48	31
25	36	25	23	24	23	26	22	38	10	27	37	31
26	26	32	17	21	34	25	24	22	1.6	24	27	20
27		31				25	24	32	16	36	37	30
	26		20	23	26	26	28	41	22	32	37	32
28	25	20	11	32	33	25	34	32	16	27	41	30
29	22	28	17	35		26	34	40	26	35	380	28
30	29	27	19	28		24	38		32	25	550	28
31	25		16	23		27				27	180	
MONTH	34	30	23		22	26	25	33	25	35	60	35
YEAR	MAX	380	MIN	8.0	MEAN	31						

#### 07385790 CHARENTON DRAINAGE CANAL NEAR BALDWIN, LA (CE 64450)

LOCATION.--Lat 29°49'23", long 91°32'30", T.14 S., R.9 E., St. Mary Parish, Hydrologic Unit 08080102, about 35 ft ( 10.7 m) southwest of Southern Pacific Railroad bridge, 0.7 mi (1.1 km) south of Baldwin.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1958-59, 1975 to current year.

PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 35.0°C July 13, 1978; minimum daily, 4.0°C Jan. 19, 1977.
CHLORIDE: Maximum daily, 680 mg/L Sep. 27, 1976; minimum daily, 5.1 mg/L May 5, 1977.

YEAR

MAX

35.0

MIN

6.0

MEAN

EXTREMES FOR CURRENT YEAR.-WATER TEMPERATURES: Maximum daily, 35.0°C July 13; minimum daily, 6.0°C Jan. 21, 22.
CHLORIDE: Maximum daily, 470 mg/L Oct. 8; minimum daily, 12 mg/L Feb. 12.

		TEM	PERATURE	(DEG. C)		WATER YEAR	R OCTOBER	1977 TO	SEPTEMBE	R 1978		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.0	22.0	9.0	11.0		12.5	14.5	20.5	28.5	31.0	31.0	28.0
	30.0	21.0		11.0	9.0	14.5	14.5	22.0	28.5	31.0	31.0	28.0
2 3	25.5	18.5		8.0	9.0	14.5	14.5	21.0	28.5	31.0	31.0	28.0
4	22.5	20.0		9.5	9.0	10.5	14.5	21.0	26.5	32.0	33.0	29.0
5	25.0	20.0		8.5	9.0	10.5	15.5	21.0	26.5	31.5	33.0	29.0
6	25.0	20.0		8.5	9.0	11.0	18.5	22.0	27.0	31.5	33.0	28.0
7	25.0	20.0		13.0	7.5	12.5		22.0	27.0	31.0	33.0	30.0
8	23.5	20.0		13.0	6.5	12.0	20.5	23.5	28.5	31.0	31.0	30.0
9	23.5	20.5		9.5	8.0	12.0	20.5	24.0	28.5	31.0	31.0	30.5
10	23.5	18.0		9.0	8.0	12.0	21.0	24.5	28.0	32.0	32.0	30.5
11	24.0	18.0		9.0	7.0	11.0	18.0	25.0	28.0	32.0	30.5	27.5
12	18.0	14.5		10.0	7.0	11.0	19.0	25.0	29.0	31.5	30.5	28.5
13	13.5	14.5		10.0	8.0	16.5	17.5	24.0	31.5	35.0	30.5	28.5
14	13.5	16.0		9.5	12.0	15.5	17.5	24.0	30.0	34.0	31.0	28.0
15	18.0	17.5		6.5	11.5	16.0	20.5	23.0	28.0	34.0	31.0	28.0
16	18.0	18.0		7.5	12.5	18.5	20.5	24.5	28.0	34.0	31.0	27.5
17	18.0	20.0		8.0	12.5	18.5	21.0	25.5	30.0	31.0	32.0	27.5
18	19.5			9.0	9.0	14.0	20.0	23.5	30.0	34.0	32.0	27.5
19	21.0			7.5	9.0	14.0	20.5	23.5	30.0	34.5	32.0	27.5
20	21.0			7.5	9.0	14.0	21.5	28.0	30.0	32.0	33.0	29.0
21	21.0			6.0	8.0	13.0	21.5	28.0	30.0	32.0	30.0	29.0
22	22.5		9.0	6.0	8.5	16.0	20.5	28.0	30.0	31.0	30.0	29.0
23	22.5		9.0	7.5	8.0	14.0	20.5	27.5	30.0	31.0	31.0	29.0
24	21.0		8.0	7.5	8.0	14.0	20.0	27.5	30.5	29.0	31.0	29.0
25	22.0		9.5	12.0	10.0	18.5	21.5	28.0	30.5	29.0	31.0	27.0
26	21.0		9.5	8.0	10.0	19.0	21.5	28.0	31.0	30.0	31.0	28.0
27	21.5		10.0	8.0	10.5	17.5	21.0	29.0	34.0	30.0	30.5	29.0
28	21.5		8.5	7.5	11.5	18.0	21.0	29.0	30.0	30.0	30.5	28.0
29	20.5		11.5	7.5		17.0	21.0	28.5	32.5	29.0	30.5	28.0
30	20.5		11.5	9.0		18.0	21.0	29.0	32.5	29.0	30.5	30.0
31	20.5		11.5	8.0		18.0		28.0		29.0	30.5	
MONTH	21.5			9.0	9.0	14.5	19.5	25.0	29.5	31.5	31.5	28.5

21.5

# 07385790 CHARENTON DRAINAGE CANAL NEAR BALDWIN, LA (CE 64450) -- Continued

# DISSOLVED CHLORIDE (CL), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	39	39	23		28	24	19	34	65	62	56
2	23	36		28	16	26	22	29	28	61	35	66
2	29	36		17	24	28	24	30	48	58	31	52
4	25	25		21	30	22	22	36	40	52	36	33
5	22	21		26	16	19	23	36	40	40	30	38
6	24	20		20	16	18	32	32	37	34	20	36
7	24	23		23	17	32		32	32	32	35	42
8	470	27		17	15	33	24	31	34	36	35	40
9	420	180		16	17	19	24	28	30	30		42
10	38	36		22	17	33	22	29	32	42	40	42
11	36	37		17	23	67	18	25	32	44	30	34
12	21	40		24	19	32	30	24	31	36	37	24
13	19	25		23	22	33	36	24	47	58	33	23
14	24	52		18	16	42	28	26	20	54	34	24
15	22	54		16	22	28	28	26	21	48	34	25
16	24	45		21	12	26	28	32	19	50	34	28
17	15	29		26	13	26	34	24	26	35	32	28
18	18			21	16	46	26	25	26	37	35	28
19	19		12.2	27	27	42	38	23	19	45	35	30
20	38			25	24	42	34	26	29		32	
20	36			25	24	42	34	20	29	47	32	28
21	26			26	21	40	34		26	42	36	31
22	25		14	25	16	36	30		20	38	36	31
23	25		18	34	26	33	28		20	40	40	30
24	28		14	31	35	33	30		19	33	32	36
25	27		28	35	24	22	28		23	39	26	35
26	19		18	18	25	22	33		20	32	24	39
27	19		20	28	25	24	35	28	39	31	26	42
28	18		17	21	32	27	24	26	35	22	24	29
29	32		15	25		23	22	34	34	32	36	27
30	31		33	24		26	23		34		30	20
31	36		20					30		27		39
31	36		20	29		24		30		30	28	
MONTH	53			23	21	31	28	28	30	41	33	35
YEAR	MAX	470	MIN	12	MEAN	33						

#### 07386980 VERMILION RIVER AT PERRY, LA

LOCATION.--Lat 29°57'04", long 92°09'22", Vermilion Parish, Hydrologic Unit 08080103, at bridge on State Highway 82 at Perry, 2.0 mi (3.2 km) south of Abbeville.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1966 to current year.

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: October 1965 to current year.

 ${\tt INSTRUMENTATION.--Water-quality\ monitor\ since\ October\ 1965.} \quad {\tt Sensor\ is\ 2\ ft\ (0.6\ m)\ above\ stream\ bottom.}$ 

EXTREMES FOR PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: Maximum, 6,200 micromhos July 11, 1972; minimum, 35 micromhos Dec. 7, 1971.

EXTREMES FOR CURRENT YEAR.--SPECIFIC CONDUCTANCE: Maximum, 470 micromhos Aug. 4; minimum, 60 micromhos Aug. 30.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 MEAN VALUES

DAY	OCT	NOV	DEC	NAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	215	100	180	120	270	300	310	275	245		105
2	210	230	130	175	90	270	280	330	315	240	240	130
3	245	200	130	185	100	290	275	325		230	400	155
4	310	170	140	200	95	265	290	375		240	470	160
5	330	165	150	195	95	265	265	370		240		155
6	310	215	150	185	100	280	260		255	240		180
7	265	235	145	185	110	275	260		140	235		195
8	280	235	145	105	110	275	265		85	240		185
9	245	220	140	90	115	275	275		130	235		170
10	180	225	140	170	125	280	280	385	145	225		160
11	140	225	140	180	125	265	275	320	160	235		135
12	75	225	155	175	130	270	210	290	150	245		135
13	85	230	160	155	140	275	170	255	155	230		130
14	120	225	110	160	145	275	220	290	160	240		150
15	140	215	135	205	165	285	220	305	160	250		170
16	175	225	140	205	165	280	220	295	165	220		170
17	195	240	130	170	195	280	225	275	170	220		175
18	180	240	145	155	210	280	245	220	180	230		220
19	170	245	160	175	220	280	240	200	195	240		230
20	165	250	170	150	230	275	250	305	195	330		230
21	170	245	165	170	225	285	265	220	205	280		225
22	170	220	180	180	215	290	270	220	205	210		225
23	170	230	175	180	225	290	275	245	220	200		190
24	170	270	170	130	240	300	280	285	230	165		200
25	175	285	175	70	240	370	295	300	240	170		205
26	195	355	180	85	250	330	300	290	240	195		195
27	205	285	185	115	255	340	305	270	240			165
28	210	200	195	115	255	360	305	270	245			155
29	215	140	185	115		345	305	225	235			140
30	220	120	110	120		315	305	215	245		60	135
31	220		130	125		310		260			90	
MEAN	198	226	150	155	168	292	264	283	198	232	252	173

### 295010092080100 VERMILION RIVER (NEAR BANKER) NEAR HENRY, LA (CE 67875)

LOCATION.--Lat 29°50'10", long 92°08'01", T.14 S., R.3 E., Vermilion Parish, Hydrologic Unit 08080103, 4.6 mi (7.4 km) southwest of Henry.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- January 1978 to September 1978.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CGN- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CACO3)
JAN												
26	1025	66	6.8	120	90	7.8	52	3.4	13000	K3400	17	0
FEB 17	1035	150	7.0	80	80	7.8	33	2.7	K2600	1000	31	1
MAR												
17 APR	1005	611	7.1	100	180	6.6	45	6.0	200	150	82	32
20	1100	243	6.8	120	150	5.2	46	1.2	K220	170	72	21
MAY	0.055	210	6 0						-20		1	
24	0955	319	6.8	60	65	2.7	36	2.3	K550	<5	70	8
21	0945	184	7.0	100	40	3.7	140	4.2		K70	51	10
JUL 17	1020	265	7.1	50	60	2.7	36	2.7	K2500	K130	58	4
SEP					00	2.1	30		K2500	K130	56	4
01	0935	561	6.6	50	60		34	2.3		430	65	40
13	1110	116	6.8	90	35	6.2	33	3.2	8800	42	29	3
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SUDIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JAN										200	4.0	
26 FEB	4.4	1.5	12	56	1.3	2.5	21	0	17	5.3	10	11
17	7.3	3.0	16	51	1.3	2.4	37	0	30	5.9	7.6	20
MAR 17	19	8.4	140	77	6.7	7.7	61	0	50	7.8	36	220
APR 20	16	7.7	42	54	2.2	4.1	62	0	51	16	14	66
MAY	-		100							7.2		
24	17	8.2	43	53	2.1	5.2	75	0	62	19	15	66
JUN 21	11	5.6	23	48	1.4	3.5	50	0	41	8.0	11	34
JUL			2.1						E 4			15
17 SEP	14	5.5	31	52	1.8	3.4	66	0	54	8.4	11	45
			70	7.0			2.1		25		20	1.0
01	10	9.6	79	70	4.3	7.0	31	0	25	12	20	140

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

# 295010092080100 VERMILION RIVER (NEAR BANKER) NEAR HENRY, LA (CE 67875)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO GEN, NITRIT TOTAL (MG/L AS N)	GEN E NOZ+N TOTA	0- GEN , MON 03 ORG L DI L (M	THO- AM- IA + ANIC S. G/L N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
JAN 26	282	<1.0	.17	.0	5 .	22	2.5	.41	4	2	2	0	0
FEB 17	149	<1.0	•19			25	.61	.39	3	2	1	10	10
MAR 17	216	<1.0	-41	. 0	5 .	46	2.3	.45	2	1	1	0	0
APR 20	84	<1.0	.78	.0	9 .	87	1.8	.40	3	1	2	0	0
1AY 24	33	<1.0	.62	.0	5 .	67	1.2	.39	5	3	2	0	0
JUN 21	44	<1.0	.04	.0	1 .	05	.51	.09	4	1	3	0	0
JUL 17	28	<1.0	.76	.0	2 .	78	.92	.36	4	2	2	0	0
SEP 01	152	<1.0	.05			08	.74	.32	4	1 0	3	0	0
13	8	<1.0	• 14	• (	•	18	1.1	.48	4	U	,	Ü	Ü
DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIC DIS- SOLVE (UG/L	RECO D ERAB	N MI N HE N V VAL	ENT, OIS. JG/L	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER+ SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER+ DIS- SOLVED (UG/L AS CU)	IRON+ DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
JAN 26	0	1	0		1	20	0	14	9	5	240	13	12
FEB 17	0	1	0		1	10	0			3	130	12	11
MAR 17	0	1	0		1	10	0	10	3	7	100	3	3
APR 20	0	2	C		2	30	0	14	6	8	420	11	8
MAY 24	0	0			0	5	0	9	4	5	60	5	5
JUN 21	0	0	C		0	0	0	8	2	6	130	8	8
JUL 17	0	2	(		2	10	0	8	0	8	80	17	14
01 13	0	0	0		0	10	0	8	4 0	7	80 160	7 8	7 8
15													
DA	50 (U	AD, TO IS- RE LVED ER G/L (U	CURY STAL PECOV- REABLE ER	ABLE S		NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICK SU PEN REC ERA (UG AS	S- DED NICK OV- DIS BLE SOL /L (UG	VED TOT	JM PEN TAL TOT	IM+ SELE IS- NIUM IDED DIS IAL SOLV	6- DIC ED SOL	JM, [S- _VED 5/L
JAN	N 5	1	.3	.3	.0	13		10	3	1	1	0	3.0
FEE		1	.0	.0	.0	7		6	1	0	0	0	2.0
MAR		0	.0	.0	.0	9		7	2	0	0	0	
APF		3	.0	.0	.0	6		4	2	0	0	0	1.0
MAY		0	.0	.0	.0	10		10	0	0	0	0	1.0
JUL		0	• 0	• 0	.0	2		2	0	0	0	0	1.0
JUL	7	3	.1	.1	.0	11		7	4	0	0	0	.0
SEF 01	1	0	.0	.0	.0	8		7 5	1	0	0	0	3.0
1.	3	U	• 0	• 0	. 0	0		3		U	U	v	

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

# 295010092080100 VERMILION RIVER (NEAR BANKER) NEAR HENRY, LA (CE 67875)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ZINC+ TOTAL RECOV- EKABLE (UG/L AS ZN)	ZINC+ SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD • TOTAL (UG/L)
JAN 26	70	50	20	12	.00	3	0	• 0	.00	.000	.0	.003
FEB 17	60	50	10	13	.00	2	0	.0	.00	.000	.0	.004
MAR 17	40	30	10	12	.00	2	0	.0	.00	.000	.0	.000
APR 20	30	20	10	15	.00	0	0	.0	.00	.000	.0	.003
MAY 24	20	10	10	9.3	.00	2	0	.0	.00	.000	.0	.003
JUN 21	10	0	10	6.0	.00	2	0	.0	.00	.000	.0	.002
JUL 17	20	10	10	9.5	.00	2	0	.0	.00	.000	.0	.000
01 13	20	10 20	10	9.4 12	•00	4 5	0	• 0	.00	.000	.0	.000
DATE	DDE+ TOTAL (UG/L)	DDT. TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN+ TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR• TOTAL (UG/L)
JAN 26	.000	.000	• 02	.008	.000	.000	.00	.000	.005	.001	.00	.00
FEB 17	.002	.003	•02	.004	.000	.000	.00	.001	.000	.001	.00	.00
MAR 17	.000	.000	.05	.004	.000	.000	.00	.000	.000	.002	.00	.00
APR 20	.000	.000	.04	.009	.000	.000	.00	.000	.002	.000	.00	.00
MAY 24	.000	.003	.03	.007	.000	.000	.00	.001	.002	.000	.02	.00
JUN 21	.000	.002	• 0 4	.006	.000	.000	•00	.000	.002	.000	.00	.00
JUL 17	.000	.000	.03	.000	.000	.000	.00	.000	.000	.000	.00	.00
01 13	.000	.000	.02	.003	.000	.000	.00	.000	.000	.002	.00	.00
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JAN 26	.00	•00	•00	.00	0.0	.00	•00	.00	.02	.01	.000	.000
FEB 17	.00	.00	.00	.00	0.0	.00	.00	.01	.00	.00	.000	.000
MAR 17	.00	.00	.00	.00	0.0	.00	.00	.03	.00	.00	2.99	.000
APR 20	.00	.00	•00	.00	0.0	.00	.00	.27	.04	.02	.000	.000
MAY 24	• 0 0	• 0 0	• 0 0	.00	0.0	.00	.00	.11	.12	1.1	4.83	.000
JUN 21	.00	.00	.00	.00	0.0	.00	.00	.12	.04	.03	6.55	.000
JUL 17	.00	.00	.00	.00	0.0	.00	.00	.00	.00	.00	7.80	.000
SEP 01	.03	•00	•00	.00	0.0	.00	•00	.14	.07	.01	6.19	.000
13	.19	.00	.00	.00	0.0	.00	.00	.02			0.17	.000

### 294150092055000 VERMILION BAY AT REDFISH POINT, NEAR HENRY, LA (CE 96118)

LOCATION.--Lat 29°41'50", long 92°05'50", T.15 S., R.3 E., Vermilion Parish, Hydrologic Unit 08080103, 12.9 mi (20.8 km) south southwest of Henry.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- January 1978 to September 1978.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
JAN			7.0									
26 FEB	1010	1120	7.2	120	50	11.2	90	2.7	K3000	560	110	72
17 MAR	1020	1460	7.2	100	65	10.8	42	1.6	K120	K100	130	95
17	1025	9160	7.5	30	80	8.8	160	1.1	к56	48	920	870
APR 20	1045	11900	7.7	10	40	8.3	83	1.1	K20	<5	1300	1200
MAY	2015	12200	7.0		2.0				5000		1000	
24 JUN	0945	12200	7.9	15	30	7.6	110	3.0	5000	<5	1200	1100
21	0915	8290	7.8	60	30	7.7	32	1.5	1200	<5	1100	1000
JUL 17	1030	7440	7.6	20	30	6.8	90	.6	K5500	22	790	750
SEP 01	0930	2340	6.9	20	20	5.3	43	.7		K20	210	190
13	1100	5670	7.6	30	20	8.7	82	2.6	2900	140	520	470
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JAN 26	13	18	170	76	7.2	8.5	46	0	38	4.6	41	280
FEB									35			
17 MAR	14	23	200	75	7.6	9.2	43	0	35	4.3	48	370
17 APR	70	180	1300	73	19	110	61	0	50	3.1	340	2500
20	89	260	2200	77	27	82	73	0	60	2.3	520	3700
MAY 24	86	240	2200	78	28	88	71	0	58	1.4	540	3700
JUN 21	64	220	1400	73	19	61	63	0	52	1.6	340	2600
JUL 17	54	160	1200	75	19	52	49	0	40	2.0	280	2300
SEP 01	20	40	370	77	11	17	34	0	28	6.8	90	660
13	43	100	1000	79	19	39	54	0	44	2.2	210	1800

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

# 294150092055000 VERMILION BAY AT REDFISH POINT, NEAR HENRY, LA (CE 96118) -- Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLI RESI AT I DEG SUS PEND	DUE 105 S	ETTLE- ABLE MATTER ML/L/ HR)	NITRO GEN• NITRAT TOTAL (MG/L AS N)	E NIT	ITRO- GEN: FRITE DTAL MG/L G N)	NITRO- GEN; NO2+NO3 TOTAL (MG/L AS N)	GEN MON ORG DI (M	TRO- ,AM- IA + ANIC S. G/L N)	TO (M	OS- RUS, TAL G/L P)	TO (U	ENIC TAL G/L	RSENI SUS- PENDE TOTAL (UG/L AS AS	D S	RSENIC DIS- GOLVED UG/L (S AS)	BER'LIUI TOTA RECO ERAI (UG.	M. AL OV- BLE /L	BERYL- LIUM. SUS- PENDED RECOV. (UG/L AS BE	
JAN 26	1	190	<1.0	. 2	3	.05	.28		2.2		.60		8		7	1		0		0
FEB 17		390	<1.0	• 2		.08	.29		.56		. 29		3		3	0		0	(	0
MAR 17		91	<1.0	.1		.01	.13		2.0		.17		1		1	0		0		0
APR 20		62	<1.0	.1		.01	.14		.65		.07		1		1	0		0		0
MAY 24		19	<1.0	.0		.01	.01		.52		.08		1		1	0		0		0
JUN													2		0	2		0		0
21 JUL		29	<1.0	.6		.02	.62		.50		.37									
SEP		26	<1.0	• 0		.00	.02		.93		.13		4		0	3		10		0
13		31 5	<1.0 <1.0	•1		.02	.16		.76		.07		2		1	1		0		0
DA	ΤE	BERYL LIUM, DIS- SOLVE (UG/L AS BE	TOTA RECO D ERAB	IUM AL P OV- R BLE E	OMIUM SUS- ENDED ECOV- RABLE UG/L S CD)	CADMII DIS- SOLVE (UG/I AS CE	- REC	AL OV-	CHRO MIUM HEXA VALEN DIS (UG/ AS C	(, (, ) (, ) (, )	COPPE TOTA RECO ERAE (UG/ AS C	AL OV- BLE /L	COPPER SUS- PENDE RECOV- ERABLI (UG/L AS CU	D CO	PPER, IS- OLVED UG/L S CU)	DIS	ED L	LEAD TOTA RECO ERAB (UG/AS P	NL DV <del>-</del> BLE 'L	
NAL																				
FEB			0	0	0		0	20		0		24		9	15		10		27	
MAR			0	1	0		1	30		0		17		0	17		40		13	
APR			0	1	0		1	10		0		5		0	5		20		3	
MAY	• • •		0	3	0		3	20		0		8		5	3		20		6	
JUN	• • •		0	0	0		0	10		0		7		4	3		20		4	
			0	0	0		0	5		0		5		1	4		90		4	
		1	0	3	0		3	0		0		6		0	6		30		5	
01	•••		0	1	0		0	10		0		6		2	5		50 40		5	
DA	ΤE	LEAD, SUS- PENDE RECOV ERABL (UG/L AS PB	E SOLV	), TO 5- RI /ED EI	RCURY DTAL ECOV- RABLE JG/L G HG)	MERCUF SUS- PENDE RECOV ERABL (UG/L AS HO	ED MERC V- DI LE SOL	S- VED	NICKE TOTA RECO ERAB (UG/ AS N	L IV- ILE	NICKE SUS PEND RECO ERAB (UG/ AS N	S- DED DV- BLE 'L	NICKEL DIS- SOLVEI (UG/L AS NI	) T	ELE- IUM, OTAL UG/L S SE)	SELE NIUM SUS PEND TOTA (UG/ AS S	ED L	SELE NIUM DIS SOLV (UG/ AS S	i, ;- /ED /L	
JAN		2	5	2	1		1	0		24		20			,		1		0	
FEB					.1		.1	.0		24		20		+	1		1		0	
MAR		1		1	•2		.2	. 0		9		8		1	0		0		0	
APR	•••		3	0	• 0		. 0	• 0		8		7		1	0		0		0	
MAY			4	2	.0		.0	.0		3		1		2	0		0		0	
JUN			4	0	. 0		. 0	.0		6		6		)	0		0		0	
JUL	•••		4	0	• 0		. 0	• 0		0		0		0	0		0		0	
17 SEP	• • •		1	4	. 1		, 1	.0		7		2		5	0		0		0	
01 13	• • •		2	3	.0		0	.0		3		3		3	0		0		0	

<sup>&</sup>lt; Actual value is known to be less than the value shown.

# 294150092055000 VERMILION BAY AT REDFISH POINT, NEAR HENRY, LA (CE 96118)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SULVED (UG/L AS ZN)	CARBON+ ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES. POLY- CHLOR. TOTAL (UG/L)	ALDRIN; TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)
JAN									0.0	.000		.000
26 FEB	100	80	20	32	.00	5	0	. 0	.00		.0	.000
17 MAR	40	30	10	17	.00	1	0	. 0	.00	.000	. 0	
17 APR	20	0	20	8.2	• 0 0	2	0	• 0	.00	.000	.0	4000
20	20	0	20	6.1	.00	0	0	. 0	.00	.000	. 0	.000
24 JUN	30	10	20	7.2	.00	2	0	. 0	.00	.000	. 0	.000
21	20	0	20	9.1	.00	3	0	. 0	.00	.000	. 0	.000
JUL 17	30	0	30	6.4	.00	2	0	. 0	.00	.000	. 0	.000
01 13	20 10	0	20 10	6.6 7.4	.00 .00	5	0	. 0 . 0	.00	.000	. 0 . 0	.000
DATE	DDE, TOTAL (UG/L)	DDT, TCTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN 26	.000	.000	•01	.004	.000	.000	.00	.000	.000	.000	.00	.00
FEB 17		.000	.01	.003	.000	.000	.00	.000	.000	.000	.00	.00
MAR	.000		•00	.001	.000	.000	.00	.000	.000	.000	.00	.00
17 APR	.000	.000					.00	.000	.000	.001	.00	.00
20 MAY	.000	.000	.01	.001	.000	.000					.00	.00
24 JUN	.000	.000	.01	.001	.000	.000	.00	.000	.000	.001		.00
21 JUL	.000	.000	• 0 1	.000	.000	.000	.00	.000	.000	.000	.00	
17 SEP	.000	.000	.01	.000	.000	.000	.00	.000	.000	.000	.00	.00
01	.000	.000	•01	.001	.001	.000	.00	.000	.001	.001	.00	.00
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TCTAL TRI- THIUN (UG/L)	MIREX+ TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JAN 26	.00	.00	• 0 0	.00	0.0	.00	.00	.00	.00	.00	1.93	.000
FEB 17	.00	.00	•00	.00	0.0	.00	.00	.00	.00	.00	.000	.000
MAR 17	.00	.00	.00	.00	0.0	.00	.00	.01	.00	.00	13.3	.690
APR 20	.00	.00	• 0 0	.00	0.0		.00	.02	.00	.01	9.58	.000
MAY 24	.00	.00	•00	.00	0.0		.00				19.5	.000
JUN 21	.00	.00	.00	.00	0.0		.00	.03	.00	.04	7.49	.000
JUL 17	.00	.00	•00	.00	0.0		.00	.01	.00	.01	14.0	.000
SEP	.03	.00	.00	.00	0.0		.00	.05	.02	.01	3.01	.000
13	.00	.00	.00	.00	0.0		.00	.00	.00	.00	.210	.000

### 294110091533000 VERMILION BAY AT CYPREMORT POINT, NEAR LOUISA, LA (CE 88850)

LOCATION.--Lat 29°41'10", long 91°53'30", R.6 E., T.15 S., Iberia Parish, Hydrologic Unit 08080103, at Cypremort Point, 13 mi (21 km) south of Avery Island, 8 mi (13 km) southwest of Louisa.

DRAINAGE AREA. -- Indeterminate

PERIOD OF RECORD. -- Water years 1974 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: October 1977 to current year. CHLORIDE: October 1974 to current year.

SPE-

CIFIC

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD .--

CHLORIDE (water year 1975): Maximum, 4,900 mg/L Oct. 30, 1975; minimum, 240 mg/L May 8, 1975.

WATER (	YTT IAUC	DATA.	WATER	YFAR	OCTOBER	1977	TO	SEPTEMBER	1978

OXYGEN

DEMAND, DEMAND,

OXYGEN

COLI-

COLI-

FORM,

HARD-

DATE	TIME	CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	CHEM- ICAL (HIGH LEVEL) (MG/L)	BIO- CHEM- ICAL, 5 DAY (MG/L)	TOTAL, IMMED. (COLS. PER 100 ML)	FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	NESS; NONCAR- BONATE (MG/L CACO3)
ОСТ												
26	1245	8290	7.9	10	10	8.9	160	2.5			870	800
15 DEC	1155	19800	8.0	10	6		320		1	140	2400	2300
19 JAN	1245	8270	7.9	25	25	9.0	120	.7	K72	к35	840	770
26	1000	8680	7.5	40	60	11.6	200	3.5	K1800	K68	840	780
17	1000	4540	7.4	30	40	11.4	48	2.8	<5	<5	420	370
MAR 17	0945	11500	7.5	20	100	8.9	96	2.7		K10	1100	1000
APR 20	1030	8450	7.5	20	45	8.4	35	1.4	<5	<5	890	830
MAY 24	0920	4790	8.1	15	40	8.0	76	2.2	K36	K4	510	440
JUN 20	1300	6650	7.8	20	9	8.3	110	2.0	K30	<5	620	560
JUL 14	1230	7480	7.7	20	5	7.4	59	1.5	<5	<5	760	710
AUG 30	1405	1030	7.4	30	15	6.5	25	.8	1100	K12	140	85
SEP 12	1420	4480	7.3	20	10	8.9	42	.3	<5	<5	440	410
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 26	68	170					84	0	69	1.7	310	2400
NOV 15	150	480					112	0	92	1.8	920	7000
DEC 19	72	160	1400	77	21	43	81	0	66	1.6	350	2500
JAN 26	72	160	1400	77	21	58	76	0	62	3.8	360	2500
FEB 17	40	77	670	76	14	26	57	0	47	3.6	150	1200
MAR 17	96	210	1800	76	24	120	73	0	60	3.7	440	3200
APR 20	76	170	1500	77	22	53	72	0	59	3.6	290	2700
MAY 24	51	93	840	77	16	32	80	0	66	1.0	200	1400
JUN 20	51	120	1100	78	19	44	73	0	60	1.9	260	2000
14	56	150	1300	78	21	50	58	0	48	1.9	300	2300
30	26	19	140	67	5.1	7.0	71	0	58	4.5	64	250
SEP 12	39	84	780	78	16	31	42	0	34	3.4	170	1400

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

# 294110091533000 VERMILION BAY AT CYPREMORT POINT, NEAR LOUISA, LA (CE 88850)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
OCT						1.23						
26	23	<1.0	.00	.01	.01	.51	.12	2	0	2	0	0
NOV 15	40	<1.0	.06	.01	.07	.43	.10	1	0	1	0	0
DEC	- 60								0	1	0	0
19	37	<1.0	.21	.00	.21	.50	.11	1	U	1	U	U
JAN 26	334	<1.0	.27	.01	.28	3.5	.27	3	2	1	10	10
FEB 17	38	<1.0	.32	.02	.34	.54	.10	1	1	0	0	0
MAR	50	-1.0	•52	.02	•	•						
17	105	<1.0	.01	.01	.02	.66	.19	1	1	0	0	0
APR	46	<1.0	•29	.01	.30	.80	.10	2	1	1	0	0
20 MAY	40	11.0	• 2 9	.01	.50	•00	•10	_		- 7		
24	71	<1.0	•13	.02	.15	.70	.09	2	1	1	0	0
JUN 20	5	<1.0	.05	.00	.05	.44	.07	3	0	3	0	0
JUL									- 12			
14	2	<1.0	• 02	.00	.02	.61	.08	2	0	2	10	0
AUG 30	49	<1.0	• 25	.01	.26	.64	.09	2	0	2	10	10
SEP 12	3	<1.0	.10	.05	.15	.64	.09	1	0	1	0	0

OCT	<100
26 0 10 10 0 20 0 2 0 2 20 NOV	
15 0 1 0 1 0 0 5 0 5 50	2
DEC	2
19 0 0 0 0 0 0 3 1 2 40 JAN	2
26 0 1 0 1 10 0 13 3 10 120	8
FEB	_
17 0 2 0 2 10 0 39 37 2 40	5
MAR 17 0 1 0 1 10 0 5 3 2 180	1
APR	
20 0 2 0 2 10 0 3 0 3 30	3
MAY 24 0 0 0 0 10 0 7 4 3 0	3
JUN	
20 0 1 0 1 0 0 4 2 2 30	3
JUL 14 10 1 0 1 0 0 7 3 4 20	8
	0
AUG 30 0 0 0 0 0 0 6 2 4 20	2
30 0 0 0 0 0 0 6 2 4 20 SEP	_
12 0 0 0 0 10 0 4 1 3 20	3

<sup>&</sup>lt; Actual value is known to be less than the value shown.

# 294110091533000 VERMILION BAY AT CYPREMORT POINT, NEAR LOUISA, LA (CE 88850)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAT	PEN REC ERA (UG	IS- IDED L IOV- IBLE S	EAD, DIS- GOLVED (UG/L AS PB)	MERCUI TOTAL RECO ERABI (UG/ AS H	V PEN V REC LE ERA L (UG	S- DED OV- BLE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKE TOTA RECO ERAB (UG/ AS N	L, V- LE	ICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	DIS- SOLV (UG/	ED TO	LE- JI , TAL S/L SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE	SE NI D D SO	LE- UM, IS- LVED G/L SE)	
OCT 26.		<99	1		. 0	. 0	.0		50	<49		1	0		0	0	
NOV													0				
15. DEC		1	1		• 0	• 0	• 0		4	3		1			0	0	
19. JAN		2	0		. 1	. 1	.0		6	4		2	0		0	0	
26.		7	1		. 0	. 0	. 0		11	7		4	0		0	0	
FEB 17.		5	0		. 4	. 4	. 0		15	13		2	0		0	0	
MAR		1	0		.0	.0	.0		4	3		1	0		0	0	
17. APR																	
ZO.		3	0		. 0	• 0	• 0		10	5		5	0		0	0	
Z4. JUN		3	0		. 0	• 0	• 0		6	6		0	0		0	0	
20.		3	0		.1	. 1	. 0		6	5		1	0		0	0	
JUL 14.		6	2		. 0	. 0	.0		10	7		3	0		0	0	
AUG 30.		2	0		. 0	.0	. 0		3	3		0	0		0	0	
SEP 12.		2	1		. 0	. 0	.0		3	1		2	0		0	0	
DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC SUS- PENDE RECOV ERABL (UG/L AS ZN	ED 4I V- D LE SO		CARBON, ORGANIC TOTAL (MG/L AS C)	CYAN TOT (MG AS	AL PHI	ENOLS	OIL AND GREA (MGA	SE T	PCB, OTAL UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDR TOT (UG		CHLOR- DANE, TOTAL (UG/L)	TO	DD; TAL
OCT 26	20	j	10	10	10		.00	4		0	.0	.00		000	.0	)	.000
NOV 15	40		0	40	8.8		.00	2		0	. 0	.00		000	. 0	)	.000
DEC 19	30		20	10	8.9		.00	2		0	.0	.00		000	.0	)	.000
JAN 26	50		20	30	49		.00	4		0	. 0	.00		.000	. 0	)	.000
FEB 17	30		10	20	8.7					0	.0	.00		.000	. (	)	.000
MAR 17	30		20	10	9.0		.00	1		0	.0	.00		.000	. 0	)	.000
APR														.000			.000
20 MAY	30		10	20	9.1		.00	2		0	• 0	.00			• 0		
24 JUN	20		10	10	10		.00	1		0	. 0	.00		.000	. (	)	.000
20 JUL	10		0	10	7.5		.00	2		0	• 0	.00		.000	. (	)	.000
14	20		0	20	7.4		.00	1		0	• 0	.00		.000	. (	)	.000
AUG 30	10		0	10			.00	2		0	• 0	.00		.000	. (	)	.000
SEP 12	10		10	0	9.7		.00	1			.0	.00		.000	. (	)	.000

<sup>&</sup>lt; Actual value is known to be less than the value shown.

# 294110091533000 VERMILION BAY AT CYPREMORT POINT, NEAR LOUISA, LA (CE 88850) -- Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE * TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN. TOTAL (UG/L)	ETHION. TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
OCT 26	.000	.000	.00	.000	.000	.000	•00	.000	.000	.000	.00	.00
NOV 15			.00	.000	.000	.000	.00	.000	.000	.001	.00	.00
DEC 19	.000	.000	•00					.000	.000	.000	.00	
JAN	.000	.000		.000	.000	.000	.00					.00
26 FEB	.000	.000	•01	.001	.000	.000	•00	.000	.000	.000	.00	.00
17 MAR	.000	.000	.01	.000	.000	.000	.00	.000	.000	.000	.00	.00
17 APR	.000	.003	• 0 0	.001	.000	.000	• 0 0	.000	.000	.000	.00	.00
20	.000	.000	.01	.001	.000	.000	.00	.000	.000	.000	.00	.00
24	.000	.000	• 02	.001	.000	.000	.00	.000	.000	.000	.00	.00
JUN 20	.000	.000	.01	.000	.000	.000	.00	.000	.000	.000	.00	.00
14	.000	.000	.01	.000	.000	.000	.00	.000	.000	.001	.00	.00
AUG 30	.000	.000	.01	.002	.000	.000	.00	.000	.000	.001	.00	.00
SEP 12	.000	.000	.01	.000	.000	.000	.00	.000	.000	.001	.00	.00
											CHLOR-A	CHLOR-B
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
ост	PARA- THION, TOTAL	TRI- THION, TOTAL	THION,	THANE	APHENE,	TRI- THION	TOTAL	TOTAL	TOTAL	TOTAL	PHYTO- PLANK- TON CHROMO FLUOROM	PHYTO- PLANK- TON CHROMO FLUOROM
0CT 26	PARA- THION, TOTAL (UG/L)	TRI- THICN, TCTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 26 NOV 15	PARA- THION, TOTAL (UG/L)	TRI- THIGN, TOTAL (UG/L)	THION, TOTAL (UG/L) -00	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L) 0.0	TRI- THION (UG/L)	TOTAL (UG/L) .00	.02	.01	.02	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 4.70 2.50	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 26 NOV 15 DEC 19 JAN	PARA- THION, TOTAL (UG/L) .00 .00	TRI- THICN, TCTAL (UG/L) .00	**THION, TOTAL (UG/L)  -00 -00 -00	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L) 0.0 0.0	TRI- THION (UG/L) .00 .00	.00 .00	.02 .01	.01 .03	.02 .01	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 4.70 2.50 4.90	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .533 .000
OCT 26 NOV 15 DEC 19 JAN 26 FEB	PARA- THION, TOTAL (UG/L) .00 .00	TRI- THICN, TOTAL (UG/L) .00 .00	THION, TOTAL (UG/L) .00 .00	THANE TOTAL (UG/L) .00 .00	O.O O.O O.O	TRI- THION (UG/L) .00 .00	.00 .00 .00	.02 .01 .01	.01 .03 .02	.02 .01 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 4.70 2.50 4.90 7.73	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .533 .000 .000
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17	PARA- THION, TOTAL (UG/L) .00 .00 .00	TRI- THICN, TOTAL (UG/L) .00 .00 .00	THION, TOTAL (UG/L) -00 -00 -00 -00	THANE TOTAL (UG/L) .00 .00 .00	0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00	.00 .00 .00 .00	.02 .01 .01 .03	.01 .03 .02 .00	.02 .01 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 4.70 2.50 4.90 7.73 8.84	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .533 .000 .000
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR	PARA- THION, TOTAL (UG/L) .00 .00 .00	TRI- THICN, TCTAL (UG/L) .00 .00 .00	THION, TOTAL (UG/L) -00 -00 -00 -00	THANE TOTAL (UG/L) .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00	.00 .00 .00 .00	.02 .01 .01 .03 .03	.01 .03 .02 .00 .01	.02 .01 .00 .00	PHYTO- PLANK- TON CHROMO FLUGROM (UG/L) 4.70 2.50 4.90 7.73 8.84 26.6	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .533 .000 .000 .000
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY	PARA- THION, TOTAL (UG/L) .00 .00 .00 .00	TRI- THICN, TCTAL (UG/L) .00 .00 .00 .00	THION, TOTAL (UG/L) -00 -00 -00 -00 -00	THANE TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00 .00	.00 .00 .00 .00 .00	10TAL (UG/L) .02 .01 .01 .03 .03 .06	10TAL (UG/L)  .01 .03 .02 .00 .01 .01	.02 .01 .00 .00 .01 .01	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 4.70 2.50 4.90 7.73 8.84 26.6	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .533 .000 .000 .000 .000 1.00 3.95 1.36
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20	PARA-THION, TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00 .00	TRI- THICN, TCTAL (UG/L) .00 .00 .00	THION, TOTAL (UG/L) -00 -00 -00 -00	THANE TOTAL (UG/L) .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00	.02 .01 .01 .03 .03 .06 .14	.01 .03 .02 .00 .01 .01	.02 .01 .00 .00 .01 .01	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 4.70 2.50 4.90 7.73 8.84 26.6 13.1 51.8	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .533 .000 .000 .000 1.00 3.95 1.36 .700
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 APR 20 MAY 24 JUN 20	PARA- THION, TOTAL (UG/L) .00 .00 .00 .00	TRI- THICN, TCTAL (UG/L) .00 .00 .00 .00	THION, TOTAL (UG/L) -00 -00 -00 -00 -00	THANE TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00 .00 .00	.00 .00 .00 .00 .00	10TAL (UG/L) .02 .01 .01 .03 .03 .06	10TAL (UG/L)  .01 .03 .02 .00 .01 .01	.02 .01 .00 .00 .01 .01	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 4.70 2.50 4.90 7.73 8.84 26.6	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .533 .000 .000 .000 .000 1.00 3.95 1.36
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN 20 JUN 20 JUL 14	PARA-THION, TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00 .00	TRI- THICN, TOTAL (UG/L) .00 .00 .00 .00 .00	THION, TOTAL (UG/L) .00 .00 .00 .00 .00 .00	THANE TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00	.02 .01 .01 .03 .03 .06 .14	.01 .03 .02 .00 .01 .01 .00	.02 .01 .00 .00 .01 .01	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 4.70 2.50 4.90 7.73 8.84 26.6 13.1 51.8	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .533 .000 .000 .000 1.00 3.95 1.36 .700
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN 20 JUL	PARA-THION, TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00 .00 .00	TRI- THICN, TCTAL (UG/L) .00 .00 .00 .00 .00	THION, TOTAL (UG/L) -00 -00 -00 -00 -00 -00	THANE TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00	10TAL (UG/L)  .02  .01  .03  .03  .06  .14  .01  .05	.01 .03 .02 .00 .01 .01 .00	.02 .01 .00 .00 .01 .01 .11	PHYTO- PLANK- TON CHROMO FLUGROM (UG/L) 4.70 2.50 4.90 7.73 8.84 26.6 13.1 51.8 16.2	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .533 .000 .000 .000 .000 1.00 3.95 1.36 .700 .000

MONTH

### MISSISSIPPI RIVER DELTA

# 294110091533000 VERMILION BAY AT CYPREMORT POINT, NEAR LOUISA, LA (CE 88850) -- Continued

TEMPERATURE (DEG. C) OF WATER. WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

					0	NCE-DAILY						
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					6.0	14.0	11.0		27.5			27.0
2						13.5	18.0		27.5			29.0
3						11.0	18.0		27.5			29.0
4					7.0	8.0	20.0		27.0			26.0
5												
6				11.0		11.0	20.0		26.5			28.0
7				12.5		10.0	23.0		27.0			26.0
9				5.5		8.0	23.5		27.0		28.0	26.0
10				5.5	5.0	9.0	23.5		28.0		28.0	26.0
11				5.5		10.0	23.0		29.5			26.0
12				7.0		13.5	23.5		28.5		28.0	26.0
13				6.0 4.5		14.0	23.0		28.0		28.0	28.0
14 15			13.0	3.5	9.5	15.0	22.0				28.0	28.0
16			15.0	6.0	9.0	15.0	22.5		27.5		28.0	28.0
17				5.5	10.0	15.5	22.5		20.0			28.0
18			13.5	4.5	8.0	18.0	23.0					29.0
19 20			14.5	2.5	9.0	14.0	23.0					29.0
21			10.5	2.0	7.0	17.5						28.0
22			8.0	4.0	7.0	18.0						29.0
23			10.0	5.5	9.0	17.0						27.0
24			11.0	9.0	9.0	14.5						26.0
25			13.0		11.5	14.0						26.0
26			13.5		12.0	16.5						26.0
27			13.5	6.5	12.0	16.0						26.0
28 29			14.5		14.5	17.5 17.0						26.0
30			15.0			17.5						24.0
31						17.0						
MONTH						14.0						27.0
		DIS	SOLVED CH	ORIDE (C	L) + MG/L +	WATER YEA	AR OCTOBER	1977 TO S	SEPTEMBER	₹ 1978		
4.0			255				ADD		UNI	JUL	AUG	SEP
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL		
1					2200	6400	4400		2000			1800
2						5800	3900 4100		2000			1900 1800
3						4000 3500	3800		2100			1700
5					2000	3600	3400		2000			1800
6				3300		3100	3500		2100			1700
7				3300		3200	3600		2100			1700
8				2800		3300	2600		2000			1700
9				3000		3500	2400		2100		2100	1600
10				2800	1600	3500	2300		2000		2300	1500
11				2100		3600	2500		2000			1500
12				2900		3400	3100		2000			1500
13				2800		3600	3000		1000		2300	1400
14 15			2900	2100	1300	4000 3300	1600		1200		2400 2200	1600 1500
			2800	2400	1200	3200	2100		1400		2300	1500
16 17				2200	1400	3300	2500		1700			1400
18			2700	2000	1100	3300	2400					1400
19				2200	1200	3200	2400					1400
20			2700	2200	1200	3300						1200
21			2600	1800	1200	3400						1200
22			2200	3000	1200	4100						1300
23			2000	3400	1100	4000						1300 1200
24 25			3600 3200	2800	2800 1800	4200 3900						1200
												1200
26 27			3100 3100	2800	1700 4600	4000 3800						1000
28			3100		3400	3900						1000
29			3100			3900						1100
30			3100			3500						1100
31						4400						

3800

1400

#### 294700092114000 INTRACOASTAL WATERWAY AT VERMILION LOCK (EAST), NEAR INTRACOASTAL CITY, LA (CE 76720)

LOCATION.--Lat 29°47'00", long 92°11'40", T.14 S., R.3 E., Vermilion Parish, Hydrologic Unit 08080103, north bank at east end of lock and 2.3 mi (3.7 km) west of Intracoastal City.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 35.0°C July 26, Aug. 1, 1977; minimum daily, 7.0°C Feb. 6, 1977, Jan. 19, 21, 22, 23, 1978.
CHLORIDE: Maximum daily, 5,600 mg/L Oct. 20, 1976; minimum daily, 8.0 mg/L July 13, 14, 1975.

EXTREMES FOR CURRENT YEAR. --

WATER TEMPERATURES: Maximum daily, 31.0°C June 28, 29, July 4, 10; minimum daily, 7.0° Jan. 19, 21, 22, 23. CHLORIDE: Maximum daily, 4,200 mg/L Apr. 11; minimum daily, 14 mg/L Jan. 31.

WATER	QUALITY	DATA,	WATER	YEAR	OCTOBER	1977	10	SEPTEMBER .	19/8

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
OCT												
26	1230	1150	7.1	70	50	5.9	93	2.3			130	87
NOV 15	1105	565	7.3	80	90		83		K700	K60	84	43
DEC 19	1115	127	7.5	40	70	6.6	57	4.3	6400	1400	23	0
JAN 26	1035	309	6.8	200	70	9.6	63	2.5	K3400	820	34	15
FEB 17	1055	546	6.8	80	80	9.1	41	2.1		92	57	32
MAR 17	1035	4030	7.4	50	300	7.4	130	1.4	660	K200	400	330
APR 20	1145	4770	7.1	40	130	6.3	64	1.7		320	510	460
MAY 24 JUN	1000	6270	7.4	40	70	4.8	82	1.4	K180	K60	680	620
21 JUL	1000	2290	1.4	50	40	7.1	54	.4	1100	900	230	190
17 SEP	1045	2080	7.3	40	55	4.8	57	2.0	1100	K180	220	160
01	0950 1120	262 340	6.6 7.1	100 150	40 60	5.7	33 45	. 3.0	K5500 8400	K660 K100	36 57	8 11
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE + DIS- SOLVED (MG/L AS CL)
OCT 26	17	21					53	0	43	6.7	45	300
NOV 15	17	10			- 22	22	50	0	41	4.0	18	150
DEC 19	5.2	2.4	13	51	1.2	3.3	36	0	30	1.8	6.6	15
JAN 26	6.1	4.5	40	70	3.0	3.0	23	0	19	5.8	13	65
FEB 17	8.8	8.6	71	71	4.1	3.4	31	0	25	7.9	16	120
MAR 17	40	73	640	77	14	5.7	81	0	66	5.2	150	1100
APR 20	67	82	710	74	14	29	56	0	46	7.1	190	1300
24 JUN	57	130	1000	75	17	42	75	0	62	4.8	230	1800
21 JUL	24	41	360	76	10	16	49	0	40	3.1	85	630
17 SEP	26	38	320	75	9.4	12	69	0	57	5.5	70	550
01	6.9	4.5 7.2	34 45	62 60	2.5	6.8	34 56	0	28 46	14 7.1	12 13	51 74
						2.3	55	9				

K Results based on colony count outside the acceptable range (non-ideal colony count).

294700092114000 INTRACOASTAL WATERWAY AT VERMILION LOCK (EAST), NEAR INTRACOASTAL CITY, LA (CE 76720) -- Continued

WATER QUALITY DATA: WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN; NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
OCT 26	92	<1.0	-48	.03	.51	1.5	.46	3	2	1	0	0
NOV	468			.03	.36	.37	.22	3	2	1	0	0
15 DEC		<1.0	.33									
19 JAN	156	<1.0	.43	.05	.48	2.8	.27	3	2	1	0	0
26 FEB	336	<1.0	• 28	.05	.33	.69	•22	3	2	1	0	0
17	332	<1.0	.15	.08	.23	.66	.16	2	1	-1	0	0
17 APR	480	<1.0	•31	.02	.33	1.3	.33	3	3	0	0	0
20	228	<1.0	.20	.04	.24	1.1	.15	2	1	1	0	0
MAY 24	58	<1.0	.35	.03	.38	3.5	.10	2	0	2	0	0
JUN 21	44	<1.0	.20	.01	.21	.68	.12	2	1	1	0	0
JUL 17	66	<1.0	.06	.02	.08	.78	.08	3	1	2	10	0
SEP 01	103	<1.0	.08	.01	.09	.94	.29	3	0	3	0	0
13	114	<1.0	.11	.03	.14	.97	.22	4	2	2	ō	0
DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L	CADMIUM DIS- SOLVED (UG/L	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L	COPPER, TOTAL RECOV- ERABLE (UG/L	COPPER, SUS- PENDED RECOV- ERABLE (UG/L	COPPER, DIS- SOLVED (UG/L	IRON; DIS- SOLVED (UG/L	LEAD; TOTAL RECOV- ERABLE (UG/L	LEAD, SUS- PENDED RECOV- ERABLE (UG/L
OCT 26	AS DET	AS CD)	AS CD)	AS CD)	AS CR)	AS CR)	AS CU)	AS CU)	AS CU)	AS FE)	AS PB)	AS PB)
	0			AS CD)	AS CR)	AS CR)		AS CU)	AS CU)	AS FE)		
NOV 15		AS CD)	AS CD)				AS CU)				AS PB)	AS PB)
15 DEC	0	AS CD)	AS CD)	0	20	0	AS CU) <10	<2	8	70	AS PB)	AS PB)
15 DEC 19	0	AS CD) <10	AS CD) <10	0	20	0	AS CU) <10 10	<2 8	8	70 160	<100 12	AS PB) <100 11
15 DEC 19 JAN 26 FEB	0 0 0	AS CD) <10 1 0	AS CD) <10 0 0	0 1 0	20 8 30 20	0 0 0	<10 10 14 39	<2 8 10 35	8 2 4	70 160 100 150	<100 12 14 16	<100 11 14 15
15 DEC 19 JAN 26 FEB 17	0 0 0	AS CD) <10 1 0 1	AS CD) <10 0 0 0 0	0 1 0 0	20 8 30 20	0 0 0	<10 10 14 39 24	<2 8 10 35	8 2 4 4 7	70 160 100 150 90	<100 12 14 16	<100 11 14 15
15 DEC 19 JAN 26 FEB 17 MAR 17	0 0 0 0 0 0	AS CD) <10 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	45 CD)  <10  0  0  0  0  0  0	0 1 0 0 1 1 1	20 8 30 20 10 20	0 0 0 0 0 0	4S CU)  410  10  14  39  24  14	<2 8 10 35 17 8	8 2 4 4 7 6	70 160 100 150 90 160	<pre></pre>	<pre>AS PB) &lt;100 11 14 15 11 6</pre>
15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY	0 0 0 0 0 0	AS CD) <10 1 0 1 1 2	AS CD) <10 0 0 0 0 0 0	0 1 0 0 1 1	20 8 30 20 10 20	0 0 0 0 0 0 0	AS CU) <10 10 14 39 24 14 23	<2 8 10 35 17 8 21	8 2 4 4 7 6	70 160 100 150 90 160	AS PB) <100 12 14 16 11 6	<pre>AS PB) &lt;100     11     14     15     11     6     8</pre>
15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN	0 0 0 0 0 0 0 0	AS CD) <10 1 0 1 1 2 0	AS CD)  <10  0  0  0  0  0  0  0  0  0  0	0 1 0 0 1 1 2	20 8 30 20 10 20 0	0 0 0 0 0 0 0 0 0	AS CU) <10 10 14 39 24 14 23 9	<2 8 10 35 17 8 21	8 2 4 4 7 6 2 3	70 160 100 150 90 160 160	AS PB) <100 12 14 16 11 6 8 7	AS PB) <100 11 14 15 11 6 8
15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN 21	0 0 0 0 0 0	AS CD) <10 1 0 1 1 2	AS CD) <10 0 0 0 0 0 0	0 1 0 0 1 1	20 8 30 20 10 20	0 0 0 0 0 0 0	AS CU) <10 10 14 39 24 14 23	<2 8 10 35 17 8 21	8 2 4 4 7 6 2 3	70 160 100 150 90 160	AS PB) <100 12 14 16 11 6	AS PB) <100 11 14 15 11 6 8 7
15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN	0 0 0 0 0 0 0 0	AS CD) <10 1 0 1 1 2 0	AS CD)  <10  0  0  0  0  0  0  0  0  0  0	0 1 0 0 1 1 2	20 8 30 20 10 20 0	0 0 0 0 0 0 0 0 0	AS CU) <10 10 14 39 24 14 23 9	<2 8 10 35 17 8 21	8 2 4 4 7 6 2 3	70 160 100 150 90 160 160	AS PB) <100 12 14 16 11 6 8 7	AS PB) <100 11 14 15 11 6 8

<sup>&</sup>lt; Actual value is known to be less than the value shown.

294700092114000 INTRACOASTAL WATERWAY AT VERMILION LOCK (EAST), NEAR INTRACOASTAL CITY, LA (CE 76720)--Continued

# WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAT	SOL (U	AD, TO IS- RE LVED ER	COV- REABLE EF	RCURY SUS- ENDED ECOV- RABLE JG/L 5 HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKE TOTA RECO ERAE (UG/ AS N	L, S L PE OV- RE BLE ER	KEL, US- NDED COV- ABLE	NICKEL DIS- SOLVE (UG/L AS NI	D TOT (UG	M. PEN AL TOT /L (UG	M. S S- N DED AL S /L	ELE- IUM, DIS- OLVED UG/L (S SE)	VANA DIUM DIS SOLV (UG/ AS V	 ED L
ост															
NOV	•••	0	• 0	. 0	. 0	•	:50	<49		1	0	0	0		
15. DEC		1	. 0	.0	.0		13	12		1	0	0	0		.7
19.		0	.1	.1	.0		16	15		1	0	0	0		.3
JAN 26.		1	.0	.0	.0		13	11		2	1	1	0		
FEB 17.		0	.3	.3	.0		15	14		1	1	1	0		
MAR 17		0	.0	.0	.0		14	12		2	1	1	0		
APR 20		0	.0	.0	.0		8	7		1	0	0	0		
MAY							10	10		0	0	0	0		
JUN		0	• 0	• 0	• 0		200					1	0		
Z1. JUL	• • •	0	.0	.0	.0		5	5		0	1				
17. SEP	• • •	2	• 0	. 0	.0		19	18		1	0	0	0		
01.		0	.0	.0	.0		2	0		2	0	0	0		2.7
15.	•••	· ·	• •	• •	•										
DATE	ZINC+ TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDEI RECOV- ERABLE (UG/L AS ZN	DIS- SOLVE (UG/L	D TO	MG/L I	ANIDE OTAL MG/L S CN)	PHENOLS	G G	DIL AND REASE MG/L)	PCB+ TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIM TOTAL (UG/)	N, DA	HLOR-	DDD, TOTAL (UG/L)
OCT 26	40		0 4	0	25	.00		4		• 0	.00	.0	0 0	.0	.000
NOV 15	30	1	0 2	0	18	.00		3	0	. 0	.00	.0	0.0	. 0	.000
DEC 19	40	4	0	0	18	.00		1	0	.0	.00	.0	00	.0	.000
JAN 26	50	4	0 1	0	18	.00		2	0	.0	.00	.0	00	.0	.000
FEB	30			0	17	.00		1	0	.0	.00	.0	0.0	.0	.000
17 MAR									0		.00	.0		.0	.000
17 APR	50				18	.00		1		.0					
20 MAY	40	3	0 1	0	17	.00		0	0	• 0	.00		00	. 0	.000
24 JUN	30	1	0 2	0	14	• 0 0		2	0	• 0	.00		00	. 0	.000
21	30	2	0 1	0	13	.00		3	0	.0	.00	.0	00	. 0	.000
17 SEP	30	1	0 2	0	14	.00		2	0	.0	.00	.0	02	. 0	.000
01	10	-		0	9.8 18	.00		4	0	• 0	.00		00	.0	.000

<sup>&</sup>lt; Actual value is known to be less than the value shown.

294700092114000 INTRACOASTAL WATERWAY AT VERMILION LOCK (EAST), NEAR INTRACOASTAL CITY, LA (CE 76720)--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE. TOTAL (UG/L)	DDT, TCTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN. TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
OCT 26	.000	.000	•00	.000	.000	.000	.00	.000	.000	.000	.00	.00
NOV 15	.000	.000	.01	.002	.000	.000	.00	.000	.000	.000	.00	.00
DEC 19	.000	.000	•00	.004	.000	.000	.00	.000	.000	.000	.00	.00
JAN 26	.000	.000	•01	.003	.000	.000	.00	.000	.000			
FEB				.003		.000	•00	.000	.000	.001	.00	.00
17 MAR	.000	.000	• 0 0	.004	.000	.000	.00	.000	.000	.000	.00	.00
17 APR	.000	.000	• 0 0	.002	.000	.000	.00	.000	.000	.000	.00	.00
20 MAY	.000	.000	.01	.003	.000	.000	.00	.000	.000	.000	.00	.00
24	.000	.000	.01	.001	.000	.000	.00	.000	.001	.001	.00	.00
JUN 21	.000	.001	.01	.002	.000	.000	.00	.000	.000	.001	.00	.00
JUL 17	.001	.000	.03	.002	.002	.000	.00	.000	.000	.000	.00	.00
01 13	.000	.000	.01 .00	.003	.002	.001	.00	.000	.000	.001	.00	.00
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 26	.00	.00	.00	.00	0.0	.00	.00	.00	.00	.00	5.03	.483
NOV 15	.00	.00	•00	.00	0.0	.00	.00	.00	.00	.00	3.70	.000
DEC 19	.00	.00	.00	.00	0.0	.00	.00	.00	.00	.00	.000	.000
JAN 26	.00	.00	.00	.00	0.0	.00	.00	.02	.00	.00	.000	.000
FEB 17	.00	.00	•00	.00	0.0	.00	.00	.01	.01	.00		
MAR 17	.00	.00	•00	.00	0.0	.00	.00				2.98	.000
APR 20	.00	.00	.00	.00	0.0	.00	.00	.01	.00	.00	8.02	.000
MAY 24	.00	.00	•00	.00	0.0	.00	.00	.00	.00	.19	13.9	.000
JUN 21	.00	.00	•00	.00	0.0	.00	.00	.00	.00	.01	5.64	.000
	1.6		0.0	0.0	0.0	.00	.00	.00	.00	.00	12.9	.000
JUL 17	.00	.00	.00	.00	0.0	.00	.00	.00			,	.000
17 SEP 01	.00	.00	•00	.00	0.0	.00	•00	.19 .31	.02	.00	3.04	.000

294700092114000 INTRACOASTAL WATERWAY AT VERMILION LOCK (EAST), NEAR INTRACOASTAL CITY, LA (CE 76720) -- Continued

		TEM	PERATURE	(DEG. C)	OF WATER	WATER YEAR	OCTOBER	R 1977 TO	SEPTEMBER	1978		
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	30.0 28.5  26.0 26.0	22.5 29.5 19.5 20.0 20.5	18.0 18.0 18.5 19.0 20.0	12.5 12.0 10.5 11.0 12.0	10.0 9.5 8.5 8.0 10.0	15.0 10.5 14.0 14.0	20.5 21.0 22.0 24.0 23.0	23.0 24.5  20.0 22.5	29.0 29.0 28.5 27.5 27.5	30.5 30.5 30.0 31.0 30.5	27.0 29.0 29.5 30.0 30.0	26.0 27.0 27.0 26.0 25.5
6 7 8 9	27.0 24.5 25.0 23.0 23.5	20.5 21.5 21.0 20.5 18.0	17.0 15.5 16.0 16.0 14.0	13.0 13.5 14.0 11.5 11.0	10.0 8.5 8.0 8.0 7.5	14.0 10.5 13.5 12.0 12.0	23.0 23.5 24.0 24.5 24.5	23.5 24.0 24.0 25.0 25.0	28.0 28.0 29.0 28.0 28.5	30.5 30.5 29.5 30.0 31.0	30.0 29.0 28.0 28.0 29.0	28.5 28.5 27.0 26.5 27.0
11 12 13 14 15	23.0 21.0 20.5 20.0 20.5	17.5 18.5 17.5 17.0 17.0	13.0 13.0 14.5 15.0 14.5	11.0 9.0 10.5 8.5 8.0	8.0 10.0 10.5 10.0	14.0 14.0 15.5 16.0 17.5	24.5 20.5 20.0 19.5 20.0	25.0 25.5 25.5 25.5 24.5	28.0 29.5 30.0 29.5 29.5	29.0 28.5 29.0 28.5	28.5 28.5 29.0 28.0 26.0	27.0 27.0 27.0 27.0 26.0
16 17 18 19 20	20.5 20.0 20.0 20.5 20.5	18.0 17.5 18.0 17.5 17.5	14.0 16.0 14.0 15.5 15.0	9.0 9.0 10.5 7.0 8.0	9.5 10.5 10.0 9.0 10.0	16.0 16.0 16.5 17.5 18.0	22.0 22.5 24.0 23.0 22.5	24.5 26.0 26.0 27.0 27.0	30.0 30.0 29.5 29.0 27.5	30.0 30.0 30.0 30.5 30.5	27.0 28.0 28.5 29.0 29.0	26.0 27.5 28.0 27.0 27.5
21 22 23 24 25	20.5 21.0 20.5 22.0 20.0	17.5 15.5 17.5 19.0 18.5	12.0 12.5 12.0 12.5 12.5	7.0 7.0 7.0 8.0 9.0	9.0 9.5 10.5 10.0 12.5	18.5 18.5 19.0 20.0 20.0	22.0 23.0 23.0 23.0 24.0	28.0 28.0 28.0 28.0 29.0	27.5 27.0 27.5 28.0 28.5	30.5 28.0 27.0 27.5 27.5	29.0 26.5 30.0 30.0 28.0	28.0 28.0 28.5 28.0 27.0
26 27 28 29 30 31	26.5 22.0 23.0 22.5 22.5 23.0	17.5 18.0 18.5 19.5	12.5 12.0 12.5 12.5 12.5	10.0 11.0 10.0 10.5 10.5	12.5 12.5 15.0	18.5 18.0 18.5 18.5 19.0 20.0	21.0 22.5 22.5 23.0 23.5	29.0 29.0 29.5 29.0 29.0	30.0 30.0 31.0 31.0 30.5	27.0 27.5 27.0 27.0 27.0 27.0	30.5 30.0 29.5 30.0 26.0 26.0	27.0 27.0 26.5 26.5 26.5
MONTH	23.0	19.0	14.5	10.0	10.0	16.0	22.5	26.0	29.0	29.0	28.5	27.0
YEAR	MAX	31.0 DIS	MIN SOLVED CH	7.0 LORIDE (C	MEAN _) , MG/L	21.0 • WATER YEAR ONCE-DAILY	OCTOBER	R 1977 TO	SEPTEMBER	1978		
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	95 110 47 77 70	300 260 300 320 320	470 620 640 550 400	98 70 56 85 70	20 20 16 24 28	220 l 68 l	160 450 .000 .600	2600 3000  3100 2900	2600	850 1800 1700 1700 1600	630 520 380 250 300	65 50 48 42 45
6 7 8 9	75 60 190 240 200	320 290 330 390 320	250 120 130 120 50	95 160 140 110 70	22 31 24 16 17	370 3 510 3 150 3	600 600 300 300 8800	2700 3600 3600 2700 3200		1600 1700 850 700 650	470 530 580 480 530	40 45 90 85 120
11 12 13 14 15	180 49 37 39 40	280 170 220 270 400	80 72 68 65 65	120 180 80 60 50	17 64 71 25 24	180 3 240 3 700 3	200 3300 3600 3000 2800	2900 3100 3200 3200 3200	1600 1500 1200 900 700	650 600 550 580 580	580 650 700 650 600	80 70 90 55 35
16 17 18 19 20	37 31 33 44 35	500 530 570 1200 1600	50 45 35 23 37	100 50 45 70 33	21 27 22 22 22	180 1 540 2 800 1	2400 600 2000 900 2000	3000 2800 2800 3000 2600	650 700 600 580 580	580 580 800 880 820	600 600 630 650 580	45 32 48 32 48
21 22 23 24 25	100 140 160 240 290	2200 1400 1600 1100	33 110 64 60	28 35 31 120 47	30 25 24 30 99	1500 1 920 1 1400 2	700 700 800 2300	2600 2400 2500 2400 2200		700 900 1000 1100 1000	600 600 580 700 800	170 60 40 40 30
26 27 28 29 30 31	270 320 260 350 310 370	1200 600 480 470 390	40 40 38 64 100 67	26 25 22 18 20 14	34 53 85	970 800 550	2100 1900 2300 2500 2600	2200 1900 2000 1900 2100 2200	720 850 800 800 900	1000 800 820 680 610	900 950 1000 1500 1400	68 160 300 380 420
MONTH	150	640	150	69	33	540 2	2400	2700	1200	940	650	94
YEAR	MAX	4200	MIN	14	MEAN	800						

294705092115300 INTRACOASTAL WATERWAY AT VERMILION LOCK (WEST), NEAR INTRACOASTAL CITY, LA (CE 76800)

LOCATION.--Lat 29°47'05", long 92°11'53", T.14 S., R.3 E., Vermilion Parish, Hydrologic Unit 08080103, on north bank at west end of lock and 2.5 mi (4.0 km) west of Intracoastal City.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 35.0°C July 26, Aug. 1, 1977; minimum daily, 6.0°C Jan. 21, 1978.
CHLORIDE: Maximum daily, 5,100 mg/L Sep. 24, 1976; minimum daily, 3.0 mg/L July 15, 1975.

EXTREMES FOR CURRENT YEAR.-- WATER TEMPERATURES: Maximum daily, 31.5°C Aug. 1; minimum daily, 6.0°C Jan. 21. CHLORIDE: Maximum daily, 4,000 mg/L Apr. 12; minimum daily, 11 mg/L Jan. 31.

#### WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM* TOTAL* IMMED* (COLS* PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS+ DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CACO3)
OCT												
26	1210	667	7.3	70	60	6.9	69	1.6			84	40
15 DEC	1100	563	7.4	80	95		82		K900	K80	74	32
19 JAN	1110	128	7.5	110	70	6.7	43	4.6	6800	1000	22	0
26 FEB	1058	126	6.8	200	50	11.0	62	3.1	5800	1100	18	2
17	1105	99	6.7	100	70	10.4	43	2.1	K1000	190	17	2
17	1045	338	7.0	100	300	7.8	78	.8		120	84	64
20	1130	4450	7.2	40	80	7.2	96	.0	K200	K72	510	480
MAY 24	1015	6340	7.1	30	65	4.9	80	1.3	500	K4	690	630
21 JUL	1015	2130	7.4	50	45	6.7	36	8.0	480	80	210	170
17 SEP	1100	1890	7.6	50	90	6.5	51	.4	840	190	210	160
01	1005							2.0		<730		
13	1125	372	7.0	180	65	5.8	38	3.2	10000		58	11
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HC03)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE; DIS- SOLVED (MG/L AS CL)
OCT 26	DIS- SOLVED (MG/L	SIUM, DIS- SOLVED (MG/L	DIS- SOLVED (MG/L		AD- SORP- TION	SIUM, DIS- SOLVED (MG/L	BONATE (MG/L AS	BONATE (MG/L	TOTAL (MG/L AS	DIOXIDE DIS- SOLVED (MG/L	DIS- SOLVED (MG/L	RIDE, DIS- SOLVED (MG/L
OCT 26 NOV 15	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	PERCENT	AD- SORP- TION RATIO	SIUM, DIS- SOLVED (MG/L AS K)	BONATE (MG/L AS HC03)	BONATE (MG/L AS CO3)	LINITY, TOTAL (MG/L AS CACO3)	DIOXIDE DIS- SOLVED (MG/L AS CO2)	SOLVED (MG/L AS SO4)	RIDE; DIS- SOLVED (MG/L AS CL)
OCT 26 NOV 15 DEC	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	PERCENT	AD- SORP- TION RATIO	SIUM, DIS- SOLVED (MG/L AS K)	BONATE (MG/L AS HC03)	BONATE (MG/L AS CO3)	LINITY, TOTAL (MG/L AS CACO3)	DIOXIDE DIS- SOLVED (MG/L AS CO2)	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)
OCT 26 NOV 15 DEC 19 JAN 26	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	PERCENT	AD- SORP- TION RATIO	SIUM, DIS- SOLVED (MG/L AS K)	BONATE (MG/L AS HC03)	BONATE (MG/L AS CO3)	LINITY, TOTAL (MG/L AS CACO3)	DIOXIDE DIS- SOLVED (MG/L AS CO2)	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17	DIS- SOLVED (MG/L AS CA) 14 13	SIUM, DIS- SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	PERCENT 52	AD- SORP- TION RATIO	SIUM, DIS- SOLVED (MG/L AS K)	BONATE (MG/L AS HC03) 54 51	BONATE (MG/L AS CO3)	LINITY, TOTAL (MG/L AS CACO3)	DIOXIDE DIS- SOLVED (MG/L AS CO2) 4.3 3.2	DIS- SOLVED (MG/L AS SO4) 20 14	RIDE, DIS- SOLVED (MG/L AS CL) 180 130
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17	DIS- SOLVED (MG/L AS CA) 14 13 5.4	SIUM, DIS- SOLVED (MG/L AS MG) 12 10 2.1	DIS- SOLVED (MG/L AS NA)	PERCENT 52 59	AD- SORP- TION RATIO	SIUM, DIS- SOLVED (MG/L AS K)	BONATE (MG/L AS HC03) 54 51 36 20	BONATE (MG/L AS CO3)	LINITY, TOTAL (MG/L AS CACO3) 44 42 30 16	DIOXIDE DIS- SULVED (MG/L AS CO2) 4.3 3.2 1.8 5.1	DIS- SOLVED (MG/L AS SO4) 20 14 7.2	RIDE, DIS- SOLVED (MG/L AS CL) 180 130 13
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20	DIS- SOLVED (MG/L AS CA) 14 13 5.4 4.1	SIUM, DIS- SOLVED (MG/L AS MG) 12 10 2.1 1.9 2.0	DIS- SOLVED (MG/L AS NA)  13 14 9.5	PERCENT 52 59 52	AD- SORP- TION RATIO	SIUM, DIS- SOLVED (MG/L AS K)   3.3 2.2	BONATE (MG/L AS HC03) 54 51 36 20	BONATE (MG/L AS CO3)	LINITY, TOTAL (MG/L AS CACO3) 44 42 30 16	DIOXIDE DIS- SOLVED (MG/L AS CO2) 4.3 3.2 1.8 5.1	DIS- SOLVED (MG/L AS SO4) 20 14 7.2 11 6.5	RIDE, DIS- SOLVED (MG/L AS CL) 180 130 13
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24	DIS- SOLVED (MG/L AS CA) 14 13 5.4 4.1 3.6 8.8	SIUM, DIS- SOLVED (MG/L AS MG) 12 10 2.1 1.9 2.0	DIS- SOLVED (MG/L AS NA)  13 14 9.5	PERCENT 52 59 52 76	AD- SORP- TION RATIO	SIUM, DIS- SOLVED (MG/L AS K)   3.3 2.2 1.7 8.0	BONATE (MG/L AS HC03) 54 51 36 20 18	BONATE (MG/L AS CO3)  0  0  0  0  0	LINITY* TOTAL (MG/L AS CACO3)  44  42  30  16  15	DIOXIDE DIS- SOLVED (MG/L AS CO2) 4.3 3.2 1.8 5.1 5.7 3.8	DIS- SOLVED (MG/L AS SO4) 20 14 7.2 11 6.5	RIDE, DIS- SOLVED (MG/L AS CL) 180 130 13 18 15
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN 21	DIS- SOLVED (MG/L AS CA) 14 13 5.4 4.1 3.6 8.8 78	SIUM, DIS- SOLVED (MG/L AS MG) 12 10 2.1 1.9 2.0	DIS- SOLVED (MG/L AS NA)  13 14 9.5 140 660	PERCENT 52 59 52 76 73	AD- SORP- TION RATIO	SIUM, DIS- SOLVED (MG/L AS K)  3.3 2.2 1.7 8.0	BONATE (MG/L AS HC03) 54 51 36 20 18 24	BONATE (MG/L AS CO3)  0  0  0  0  0  0	LINITY * TOTAL (MG/L AS CACO3)  44  42  30  16  15  20  33	DIOXIDE DIS- SOLVED (MG/L AS CO2) 4.3 3.2 1.8 5.1 5.7 3.8 4.0	DIS- SOLVED (MG/L AS SO4) 20 14 7.2 11 6.5 34	RIDE, DIS- SOLVED (MG/L AS CL) 180 130 13 18 15 230 1200
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN	DIS- SOLVED (MG/L AS CA) 14 13 5.4 4.1 3.6 8.8 78	SIUM, DIS- SOLVED (MG/L AS MG) 12 10 2.1 1.9 2.0 15 77	DIS- SOLVED (MG/L AS NA)  13 14 9.5 140 660	PERCENT 52 59 52 76 73 76	AD- SORP- TION RATIO  1.2 1.4 1.0 6.7 13	SIUM, DIS- SOLVED (MG/L AS K)  3.3 2.2 1.7 8.0 24	BONATE (MG/L AS HC03) 54 51 36 20 18 24 40	BONATE (MG/L AS CO3)  0  0  0  0  0  0  0  0	LINITY* TOTAL (MG/L AS CACO3)  44  42  30  16  15  20  33  61	DIOXIDE DIS- SOLVED (MG/L AS CO2) 4.3 3.2 1.8 5.1 5.7 3.8 4.0	DIS- SOLVED (MG/L AS SO4) 20 14 7.2 11 6.5 34 180 260	RIDE, DIS- SOLVED (MG/L AS CL) 180 130 13 18 15 230 1200

K Results based on colony count outside the acceptable range (non-ideal colony count

<sup>&</sup>lt; Actual value is known to be less than the value shown.

294705092115300 INTRACOASTAL WATERWAY AT VERMILION LOCK (WEST), NEAR INTRACOASTAL CITY, LA (CE 76800)--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN: NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
OCT 26	668	<1.0	• 05	.02	.07	1.3	3.3	4	3	1	20	20
NOV 15	306	<1.0	•33	.02	.35	.50	.16	3	2	1	0	0
DEC 19	173	<1.0	.32	.05	.37	1.6	.27	3	2	1	0	0
JAN 26 FEB	660	<1.0	.18	.08	.26	1.1	.33	4	3	1	0	0
17	432	<1.0	•17	.11	.28	• 41	.19	3	3	0	0	0
17	480	<1.0	.49	.04	.53	.97	.28	2	1	1	0	0
20	99	<1.0	.42	.02	.44	1.6	.05	2	1	1	0	0
24 JUN	176	<1.0	.37	.01	.38	.76	.10	2	1	1	0	0
21	190	<1.0	• 36	.01	.37	.60	.08	2	1	1	0	0
17 SEP	238	<1.0	.34	.02	.36	.74	.07	3	1	2	10	10
01		<1.0										
13	61	<1.0	• 09	.03	.12	.94	.20	3	2	1	10	10
DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD+ TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD+ SUS- PENDED RECOV- ERABLE (UG/L AS PB)
OCT						AS CITY	AS COT					
26	0	<10	<10	0	50	0	<10	<4	6	110	<100	<100
26 NOV 15	0	<10	<10	0	50			<4 11	6	110		<100
NOV	7					0	<10			363	<100	
NOV 15 DEC	0	1	0	1	4	0	<10 13	11	ž	190	<100	13
NOV 15 DEC 19	0	1 0	0	1 0	4 4 0	0 0	<10 13 13	11	6	190	<100 14 14	13 14
NOV 15 DEC 19 JAN 26 FEB	0 0	1 0 0	0 0	1 0 0	40	0 0 0	<10 13 13	11 7 14	6	190 110 100	<100 14 14 16	13 14 16
NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20	0 0 0	1 0 0	0 0 0	1 0 0	4 40 30 30	0 0 0 0	<10 13 13 15 70	11 7 14 65	6 1 5	190 110 100 90	<100 14 14 16 14	13 14 16 14
NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY	0 0 0 0	1 0 0 1	0 0 0 0	1 0 0 1	4 40 30 30 20	0 0 0 0 0	<10 13 13 15 70 17	11 7 14 65	6 1 5	190 110 100 90 70	<100 14 14 16 14	13 14 16 14 7
NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 JUN 24 JUN 21	0 0 0 0 0 0	1 0 0 1 0 3	0 0 0 0 0	1 0 0 1 0 3	4 40 30 30 20 0	0 0 0 0 0 0	<10 13 13 15 70 17 4	11 7 14 65 9 2	2 6 1 5 8 2	190 110 100 90 70 50	<100 14 14 16 14 7	13 14 16 14 7
NOV 15 DEC 19 26 FEB 17 APR 20 MAY 24 JUN 21 JUL 17	0 0 0 0 0 0 0 0 0	1 0 0 1 0 3	0 0 0 0 0 0 0	1 0 0 1 0 3	4 40 30 30 20 0	0 0 0 0 0 0 0	<10 13 13 15 70 17 4	11 7 14 65 9 2	2 6 1 5 8 2	190 110 100 90 70 50	<100 14 14 16 14 7 4	13 14 16 14 7 4
NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN 21 JUL	0 0 0 0 0 0 0 0 0	1 0 0 1 0 3 1	0 0 0 0 0 0 0 0	1 0 0 1 0 3 1	4 40 30 30 20 0 15.	0 0 0 0 0 0	<10 13 13 15 70 17 4 10 10	11 7 14 65 9 2 6	2 6 1 5 8 2 4	190 110 100 90 70 50 60	<100 14 14 16 14 7 4 12	13 14 16 14 7 4 11

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

294705092115300 INTRACOASTAL WATERWAY AT VERMILION LOCK (WEST), NEAR INTRACOASTAL CITY, LA (CE 76800)--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAT	SO	AD. IS- LVED IG/L PB)	MERCUF TOTAL RECOV ERABL (UG/L AS HO	PEN REC E ERA	S- DED F OV- BLE /L	MERCURY DIS- SOLVED (UG/L AS HG)	NICKE TOTA RECO ERAB (UG/ AS N	L, S L PE V- RE LE ER L	KEL, US- NDED COV- ABLE	NICKE DIS- SOLV (UG/ AS N	ED L	SELE- NIUM, TOTAL (UG/L AS SE	PEN TOT (UG	IM. IS- IDED	SELE- NIUM, DIS- SOLVE (UG/L AS SE	D I U D I D SOL (UG	IM, S- VED
0CT		0		,0	.0	.0		50	<49		1		0	0		0	
26. NOV 15.		1		.0	.0	.0		18	14		4		0	0		0	
DEC 19.		0		. 1	.1	.0		17	16		1		0	0		0	.4
JAN 26.		0		.0	.0	.0		13	13		0		0	0		0	1.0
FEB 17.		0		. 0	.0	.0		8	7		1		1	0		1	1.0
MAR 17.		0		. 0	.0	.0		16	14		2		1	1		0	2.0
APR 20.		0		.0	.0	.0		2	0		2		0	0		0	
MAY 24.		1		. 0	.0	.0		7	7		0		0	0		0	
JUN 21.		0		. 8	.8	.0		7	0		7		0	0		0	
JUL 17.	•••	2		. 1	. 1	.0		7	5		2		0	0		0	
SEP 01.				-									0			0	2.0
13.	•••	0		• 0	.0	.0		4	4		U		U	U		U	2.0
DATE	ZINC. TOTAL RECOVERABL (UG/L AS ZN	PE RE E ER	NC. US- NDED COV- ABLE G/L ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARB ORGA TOT (MG AS	NIC CY	ANIDE OTAL MG/L S CN)	PHENOL (UG/L	S G	OIL AND REASE MG/L)	TO	CB, TAL G/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	TO	RIN, TAL G/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)
OCT 26	3	0	0	30	1	.6	.00		2	0		.0	.00		.00	.0	.00
NOV 15	3	0	20	10	1	5	.00		2	0		.0	.00		.00	.0	.00
DEC 19	4	0	30	10	1	.6	.00		3	0		. 0	.00		.00	.0	.00
JAN 26 FEB	4	0	30	10	2	22	.00		5	0		. 0	.00		.00	.0	.00
17 MAR	4	0	30	10	1	15	.00		3	0		• 0	.00		.00	.0	.00
17 APR	5	0	50	0	2	20	.00		3	0		.0	.00		.00	.0	
20 MAY	2	0	10	10		8.7	.00		0	0		. 0	.00		.00	• 0	
24 JUN	3	0	10	20	1	.3	.00		2 .	0		. 0	.00		.00	.0	
21 JUL	2	0	0	20		.1	.00		2	0		• 0	.00		.00	.0	
17 SEP	2	0	10	10	1	.3	.00		2	0		• 0	.00		.00	.0	
01	1		10	0	1	6	.00	-	4	0		.0	.00		.00	.0	

 $<sup>\</sup>mbox{\ensuremath{$<$}}$  Actual value is known to be less than the value shown.

294705092115300 INTRACOASTAL WATERWAY AT VERMILION LOCK (WEST), NEAR INTRACOASTAL CITY, LA (CE 76800) -- Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

OCT 2600 .00 .01 .00 .00 .00 .00 .00 .00	OR,	METI OX CHL TOTA (UG.	MALA- THION, TOTAL (UG/L)	LINDANE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DDT. TOTAL (UG/L)	DDE • TOTAL (UG/L)	DATE
NOV	.00		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
NOV						.00	•00	.00	.00	.00	• 01	.00	.00	
1500 .00 .01 .00 .00 .00 .00 .00 .00	.00		.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	15
DEC 1900 .00 .00 .00 .00 .00 .00 .00 .00	.00		.00	• 0 0	.00	.00	.00	.00	.00	.00	• 0 0	.00	.00	19
JAN 2600 .00 .01 .00 .00 .00 .00 .00 .00	.00		.00	.00	.00	.00	.00	.00	.00	.00	•01	.00	.00	26
FEB 17 "00 .00 .00 .00 .00 .00 .00 .00 .00	.00		.00	.00	.00	.00	.00	.00	.00	.00	•00	.00	.,00	17
MAR 1700 .00 .00 .00 .00 .00 .00 .00 .00	.00		.00	.00	.00	.00	.00	.00	.00	.00	• 00	.00	.00	17
2000 .00 .01 .00 .00 .00 .00 .00 .00	.00		.00	.00	.00	.00	•00	.00	.00	.00	•01	.00	.00	20
2400 .00 .01 .00 .00 .00 .00 .00 .00	.00		.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	24
Z100 .00 .01 .00 .00 .00 .00 .00 .00	.00		.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	21
JUL 17 ,00 .00 .02 .00 .00 .00 .00 .00 .00 .00	.00		.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	17
SEP 0100 .00 .01 .00 .00 .00 .00 .00 .	.00								.00			.00	.00	
1300 .00 .01 .0000 .00 .00 .00 .00	.00		.00	.00	.00	.00	.00	.00		.00	.01	.00	.00	13

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	
OCT												
26	.00	.00	.00	0	.00	.00	.00	.00	.00	1.42	.088	
15 DEC	.00	.00	.00	0	.00	.00	.00	.00	.00	8.70	5.90	
19	.00	.00	.00	0	.00	.00	•00	.00	.00	.000	.000	
26 FEB	.01	.00	•00	0	• 0 0	.00	.04	.00	.00	.000	.000	
17	.00	.00	.00	0	.00	.00	.00	.00	.00	.000	.000	
MAR 17 APR	.00	.00	.00	0	.00	.00				.000	.000	
20	.00	.00	.00	0	•00	.00	.00	.00	.00	3.73	.000	
MAY 24	.00	.00	.00	0	.00	.00	.00	.01	.14	9.27	.000	
JUN 21	.00	.00	.00	0	.00	.00	.00	.00	.01	4.46	.000	
JUL 17	.00	.00	.00	0	.00	.00	.00	.00	.01	9.89	.000	
SEP 01	.01	.00	.00	0	.00	.00	.18	.02	.00	5.14	.000	
13	.00	.00	.00	0	.00	.00	.31	.01	.00	5.14	.000	

294705092115300 INTRACOASTAL WATERWAY AT VERMILION LOCK (WEST), NEAR INTRACOASTAL CITY, LA (CE 76800) -- Continued

		TEM	PERATURE	(DEG. C) OF				R 1977 TO	SEPTEMBE	R 1978		
DAY	ост	NOV	DEC	JAN	FEB (	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	30.0 28.5 27.5 26.0 26.0	23.0 29.5 19.5 20.0 20.5	18.0 18.0 28.5 19.0 20.0	12.5 12.0 10.5 11.0 12.0	10.0 9.5 8.5 8.0 10.0	15.0 10.5 14.5 14.0 14.0	20.5 21.0 22.0 24.0 23.0	24.0 24.5 24.0 20.0 22.5	29.0 29.0 20.5 27.0 27.5	30.5 30.5 30.0 30.5 31.0	31.5 29.0 29.5 29.5 30.0	26.0 27.0 27.0 26.0 25.5
6 7 8 9	27.0 24.5 25.0 23.0 23.5	20.5 21.0 21.0 20.5 18.0	17.0 15.5 16.0 16.0	13.0 14.0 14.0 11.5	10.0 8.5 8.0 8.0 7.5	14.0 10.5 13.5 12.0 12.0	23.0 23.5 24.0 24.5 24.5	23.5 23.5 24.0 25.0	20.0 20.0 27.5 20.5 27.5	30.5 30.5 29.5 30.0 30.5	30.0 29.0 28.0 28.0 29.0	28.5 28.5 27.0 26.5 27.0
11 12 13 14 15	23.0 21.0 20.5 20.0 20.5	17.5 18.5 17.5 17.0 17.0	13.0 13.0 14.5 15.0 14.5	9.0 10.5 8.5 8.0	8.0 10.0 10.0 10.0	14.0 14.0 15.5 16.0 17.5	24.5 20.5 20.0 19.5 21.0	25.0 25.5 25.0 25.0 24.5	29.0 29.5 29.5 29.5 29.5	30.0 29.0 28.5 29.0 28.5	28.5 28.5 29.0 28.0 27.0	27.0 27.0 27.0 27.0 27.0 26.0
16 17 18 19 20	20.5 20.0 20.0 20.5 20.5	18.0 17.5 18.0 17.0 17.5	14.0 16.0 14.0 15.5 15.0	9.0 9.0 10.5 7.0 7.0	9.5 10.5 10.0 9.0 10.0	16.0 16.0 16.5 17.5 18.0	22.0 22.5 24.0 23.0 22.5	24.5 26.0 26.0 27.0 27.0	30.0 30.0 29.5 29.0 27.5	30.0 30.0 30.0 30.5 30.5	27.0 28.0 28.5 29.0 29.0	27.5 27.5 28.0 27.0 27.5
21 22 23 24 25	20.5 21.0 20.0 20.0 20.5	17.5 17.5 15.5 19.0 18.5	12.0 12.5 12.0 12.5 12.5	6.0 7.0 7.0 8.0 9.0	9.5 9.5 10.5 10.0 12.5	18.5 18.5 19.0 20.0 20.0	22.0 23.0 23.0 23.0	28.0 28.0 28.0 28.0 28.5	25.5 27.0 27.5 28.0 28.5	30.0 28.0 27.0 27.5 27.5	29.0 26.5 30.0 30.0 28.5	28.0 28.0 28.5 28.0 27.0
26 27 28 29 30 31	22.5 22.0 23.0 22.5 23.0 23.0	17.5 18.0 18.5 19.5	12.5 12.0 12.5 12.5	10.0 10.0 10.0 10.5 10.5	12.5 12.5 15.0	18.5 18.5 18.5 19.0 20.0	24.0 22.0 22.5 23.0 23.5	28.5 29.0 29.5 29.0 29.0	30.0 30.0 31.0 30.5 30.5	28.0 27.5 27.0 27.0 27.0 27.0	30.5 30.0 29.5 30.0 26.0 26.0	27.0 27.0 26.5 26.5 26.5
MONTH	23.0	19.0	15.0	10.0	10.0	16.0	22.5	26.0	29.0	29.0	29.0	27.0
YEAR	MAX	31.5 DIS	MIN SOLVED C	6.0 HLORIDE (CL)		21.5 • WATER YE ONCE-DAILY		R 1977 To	SEPTEMBE	R 1978		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	74 58 38 49 41	350 280 310 300 310	480 610 580 450 320	86 42 38 49	19 12 20 24 28	52 100 180 49 29	150 400 1000 1600 2700	2800 2600 2700 2700 2600	2200 2200 2400 2200 2000	880 870 840 840 820	500 420 180 180 130	55 39 66 36 39
6 7 8 9 10	57 47 90 240 47	280 250 300 310 300	150 70 100 70 40	47 140 130 89 60	14 15 13 16 19	160 220 280 160	3400 3500 3000 3300 3600	2500 2800 2900 2700 2800	2100 2000 1900 2100 1900	820 820 740 660 650	380 440 530 500 530	45 41 59 45 73
11 12 13 14 15	280 48 29 34 31	260 170 90 240 100	44 61 50 42 54	73 140 68 42 36	21 62 26 22 26	12 26 26 25 98	3000 4000 3600 3000 2400	2900 2900 2900 2900 2900 2800	1600 1400 1000 750 560	650 620 580 550 590	580 580 720 640 630	48 38 40 34 27
16 17 18 19 20	27 37 41 30 30	500 500 500 800 1600	35 40 30 26 37	19 31 21 20 24		200 90 48 64 54	2400 1700 1800 2000 1900	2600 2600 2500 2700 2400	44 J 700 700 600 600	560 600 600 760 800	650 640 620 610 580	25 30 28 27 29
21 22 23 24 25	33 120 200 210 270	2000 1300 920 1100 1000	35 36 25 24 30	20 24 22 24 25		80 590 900 1300	1500 1600 1700 2200 2200	2300 2300 1900 2100 1900	560 640 660 910 790	740 920 940 1000 950	590 590 570 630 720	120 38 35 35 29
26 27 28 29 30 31	240 280 200 300 330 350	1100 600 440 420 320	36 37 35 54 100 47	18 26 30 22 17	53	1200 1000 850 500 350 220	2100 2000 2200 2500 2500	1900 2000 2000 2000 2100	700 800 880 810 840	930 820 750 650 600 520	840 910 1000 1500 1400	57 180 99 370 340
MONTH	120	570	120	47		330	2300	2500	1200	740	610	71
YEAR	MAX	4000	MIN	11	MEAN	740						

## 294528092154801 SCHOONER BAYOU (INLAND WATERWAY) EAST OF CONTROL STRUCTURE, NEAR FORKED ISLAND, LA (CE 76600)

LOCATION.--Lat 29°45'28", long 92°15'48", T.15 S., R.2 E., Vermilion Parish, Hydrologic Unit 08090202, at southeast fender of structure, 5.4 mi (8.7 km) southeast of Forked Island.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

REMARKS. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 31.5°C July 26, 27, 1977; minimum daily, 1.0°C Jan. 10, 1977.
CHLORIDE: Maximum daily, 7,200 mg/L Oct. 30, 1976; minimum daily, 30 mg/L Mar. 25, 1975.

EXTREMES FOR CURRENT YEAR.-WATER TEMPERATURES: Maximum daily, 31.0°C for several days during June and July; minimum daily, 2.0°C Jan. 15, 21.
CHLORIDE: Maximum daily, 3,700 mg/L Apr. 10; minimum daily, 40 mg/L Feb. 27.

#### TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.5	23.5	15.0	12.0	6.0	13.5	19.0	24.0	28.5	30.0	29.0	26.5
2	29.0	21.0	15.0	9.0	5.5	13.0	20.5	24.5	30.0	30.5	29.0	28.0
3	25.0	20.0	17.0	5.0	5.5	14.0	20.5	23.0	27.0	30.5	29.0	27.0
4	21.0	17.0	19.0	8.0	5.5	13.0	21.0	21.5	26.0	31.0	29.5	27.5
5	20.0	18.0	21.0	9.0	6.0	10.0	21.5		28.0	31.0	30.5	27.5
6	23.0	18.0	14.5	12.0	6.5	10.5	22.0	23.0	20.0	31.0	30.5	26.5
7	23.0	18.5	13.0	12.5	6.0	14.0	23.0	24.0	27.0	31.0	27.5	26.5
8	25.0	21.0	13.0	12.0	5.0	12.0	23.5	24.5	27.0	31.0	28.0	26.5
9	22.5	20.5	15.0		5.0	11.0	24.0	28.5	27.0	30.5	29.0	26.5
10	23.0	12.0	9.5		5.0	9.0	23.5	25.0	20.0	31.0	30.0	25.0
11	23.0	10.5	7.5	6.0	5.0	12.0	21.0	25.0	28.5	31.0	29.5	26.0
12	18.0	11.0	7.5	7.5	8.0	13.0	21.0	25.0	18.5	29.5	29.5	27.0
13	15.5	13.0	12.0	5.0	9.5	15.0	17.0	25.5	20.5	30.0	29.5	27.0
14	17.0		13.0	3.0	9.0	15.5	19.0	24.5	29.0	30.0	28.5	27.5
15	17.0		12.5	2.0	9.5	18.0	19.5	24.0	27.5	30.0	28.0	27.5
16	19.0		13.0	4.0	8.0	16.0	21.5		28.0	30.0	27.5	27.5
17	16.5		17.0	6.0	9.0	16.0	22.0	25.0	24.0	30.0	25.0	28.5
18	17.0	18.0	14.0	5.5	8.5	16.0	22.0	26.5	29.0	30.0	28.5	28.0
19	20.0	18.5	15.0	5.0	6.0	18.0	22.0	26.0	24.5	31.0	29.0	29.0
20	21.0	20.0	15.0	2.5	6.5	17.5	21.5	27.5	29.0	30.0	29.0	28.0
21	20.5	20.5	11.0	2.0	8.0	17.5	21.0	28.0	30.0	29.0	29.0	28.0
22	20.5	18.0	8.0	2.5	3.5	18.0	23.0	27.0	30.5	29.0	29.0	28.5
23	22.0	17.0	8.0	5.0	8.0	19.0	22.0	27.5	31.0	29.0	28.0	26.0
24	22.0	18.0	12.5	8.0	8.0	19.0	23.0	28.0	31.0	29.0	29.5	26.5
25	21.0	18.0	12.5	9.5	12.0	15.0	23.0	28.0	30.5	28.5	29.5	25.0
26	21.5	15.5	10.0	7.0	11.5	15.5	21.5	29.0	30.5	29.0	30.0	25.5
27	21.0	16.0	9.0	5.0	12.0	15.0	21.0	29.0	30.5	28.5	30.0	25.0
28	21.0	18.5	9.0	5.0	15.0	16.5	21.5	29.0	30.0	25.0	27.0	25.0
29	22.0	18.5	9.0	5.0		17.0	22.0	28.5	30.0	29.0	26.0	25.0
30	22.0	19.5	10.0	7.0		17.5	23.5	29.0	29.0	29.0	26.5	25.0
31	22.0		10.0	6.0		18.5		30.0		28.5	26.0	
MONTH	21,5	17.5	12.5	6.5	7.5	15.0	21.5	26.0	28.5	30.0	28.5	27.0
YEAR	MAX	31.0	MIN	2.0	MEAN	20.5						

MISSISSIPPI RIVER DELTA

294528092154801 SCHOONER BAYOU (INLAND WATERWAY) EAST OF CONTROL STRUCTURE, NEAR FORKED ISLAND, LA (CE 76600) -- Continued

DISSOLVED CHLORIDE (CL) • MG/L • WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

						NICE DATE						
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	250	260	330	140	100 -	95	180	3200	2900	340	500	530
2	270	140	190	260	90	92	200	3100	3000	760	400	520
3	230	140	250	140	92		770	3300	2800	560	380	560
4	230	200	170	160	140	85	2300	3700	2200	540	380	650
5	210	180	150	70	100	80	1600	2300	430	500	450	570
6	340	180	140	90	100	90	2700	2600	2100	980	380	560
7	310	160	150	160	71	260	3400	3300	1700	520	310	400
8	270	190	150	100	72	1000	3300	3000	2100	1100	310	320
9	370	120	63	110	74	120	3500	3000	1700	1200	340	460
10	430	190	110	120	81	88	3700	3300	270	1100	290	330
11	240	160	120	95	80	90	3200	3200	430	1100	390	330
12	310	180	120	80	85	98	1100	3200	380	1200	420	190
13	290	200	120	85		100	1500	3100	460	1000	710	190
14	220	190	110	100	85	95	950	3500	400	950	710	510
15	220	450	140	100	91	310	1300	2800	260	1000	670	530
16	200	700	160	100	84	180	1800	2600	410	650	400	520
17	260	140	160	64	87	100	1500	2400	360	780	730	540
18	200	500	150	110	180	110	1900	2600	420	1200	680	500
19	190	440	160	78	100	96	1500	2900	200	1400	760	260
20	180	2600	160	100	80	130	570	2800	440	1200	780	140
21	160	2400	160	100	75	410	1200	2900	220	1100	740	360
22	240	2400	160	110	80	550	1000	1400	350	1200	750	220
23	170	370	140	56	85	360	800	2800	390	880	650	480
24	260	180	150	84	95	180	800	2900	340	1300	820	460
25	250	180	140	64	60	880	780	2900	440	1200	720	480
26	150	190	150	59	50	270	750	3000	340	150	1000	480
27	190	920	140	83	40	120	680	2600	310	260	1100	200
28	170	870	140	78	65	170	980	2800	250	550	1900	440
29	180	1100	240	85		170	1000	2900	220	500	2000	200
30	220	1100	90	64		98	1200	2900	300	450	550	120
31	220		130	61		96		2900		350	500	
MONTH	240	570	150	100	85	210	1500	2900	87 u	830	670	400
YEAR	MAX	3700	MIN	40	MEAN	720						

294528092154800 SCHOONER BAYOU (INLAND WATERWAY) WEST OF CONTROL STRUCTURE, NEAR FORKED ISLAND, LA (CE 76680)

LOCATION.--Lat 29°45'28", long 92°15'50", T.15 S., R.2 E., Vermilion Parish, Hydrologic Unit 08090202, at southwest fender of structure, 5.4 mi (8.7 km) southeast of Forked Island.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: October 1976 to current year.

CHLORIDE: October 1974 to current year.

REMARKS.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 31.5°C July 26, 27, 1977, June 25, 1978; minimum daily, 1.0°C Jan. 10, 1977.
CHLORIDE: Maximum daily, 4,600 mg/L Sep. 24, 27, 1976; minimum daily, 30 mg/L Feb. 4, 1977.

WATER TEMPERATURES: Maximum daily, 31.5°C June 25; minimum daily, 2.0°C Jan. 21. CHLORIDE: Maximum daily, 3,200 mg/L Apr. 29; minimum daily, 38 mg/L Feb. 27.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

					U	NCE-DAIL!						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.0	22.5	15.0		6.0	13.5	19.0	24.0	28.5	30.0	29.0	26.5
2	29.0	21.0	15.0	9.0	5.5	13.0	20.5	24.5	30.0	30.5	29.0	28.0
3	25.0	20.0	17.0	5.0	5.5	14.0	20.5	23.0	27.0	30.5	29.0	27.0
4	21.0	17.0	19.0	8.0	5.5	13.0	21.0	21.5	26.0	31.0	29.5	27.5
5	20.0	18.0	21.0	9.0	6.0	10.0	21.5		20.0	31.0	30.5	27.5
6	23.0	18.0	15.0	12.0	6.5	10.5	22.0	23.0	20.0	31.0	30.5	26.5
7	23.0	18.5	13.0	12.5	6.0	16.0	23.0	24.0	27.0	31.0	27.5	26.5
8	25.0	21.0	13.0	12.0	5.0	12.0	23.5	24.5	27.0	31.0	28.0	26.5
9	22.5	20.5	15.0		5.0	11.0	24.0	25.0	27.0	30.5	29.0	26.5
10	23.0	12.0	9.5		5.0	9.0	23.5	25.0	20.0	31.0	29.0	25.0
11	22.5	10.5	7.5	7.0	5.0	12.0	21.0	25.0	20.5	31.0	29.5	26.0
12	18.0	11.0	7.5	7.5	8.0	13.0	21.0	25.0	28.5	29.5	29.5	27.0
13	15.5	13.0	12.0	5.0	9.5	15.0	17.0	25.5	28.5	30.0	29.5	27.0
14	17.0	13.5	13.0	3.0	9.0	15.5	19.0	24.5	24.0	30.0	28.5	27.5
15	17.0	16.0	12.5	2.0	9.5	18.0	19.0	24.0	27.5	30.0	28.0	27.5
16	19.0	17.0	13.0	8.0	9.5	16.0	21.5		20.0	30.0	27.5	27.5
17	16.5	18.0	17.0	6.0	10.5	16.0	22.0	25.0	29.0	30.0	25.0	28.5
18	17.0	18.0	14.0	5.5	10.0	16.0	22.0	26.5	29.0	30.0	28.5	28.0
19	20.0	18.5	15.0	5.0	9.0	18.0	22.0	26.0	29.5	31.0	29.0	29.0
20	21.0	20.0	15.0	2.5	10.0	17.5	21.0	27.5	29.0	30.0	29.0	28.0
	-											
21	21.0	20.5	11.0	2.0	9.5	17.5	21.0	28.0	30.0	29.0	29.0	28.0
22	20.5	18.0	8.0	2.5	9.5	18.0	23.0	27.0	30.5	29.0	29.0	28.5
23	22.0	17.0	8.0	5.0	10.5	19.0	22.0	27.5	31.0	29.0	28.0	26.0
24	22.0	18.0	12.5	8.0	10.5	19.0	23.0	28.0	31.0	29.0	29.5	26.5
25	21.0	18.0	12.5	9.5	12.5	15.0	23.0	28.0	31.5	28.5	29.5	25.0
26	21.5	16.0	10.0	7.0	12.5	15.5	21.5	29.0	30.5	29.0	30.0	25.5
27	21.0	16.0	9.0	5.0	12.5	15.0	21.0	29.0	30.5	28.5	30.0	25.0
28	21.0	18.5	9.0	5.0	15.0	16.5	21.5	29.0	30.0	25.0	27.0	25.0
29	22.0	18.5	8.0	5.0		17.0	55.0	28.5	30.0	27.0	26.0	25.0
30	23.0	11.5	10.0	7.0		17.5	23.5	29.0	29.0	29.0	26.5	25.0
31	22.0		10.0	6.0		18.5		30.0		28.5	26.0	
MONTH	21.5	17.0	12.5	6.5	8.5	15.0	21.5	26.0	29.0	29.5	28.5	27.0
YEAR	MAX	31.5	MIN	2.0	MEAN	20.5						

294528092154800 SCHOONER BAYOU (INLAND WATERWAY) WEST OF CONTROL STRUCTURE, NEAR FORKED ISLAND, LA (CE 76680) -- Continued

DISSOLVED CHLORIDE (CL)+ MG/L+ WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

					*							
DAY	OCT	NOV	DEC	JAN	FLB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	240	230	400	120	88	92	190	710	1100	600	420	540
5	270	250	180	220	98	85	130	900	770	300	380	530
3	240	150	260	150	94	88	500	1400	600	420	420	550
4	230	210	210	140	100	82	570	1700	510	420	380	650
5	340	180	160	70	90	82	160	910	2300	1000	400	550
6	330	210	140	60	89	110	1000	1200	220	460	330	580
7	300	170	140	150	67	260	1400	1500	76	1000	330	420
8	270	130	160	100	77	90	980	740	180	510	360	540
9	310	400	75	110	72	90	2400		88	1100	90	530
10	240	340	130	100	80	110	580		360	580	80	330
11	300	66	120	85	79	95	1100		400	1000	100	340
12	200	200	130	75	86	110	990		270	500	220	180
13	210	210	140	85	40	110	66		300	250	340	190
14	240	200	110	100	74	980	55		390	230	350	530
15	230	420	150	95	89	320	140		260	140	350	510
16	220	500	160	75	77	290	270		470	230	340	510
17	230	540	150	55	81	110	1200	1400	320	75	120	540
18	220	560	160	100	180	120	240	2000	410	900	500	500
19	220	1300	170	80	100	91	240	1200	100	380	160	250
20	220	1900	150	100	80	140	300	1600	150	150	380	150
21	170	310	170	95	80	370	270	1700	480	260	340	210
22	250	420	160	95	85	440	1000	2600	330	150	720	230
23	250	310	150	54	85	100	400	1400	390	180	400	500
24	120	170	160	76	90	100	860	2700	360	140	330	490
25	100	170	140	56	65	250	340	1500	440	700	310	510
26	170	200	250	64	40	100	660	1600	330	80	1000	520
27	160	930	130	80	38	110	510	1100	150	260	1000	220
28	160	460	170	83	42	120	1100	1700	240	230	2000	420
29	180	1300	230	60		100	3200	2300	120	500	2000	210
30	240	1100	80	65		300	2900	860	240	500	600	130
31	210		130	60		150		910		320	450	
MONTH	230	450	160	92	81	180	790		410	440	490	410
YEAR	MAX	3200	MIN	38	MEAN	410						

#### MISSISSIPPI RIVER DELTA

293316092182000 FRESHWATER CANAL ABOVE FRESHWATER BAYOU LOCK (NORTH), NEAR FORKED ISLAND, LA (CE 76591)

LOCATION.--Lat 29°33'16", long 92°18'20", T.16 S., R.2 E., Vermilion Parish, Hydrologic Unit 08080202, on north side of lock, 18.9 mi (30.4 km) south of Forked Island.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 32.0°C Aug. 4, 24, 1978; minimum daily 5.0°C Jan. 20, 1978.
CHLORIDE: Maximum daily, 16,000 mg/L Aug. 10, 11, 1976, May 30, June 1, 5, 1977; minimum daily, 280 mg/L May 15, 1975.

EXTREMES FOR CURRENT YEAR. --

NATER TEMPERATURES: Maximum daily, 32.0°C Aug. 4, 24; minimum daily, 5.0°C Jan. 20. CHLORIDE: Maximum daily, 13,000 mg/L July 18; minimum daily, 500 mg/L Oct. 5, 6, 7, 8, 11.

#### TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.0	22.5	17.0	13.0	7.0	15.5	17.5	23.0	28.5	29.0	29.5	27.5
2	28.5	23.0	17.0	11.5	8.0	15.5	18.0	25.0	29.5	29.0	29.0	28.0
3	26.0	22.0	18.5	9.0	7.5	15.0	18.0	24.5	28.0	30.0	30.0	28.0
4	22.5	19.5	19.0	10.0	8.0	13.0	22.0	22.0	28.0	30.0	32.0	28.5
5	24.0	20.0	19.5	11.5	8.5	11.0	22.0	22.0	28.0	30.0	28.5	28.5
	24.0	20.0	1,00	11.00	0.5	11.0	22.0	22.0				
6	24.0	20.0	18.0	12.0	8.0	12.0	25.0	22.0	28.0	30.0	30.0	28.5
7	25.0	20.0	15.0	14.0	8.0	12.5	23.0	22.5	28.0	29.0	29.5	28.5
8	24.5	21.0	16.0	15.5	7.5	12.0	23.0	23.0	28.0	29.0	29.0	28.0
9	24.0	21.0	16.0	10.0	8.0	12.0	23.0	22.5	27.5	29.0	28.0	27.0
10	24.5	18.0	14.5	8.5	6.0	11.5	23.5	25.0	27.0	29.5	28.5	27.0
10	24.5	10.0	14.5	0.5	0.0	11.5	23.3	23.0	2	27.5	20.5	21.00
11	24.0	15.5	11.5	9.0	7.5	12.0	22.0	25.0	27.0	30.0	28.5	26.5
12	18.5	15.5	11.5	10.5	9.0	13.0	20.5	25.0	27.5	29.0	28.5	26.5
13	17.0	16.0	12.5	9.0	10.0	15.0	21.5	25.5	28.0	29.5	28.5	27.0
14	19.5	16.0	13.5	8.0	10.0	16.5	20.0	24.0	27.5	29.0	28.5	27.0
15	20.0	17.0	14.0	6.0	11.0	16.0	21.0	24.0	28.5	29.5	28.5	27.0
13	20.0	17.00	14.0	0.0	11.0	10.0		24.00			20.5	
16	19.5	18.0	14.5	8.0	10.5	16.0	22.0	24.5	28.0	29.5	29.0	27.5
17	19.0	19.5	15.0	8.5	10.0	14.0	22.5	25.5	28.0	30.0	29.0	28.0
18	18.5	20.0	13.5	7.0	10.0	14.0	23.5	26.0	28.0	30.0	29.5	28.0
19	19.5	19.0	15.5	6.0	8.0	14.5	22.5	26.5	28.5	31.0	29.5	28.0
20	20.0	20.0	17.0	5.0	8.0	17.0	21.0	27.0	28.0	27.5	29.5	28.5
20	20.0	20.0	1,10	5.0	0.0			2.00				44.4
21	21.0	21.0	12.0	5.5	7.0	17.5	20.5	28.0	29.0	29.0	30.0	29.0
22	20.0	18.5	12.0	5.5	7.0	19.0	22.0	28.0	29.0	27.0	29.0	28.5
23	23.0	19.0	13.0	5.5	9.0	19.0			29.0	27.5	29.0	29.0
24	22.0	19.0		7.0	8.5	19.0		28.5	28.5	28.0	32.0	27.0
25	22.0	19.0	15.0	10.0	9.5	18.5	24.0	28.0	29.5	29.5	29.5	26.5
26	21.5	18.0	13.0	7.5	10.5	17.0	21.5	28.0	29.5	29.0	30.0	27.5
			13.0					28.0	29.5	29.0	28.5	28.0
27	22.5	17.5	13.5	9.0	10.5	17.0	21.5					
28	23.0	19.0	14.0	8.5	11.0	17.0	22.0	28.5	29.5	27.5	27.0	26.5
29	22.5	20.0	14.5	7.0		17.5	22.5	29.0	29.5	29.0	27.0	25.0
30	23.0	19.5	11.5	8.5		17.5	22.5	29.0	24.0	29.0	26.5	26.0
31	22.5		12.0	6.5		17.5		29.0		27.0	26.0	
MONTH	22.0	19.0	14.5	9.0	8.5	15.5	21.5	25.5	28.5	29.0	29.0	27.5
YEAR	MAX	32.0	MIN	5.0	MEAN	21.0						

MISSISSIPPI RIVER DELTA

293316092182000 FRESHWATER CANAL ABOVE FRESHWATER BAYOU LOCK (NORTH), NEAR FORKED ISLAND, LA (CE 76591)--Continued

DISSOLVED CHLORIDE (CL) . MG/L. WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

					014	CE-DAIL!						
	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DAY	001	NOV	520					7100	4000	7900	7400	4400
	1000	680	3400	5400	2900	5200	10000	7600			7400	4000
1	1000	3800	3200	2800	2800	5800	8200	6300	3800	7200		4500
2	1000		4000	5500	2600	6400	9900	6000	4000	8700	12000	
3	900	900		5600	3300	5400	8200	6900	4000	8500	7500	5200
4	1000	3100	4200			5700	9900	8500	4100	10000	11000	5700
5	500	910	4100	5600	4000	3700	3300	0300				80.55
		***	2200	5200	3500	5400	7800	8800	7100	11000	9300	3800
6	500	900	3200		5600	7500	7300	9100	3100	11000	8400	5300
7	500	1000	3300	1300		5700	5100	7000	3000	12000	8100	5500
8	500	2000	3800	1300	4300		4800	5600	6700	11000	7700	5200
9	510	4600	3900	1100	4400	6000		5400	7800	11000	7400	4000
10	530	3800	4600	1200	3800	6000	4300	5400	1000	11000		
10				1270		7200	5600	3900	6200	12000	6700	4100
11	500	4200	3700	4400	4800			4200	5900	10000	6700	3800
12	510	5000	3600	3800	6000	6800	6400		5800	9700	7300	3300
13	540	6000	3300	3700	5400	8200	5100	4000	12000	8800	7700	3500
14	2000	7000	3000	4400	4100	8600	8000	6900			8000	3800
	2100	7200	2700	4700	4100	5900	5400	9800	9500	8200	8000	3000
15	2100	1200	2.00	7.1					2.00	44.4	7700	5800
	-200	0.10	2700	4800	4800	6200	4600	9400	7800	8800	7700	3700
16	2100	8100		3500	5200	6200	3800	10000	7300	10000	7100	
17	2100	6500	2800		5800	7800	4100	10000	6700	13000	7000	3700
18	2100	5600	2600	4200	5700	8000	5900	9200	5000	8200	7800	2800
19	530	5700	3000	3900		7800	7900	7800	4700	9400	7000	3200
20	530	4800	3600	3500	5400	7000	1900	, , ,				
			44.0		5700	8000	11000	6300	4300	9000	6500	3300
21	690	4400	2800	4300			8400	6000	4400	8000	6200	3200
22	880	4100	3100	3900	6600	6600			4400	8300	6600	5200
23	860	4100	5400	4400	4700	6800		5200	5000	7000	6200	4800
24	850	4500	4800	5700	6000	6200				6300	6200	5600
25	3400	3800	4400	3400	6600	6000	5600	4900	8100	6300	0200	3000
23	0.00	7.75						5000	9800	5800	5700	9000
26	600	4100	4300	3500	6300	6200	6800		8600	6000	5400	7200
27	600	5100	5600	3600	6100	6000	9500	5000		6800	5100	6000
28	640	4600	6900	3000	2000	7400	8600	10000	7900		4600	6800
	650	4600	6900	2500		9400	8900	4800	7500	8800		7500
29			5100	2400		8300	7500	4500	8600	8700	4000	
30	710	3600	4500	3500		8800		4200		9600	4800	
31	740		4500	3300								
MONTH	990	4200	4000	3700	4700	6800	7100	6700	6200	9100	7100	4800
YEAR	MAX	13000	MIN	500	MEAN	5400						

294625092244000 WHITE LAKE IN NORTHEAST CORNER, NEAR LITTLE PRAIRIE RIDGE, NEAR FORKED ISLAND, LA (CE 96123)

LOCATION.--Lat 29°46'25", long 92°24'40", R.1 E., T.15 E., Vermilion Parish, Hydrologic Unit 08080202, 7.2 mi (11.6 km) southwest of Forked Island.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1974 to current year.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS- PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CACO3)
26 NOV	1150	782	7.5	20	50	8.3	50	1.3			90	54
15 DEC	1045	713	7.5	80	75		93			кв	79	39
19 JAN	1055	620	7.8	50	65	9.1	28	.1	K160	K15	88	49
26 FEB	1110	415	7.3	100	55	11.6	49	1.2		K60	43	12
17 MAR	1115	247	7.1	80	80	11.2	32	1.4	K280	К6	33	10
17	1100	298	7.1	80	180	8.6	54	.4	K80	, K12	38	11
20 MAY	1140	344	7.2	160	210	8.2	62	.6	<5	<5	95	72
24 JUN	1025	1030	7.2	60	90	6.8	48	.0	<5	к2	110	92
21 JUL	1037	1560	7.4	20	6	7.8	31	.3	<5	<5	160	130
17 SEP	1120	2180	8.5	30	6	7.6	32	1.9	K2400		220	190
01	1010 1145	2370 1790	7.0	15 20	40 15	7.7 8.8	31 25	1.1	K60 1100	K5	230 180	210
	CALCIUM DIS-	MAGNE- SIUM,	SODIUM,		SODIUM	POTAS-			ALKA-	CARBON		CHLO-
DATE	SOLVED (MG/L AS CA)	DIS- SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SORP- TION RATIO	SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	TOTAL (MG/L AS CACO3)	DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	RIDE. DIS- SOLVED (MG/L AS CL)
ост	SOLVED (MG/L AS CA)	SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)		SORP- TION RATIO	DIS- SOLVED (MG/L AS K)	MG/L AS HCO3)	BONATE (MG/L AS CO3)	TOTAL (MG/L AS CACO3)	DIS- SOLVED (MG/L AS CO2)	DIS- SOLVED (MG/L AS SO4)	DIS- SOLVED (MG/L AS CL)
OCT 26	SOLVED (MG/L AS CA)	SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	PERCENT	SORP- TION RATIO	DIS- SOLVED (MG/L AS K)	BONATE (MG/L AS HC03)	BONATE (MG/L AS CO3)	TOTAL (MG/L AS CACO3)	DIS- SOLVED (MG/L AS CO2)	DIS- SOLVED (MG/L AS SO4)	DIS- SOLVED (MG/L AS CL)
OCT 26 NOV 15 DEC	SOLVED (MG/L AS CA)	SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	PERCENT	SORP- TION RATIO	DIS- SOLVED (MG/L AS K)	BONATE (MG/L AS HCO3)	BONATE (MG/L AS CO3)	TOTAL (MG/L AS CACO3)	DIS- SOLVED (MG/L AS CO2)	DIS- SOLVED (MG/L AS SO4)	DIS- SOLVED (MG/L AS CL)
OCT 26 NOV 15 DEC 19	SOLVED (MG/L AS CA) 13 12	SOLVED (MG/L AS MG) 14 12	DIS- SOLVED (MG/L AS NA)	PERCENT	SORP- TION RATIO	DIS- SOLVED (MG/L AS K)	BONATE (MG/L AS HCO3) 44 49	BONATE (MG/L AS CO3) 0 0	TOTAL (MG/L AS CACO3) 36 40	DIS- SOLVED (MG/L AS CO2)	DIS- SOLVED (MG/L AS SO4) 30 25	DIS- SOLVED (MG/L AS CL) 180 170
OCT 26 NOV 15 DEC 19 JAN 26 FEB	SOLVED (MG/L AS CA)  13  12  17  6.9	SOLVED (MG/L AS MG)  14  12  11  6.3	DIS- SOLVED (MG/L AS NA)	PERCENT 67 70	SORP- TION RATIO	DIS- SOLVED (MG/L AS K)	BONATE (MG/L AS HCO3) 44 49 47 38	BONATE (MG/L AS CO3) 0 0	TOTAL (MG/L AS CACO3) 36 40 39	DIS- SOLVED (MG/L AS CO2) 2.2 2.5 1.2 3.0	DIS- SOLVED (MG/L AS SO4) 30 25 27	DIS- SOLVED (MG/L AS CL) 180 170 150 74
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR	SOLVED (MG/L AS CA)  13  12  17  6.9  6.2	SOLVED (MG/L AS MG)  14  12  11  6.3  4.2	DIS- SOLVED (MG/L AS NA)  88 51	PERCENT 67 70 66	SORP- TION RATIO	DIS- SOLVED (MG/L AS K)	BONATE (MG/L AS HCO3) 44 49 47 38 28	BONATE (MG/L AS CO3)  0  0  0  0	TOTAL (MG/L AS CACO3)  36  40  39  31	DIS- SOLVED (MG/L AS CO2) 2.2 2.5 1.2 3.0 3.6	DIS- SOLVED (MG/L AS SO4) 30 25 27 18 9.3	DIS- SOLVED (MG/L AS CL) 180 170 150 74
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR	13 12 17 6.9 6.2	SOLVED (MG/L AS MG)  14  12  11  6.3  4.2  6.2	DIS- SOLVED (MG/L AS NA) 88 51 32 45	PERCENT 67 70 66 70	SORP- TION RATIO	DIS- SOLVED (MG/L AS K)  5.5 3.9 2.8 4.1	BONATE (MG/L AS HCO3) 44 49 47 38 28	BONATE (MG/L) AS CO3)  0  0  0  0  0	TOTAL (MG/L AS CACO3)  36  40  39  31  23	DIS- SOLVED (MG/L AS CO2) 2.2 2.5 1.2 3.0 3.6 4.2	DIS- SOLVED (MG/L AS SO4) 30 25 27 18 9.3	DIS- SOLVED (MG/L AS CL) 180 170 150 74 48 66
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY	SOLVED (MG/L AS CA)  13  12  17  6.9  6.2  4.9	SOLVED (MG/L AS MG)  14  12  11  6.3  4.2  6.2	DIS- SOLVED (MG/L AS NA)  88 51 32 45	PERCENT 67 70 66 70 70	SORP- TION RATIO  4.1 3.4 2.4 3.2 4.9	DIS- SOLVED (MG/L AS K)  5.5 3.9 2.8 4.1 5.7	BONATE (MG/L AS HCO3) 44 49 47 38 28 33	BONATE (MG/L) AS CO3)  0  0  0  0  0  0	TOTAL (MG/L AS CACO3)  36  40  39  31  23  27	DIS- SOLVED (MG/L AS CO2) 2.2 2.5 1.2 3.0 3.6 4.2 2.8	DIS- SOLVED (MG/L AS SO4) 30 25 27 18 9.3 15	DIS- SOLVED (MG/L AS CL) 180 170 150 74 48 66 200
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN	13 12 17 6.9 6.2 4.9 20	SOLVED (MG/L AS MG)  14  12  11  6.3  4.2  6.2  11	DIS- SOLVED (MG/L AS NA)  88 51 32 45 110	PERCENT 67 70 66 70 70 72	SORP- TION RATIO 4.1 3.4 2.4 3.2 4.9 6.1	DIS- SOLVED (MG/L AS K)  5.5 3.9 2.8 4.1 5.7 8.1	BONATE (MG/L AS HCO3) 44 49 47 38 28 33 28	BONATE (MG/L AS CO3)  0  0  0  0  0  0  0  0	TOTAL (MG/L AS CACO3)  36  40  39  31  23  27  23	DIS- SOLVED (MG/L AS CO2) 2.2 2.5 1.2 3.0 3.6 4.2 2.8 2.7	DIS- SOLVED (MG/L AS SO4) 30 25 27 18 9.3 15 39	DIS- SOLVED (MG/L AS CL) 180 170 150 74 48 66 200 260
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN 21 JUL	13 12 17 6.9 6.2 4.9 20 16	SOLVED (MG/L AS MG)  14  12  11  6.3  4.2  6.2  11  18  27	DIS- SOLVED (MG/L AS NA) 88 51 32 45 110 150 230	PERCENT	SORP- TION RATIO	DIS- SOLVED (MG/L AS K)  5.5 3.9 2.8 4.1 5.7 8.1	BONATE (MG/L AS HCO3) 44 49 47 38 28 33 28 27	BONATE (MG/L) AS CO3)  0 0 0 0 0 0 0 0 0	TOTAL (MG/L AS CACO3)  36  40  39  31  23  27  23  22	DIS- SOLVED (MG/L AS CO2) 2.2 2.5 1.2 3.0 3.6 4.2 2.8 2.7 2.2	DIS- SOLVED (MG/L AS SO4) 30 25 27 18 9.3 15 39 47 64	DIS- SOLVED (MG/L AS CL) 180 170 150 74 48 66 200 260 420
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN 21	13 12 17 6.9 6.2 4.9 20	SOLVED (MG/L AS MG)  14  12  11  6.3  4.2  6.2  11	DIS- SOLVED (MG/L AS NA)  88 51 32 45 110	PERCENT 67 70 66 70 70 72	SORP- TION RATIO 4.1 3.4 2.4 3.2 4.9 6.1	DIS- SOLVED (MG/L AS K)  5.5 3.9 2.8 4.1 5.7 8.1	BONATE (MG/L AS HCO3) 44 49 47 38 28 33 28	BONATE (MG/L AS CO3)  0  0  0  0  0  0  0  0	TOTAL (MG/L AS CACO3)  36  40  39  31  23  27  23	DIS- SOLVED (MG/L AS CO2) 2.2 2.5 1.2 3.0 3.6 4.2 2.8 2.7	DIS- SOLVED (MG/L AS SO4) 30 25 27 18 9.3 15 39	DIS- SOLVED (MG/L AS CL) 180 170 150 74 48 66 200 260

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

294625092244000 WHITE LAKE IN NORTHEAST CORNER, NEAR LITTLE PRAIRIE RIDGE, NEAR FORKED ISLAND, LA (CE 96123)--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN; NITRATE TOTAL (MG/L AS N)	NITRO- GEN. NITRITE TOTAL (MG/L AS N)	NITRO- GEN; NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS- (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM+ SUS- PENDED RECOV- (UG/L AS BE)
OCT									2		0	0
26		<1.0	•02	.02	.04	1.2	.12	3		1		
15 DEC	98	<1.0	.15	.04	.19	.35	.15	3	2	1	0	0
19	273	<1.0	.18	.04	.22	.50	.18	4	3	1	0	0
26 FEB	384	<1.0	•18	.07	.25	.59	.23	6	5	1	0	0
17	168	<1.0	.27	.07	.34	.74	.19	3	2	1	0	0
MAR 17	214	<1.0	.28	.05	.33	.82	.23	3	3	0	0	0
APR 20	250	<1.0	• 40	.00	.40	.83	.26	4	3	1	0	0
MAY 24	108	<1.0	.83	.00	.83	.85	.12	3	2	1	0	8
JUN 21	. 21	<1.0	•02	.01	.03	.63	.02	1	0	1	0	0
JUL 17	. 0	<1.0	•01	.01	.02	.59	.03	2	1	1	10	0
SEP 01	47	<1.0	.13	.01	.14	.60	.02	1	0	1	0	0
13	5	<1.0	.02	.01	.03	.61	.04	i	1	ō	10	10
	BERYL-	CADMIUM	CADMIUM SUS-		CHRO-	CHRU-	COPPER,	COPPER,				LEAD.
DATE	LIUM, UIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)	PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	TOTAL RECOV- ERABLE (UG/L AS CR)	HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON. DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
OCT 26	SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L	PENDED RECOV- ERABLE (UG/L	DIS- SOLVED (UG/L	TOTAL RECOV- ERABLE (UG/L	HEXA- VALENT, DIS. (UG/L	TOTAL RECOV- ERABLE (UG/L	PENDED RECOV- ERABLE (UG/L	DIS- SOLVED (UG/L	DIS- SOLVED (UG/L	TOTAL RECOV- ERABLE (UG/L	PENDED RECOV- ERABLE (UG/L
OCT 26 NOV 15	UIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)	PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	TOTAL RECOV- ERABLE (UG/L AS CR)	HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	PENDED RECOV- ERABLE (UG/L AS PB)
OCT 26 NOV 15 DEC 19	SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)	PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	TOTAL RECOV- ERABLE (UG/L AS CR)	HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	PENDED RECOV- ERABLE (UG/L AS PB)
OCT 26 NOV 15 DEC 19 JAN 26	SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)	PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	TOTAL RECOV- ERABLE (UG/L AS CR)	HEXA- VALENT, DIS- (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB) <100	PENDED RECOV- ERABLE (UG/L AS PB)
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17	UIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)	PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	TOTAL RECOV- ERABLE (UG/L AS CR)  10  0	HEXA- VALENT, DIS- (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE) 40 50	TOTAL RECOV- ERABLE (UG/L AS PB) <100 32	PENDED RECOV- ERABLE (UG/L AS PB)
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17	UIS- SOLVED (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS CD)  <10 0 0	PENUED RECOV- ERABLE (UG/L AS CD) <10 0	DIS- SOLVED (UG/L AS CD)	TOTAL RECOVERABLE (UG/L AS CR)	HEXA- VALENT, DIS- (UG/L AS CR) 0 0	TOTAL RECOV- ERABLE (UG/L AS CU)  <10 8 14 17	PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU) 7 2	DIS- SOLVED (UG/L AS FE) 40 50 50	TOTAL RECOV-ERABLE (UG/L AS PB)	PENDED RECOV- ERABLE (UG/L AS PB) <99 31 14
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17	UIS- SOLVED (UG/L AS BE) 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CD)  <10  0  0 0	PENDED RECOV- ERABLE (UG/L AS CD) <10 0 0	DIS- SOLVED (UG/L AS CD)	TOTAL RECOV- ERABLE (UG/L AS CR)  10  20  10	HEXA- VALENT, DIS. (UG/L AS CR) 0 0	TOTAL RECOVERABLE (UG/L AS CU)  <10 8 14 17	PENDED RECOV- ERABLE (UG/L AS CU)  <3 6 10 14 8	DIS- SOLVED (UG/L AS CU) 7 2 4 3	DIS- 50LVED (UG/L AS FE) 40 50 50 50	TOTAL RECOV- ERABLE (UG/L AS PB) <100 32 14 14 7	PENDED RECOV- ERABLE (UG/L AS PB) <99 31 14 14
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY	UIS- SOLVED (UG/L AS BE)	TOTAL RECOV- REABLE (UG/L AS CD)  <10 0 0 0 0	PENUED RECOV- ERABLE (UG/L AS CD) <10 0 0	DIS- SOLVED (UG/L AS CD)	TOTAL RECOV- ERABLE (UG/L AS CR)  10  20  10  20	HEXA- VALENT, DIS. (UG/L AS CR) 0 0	TOTAL RECOVERABLE (UG/L AS CU)  <10 8 14 17 17	PENDED RECOV- ERABLE (UG/L AS CU) <3 6 10 14 8 5	DIS- SOLVED (UG/L AS CU) 7 2 4 3	DIS- SOLVED (UG/L AS FE) 40 50 50 70	TOTAL RECOV-ERABLE (UG/L AS PB) <100 32 14 14 7 3	PENDED RECOV- ERABLE (UG/L AS PB) <99 31 14 14 7
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN	UIS- SOLVED (UG/L AS BE)  0 0 0 0 0 0 0	TOTAL RECOV- REABLE (UG/L AS CD)  <10 0 0 0 0 0	PENUED RECOV- ERABLE (UG/L AS CD) <10 0 0	DIS- SOLVED (UG/L AS CD)	TOTAL RECOV- ERABLE (UG/L AS CR)  10  20  10  20  30	HEXA- VALENT, DIS- (UG/L AS CR) 0 0 0	TOTAL RECOV-ERABLE (UG/L AS CU)  <10 8 14 17 17 27	PENDED RECOV- ERABLE (UG/L AS CU) <3 6 10 14 8 5	DIS- SOLVED (UG/L AS CU) 7 2 4 3 9 7	DIS- SOLVED (UG/L AS FE) 40 50 50 70 50 90	TOTAL RECOVERABLE (UG/L AS PB)  <100 32 14 14 7 3 11	PENDED RECOV- ERABLE (UG/L AS PB) <99 31 14 14 7 3
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN 21 JUL	UIS- SOLVED (UG/L AS BE) 0 0 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CD)  <10  0  0  0  1	PENUED RECOV- ERABLE (UG/L AS CD)  <10 0 0 0 0 0 0	DIS- SOLVED (UG/L AS CD)	TOTAL RECOV- ERABLE (UG/L AS CR)  10  20  10  20  30  10	HEXA- VALENT, DIS. (UG/L AS CR) 0 0 0 0	TOTAL RECOVERABLE (UG/L AS CU)  <10 8 14 17 17 22 27 8	PENDED RECOV- ERABLE (UG/L AS CU)  <3 6 10 14 8 5 26 2	DIS- SOLVED (UG/L AS CU) 7 2 4 3 9 7	DIS- SOLVED (UG/L AS FE) 40 50 50 70 50 90 40	TOTAL RECOVERABLE (UG/L AS PB)  <100 32 14 14 7 3 11	PENDED RECOV- ERABLE (UG/L AS PB) 31 14 14 7 3 11
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUNN 21	UIS- SOLVED (UG/L AS BE)  0 0 0 0 0 0 0 10	TOTAL RECOV- REABLE (UG/L AS CD)  <10 0 0 0 0 1 0 0	PENUED RECOV- ERABLE (UG/L AS CD) <10 0 0 0 0	DIS- SOLVED (UG/L AS CD) 0 0 0 0	10	HEXA- VALENT, DIS- (UG/L AS CR)  0  0  0  0  0  0  0	TOTAL RECOVERABLE (UG/L AS CU)  <10 8 14 17 17 12 27 8 5	PENDED RECOV- ERABLE (UG/L AS CU) <3 6 10 14 8 5 26 2	DIS- SOLVED (UG/L AS CU)  7 2 4 3 9 7 1 6 3	DIS- SOLVED (UG/L AS FE) 40 50 50 70 50 90 40 20	TOTAL RECOV-ERABLE (UG/L AS PB)  <100 32 14 14 7 3 11 9 2	PENDED RECOV- ERABLE (UG/L AS PB) 31 14 14 7 3 11 8

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

294625092244000 WHITE LAKE IN NORTHEAST CORNER, NEAR LITTLE PRAIRIE RIDGE, NEAR FORKED ISLAND, LA (CE 96123) -- Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL + TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL+ SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
OCT	1		0	.0	<50	<50	0	0	0	0	
26	1	. 0	.0	. 0	(30	130	· ·	U	Ü		
NOV 15	1	.4	.4	.0	9	8	1	0	0	0	.2
DEC		• •	• •			0					
19	0	.1	.1	. 0	19	17	2	0	0	0	
JAN											100
26	0	. 0	. 0	.0	19	17	2	0	0	0	1.0
FEB						4	4				1 0
17	0	.5	.5	.0	6	6	0	0	0	0	1.0
MAR		0	•	0	10	9	1	1	1	0	1.0
17 APR	0	.0	.0	.0	10	9	1	1		·	1.0
20	0	.0	.0	.0	7	7	0	0	0	0	1.0
MAY											
24	1	.0	. 0	. 0	4	4	0	1	1	0	
JUN											
21	0	. 0	.0	.0	0	0	0	0	0	0	
JUL			,	0	22	20	2	0	0	0	
17	4	.1	.1	.0	22	20	2	U	U	· ·	
SEP	0	-0	0	0	4	0	4	0	0	0	
	1				2		2	0	0	0	
13	0	.0	• 0	.0	2	0	2	0	0		

DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON+ ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN+ TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD+ TOTAL (UG/L)
OCT						2	0	0	.00	.000	.0	.000
26			40	8.4	.00	2	0	• 0	.00	.000	• 0	.000
NOV 15	30	20	10	15	.00	2	0	.0	.00	.000	.0	.000
DEC	30			- 3								
19	50	40	10	14	.00	0	0	.0	.00	.000	.0	.000
JAN		100		4.4					0.0	0.00	0	.000
26	60	60	0	16	.00	4	0	. 0	.00	.000	• 0	.000
FEB	30	20	10	13	•00	1	0	.0	.00	.000	.0	.000
17 MAR	30	20	10	13	• 0 0	1	U	• 0	•00		• •	
17	30	20	10	16	.00	1	0	.0	.00	.000	.0	.000
APR										0.00		
20	60	50	10	19	.00	0	0	. 0	.00	.000	.0	.000
MAY	2.0	20	10	13	.00	2		.0	.00	.000	.0	.000
24 JUN	30	20	10	13	.00	2		• 0	.00	.000	• •	
21	10	0	10	6.2	.00	4	0	. 0	.00	.000	. 0	.000
JUL	- 0		-									
17	20	0	20	8.3	.00	2	0	. 0	.00	.000	. 0	.000
SEP			100			2			0.0	.000	.0	.000
01	40	0	40	6.1	.00	3	0	.0	.00	.000	.0	.000
13	10	10	0	5.6	.00	2	U	. 0	.00	.000	. 0	.000

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

294625092244000 WHITE LAKE IN NORTHEAST CORNER, NEAR LITTLE PRAIRIE RIDGE, NEAR FORKED ISLAND, LA (CE 96123)--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
OCT				000	000	000						
26	.000	.000	• 0 0	.000	.000	.000	.00	.000	.000	.000	.00	.00
15	.000	.000	.00	.001	.000	.000	.00	.000	.000	.000	.00	.00
DEC												
19	.000	.000	.00	.000	.000	.000	.00	.000	.000	.000	.00	.00
JAN 26		222	•00	.000	.000	.000	.00	.000	.000	.000	.00	.00
FEB	.000	.000	•00	.000	.000	.000	•00	.000	.000	.000	.00	.00
17	.000	.000	.00	.002	.000	.000	.00	.000	.000	.000	.00	.00
MAR												
17	.000	.000	• 0 0	.000	.000	.000	.00	.000	.000	.001	.00	.00
APR		2000	0.1		000	000	0.0	000	.000	.000	.00	.00
20 MAY	.000	.000	•01	.001	.000	.000	.00	.000	.000	.000	.00	.00
24	.000	.000	.01	.000	.000	.000	.00	.000	.000	.000	.00	.00
JUN	.000	.000										
21	.000	.000	.01	.001	.000	.000	.00	.000	.000	.001	.00	.00
JUL					0.00				000	000		0.0
17 SEP	.000	.000	• 02	.000	.001	.000	.00	.000	.000	.000	.00	.00
01	000	.001	.01	.001	.001	.000	.00	.000	.000	.000	.00	.00
13	.000	.001	•00	.001	.001	.000	•00	.000	11. 5/5/2012		.00	.00
	.000	.000	• 00	.001		.000	•00	.000	••••		• • •	

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	
ост												
26	.00	.00	.00	0.0	.00	.00	.00	.00	.00	3.10	.220	
15	.00	.00	.00	0.0	.00	.00	.00	.00	.00	11.6	.000	
DEC 19	.00	.00	.00	0.0	.00	.00	.00	.00	.00	.000	.000	
JAN 26	.00	.00	.00	0.0	.00	.00	.00	.00	.00	.000	.000	
FEB 17	.00	.00	.00	0.0	.00	.00	.01	.00	.00	.670	.000	
MAR	.00	•00	•00	0.0	•00	•00	•01	.00	.00	.010	.000	
17	.00	.00	.00	0.0	.00	.00	.01	.00	.00	4.89	.000	
APR 20	.00	.00	.00	0.0	.00	.00	.00	.00	.00	13.6	.000	
MAY	•••	•••	•••	0.0	•••	•••	•••	•••				
24	.00	.00	.00	0.0	.00	.00	.00	.00	.00	6.08	.000	
JUN 21	.00	.00	.00	0.0	.00	.00	.02	.00	.00			
JUL	•••	• • • •	•••	0.0	•••	•••			• • • • • • • • • • • • • • • • • • • •			
17 SEP	.00	.00	.00	0.0	.00	.00	.06	.00	.00	25.3	.000	
01	.00	.00	.00	0.0	.00	.00	.02	.00	.00			
13		.00	.00	0.0	.00	.00	.00	.00	.00	8.23	.000	
				0.0								

294530092360000 GRAND LAKE NORTHEAST OF CATFISH POINT CONTROL STRUCTURE, NEAR GRAND CHENIER, LA (CE 96128)

LOCATION.--Lat 29°45'30", long 92°36'00", T.13 S., R.4 W., Cameron Parish, Hydrologic Unit 08080202, 7.7 mi (12.4 km) northeast of Grand Cheniere.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1974 to current year.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
OCT												
26 NOV	1130	328	7.7	50	30	8.2	35	1.0			50	6
15	1030	413	7.4	70	55	9.7	59	2.8	K40	K4	62	18
DEC 19	1035	93	7.3	80	65	9.0	24	.9	K64	K10	17	1
JAN 26	1200	120	7 1									
FEB	1200	138	7.1	140	80	12.0	40	2.5	720	270	23	0
17 MAR	1205	97	7.0	60	90	11.2	17	2.0		K24	19	3
17	1150	139	6.9	100	190	9.2	51	.9	k32	K2	43	26
APR 20	1220	755	7.1	60	180	8.2	65	.5	<5	<5	66	47
MAY 24	1110	1820	7.2	30	55	7.6	32	.8	<5	<5	610	590
JUN												
21 JUL	1100	1380	7.5	30	60	7.9	43	1.4	<10	<4	180	140
17 SEP	1145	1730	7.6	20	40	7.1	30	1.1	K2600	K8	180	140
01	1105	728	7.5	50	65	7.5	26	.2	K40	K20	86	44
13	1250	141	7.0	70	30	6.6	28	4.0	4800	K20	34	1
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT												
26	8.9	6.7					54	0	44	1.7	10	67
15	9.5	9.3					54	0	44	3.4	12	94
19 JAN	3.9	1.8	10	51	1.1	2.7	20	0	16	1.6	5.5	13
26	5.4	2.3	16	56	1.5	3.0	28	0	23	3.6	10	21
FEB 17	5.0	1.7	11	52	1.1	2.1	20	0	16	3.2	7.9	16
MAR 17	4.2	8.0	63	73	4.2	4.8	21	0	17	4.2	20	99
APR												
20 MAY	11	9.4	120	77	6.4	9.4	23	0	19	2.9	35	190
24 JUN	48	120	140	31	2.0	43	26	0	21	2.6	230	520
21 JUL	23	30	260	74	8.4	13	45	0	37	2.3	65	450
17 SEP	19	32	280	76	9.1	12	42	0	34	1.7	76	460
01	13 8.3	13 3.3	99 14	70 43	4.6	6.1 5.0	51 41	0	42 34	2.6	30 6.3	180 19

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

### MISSISSIPPI RIVER DELTA

294530092360000 GRAND LAKE NORTHEAST OF CATFISH POINT CONTROL STRUCTURE, NEAR GRAND CHENIER, LA (CE 96128)--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)	NITRO- GEN; NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN + AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
OCT 26	32	<1.0	•01	.02	.03	1.2	.17	3	1	2	0	0
NOV 15	43	<1.0	•08	.01	.09	.35	.16	3	1	2	0	0
DEC 19	91	<1.0	.20	.02	.22	.66	.16	2	1	1	0	0
JAN 26	220	<1.0	•32	.05	.37	.91	.29	4	3	1	10	10
FEB 17	178	<1.0	•17						2		0	
MAR				.07	.24	1.4	•24	3		1		0
17 APR	118	<1.0	.38	.05	.43	.09	•25	2	1	1	0	0
20 MAY	0	<1.0	•41	.06	.47	1.1	.16	3	2	1	0	0
24 JUN	5	<1.0	• 45	•02	.47	.72	• 04	1	1	0	0	0
21 JUL	220	<1.0	.04	.01	.05	.50	.11	2	1	1	5	5
17 SEP	62	<1.0	.01	.01	.02	.61	.04	2	0	2	0	0
01	68	<1.0	•00	.02	.02	.54	.07	3	1	2	0	0
13	10	<1.0	• 05	.01	.06	.81	.30	5	1	4	0	0
DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECCV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER+ SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON. DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)
ост	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECCV- ERABLE (UG/L AS CD)	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM; TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
OCT 26	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECCV- ERABLE (UG/L AS CD)	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	PENDED RECOV- ERABLE (UG/L AS PB)
OCT 26 NOV 15	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECCV- ERABLE (UG/L AS CD) <10	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
OCT 26 NOV 15 DEC 19	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECCV- EFABLE (UG/L AS CD)  <10 0	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE) 180 80	TOTAL RECOV- ERABLE (UG/L AS PB) <100 6	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
OCT 26 NOV 15 DEC 19 JAN 26 FEB	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECCV- ERABLE (UG/L AS CD) <10 0	SUS- PENDED RECOV- ERABLE (UG/L AS CD)  <10 0 0	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS- (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU) <10 15 6	SUS- PENDED RECOV- ERABLE (UG/L AS CU) <8 13	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE) 180 80 320 70	TOTAL RECOV- ERABLE (UG/L AS PB) <100 6 3	SUS- PENDED RECOV- ERABLE (UG/L AS PB) <99 5 3
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR	LIUM+ DIS- SOLVED (UG/L AS BE)	TOTAL RECCV- ERABLE (UG/L AS CD)  <10  0  0 0	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS- (UG/L AS CR)	TOTAL RECOV- PERABLE (UG/L AS CU)  <10 15 6 12 21	SUS- PENDED RECOV- ERABLE (UG/L AS CU) <8 13 2 10	DIS- SOLVED (UG/L AS CU) 2 2 4 2	DIS- SOLVED (UG/L AS FE) 180 80 320 70 140	TOTAL RECOV- ERABLE (UG/L AS PB) <100 6 3 11 7	SUS- PENDED RECOV- ERABLE (UG/L AS PB) <99 5 3 11
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17	LIUM, DIS- SOLVED (UG/L AS BE)	TOTAL RECCV- ERABLE (UG/L AS CD) <10 0	SUS- PENDED RECOV- ERABLE (UG/L AS CD)  <10 0 0	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 0 4 0 20 30	MIUM, HEXA- VALENT, DIS- (UG/L AS CR) 0 0	TOTAL RECOV- ERABLE (UG/L AS CU)  <10  15  6  12  21	SUS- PENDED RECOV- ERABLE (UG/L AS CU)  <8 13 2 10 7 2	DIS- SOLVED (UG/L AS CU) 2 2 4 2 14	DIS- SOLVED (UG/L AS FE) 180 80 320 70 140 80	TOTAL RECOVERABLE (UG/L AS PB)  <100 6 3 11 7 2	SUS- PENDED RECOV- ERABLE (UG/L AS PB) <99 5 3 11 7
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17	LIUM+ DIS- SOLVED (UG/L AS BE)	TOTAL RECCV- ERABLE (UG/L AS CD)  <10  0  0 0	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 0 4 0 20 30 10	MIUM, HEXA- VALENT, DIS- (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)  <10  15  6  12  21  6	SUS- PENDED RECOV- ERABLE (UG/L AS CU)  <8 13 2 10 7 2 0	DIS- SOLVED (UG/L AS CU) 2 2 4 2 14	DIS- SOLVED (UG/L AS FE) 180 80 320 70 140 80 70	TOTAL RECOVERABLE (UG/L AS PB)  <100 6 3 11 7 2 10	SUS- PENDED RECOV- ERABLE (UG/L AS PB) <99 5 3 11 7 2
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24	LIUM+ DIS- SOLVED (UG/L AS BE) 0 0	TOTAL RECCV- PERABLE (UG/L AS CD)  <10  0  0  0  0	SUS-PENDED RECOV-ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 0 4 0 20 30	MIUM, HEXA- VALENT, DIS- (UG/L AS CR) 0 0	TOTAL RECOV- ERABLE (UG/L AS CU)  <10  15  6  12  21	SUS- PENDED RECOV- ERABLE (UG/L AS CU)  <8 13 2 10 7 2	DIS- SOLVED (UG/L AS CU) 2 2 4 2 14	DIS- SOLVED (UG/L AS FE) 180 80 320 70 140 80	TOTAL RECOVERABLE (UG/L AS PB)  <100 6 3 11 7 2	SUS- PENDED RECOV- ERABLE (UG/L AS PB) <99 5 3 11 7
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN 21	LIUM+ DIS- SOLVED (UG/L AS BE) 0 0 0	TOTAL RECCV- EFABLE (UG/L AS CD)  <10  0  0  1	SUS-PENDED RECOV-ERABLE (UG/L AS CD)  <10 0 0 0 0 0 0	DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 0 4 0 20 30 10	MIUM, HEXA- VALENT, DIS- (UG/L AS CR) 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CU)  <10  15  6  12  21  6	SUS- PENDED RECOV- ERABLE (UG/L AS CU)  <8 13 2 10 7 2 0	DIS- SOLVED (UG/L AS CU) 2 2 4 2 14	DIS- SOLVED (UG/L AS FE) 180 80 320 70 140 80 70	TOTAL RECOVERABLE (UG/L AS PB)  <100 6 3 11 7 2 10	SUS- PENDED RECOV- ERABLE (UG/L AS PB) <99 5 3 11 7 2
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN	LIUM+ DIS- SOLVED (UG/L AS BE) 0 0 0 0	TOTAL RECCV- REABLE (UG/L AS CD)  <10 0 0 0 1 0 0	SUS- PENDED RECOV- ERABLE (UG/L AS CD)  <10 0 0 0 0 0	DIS- SOLVED (UG/L AS CD) 0 0 0 0	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) 0 4 0 20 30 10 0 5	MIUM, HEXA- VALENT, DIS- (UG/L AS CR) 0 0 0 0	TOTAL RECOV- PERABLE (UG/L AS CU)  <10 15 6 12 21 6 8	SUS- PENDED RECOV- ERABLE (UG/L AS CU)  <8 13 2 10 7 2 0 5	DIS- SOLVED (UG/L AS CU) 2 2 4 2 14 4 6	DIS- SOLVED (UG/L AS FE) 180 80 320 70 140 80 70 50	TOTAL RECOV-ERABLE (UG/L AS PB)  <100 6 3 11 7 2 10 3	SUS- PENDED RECOV- ERABLE (UG/L AS PB) <99 5 3 11 7 2 9

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA 294530092360000 GRAND LAKE NORTHEAST OF CATFISH POINT CONTROL STRUCTURE, NEAR GRAND CHENIER, LA (CE 96128) -- Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAT	ſE	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCU SUS PEND RECO ERAB (UG/ AS H	ED MERC V- DI LE SOL L (UC	CURY TO	CKEL, DTAL ECOV- RABLE UG/L S NI)	NICKEL SUS- PENDE RECOV ERABL (UG/L AS NI	D NICH		SELE- NIUM, TOTAL (UG/L AS SE)	SELL NIU SU PEN TOT (UG AS	M. S- I DED AL	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VAN DIU DI SOL (UG AS	M, S- VED /L
OCT		,	0		.0	.0	<50	<5	0	0	0		0	0		
NOV		1	• 0											0		
DEC		1	.0		• 0	• 0	7		6	1	0		0			• 0
19. JAN	• • •	0	.0		. 0	. 0	8		6	2	0		0	0		1.8
26, FEB	• • •	0	. 0		. 0	.0	8		8	0	0		0	0		1.0
17.		0	.7		.7	. 0	12	1	2	0	0		0	0		2.0
MAR 17.		0	.0		. 0	.0	6		4	2	1		1	0		1.0
APR 20.		1	.0		.0	.0	4		4	0	0		0	0		
MAY 24.		0	.0		.0	.0	6		6	0	0		0	0		
JUN 21.		0	.2		.2	.0	4		4	0	0		0	0		
JUL 17		3	.0		.0	. 0	10		7	3	0		0	0		
SEP 01		0	.0		• 0	. 0	3		3	0	0		0	0		
13.		0	.0		.0	. 0	4		4	0	0		0	0		
DATE	ZING TOTA RECO ERANG (UGA	C, S AL PE OV- RE BLE ER /L (U	COV- ABLE S	INC, DIS- OLVED UG/L S ZN)	CARBON, URGANIC TOTAL (MG/L AS C)	CYANID TOTAL (MG/L AS CN	PHE	ENOLS	OIL AND GREASE (MG/L)	TO	L CB C	THA- ENES, POLY- CHLOR. TOTAL	ALDRI TOTA (UG/	N, D	HLOR- ANE, OTAL UG/L)	DDD, TOTAL (UG/L)
OCT 26		10	0	10	10	.0	0	6	0		.0	.00	.0	00	.0	.000
NOV 15		20	10	10	10	.0	0	2	0		. 0	.00	. 0	00	.0	.000
DEC 19		20	10	10	9.2	.0	0	2	0		• 0	.00	.0	00	. 0	.000
JAN 26		30	30	0	15	.0	0	5			.0	.00	.0	00	.0	.000
FEB 17		20	0	20	13	. 0	0	2	0		• 0	.00	.0	00	.0	.000
MAR 17		30	30	0	12	• 0	0	1	0		• 0	.00	. 0	00	.0	.000
APR 20		20	10	10	11	.0	0	0	0		. 0	.00	.0	0.0	.0	.000
MAY 24		20	10	10	5.8	.0	0	2	0		. 0	.00	.0	00	.0	.000
JUN 21		20	10	10	10	.0	0	1	0		• 0	.00		00	.0	.000
JUL 17		20	10	10	7.1	.0	0	1	0		.0	.00	. 0	00	.0	.000
01 13		20 10	0 10	20	10	• 0		3 5	0		• 0	.00		00	.0	.000

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

294530092360000 GRAND LAKE NORTHEAST OF CATFISH POINT CONTROL STRUCTURE, NEAR GRAND CHENIERE, LA (CE 96128)--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, IOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN. TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
OCT 26	.000	.000	.00	.000	.000	.000	.00	.000	.000	.000	.00	.00
NOV												
15 DEC	.000	.000	.00	.000	.000	.000	.00	.000	.000	.000	.00	.00
19 JAN	.000	.000	• 0 0	.000	.000	.000	.00	.000	.000	.001	.00	.00
26	.000	.000	•01	.004	.000	.000	.00	.000	.000	.000	.00	.00
FEB 17	.000	.000	.01	.008	.000	.000	.00	.000	.000	.001	.00	.00
17	.000	.000	• 0 0	.003	.000	.000	.00	.000	.000	.001	.00	.00
APR 20	.000	.000	•01	.001	.000	.000	.00	.000	.000	.000	.00	.00
MAY 24	.000	.000	.01	.001	.000	.000	.00	.000	.000	.000	.00	.00
21	.000	.000	•01	.001	.000	.000	.00	.000	.000	.001	.00	.00
JUL 17 SEP	.000	.000	.01	.000	.000	.000	.00	.000	.000	.000	.00	.00
01	.000	.000	.01	.001	.001	.000	.00	.000	.000	.001	.00	.00
13	.000	.000	.00	.001		.000	.00	.000	.000	.000	.00	.00
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION+ TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
ост	PARA- THION, TOTAL (UG/L)	TRI- THION+ TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 26	PARA- THION+ TOTAL (UG/L)	TRI- THION. TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 26 NOV 15	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L) .00	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L) 0.0	TRI- THION (UG/L)	.00	.04	.02	.01	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 2.10	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 26 NOV 15 DEC 19 JAN	PARA- THION+ TOTAL (UG/L)	TRI- THION. TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 26 NOV 15 DEC 19 JAN 26	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L) .00	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L) 0.0	TRI- THION (UG/L)	.00	.04	.02	.01	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 2.10	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17	PARA- THION+ TOTAL (UG/L)	TRI- THION. TOTAL (UG/L) .00 .00	**************************************	.00 .00	0.0 0.0 0.0	TRI- THION (UG/L) .00 .00	.00 .00	.04 .00	.02 .01	.01 .01	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 2.10 12.3	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .177 .000
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17	PARA- THION- TOTAL (UG/L)  .00 .00 .00	TRI- THION- TOTAL (UG/L) .00 .00	THION, TOTAL (UG/L) .00 .00	THÂNE TOTAL (UG/L) .00 .00	0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00	.00 .00 .00	.04 .00 .00	.02 .01 .01	.01 .01 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 2.10 12.3 .000	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .177 .000 .000
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20	PARA- THION, TOTAL (UG/L) .00 .00 .00	TRI- THION- TOTAL (UG/L) .00 .00 .00	THION, TOTAL (UG/L) .00 .00 .00	THÂNE TOTAL (UG/L) .00 .00 .00	0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00	.00 .00 .00 .00	10TAL (UG/L)  .04  .00  .00  .00	.02 .01 .01 .01	.01 .01 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 2.10 12.3 .000 .000	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .177 .000 .000
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24	PARA- THION, TOTAL (UG/L) .00 .00 .00	TRI- THION, TOTAL (UG/L) .00 .00 .00	THION, TOTAL (UG/L) .00 .00 .00 .00	.00 .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L)  .00 .00 .00 .00 .00	.00 .00 .00 .00	10TAL (UG/L)  .04 .00 .00 .00 .00	.02 .01 .01 .01	.01 .01 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 2.10 12.3 .000 .000	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .177 .000 .000 .000
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN 21	PARA- THION, TOTAL (UG/L)  .00 .00 .00 .00 .00 .00	TRI- THION- TOTAL (UG/L) .00 .00 .00 .00	.00 .00 .00 .00 .00 .00	THÂNE TOTAL (UG/L) .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0 0.0	1RI- THION (UG/L) .00 .00 .00 .00	.00 .00 .00 .00 .00	10TAL (UG/L)  .04 .00 .00 .00 .0300	.02 .01 .01 .01 .02 	.01 .01 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 2.10 12.3 .000 .000 .000 2.25 3.63	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .177 .000 .000 .000
OCT 26 NOV 15 DEC 19 JAN 26 FEB 17 MAR 17 APR 20 MAY 24 JUN	PARA- THION, TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00	TRI- THION- TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00	THION, TOTAL (UG/L) .00 .00 .00 .00 .00	THÂNE TOTAL (UG/L) .00 .00 .00 .00 .00	0.0 0.0 0.0 0.0 0.0 0.0 0.0	TRI- THION (UG/L) .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00	10TAL (UG/L)  .04 .00 .00 .00 .0300 .00	.02 .01 .01 .01 .02 	.01 .01 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) 2.10 12.3 .000 .000 .000 2.25 3.63 4.05	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .177 .000 .000 .000 .000

294333092272000 WHITE LAKE (EAST SIDE), 4.8 MILES WEST OF SCHOONER BAYOU, NEAR FORKED ISLAND, LA (CE 70690)

LOCATION.--Lat 29°43'33", long 92°27'20", T.15 S., R.1 W., Vermilion Parish, Hydrologic Unit 08080202, 12.0 mi (19.3 km) southwest of Forked Island.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- January 1978 to September 1978.

 ${\tt REMARKS.--Samples} \ \ {\tt Corps} \ \ {\tt of} \ \ {\tt Engineers} \ \ {\tt and} \ \ {\tt analyzed} \ \ {\tt by} \ \ {\tt Geological} \ \ {\tt Survey.}$ 

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM. FECAL. 0.7 UM-MF (COLS./	HARD- NESS (MG/L AS CACO3)	HARD- NESS: NONCAR- BONATE (MG/L CACO3)
JAN												
26	1030	371	7.3	140	50	12.0	63	1.6	K180	44	45	17
FEB 17	1130	284	7.3	60	75	11.2	33	1.1	K100	K12	34	10
MAR 17	1110	323	7.2	100	220	8.8	80	.1		K22	38	14
APR	1155	337	7.2	120	220	2.2		,	<5		20	
20	1155	331	1.2	120	220	8.2	56	.4	(5	<5	39	16
24 JUN	1030	1040	7.1	80	95	7.5	37	.5	K40	K2	110	90
21	1030	1520	7.3	30	10	7.8	36	1.0	K10	<5	160	130
JUL 17 SEP	1110	2180	8.6	20	10	7.5	44	2.1	K60	<5	230	200
01	1020	2230	6.9	15	40	7.7	28	1.2	K20	<5	210	190
13	1150	1850	6.9	50	15	8.9	24	2.2		<5	170	170
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SOD IUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE * DIS- SOLVED (MG/L AS CL)
JAN												
26 FEB	7.5	6.3	50	68	3.3	4.3	34	0	28	2.7	15	82
17	6.4	4.4	34	66	2.5	2.9	29	0	24	2.3	10	56
17	5.6	5.9	40	67	2.8	4.1	29	0	24	2.9	15	62
20	7.4	5.0	54	73	3.8	4.0	28	0	23	2.8	22	84
MAY 24	16	18	150	73	6.1	7.6	29	0	24	3.7	48	270
JUN 21	20	26	230	75	8.0	11	33	0	27	2.6	62	410
JUL 17 SEP	27	39	340	75	9.8	14	32	1	28	•1	91	600
01	23 20	38 30	330 280	76 76	98	15 12	24 10	0	20	4.8	99 88	620 510

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

MERMENTAU RIVER BASIN

294333092272000 WHITE LAKE (EAST SIDE), 4.8 MILES WEST OF SCHOONER BAYOU, NEAR FORKED ISLAND, LA (CE 70690)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)	NITRO- GEN: NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM; SUS- PENDED RECOV. (UG/L AS BE)
JAN 26	544	<1.0	-20	.05	.25	.54	.25	5	4	1	0	0
FEB 17	178	<1.0	. 25	.07	.32	.43	.19	4	3	1	10	0
MAR 17	300	<1.0	.00	.00	.00	1.5	.32	6	6	0	0	0
APR 20	356	<1.0	.40	.00	.40	.61	.23	4	3	1	0	0
MAY 24	48	<1.0	.81	.00	.81	.75	.10	3	2	1	0	0
JUN 21	44	<1.0	.03	.01	.04	.37	.03	1	1	0	0	0
JUL 17	19	<1.0	.01	.01	.02	1.3	.03	3	3	0	10	0
SEP 01	61	<1.0	.11	,01	.12	.96	.04	1	0	1	0	0
13	17	<1.0	.04	.01	.05	.58	.04	1	1	0	0	0
DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER • SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)
JAN 26	0	0	0	0	20	0	16	12	4	80	16	15
FEB 17	10	0	0	0	20	0	24	10	14	90	7	7
MAR 17	0	0	0	0	20	0	15	7	8	810	10	10
APR 20	0	0	0	0	10	0	20	19	1	210	10	8
MAY 24	0	1	0	1	10	0	8	5	3	20	9	8
JUN 21	0	0	0	0	0	0	7	3	4	20	3	3
JUL 17	10	3	1	2	10	0	5	1	4	20	4	2
SEP 01	0	0	0	2	10	0	12	0	12	30	0	0
13	0	0	0	0	10	0	4	1	.3	10	3	3
DA	LEA DI SOL (UG TE AS	S- REC VED ERA /L (UG	AL PEN COV- REC ABLE ERA	DED MERC COV- DI BBLE SOL	VED ERA	CEL, SI TAL PER COV- REC ABLE ERA	COV- DIS	S- NII LVED TO G/L (U	UM, PEN TAL TOT G/L (UG	M. SELE S- NIUM DED DIS AL SOLV	4. DIU 5- DI /ED SOL /L (UG	JM. IS- VED
JAN					0	10	14			,		1 0
FEB					. 0	18	16	2	1	1		1.0
MAR		0	1.0	1.0	. 0	8	5	3	0	0	0	1.0
APR	•••	0	. 0	• 0	.0	17	15	2	1	0	0	1.0
MAY		2	. 0	. 0	.0		5		0			1.0
JUN		1	• 0	.0	.0	5	5	0	1	1	0	
JUL	•••	0	• 0	.0	.0	2	2	0	0	0	0	
SEP		2	. 0	. 0	• 0	11	9	2	0		0	
	•••	0	.0	.0	.0	7	0	7	0	0	0	
			1 1 41	.1 1	1.000							

<sup>&</sup>lt; Actual value is known to be less than the value shown.

294333092272000 WHITE LAKE (EAST SIDE), 4.8 MILES WEST OF SCHOONER BAYOU, NEAR FORKED ISLAND, LA (CE 70690)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC+ SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC. DIS- SOLVED (UG/L AS ZN)	CARBON+ ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE + TOTAL (UG/L)	DDD+ TOTAL (UG/L)
JAN 26	60	50	10	17	.00	2	0	. 0	.00	.00	.0	.00
FEB 17	30	20	10	15	.00	1	0	. 0	.00	.00	.0	.00
MAR 17	60	50	10	20	.00	0	0	.0	.00	.00	.0	.00
APR 20	50	50	0	18	.00	0	0	. 0	.00	.00	.0	.00
MAY			10	11		2	0	. 0	.00	.00	. 0	.00
24 JUN	30	20			.00						.0	.00
21 JUL	5	0	5	6.5	.00	3	0	.0	.00	.00		
17 SEP	10	0	10	7.6	.00	4	0	. 0	.00	.00	. 0	.00
01	20	20	50	7.3 5.9	.00	3	0	.0	.00	.00	.0	.00
DATE	DDE, TOTAL (UG/L)	DDT, TCTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN* TOTAL (UG/L)	ETHION+ TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION+ TOTAL (UG/L)	METH- OXY- CHLOR+ TOTAL (UG/L)
JAN 26	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
FEB	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
17 MAR												.00
17 APR	.00	• 0 0	• 0 0	•00	•00	.00	• 0 0	.00	.00	.00	.00	
20 MAY	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	
21 JUL	.00	.00	.01	• 0 0	.00	.00	.00	.00	.00	.00	.00	.00
17 SEP	.00	.00	.02	.00	.01	.00	.00	.00	.00	.00	.00	.00
01	.00	.00	•01	.00	.00	.00	.00	.00	.00	.00	.00	.00
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE* TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX. TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JAN 26	.00	.00	•00	.00	0	.00	•00	.00	.00	.00	.000	.000
FEB		.00	.00	.00	0	.00	.00	.01	.00	.00	.420	.000
17 MAR	.00							.01	.00	.00	2.52	.000
17 APR	.00	.00	•00	.00	0	.00	.00					
20 MAY	.00	•00	• 0 0	.00	0	.00	•00	.00	.00	.00	12.5	.000
24	.00	.00	•00	.00	0	.00	.00	.00	.00	.00	4.43	.000
21 JUL	.00	.00	• 0 0	.00	0	.00	.00	.00	.00	.00	10.9	.000
17 SEP	.00	• 0 0	• 0 0	.00	0	.00	• 0 0	.00	.00	.00	28.2	.000
01	.00	.00	•00	.00	0	.00	.00	.02	.00	.00	7.37	.000

## 08012420 MERMENTAU RIVER AT LACASSINE REFUGE, NEAR LOWRY, LA (CE 70600)

LOCATION.--Lat 30°00'10", long 92°46'37", in sec.16, T.12 S., R.4 W., Cameron Parish, Hydrologic Unit 08080202, 1.5 mi (2.4 km) southwest of Lowry.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- January 1978 to September 1978.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA: WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

			WATER QU	ALITY DAT	A. WATER	YEAR OCTO	BER 1977	TO SEPTEM	BER 1978			
DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS; NONCAR- BONATE (MG/L CACO3)
JAN 26	1210	110	6.9	140	90	10.4	38	3.3	1100	440	20	2
FEB												
17 MAR	1220	63	6.8	60	80	10.7	29	1.9	-	K14	15	1
17 APR	1205	247	6.9	120	170	8.2	50	2.0	400	K26	30	14
20	1245	159	6.9	280	210	7.8	38	.8	K100	K18	29	7
24	1115	451	7.2	50	210	6.9	44	1.0	K1600	K14	79	55
JUN 21	1115	174	7.3	60	40	7.0	30	2.0	K320	<5	39	0
JUL 17	1220	191	7.6	70	50	7.2	22	1.4	K11000	K48	41	0
SEP 01	1200	240	7.3	40	25	5.5	23	1.1	230	K20	55	0
13	1300	125	7.0	60	30	7.0	21	3.0	7000	K8	31	0
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACG3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JAN 26	5.0	1.8	11	51	1.1	2.6	22	0	18	4.4	10	15
FEB	3.7	1.5	7.7	49	.9	1.7	17	0	14	4.3	6.1	9.7
17 MAR			29				20	0	16	4.0	11	47
17 APR	4.7	4.5		65	2.3	3.3		0	22	5.4	9.4	30
20 MAY	9.2	3.0	17	48	1.2	3.7	27					
24 JUN	12	12	97	71	4.7	6.4	30	0	25	3.0	33	160
21 JUL	9.9	3.5	18	48	1.3	3.3	50	0	41	4.0	6.8	18
17 SEP	9.2	4.3	21	51	1.4	2.8	57	0	47	2.3	7.1	26
01	13	5.5	25 12	47 42	1.5	4.0	79 42	0	65 34	6.3	6.5	32 18
13	7.5	2.9	1.0	42	• *	4.0				3.00		
DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN; NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)	NITRO- GEN; NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN:AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM; SUS- PENDED RECOV. (UG/L AS BE)
JAN 26	180	<1.0	•26	.05	.31	1.1	.29	3	2	1	0	0
FEB	61	<1.0	•19	.05	.24	1.1	.17	2	1	1	0	0
17 MAR									2	0	0	0
17 APR	144	<1.0	.32	.05	.37	.09	.27	2				
20	166	<1.0	•55	.08	.63	5.8	•27	3	1	2	0	0
24 JUN	94	<1.0	•74	.00	.74	.73	.21	3	2	1	0	0
21 JUL	64	<1.0	.34	.01	.35	.61	.18	2	1	1	5	5
17	23	<1.0	.00	.02	.02	.48	.12	3	1	2	0	0
01 13	22 20	<1.0 <1.0	.07 .05	.01	.08	.56 1.0	.17 .30	5	1	3 4	10	0

# 08012420 MERMENTAU RIVER AT LACASSINE REFUGE, NEAR LOWRY, LA (CE 70600)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER+ TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER+ SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)
JAN 26	0	0	0	0	20	0	190	190	2	70	16	16
FEB 17	0	1	0	1	0	0			30	450	4	0
MAR 17	0	0	0	0	20	0	18	13	5	80	2	2
APR 20	0	0	0	0	10	0	5	1	4	570	10	7
MAY 24	0	1	0	1	10	0	9	6	3	30	10	9
JUN 21	0	0	0	0	0	0	6	3	3	40	3	3
JUL 17	0	1	0	1	0	0	7	3	4	110	7	4
SEP 01	10	0	0	0	0	0	5	1	4	140	0	0
13	0	0	0	0	0	0	4	0	4	140	6	6
DAT	LEAL DIS SOLV (UG,	S- REC VED ERA VL (UG	AL PEN OV- REC BLE ERA	S- DED MERCI OV- DIS BLE SOLV	S- REC VED ERA VL (UG	AL PEN OV- REC BLE ERA	KEL+ JS- NDED NICK COV- DIS ABLE SOL (UG NI) AS	VED TOT	M PEN	M, SELE S- NIUM DED DIS AL SOLV /L (UG/	DIU DI ED SOL	M, S- VED /L
JAN 26		0	.0	.0	.0	7	5	2	1	1	0	1.0
FEB 17		4		1.2	.0	6	6	0	1	1	0	5.0
MAR 17		0	.0	.0	.0	7	6	1	1	1	0	1.0
APR 20		3	.0	.0	.0	2	2	0	0	0	0	1.0
MAY 24		1	.0	.0	.0	8	7	1	1	1	0	1.0
JUN 21		0	• 0	.0	.0	3	3	0	0	0	0	.0
JUL 17.		3	.0	•0	.0	6	4	2	0	0	0	.0
SEP 01		0	.0	.0	.0	Ō	0	0	0	0	0	.6
13.		0	.0	.0	.0	3	3	0	0	0	0	1.6
DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC. SUS- PENDED RECUV- ERABLE (UG/L AS ZN)	ZINC+ DIS- SOLVED (UG/L AS ZN)	CARBON+ ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN+ TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD+ TOTAL (UG/L)
JAN 26	40	40	0	16	.00	4	0	.0	.00	.000	.0	.000
FEB 17			60	11	.00	2	0	.0	.00	.000	.0	.000
MAR 17	30	20	10	14	.00	2	0	.0	.00	.000	.0	.000
APR 20	20	20	0	13	.00	0	0	.0	.00	.000	.0	.000
MAY	40	30	10	14	.00	2		.0	.00	.000	.0	.000
24 JUN 21		0	5	7.3	.00	3	0				44	
JUL	5 10	0	10	8.8	.00	3	0	.0	.00	.000	.0	.000
SEP					.00	2	0	.0	.00	.000	.0	.000
13	0	0	20	10	.00	6	0	.0	.00	.000	.0	.000

MERMENTAU RIVER BASIN

# 08012420 MERMENTAU RIVER AT LACASSINE REFUGE, NEAR LOWRY, LA (CE 70600)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE + TUTAL (UG/L)	DDT, TCTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN; TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION: TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN 26	.000	.000	.02	.006	.000	.000	.00	.000	.000	.001	.00	.00
FEB 17	.000	.000	• 01	.008	.000	.000	.00	.000	.000	.001	.00	.00
MAR 17	.000	.000	• 0 0	.003	.000	.000	.00	.000	.000	.001	.00	.00
APR 20	.000	.001	.02	.003	.000	.000	.00	.000	.000	.000	.00	.00
24 JUN	.000	.000	-01	.002	.000	.001	• 0 0	.000	.000	.000	.00	.00
21 JUL												
17 SEP	.000	.000	• 02	.003	.011	.000	.00	.000	.000	.001	.00	.00
01	.000	.000	.02 .01	.002	.005	.000	• 0 0 • 0 0	.000	.000	.002	.00	.00
DATE	METHYL PARA- THION+ TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION+ TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTC- PLANR- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JAN 26	.01	.00	•00	.00	0.0	.00	.00	.03	.05	.00	.000	.000
FEB 17	.00	.00	.00	.00	0.0	.00	.00	.01	.01	.00	.000	.000
MAR 17	.00	.00	• 0 0	.00	0.0	.00	.00	.01	.00	.00	1.11	.000
APR 20	.00	.00	•00	.00	0.0	.00	.00	.02	.00	.00	1.18	.000
MAY 24	.00	.00	.00	.00	0.0	.00	.00	.03	.00	.00	11.9	.760
JUN 21								.00	.03	.05	10.0	.000
JUL 17	.00	.00	• 0 0	.00	0.0	.00	.00	.04	.01	.02	24.7	.000
SEP 01	.00	.00	.00	.00	0.0	.00	.00	.01	.01	.00	8.20 3.72	.000

295148092510100 MERMENTAU RIVER NORTH OF CATFISH POINT CONTROL STRUCTURE, NEAR GRAND CHENIER, LA (CE 70675)

LOCATION.--Lat 29°51'48", long 92°51'01", T.14 S., R.5 W., Cameron Parish, Hydrologic Unit 08080202, on northwest fender of structure, 9.8 mi (15.8 km) northeast of Grand Cheniere.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 30.5°C July 5, 1977, July 9, 11, Aug. 23, 1978; minimum daily, 4.0°C Jan. 20, 21, 1978.
CHLORIDE: Maximum daily, 12,000 mg/L Oct. 15, 1975; minimum daily, 7.0 mg/L Jan. 23, 1975.

EXTREMES FOR CURRENT YEAR.-- WATER TEMPERATURES: Maximum daily, 30.5°C July 9, 11, Aug. 23; minimum daily, 4.0°C Jan. 20, 21. CHLORIDE: Maximum daily, 11,000 mg/L Apr. 8; minimum daily, 11.0 mg/L Feb. 8.

TEMPERATURE	(DEG.	C)	OF	WATER ,	WATER	YEAR	OCTOBER	1977	10	SEPTEMBER	1978
				01	VCE-DA	LY					

						HOL DALL						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.5	23.0	14.5	13.0	8.0	10.5	19.0	23.5	28.5	29.5	29.0	27.0
2	28.5	22.0	15.5	9.0	7.0	13.5	20.0	21.0	28.5	29.5	29.0	28.0
3	23.0	19.0	17.0	9.0	6.5	10.5	21.0	22.5	27.0	29.5	29.0	28.0
4	18.5	16.5	18.5	8.0	6.5	11.5	21.0	18.5	26.0		29.0	27.5
5	20.0	19.0	20.0	10.0	6.5	9.0	21.5	21.0	28.0	30.0	28.0	26.5
6	22.5	18.5	14.5	12.0	7.0	10.0	22.0	23.0	28.5	29.0	28.0	28.0
7	23.5	19.5	12.0	12.0	6.5	10.5	22.5	24.5	27.5	30.0	28.0	27.5
8	23.0	20.0	14.0	13.0	5.5	12.5	23.5	24.5	27.0	29.0	28.5	26.0
9	23.5	19.0	14.5	7.0	5.5	12.0	23.0	25.0	26.5	30.5	29.0	25.5
10	22.5	15.0	7.5	6.5	6.5	11.0	22.5	26.0	26.0	30.0	28.0	26.0
11	22.5		6.5	7.5	7.0	12.0	20.0	25.0	28.0	30.5	30.0	25.5
12		14.5	8.5	7.5	9.5	13.5	16.5	25.0	28.0	30.0	29.5	26.5
13	16.0	14.0	10.5	8.5	9.5	16.0	16.0	25.0	28.5	30.0	29.5	26,5
14	17.0	14.5	12.0	6.0	8.5	16.0	18.5	23.0	20.0		29.0	27.0
15	17.0	16.0	12.0	5.5	8.0	10.5	21.0	25.5	26.5	29.5	26.5	27.0
16	17.0	27.0	13.0	8.0	8.0	14.0	22.5	23.0	28.0	30.0	27.5	27.5
17	17.0	19.0	14.5	8.0	10.0	10.0	22.5	26.0	29.0	29.5	28.0	28.0
18		18.5	13.0	6.0	8.0	14.0	22.5	26.0	29.0	30.0	28.0	28.0
19	19.0	17.5	14.0	5.0	6.5	11.0	22.5	25.5	20.5	30.0	29.0	29.0
20	20.0	19.0	14.0	4.0	8.0	16.0	20.0	26.0	24.5	29.0	29.0	29.0
21	21.5	21.0	14.0	4.0	6.5	18.0	19.5	25.5	24.0	28.5	28.0	28.0
22	21.5	17.5	8.5		6.5	18.0	21.5	28.0	29.5	27.0	29.0	28.0
23	22.5	17.5	13.0	5.0	9.0	19.0	22.5	27.5	29.5	26.5	30.5	28.0
24	22.0	17.0	11.0	10.0	10.0	19.5	23.0	28.0	29.0	27.0	29.0	24.5
25	22.0	18.0	10.5	8.5	11.0	16.0	23.0	27.5	29.0	28.0	30.0	26.5
26		18.0	10.0	7.0	13.0	16.0	24.0	28.0	29.0	29.0	29.0	25.0
27	21.5	16.0	8.0	8.0	13.5	15.0	20.0	27.5	29.0	28.0	29.0	26.0
28	20.5	18.0	9.0	7.0	14.5		20.5	29.0	29.0	27.0	28.5	25.0
29	22.5	20.5	8.0	6.0		16.5	21.5	28.0	24.0	28.0	27.0	25.0
30	20.0	18.5	8.0	7.5		18.0	24.0	26.0	28.0	29.0	26.0	23.5
31	23.0		11.0	8.0				28.0		28.5	26.5	
MONTH	21.5	18.5	12.0	8.0	8.5	14.0	21.5	25.0	28.0	29.0	28.5	27.0
YEAR	MAX	30.5	MIN	4.0	MEAN	20.0						

MERMENTAU RIVER BASIN

295148092510100 MERMENTAU RIVER NORTH OF CATFISH POINT CONTROL STRUCTURE, NEAR GRAND CHENIER, LA (CE 70675) -- Continued

DISSOLVED CHLORIDE (CL). MG/L. WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	52	99	18	23	22	140	3200	4200	300	320	230
2	66	50	90	18	24	22	380	310	4500	300	310	160
3	42	50	76	20	20	22	1600	3700	6000	300	300	150
	50	46	70	18	25	26	450	5600	10000	320	300	160
5	52	40	47	18	23	29	600	7800	3800	300	320	200
5	52	40	4.	10	23							
	58	49	59	22	22	32	9800	4300	2600	310	300	160
6	58	51	54	23 23	22 18	31	4800	1900	8200	340	300	140
		51	34	22	11	91	11000	3200	1400	340	320	110
8	1700	59	22	18	20	1400	6400	3400	1200	340	280	170
9	940	38	36	18	20	38	2200	800	800	400	260	170
10	200	30	30	10	20	55	2200					
3.3	200	52	35	18	38	440	1800	3400	800	390	290	140
11		56	37	31	23	50	1500	3900	1100	500	280	160
12	85	68	31	28	30	25	2400	700	860	1100	300	210
13	85		23	28	24	110	390	900	740	2200	270	210
14	60	100	26	27	28	78	290	3100	650	1400	260	160
15	90	61	20	21	20	10	- >0	0.00				
	54	59	24	20	20	140	240	1800	530	1200	270	140
16	56	80	17	26	20	42	350	9200	450	690	230	160
17	66		19	21	21	41	2200	4400	500	1300	220	120
18	97	92		19	19	31	740	3900	400	2300	260	160
19	66	94	18	18	18	59	300	9200	400	1200	270	140
20	72	1200	14	10	10	3,	300	2200			6.7	-
21	70	120	12	18	22	78	610	9600	420	850	230	170
21		210	14	24	22	67	1800	6400	500	340	220	120
22	70	190	22	26	18	140	1500	4500	390	630	220	130
23	75	180	15	39	18	490	3000	9400	490	340	230	160
24	85		17	26	20	210	3700	3500	310	480	220	120
25	82	120	11	20	20	210	3.00					
26	60	88	18	31	21	170	740	5600	300	540	210	140
	59	84	20	30	25	100	680	2100	300	440	2200	140
27 28	62	88	18	29	28	600	680	2400	300	400	1800	140
	58	78	26	26		300	700	3800	290	370	1800	140
29			33	41		120	1100	2800	290	420	480	190
30 31	63		18	29		75		5700		340	280	
31	66		10									
MONTH	160	120	34	24	22	160	2100	4200	1800	670	440	160
YEAR	MAX	11000	MIN	11	MEAN	820						

#### 295146092510100 MERMENTAU RIVER SOUTH OF CATFISH POINT CONTROL STRUCTURE, NEAR GRAND CHENIER, LA (CE 70750)

LOCATION.--Lat 29°51'46", long 92°51'01", T.14 S., R.5 W., Cameron Parish, Hydrologic Unit 08080202, on southwest fender structure, 9.8 mi (15.8 km) northeast of Grand Cheniere.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: Maximum daily, 30.5°C July 5, Aug. 9, 1977, July 16, 18, 19, Aug. 23, 1978; minimum daily, 4.0°C Jan. 21,

22, 1978. CHLORIDE: Maximum daily, 12,000 mg/L Oct. 15, 24, Nov. 1, 3, 1975, May 31, 1978; minimum daily, 8.0 mg/L Jan. 17, 21, 23, 1975.

EXTREMES FOR CURRENT YEAR. --

WATER TEMPERATURES: Maximum daily, 30.5°C July 16, 18, 19, Aug. 23; minimum daily 4.0°C Jan. 21, 22. CHLORIDE: Maximum daily, 12,000 mg/L May 31; minimum daily, 11 mg/L Dec. 21, Feb. 8.

TEMPERATURE	(DEG.	C)	OF	WATER,	WATER	YEAR	OCTOBER	1977	TO	SEPTEMBER	1978
	+			01	NCE-DA	ILY					

DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.5	23.0	14.5	13.0	8.0	10.5	19.0	26.0	28.0	29.5	29.0	27.0
2	28.0	22.5	15.5	9.0	7.0	13.5	20.0	24.0	29.0	30.0	29.0	28.0
3	23.0	20.0	17.0	9.0	7.0	10.5	21.0	23.0	27.0	29.5	29.0	28.0
4	18.5	16.5	18.5	8.0	6.5	11.5	21.5	20.0	27.0	30.0	29.0	27.5
5	20.0	19.0	20.0	10.0	6.5	10.0	22.0	21.5	28.0	30.0	28.0	26.5
6	22.0	18.5	14.5	12.0	7.0	11.0	22.0	23.0	29.5	29.0	28.0	28.0
7	23.5	19.5		12.0	6.0	10.5	22.5	24.0	27.5	30.0	28.0	27.5
8	24.5	20.0	14.0	14.0	5.5	12.0	23.0	24.0	27.0	29.0	28.5	26.0
9	23.5	20.0	14.0	7.0	5.5	12.0	23.5		26.5	30.0	29.0	25.5
10	22.5	15.0	7.5	6.5	6.5	10.5	23.0	24.5	26.0	29.5	28.0	26.0
11	22.5	16.5	6.5	7.5	7.0	12.0	21.5	25.0	28.0	30.0	30.0	25.5
12	16.0	15.0	8.5	7.5	9.5	13.0	18.5	26.0	28.0	30.0	29.5	26.5
13	16.0	14.5	10.0	8.5	9.5	16.0	19.0	25.5	28.5	29.5	29.5	26.5
14	16.5	15.0	12.0	6.0	8.5	15.5	19.0	22.5	28.0	30.0	29.0	27.0
15	17.0	16.0	12.0	5.5	6.5	10.5	20.5	25.0	26.5	29.5	26.5	27.0
16	17.0	27.0	13.0	8.0	8.0	14.5	22.5	24.0	28.0	30.5	27.5	27.5
17	17.0	19.0	14.5	8.0	8.0	10.5	22.0	26.0	29.0	29.0	28.0	28.0
18	18.0	18.5	13.0	6.5	8.0	14.5	22.5	26.0	29.5	30.5	28.0	28.0
19	19.0	17.5	14.0	5.0	6.5	10.5	22.5	25.0	28.5	30.5	29.0	29.0
20	20.0	18.5	14.0	4.5	8.0	17.0	25.0		29.5	29.5	29.0	29.0
21	21.5	21.5	10.0	4.0	6.0	18.0	20.5	28.5	29.5	29.0	28.0	28.0
22	21.5	17.5	8.5	4.0	6.5	17.5	21.5	27.0	29.5	27.0	29.0	28.0
23	22.5	17.0	12.0	5.0	9.5	18.0	23.0	28.0	29.5	26.5	30.5	28.0
24	22.0	17.5	12.0	8.5	10.0	19.0	22.5	28.0	29.5	27.0	29.0	24.5
25	22.0	17.0	10.5	8.5	11.0	15.0	22.5	28.0	29.0	28.0	30.0	26.5
26		18.5	10.0	7.0	12.5	15.0	20.0	28.5	29.0	29.0	29.0	25.0
27	21.5	16.5	8.0	8.0	13.5	15.5	21.0	28.0	29.0	28.0	29.0	26.0
28	20.5	18.5	9.0	7.0	14.0	16.0	20.5	28.0	29.0	27.0	28.5	25.0
29	22.5	20.5	8.0	6.0		17.0	22.5	28.5	29.0	28.0	27.0	25.0
30	20.5	18.5	8.0	7.5		18.0	25.0	26.5	28.0	29.0	26.0	23.5
31	23.0		11.0	8.0				26.5			26.5	
MONTH	21.0	18.5	12.0	8.0	8.0	14.0	21.5	25.5	28.5	29.0	28.5	27.0
YEAR	MAX	30.5	MIN	4.0	MEAN	20.0						

MERMENTAU RIVER BASIN

295146092510100 MERMENTAU RIVER SOUTH OF CATFISH POINT CONTROL STRUCTURE, NEAR GRAND CHENIER, LA (CE 70750) -- Continued

DISSOLVED CHLORIDE (CL), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

					(	INCE-DATE	1					
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
,		77	84	18	25	28	970	6800	11000	300	310	230
1		61	81	15	26	24	1200	7500	11000	290	300	180
2		60	80	21	22	24	600	7400	11000	300	290	200
3			66	18	24	26	1400	8200	10000	300	290	180
4		42 140	62	20	23	31	2100	8200	9600	330	300	200
5		140	02	20	23		7.5					
6	71	61	57	22	26	30	6900	8000	9800	330	340	180
7	44	52	52	28	16	32	6600	7800	8200	300	300	150
8	2400	54	31	24	11	1900	2400	8000	1500	340	320	120
9	950	54	22	21	18	1400	900	8800	1400	340	270	180
10	150	47	25	21	20	750	500	9100	850	560	270	180
10	150	41	-5				-					
11	220	59	25	21	40	720	260	9100	750	850	310	150
12	84	56	37	24	27	920	2200	8900	750	1600	290	170
13	85	72	29	21	31	220	4200	9100	920	1400	270	180
14	60	80	33	20	27	520	6600	9000	840	1200	280	190
	65	61	21	23	21	930	6000	8900	580	2000	260	180
15	05	01	21	23		100						0.00
16	64	60	24	21	20	1400	650	8800	560	2300	260	140
17	55	140	17	22	24	1400	3600	1500	500	750	550	150
18	91	70	21	18	22	990	2800	8800	470	2800	240	120
19	60	110	14	21	30	680	4500	9300	410	840	260	120
20	72	3100	14	19	23	640	3100	3300	450	2800	220	130
20	12	3100	- '								225	
21	71	850	11	20	25	2700	3900	8700	290	3300	220	170
22	80	210	19	22	20	1100	3400	9700	400	400	280	120
23	72	1100	32	25	18	890	3100	9300	400	480	250	120
24	93	690	14	44	18	890	7300	9200	390	350	240	140
25	85	140	26	36	20	2800	8200	9900	260	740	250	120
	0										070	1.00
26	60	90	15	35	23	2600	7600	9900	340	490	270	160
27	60	80	17	35	23	2300	7700	10000	320	430	1300	140
28	65	85	23	35	22	2100	4400	10000	300	420	2000	120
29	67	80	41	39		680	5900	10000	300	370	2000	120
30	60		32	34		1300	6500	11000	300	360	680	140
31	67		21	27		1200		12000		340	280	
MONTH	200	270	34	25	23	1000	3800	8600	2800	890	430	160
						1600						
YEAR	MAX	12000	MIN	11	MEAN	1600						

### 294630092533500 MERMENTAU RIVER AT UPPER MUD LAKE, NEAR GRAND CHENIER, LA (CE 70375)

LOCATION.--Lat 29°46'30", long 92°53'35", T.15 S., R.5 W., Cameron Parish, Hydrologic Unit 08080202, at center of Upper Mud Lake, and 4.5 mi (7.2 km) east northeast of Grand Cheniere.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- January 1978 to September 1978.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA: WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
JAN	11/5	157	7.1	1/0	- 0	10.0				24.		
26 FEB	1145	154	7.1	140	80	12.0	40	2.6	K1000	260	24	1
17 MAR	1150	117	7.1	60	90	11.2	34	2.0		K20	19	2
17	1140	7280	7.5	30	340	9.2	560	9.0		40	780	730
20	1205	14100	7.5	40	75	8.6	120	1.8	20	14	1600	1600
24 JUN	1050	32300	8.2	15	35	7.9	390	2.5	<5	<5	3900	3800
21 JUL	1045	4250	7.2	10	40	8.4	98	2.9	K80	K12	370	330
17 SEP	1200	3050	7.6	50	140	8.4	150	3.5	K1600	K40	1200	1100
01	1035 1245	1450 1250	7.4	20 30	65 75	7.2 7.8	40 37	1.2 3.1	K70 1200	K10 <5	150 130	100 77
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SCLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM. DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JAN 26	5.3	2.5	16	56	1.4	2.9	28	0	23	3.6	10	20
FEB 17	4.7	1.8	12	54	1.2	2.4	21	0	17	2.7	7.9	17
MAR 17	55	160	1100	73	17	86	64	0	52	3.2	250	2200
APR 20	180	290	2700	77	29	81	80	0	66	4.0	600	5000
24 JUN	310	770	6200	76	43	250	130	0	107	1.3	250	12000
21 JUL	39	67	600	76	14	28	51	O	42	5.1	160	1100
17 SEP		290	2400	80	30	100	91	0	75	3.7	640	4200
01	17 16	25 22	210 190	74 74	7.6 7.2	10 10	52 65	0	43 53	3.3	58 48	380 340

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

294630092533500 MERMENTAU RIVER AT UPPER MUD LAKE, NEAR GRAND CHENIER, LA (CE 70375) -- Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ FR)	NITRA	TE NIT	EN: RITE NO TAL T G/L (	ITRO- GEN: 2+NO3 OTAL MG/L S N)	NITRO- GEN:AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	TOT	AL	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM: TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
JAN 26	212	<1.0		28	.05	.33	.35	.29		4	3	1	10	10
FEB 17	122	<1.0		28	.07	.35	.61	.23		2	1	1	0	0
MAR 17	3560	<1.0		00	.00	.00	1.1	1.5		20	18	2	0	0
APR 20	10	<1.0		02	.01	.03	6.8	.07		2	1	1	1	0
MAY 24	90	<1.0			.00		.68	• 09		1	1	0	20	20
JUN 21	1260	<1.0		.05	.01	.06	1.5	.47		5	4	1	0	0
JUL 17	1560	75		66	.02	.68	.82	.59		6	5	1	10	0
SEP 01	103	<1.0		00	.01	.01	.55	.08		2	0	2	10	10
13	150	<1.0		07	.03	.10	.80	.17		3	1	2	0	0
DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	PEND RECO ERAB (UG/	DED CAD DV- D BLE SO L (U	MIUM T IS- R LVED E G/L (	HRO- IUM, OTAL ECOV- RABLE UG/L S CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER TOTAL RECOV- ERABLE (UG/L AS CU)	PEN REC ERA (UG	DED OV-	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD + SUS- PENDED RECOV- ERABLE (UG/L AS PB)
JAN 26	0	(		0	0	10	0	12	2	11	1	60	7	7
FEB 17	0			0	0	10	0	27	7	7	20	100	6	6
MAR 17	0	1		0	1	65	0	36	5	30	6	100	47	47
APR 20	1			0	2	10	0		5	0	5	50	2	2
MAY 24	0		)	0	0	20	0		•	6	3	30	4	4
JUN 21	0		1	0	3	20	2	18	3	7	11	30	14	11
JUL 17	10			0	1	10	0	13	3	9	4	70	10	7
SEP 01	0		)	0	0	10	0		5	2	4	20	0	0
13	0		)	0	0	10	0		5	2	3	20	9	9
DA	50 (U	AD. TO IS- RE LVED ER G/L (I	RCURY TAL CCOV- RABLE JG/L 5 HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	REC ERA (UG	AL PEN OV- REG BLE ER	NOED NIC	CKEL. IS- OLVED UG/L S NI)	SELE NIUM TOTA (UG/ AS S	PEN AL TOT VL (UG	M. SELI S- NIU DED DI AL SOL	M, DIU S- DI VED SOU /L (U	JM. [S- LVED G/L
JAN		0	.1	.1	. (		9	7	2		0	0	0	1.0
FEE		0	1.4	1.4	. (		12	0	12		1	1	0	1.0
MAF		0	.0	.0	. (		39	37	2		2	2	0	
APF		0	.0	.0	. (		1	1	0		0	0	0	
MA'		0	.0	.0			8	8	0		0	0	0	
JUI		3	.1	.1			16	4	12		0	0	0	
JU	l L	3	.0	.0			12	10	2		1	1	0	
SE		0	.0	.0			2	2	0		0	0	0	
0	3	0	.0	.0			6	6	0		0	0	U	647.01

294630092533500 MERMENTAU RIVER AT UPPER MUD LAKE, NEAR GRAND CHENIER, LA (CE 70375)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC. SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON. ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE (MG/L)	PCB. TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE+ TOTAL (UG/L)	DDD, TOTAL (UG/L)
JAN 26	30	20	10	15	• 0 0	4	0	.0	.00	.00	.0	.00
FEB 17	50	30	20	14	.00	1	0	.0	.00	.00	.0	.00
MAR			20	75	.00	0	0	.0	.00	.00	.0	.00
17 APR	240	220										
20	30	10	20	10	•00	0	0	• 0	.00	.00	.0	.00
24 JUN	40	10	30	5.2	.00	1	0	.0	.00	.00	.0	.00
21 JUL	60	50	10	28	.00	2	0	.0	.00	.00	.0	.00
17	50	20	30	42	.00	1	0	.0	.00	.00	.0	.00
01 13	20 20	10 20	10	12	.00	3 2		.0	.00	.00	•0	.00
DATE	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION. TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR* TOTAL (UG/L)
JAN 26	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
FEB							.00	.00	.00	.00	.00	.00
17 MAR	.00	.00	•01	.00	.00	.00						
17 APR	.00	.00	• 0 0	.00	.00	.00	•00	.00	.00	.00	.00	•00
20	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
24 JUN	.00	.00	•01	.00	.00	.00	•00	.00	.00	.00	.00	.00
21	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.20	.00	.00	.00	.00	.00	.00	.00	.00	.00
SEP 01	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	• 0 1	.00	•00	.00	.00	.00	.00	.00	.00	.00
DATE	METHYL PARA- THION. TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX. TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JAN 26	.00	.00	•00	.00	0	.00	.00	.00	.02	.00	.000	.000
FEB 17	.00	.00	•00	.00	0	.00	.00	.02	.02	.00	.000	.000
MAR	.00	.00	.00		0	.00	.00					
17 APR				.00								
20 YAM	.00	.00	•00	.00	0	.00	•00	.00	.00	.00	24.6	.000
24 JUN	.00	•00	•00	.00	0	.00	.00	.01	.00	.00	16.7	•000
21	.00	.00	.00	.00	0	.00	.00	.03	.01	.04	31.2	.000
17	.00	.00	.01	.00	0	.00	.00	.00	.00	.01	18.7	.000
01 13	.00	.00	•00	.00	0	.00	.00	.01	.00	.01	15.1	.000

295531092574500 GULF AND INTRACOASTAL WATERWAY AT LAKE MISERE, NEAR HAYES, LA (CE 96131)

LOCATION.--Lat 29°55'31", long 92°57'45", T.13 S., R.5 W., Cameron Parish, Hydrologic Unit 08080202, 12.8 mi (20.6 km) south southwest of Hayes.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- January 1978 to September 1978.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

							DELL APIT	10 SEI IEI	IDEN 1910			
DATE	TIME	SPE- CIFIC CCN- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS: NONCAR- BONATE (MG/L CACO3)
JAN	1 225	210	7									
26 FEB	1225	210	7.0	140	70	10.4	48	2.5	1600	500	29	9
17 MAR	1235	206	7.1	80	80	9.8	40	2.0	500	62	30	9
17	1217	336	7.0	100	170	8.2	56	1.3	460	68	38	13
20	1300	193	7.0	160	230	7.5	50	.8	K160	48	27	6
24 JUN	1125	314	7.2	80	170	7.3	7	1.3	K20	<5	46	19
21	1130	351	7.3	150	75	7.0	36	.6	1500	К2	53	20
17 SEP	1240	366	7.7	60	65	7.1	140	1.7	6000	<5	61	16
01	1230	362	7.3	60	50	7.2	23	.8	K80	K15	57	9
13	1315	359	7.5	40	25	9.5	19	3.3	530	<5	57	15
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SULVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JAN												
26 FEB	6.5	3.1	26	63	2.1	2.9	24	0	20	3.8	12	43
17	6.4	3.3	29	66	2.3	2.7	25	0	21	3.2	9.3	45
17	6.8	5.1	41	68	2.9	3.4	31	0	25	5.0	9.0	62
20	7.0	2.4	20	58	1.7	2.9	25	0	21	4.0	13	32
24 JUN	8.7	5.9	44	65	2.8	4.2	33	0	27	3.3	18	68
21	10	6.7	41	61	2.5	3.9	40	0	33	3.2	23	72
17 SEP	13	6.9	52	63	2.9	3.4	55	0	45	1.8	17	85
01	12 12	6.5	44 48	61 63	2.5	3.8	58 51	0	48 42	4.7	13 15	73 75

 $<sup>\</sup>ensuremath{\mathrm{K}}$  Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

### MERMENTAU RIVER BASIN

295531092574500 GULF AND INTRACOASTAL WATERWAY AT LAKE MISERE, NEAR HAYES, LA (CE 96131) -- Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN; NITRATE TOTAL (MG/L AS N)	GE	N. ITE NO. AL T	ITRO- GEN, 2+NO3 OTAL MG/L S N)	NITRO- GEN+AM- MONIA ORGANIO DIS- (MG/L AS N)	PHO TO	HOS- DRUS, DTAL HG/L	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSEI DIS SOLI (UG)	NIC S- VED /L	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)
JAN 26	190	<1.0	.07		.01	.08	.90	0	.16	2	1		1	0	0
FEB 17	78	<1.0	.19		. 05	.24	1.2		.15	1	0	)	1	0	0
MAR 17	224	<1.0	.30		.03	.33	1.1		.17	2	2	2	0	0	0
APR 20	364	<1.0	. 45		.09	.54	2.1		.19	4	ž	2	2	0	0
MAY 24	34	<1.0	.49		.00	.49	.8	7	.15	3	ž	2	1	0	0
JUN 21	18	<1.0	.44		.03	.47	.7	В	.15	2	1		1	0	0
JUL 17	30	<1.0	• 0 0		.02	.02	1.1		.07	3	ž	2	1	0	0
SEP 01	40	<1.0	.08		.02	.10	.6		.09	3	1		2	0	0
13	12	<1.0	• 0 1		.01	.02	. 8	2	.08	2		L	1	0	0
DATE	BERYL- LIUM- DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADM DI SOL	IUM T S- R VED E /L (	HRO- IUM, OTAL ECOV- RABLE UG/L S CR)	CHRO- MIUM, HEXA- VALENT DIS. (UG/L AS CR	RE EF	PPER, DTAL ECOV- RABLE JG/L S CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPERSOLVE	O SOL	S- VED /L	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDED RECOV- ERABLE (UG/L AS PB)
JAN 26	0	1	(		1	10		0	3	3		)	200	5	5
FEB 17	0	0			0	0		0	22	12	10	)	380	5	5
MAR 17	0	0	0		0	10		0	7	3	4		90	1	1
APR 20	0	0	C		0	0		0	6	1	5	5	50	12	12
MAY 24	0	1	0		1	10		0	7	5	i	2	50	10	9
JUN 21	0	1	1		0	10		0	9	6		3	10	5	5
JUL 17	0	1	1		0	10		0	7	3	4		40	11	9
SEP 01	0	0	0		0	10		0	7	3	4		660	2	2
13	0	0	(	1	0	10		0	4	1		3	60	15	15
DA	SOL (UG	D, TO' S- REC VED ER/	CURY STAL PECOV- REABLE EF	CURY SUS- INDED COV- PABLE IG/L HG)	MERCURY DIS- SOLVED (UG/L AS HG)	REC	AL PI	CKEL + SUS- ENDED ECOV- RABLE UG/L S NI)	(UG	VED TO	LE- SI JM, PE TAL TO	ELE- IUM, 505- ENGED 014L JG/L 5 SE)	SELE- NIUM, DIS- SOLVE (UG/L AS SE	DIU DI ED SOL	M, S- VED
JAN		0	.1	.1	.0		7	4		3	0	0		0	1.0
FEE		0	.9	.9	. 0		5	3		2	0	0		0	4.0
MAF	7	0	. 0	.0	.0		8	7		1	1	1		0	1.0
APF 20	2	0	. 0	.0	.0		11	11		0	0	0		0	.0
		1	. 0	. 0	. 0		4	4		0	0	0		0	. 0
100	1	0	.0	. 0	. 0		5	5		0	0	0		0	.4
	7	2	.1	.1	.0		16	9		7	0	0		0	. 0
SEF	1	0	.0	. 0	.0		0	0		0	0	0		0	.0
	3	0	• 0	. 0	. 0		3	1		2	0	0		0	

< Actual value is known to be less than the value shown.

## 295531092574500 GULF AND INTRACOASTAL WATERWAY AT LAKE MISERE, NEAR HAYES, LA (CE 96131)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON+ URGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD. TOTAL (UG/L)
JAN 26	30	20	10	14	.00	3	0	.0	.00	.00	.0	.00
FEB 17	30	10	20	13	.00	3	0	.0	.00	.00	.0	.00
MAR	20	20	0	14	.00	2	0	.0	.00	.00	.0	.00
17 APR			0				0					
20 MAY	20	20		16	.00	1		.0	.00	.00	.0	.00
24 JUN	20	10	10	14	.00	3	0	.0	.00	.00	.0	.00
21 JUL	10	10	0	9.1	.00	1	. 0	.0	.00	.00	• 0	.00
17 SEP	20	10	10	11	.00	2	0	• 0	.00	.00	.0	.00
01	20 10	0	20 10	9.4	.00	2	0	•0	.00	.00	•0	.00
DATE	DDE, TOTAL (UG/L)	DDT. TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN 26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
FEB 17	.00	.00	•00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAR 17	.00	.00	•00	.00	.00	.00	.00	.00	.00	.00	.00	.00
APR 20	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY												
24 JUN	.00	.00	•01	.00	.00	.00	•00	.00	.00	.00	•00	.00
21	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
17 SEP	.00	.00	•02	.00	.02	.00	•00	.00	.00	.00	.00	.00
13	.00	.00	•00 •01	.00	• 0 0	.00	.00	.00	.00	.00	.00	.00
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- 1HION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JAN 26	.00	.00	.00	.00	0	.00	.00	.00	.00	.00	.000	.000
FEB 17	.00	.00	•00	.00	0	.00	.00	.01	.01	.01	1.84	.000
MAR 17	.00	.00	•00	.00	0	.00	.00	.00	.00	.00	4.06	.000
APR					0		.00	.00	.00	.00	6.63	.000
20 MAY	.00	.00	•00	.00		.00						
24 JUN	.00	.00	•00	.00	0	.00	.00	.00	.00	.00	9.09	.000
21	•00	.00	• 0 0	•00	0	.00	•00	.03	.02	.07	4.07	.000
17 SEP	.00	.00	.01	.00	0	.00	.00	.02	.00	.03	26.1	.630
01	.00	.00	•00	.00	0	.00	.00	.00	.00	.00	5.89 4.81	.000

#### 295600093053000 INTRACOASTAL WATERWAY AT GIBBSTOWN, LA (CE 76873)

LOCATION.--Lat 29°56'00", long 93°05'30", T.13 S., R.6 W., Cameron Parish, Hydrologic Unit 08080202, at La. Highway 27 crossing at Gibbstown and at mile 220.0 (354.0 km).

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

REMARKS. -- Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 32.0°C Aug. 17, 18, 1978; minimum daily, 5.0°C Jan. 21, 1978.
CHLORIDE: Maximum daily, 1,000 mg/L June 21, 1976; minimum daily, 14 mg/L Jan. 14, 1975.

EXTREMES FOR CURRENT YEAR.-WATER TEMPERATURES: Maximum daily, 32.0°C Aug. 17, 18; minimum daily, 5.0°C Jan. 21.
CHLORIDE: Maximum daily, 210 mg/L May 25; minimum daily, 18 mg/L Dec. 2.

TEMPERATURE	(DEG.	C)	OF	WATER,	WATER	YEAR	OCTOBER	1977	TO	SEPTEMBER	1978
				01	VCF-DA	ILY					

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.0	26.0			10.0	10.0	24.0	19.0	27.0	30.0	30.0	29.0
2	25.5	20.5			10.0	10.0	23.5	20.0	28.0	30.0	30.0	28.0
3	21.0	21.0			11.0		25.0	20.0	28.0	31.0	30.0	28.5
4	20.0	21.0	20.0		10.0	8.0	22.0	16.0	27.0	31.0	30.0	28.0
5	21.0	21.0	20.5		12.0	8.0	23.5	21.0	20.0	30.0	31.0	28.5
6	24.5	20.0	24.5		10.0	10.5	24.0	21.0	27.5	28.0	31.5	29.5
7	24.5	19.0	28.5		8.0	12.0	25.0	21.0	27.0	28.5	31.0	29.5
8	24.5	19.5			9.0	10.0	25.5	19.0	27.0	28.0	31.5	28.5
9	24.0	21.0	26.5		10.0	10.0	24.5	19.5	28.0	28.5	31.5	28.5
10	24.0	19.5			20.0	19.0	25.0		27.5	29.0	31.0	29.0
11	24.5	19.5	20.0	8.0	19.0	19.0	10.0	26.0	20.0	29.0	30.5	29.0
12	23.0	28.5	20.5	10.0	17.0	19.0	20.0	26.0	27.0	29.5	30.5	28.0
13	23.0	19.5		10.0	12.0		25.0	26.0	25.0	29.5	31.0	28.5
14	23.0	22.0	27.5	10.5			25.0	27.0	20.5	31.0	31.0	29.0
15	23.0	22.0	21.0	10.5	11.0		25.0	27.5	20.0	29.5	31.0	28.5
16	23.0	22.0	21.0	10.0	12.0		26.0	27.5	25.0	28.0	31.5	30.0
17	23.5	22.0	20.0	9.0	11.5		26.5	20.5	29.5		32.0	30.0
18	23.0	22.5	16.0	7.0	11.5		24.0	20.5	28.0	29.5	32.0	30.5
19	23.0	22.0	17.5	10.0	12.0		20.0	20.0	29.0	30.0	31.0	29.0
20	23.0	22.0	15.0	11.0	11.0		20.0	21.5	28.5	28.0	30.5	29.5
21	23.0	22.0	14.5	5.0	15.0		25.5	20.0	24.0	29.5	26.0	20.5
22	23.0	21.5	11.5	9.0	15.5		26.0	21.0	29.0	29.5	27.0	20.5
23	23.0	22.0	15.0	10.5	16.0		26.5	20.5	28.5	29.5	28.0	20.0
24	23.0	23.5	14.5	10.0	17.0		20.0	24.0	28.0	29.0	27.5	20.5
25	23.0	22.0	12.0	9.0	17.0		20.5	23.5	29.5	29.0	27.5	
26	23.5	23.0	11.5	9.0	16.0			24.0	30.0	29.5	27.0	
27	23.5	22.0	12.5	10.0	16.5		19.0	23.5	29.0	27.5	27.5	
28	23.5	22.5		10.0	18.0		20.0	24.0	30.0	30.0	26.5	
29	25.5	21.5	12.0	10.0			20.5	25.0	30.0	30.0	25.0	
30	25.0	19.0					25.0	25.0	29.0	30.0	26.0	
31	25.5									29.0	25.0	
MONTH	23.5	21.5			13.5		23.0	22.5	27.5	29.5	29.5	27.5
YEAR	MAX	32.0	MIN	5.0	MEAN	22.5						

## 295600093053000 INTRACOASTAL WATERWAY AT GIBBSTOWN, LA (CE 76873)--Continued

DISSOLVED CHLORIDE (CL), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	100	23	54	40	63	78	55	160	68	70	70
2	51	130	18	53	38	66	96	60	150	66	70	65
3	55	110	35	74	32		91	60	150	65	75	65
4	56	120	40	87	38	63	90	50	150	65	75	72
5	58	130	29	69	34	60	80	88	160	64	65	65
3	30	150	6,	0,	34	00	00	00	100	0.1	03	03
6	56	130	28	66	36	61	88	62	150	68	65	62
7	60	110	46	66	40	65	89	65	150	68	65	62
8	69	140	23	68	42	55	72	70	40	65	60	52
9	81	120	48	69	40	59	78	75	150	66	70	50
10	60	100	24	71	40	59	80		150	66	65	50
11	54	100	34	70	38	60	82	170	95	65	72	50
12	61	110	90	66		58	78	160	150	66	72	60
13	55	88	50	65	42		87	160	150	71	98	65
14	65	92	46	55	42		76	170	65	66	98	60
15	65	120	46	64	54		90	160	50	69	90	60
15	05	120	40	04	54	7	90	160	50	09	90	00
16	66	85	47	55	53		88	170	55	100	95	58
17	67	80	43	65	54		60	92	59	96	95	60
18	66	95	40	61	50		51	82	60	92	95	38
19	66	80	39	64	66		58	82	51	96	90	40
20	66	86	38	68	53		80	84	50	96	90	85
21	66	88	39	74	51		85	82	50	92	100	70
22	63	82	59	64	54		47	84	50	92	100	72
23	62		52	62					38		95	
		76			55		45	77		98		68
24	68	78	64	82	61		88	200	50	91	100	70
25	64	90	63	85	56		79	210	44	100	100	
26	64	76	61	56	56		70	190	44	110	100	
27	69	88	62	50	58		84	180	43	98	100	
28	76	88	64	34	56		50	180	46	62	100	
29	91	75	77	28			60	200	45	62	100	
30	62	70		25			55	180	44	68	100	
31	130			44						70	110	
MONTH	66	98	46	62	47		75	120	88	78	86	61
YEAR	MAX	210	MIN	18	MEAN	75						

## 295040093204000 CALCASIEU PASS AT ST. JOHN ISLAND, NEAR CAMERON, LA (CE 73649)

LOCATION.--Lat 29°50'40", long 93°20"40", T.14 S., R.10 W., Calcasieu Parish, Hydrologic Unit 08080206, 2.1 mi (3.4 km) northwest of Cameron.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1974 to current year.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey.

WATER GUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM; TOTAL; IMMED. (COLS. PER 100 ML)	COLI- FURM, FECAL, 0.7 UM-MF (COLS./	HARD- NESS (MG/L AS CACO3)	HARD- NESS+ NONCAR- BONATE (MG/L CACO3)
26	1105	26100	8.0	5	3	7.9	380	2.2			3100	3100
NOV 15	1005	39500	8.1	O	20	8.9	190	1.6	<5	<5	4900	4800
19 JAN	1010	12700	7.6	30	20	8.1	170	.8	120	K15	1300	1300
26 FEB	1245	9450	7.2	30	35	10.4	98	2.7	4000	460	950	920
17	1300	11800	7.5	30	25	11.4	40	2.3	К8	K2	1300	1300
17	1240	34200	8.0	10	45	9.0	140	2.0	K56	К6	4000	3900
APR 20	1315	25500	8.0	10	8	9.1	89	2.4	K50	<5	3000	2900
24 JUN	1145	34100	8.3	5	25	8.3	420	2.6	K72	K4	4600	4500
21 JUL	1145	24800	8.0	10	2	7.5	340	2.8	4200	110	3700	3600
17 SEP	1300	35900	8.1	5	10	7.3	470	3.8	1100	K120	4200	4100
01	1245	26400	7.7	5	10	7.5	190	2.5	230	K10	2800	2700
13	1335	24800	7.9	10	20	8.0	910	3.5	5600	K16	2800	2700
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	PCTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 26	200	640					50	0	41	.8	1100	8700
NOV 15	160	1100				2.	145	0	119	1.8	2100	16000
DEC 19	91	270	2300	78	27	89	59	0	48	2.4	27	4000
JAN 26	66	190	1500	76	21	61	42	0	34	4.2	380	2800
FEB 17	85	260	2100	77	26	85	49	0	40	2.5	570	3800
17	230	820	6300	76	44	380	110	0	90	1.8	1400	12000
20	180	610	4900	78	39	60	97	0	80	1.6	1300	8700
24 JUN	290	940	7200	76	46	250	129	0	106	1.0	1600	13000
21	190	790	4500	71	32	210	111	0	91	1.8	1200	8900
17 SEP	250	870	7400	78	50	300	118	0	97	1.5	1700	13000
01	190	570	5200	79	42	200	108	0	89	3.4	1200	9200
13	200	550	5100	79	42	190	116	0	95	2.3	1300	9100

K Results based on colony count outside the acceptable range (non-ideal colony count).

<sup>&</sup>lt; Actual value is known to be less than the value shown.

CALCASIEU RIVER BASIN
295040093204000 CALCASIEU PASS AT ST. JOHN ISLAND, NEAR CAMERON, LA (CE 73649)--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS. RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	SETTLE ABLE MATTE (ML/L/ HR)	R TO	ITRO- GEN, TRATE OTAL MG/L S N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)	GEN MON ORG DI		PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	PEI TO	ENIC US- A NDED TAL G/L AS)	RSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	LIUM, SUS- PENDED RECOV (UG/L	
OCT 26	22	<1.	. 0	•02	.01	.03		.54	.06	0		0	0	0		0
NOV				• 07	.01	.08		.22	.11	2		0	2	10		0
15 DEC	81	<1.								1		0	1	0		0
19 JAN	65	<1		.25	.01	.26		.66	.07							Ä
26 FEB	88	<1	. 0	•15	.01	.16		.65	.10	1		1	0	10		0 1
17 MAR	48	<1	. 0	.23	.01	.24		1.7	.06	0		0	0	0		0
17	77	<1	. 0	• 04	.01	.05	i	.09	.12	1		1	0	0		0
APR 20	2	<1	. 0	•13	.03	.16		.69	.03	2		2	0	10		0
MAY 24	53	<1	. 0	.04	.01	.05		.46	.06	1		1	0	5	è	0
21	41	<1.	. 0	.30	.01	.31		.48	.07	1		0	1	20		0
JUL 17	33	<1	. 0	•00	.01	.01		.54	.07	2		0	2	20	in the second	0
SEP	25	<1	0	.01	.05	.06	5	.69	.07	2		0	2	10		0
13	35	<1		.14	.07			.89	.10	2		1	1	10		10
DAT	BER LIU DIS SOL (UG	M, T - F VED E /L (	DMIUM OTAL ECOV- RABLE UG/L IS CD)	CADMI SUS PEND RECO ERAB (UG/ AS C	ED CADM V- DI LE SOL	MI MIUM TO IS- RE LVED ER G/L (U	RO- UM, TAL COV- ABLE G/L CR)	CHRO- MIUMA HEXA- VALENT DISA (UG/L AS CR	COPPI TOT. RECI	ER, SU AL PE OV- RE BLE ER /L (U	PER, S- NDED COV- ABLE G/L CU)	COPPER DIS- SOLVE (UG/L AS CU	D IS D SOLV (UG/	TO RED ED ER	AD, TAL COV- ABLE G/L PB)	
0CT 26	Zer -	0	20		19	1	8		0	20	16		4	40		
NOV 15		10	1		0	1	20		0	9	8			40	5	
DEC		0	1		0	1	0		0	10	4			40	2	
JAN									0					60		
FEB		0	1		0	1	20			6	4				1	
17.	• • •	0	1		0	1	0		0			-	-	40	2	
17.	• • •	0	2		0	2	10		0	5	4		1	50	8	
20. MAY	•••	10	4		0	4	20		0	3	0		3	40	3	
24.	• • •	5	0		0	0	15		0	5	3		2	10	3	
JUN 21,		20	Ü		0	0	20		0	8	5		3	0	4	
JUL 17. SEP		20	1		0	1	20		0	5	2		3	40	6	
01.		10	1		1	0	10		0	5	2			20	0	
13.		0	1		1	0	10		0	4	2		2	70	2	

<sup>&</sup>lt; Actual value is known to be less than the value shown.

CALCASIEU RIVER BASIN

# 295040093204000 CALCASIEU PASS AT ST. JOHN ISLAND, NEAR CAMERON, LA (CE 73649)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAT	LEAD SUS PEND RECO ERAB (UG/ E AS P	ED LEAD V- DIS LE SOLV	FED ERAL	AL PENI DV- RECO BLE ERAI /L (UG.	S- DED MERC DV- DI BLE SOL /L (UG	S- REC VED ERA /L (UG	AL OV- BLE /L	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL DIS- SOLVE (UG/L AS NI	D TOTA	PEN L TOT	M, SEL S- NIU DED DI AL SOL /L (UG	M, S- VED /L
OCT 26.		_	1	.0	.0	.0				1	0	0	0
NOV 15.		3	2	.0	.0	.0	7	7		0	2 .	0	2
DEC 19.		2	0	.0	.0	.0	4	2		2	0	0	0
JAN							5	5		0	0	0	0
26. FEB	••	1	0	•1	•1	• 0							
MAR	••	2	0	.9	.9	.0	5	5		0	0	0	0
17.	••	4	4	• 0	.0	.0	1	0		1	0	0	0
20.		3	0	.0	.0	.0	0	0		0	0	0	0
MAY 24.		3	0	.1	.1	.0	2	2		0	0	0	0
JUN 21.		4	0	.0	.0	.0	4	4		0	0	0	0
JUL 17.		4	2	.0	.0	.0	5	3		2	0	0	0
SEP 01.		0	0	.0	.0	.0	0	0		0	1	1	0
13.	::	2	Ö	.0	.0	.0	5	5		0	1	0	1
DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC+ SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	GR	EASE T	PCB.	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)
0CT 26	40	0	40	5.8	• 0 0	2		1	.0	.00	.00	.0	.00
NOV 15	50	0	50	4.8	.00	2		0	.0	.00	.00	.0	.00
DEC 19	20	0	20	7.0	.00	0		0	.0	.00	.00	.0	.00
JAN 26	30	20	10	7.9	.00	4		0	.0	.00	.00	.0	.00
FEB 17	20	0	20	6.7	.00	2		0	.0	.00	.00	.0	.00
MAR 17	40	20	20	4.8	.00	0		0	.0	.00	.00	.0	.00
APR 20	50	10	40	4.4	.00	0		0	.0	.00	.00	.0	.00
MAY 24	40	0	40	3.6	.00	1		0	.0	.00	.00	.0	.00
JUN	40	0	40	4.4	.00			0	.0	.00	.00	.0	.00
JUL				5.4	.00	3		0	.0	.00	.00	.0	
SEP	70	10	60								.00		.00
01	40 30	10	40 20	8.3	.00	1		0	.0	.00	.00	.0	.00

### CALCASIEU RIVER BASIN

## 295040093204000 CALCASIEU PASS AT ST. JOHN ISLAND, NEAR CAMERON, LA (CE 73649)--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAT	DDE + TOTAL E (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
OCT 26.	00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NOV												
DEC	00	.00	• 0 0	.00	.00	.00	.00	.00	.00	.00	.00	.00
19. JAN	00	.00	• 0 0	.00	• 0 0	.00	.00	.00	.00	.00	.00	.00
26.	00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
FEB 17. MAR	00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17.	00	.00	• 0 0	.00	.00	.00	.00	.00	.00	.00	.00	.00
20.	00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY 24.	00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUN 21.	00	.00	• 01	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUL 17.	00	• 0 0	• 02	.00	• 0 0	.00	• 0 0	.00	.00	.00	.00	.00
SEP 01.	00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
13.	00	.00	• 0 1	.00		.00	.00	.00	.00	.00	.00	.00
DATE	METHYL PARA- THION, TOTAL E (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	MIREX+ TOTAL (UG/L)	2+4-D+ TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE + TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 26. NOV	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE + TOTAL (UG/L)	TRI-	TOTAL	TOTAL	TOTAL (UG/L)	TOTAL	PHYTO- PLANK- TON CHROMO FLUOROM	PHYTO- PLANK- TON CHROMO FLUOROM
OCT 26.	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE + TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 26. NOV 15. DEC 19.	PARA- THION. TOTAL E (UG/L)	TRI- THION, TOTAL (UG/L)	THION, TOTAL (UG/L)	THANE TOTAL (UG/L)	APHENE + TOTAL (UG/L)	TRI- THION (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 26. NOV 15. DEC 19. JAN 26.	PARA- THION- TOTAL E (UG/L) 	TRI- THION, TOTAL (UG/L)	THION+ TOTAL (UG/L) .00	THANE TOTAL (UG/L)	APHENE, TOTAL (UG/L)	TRI- THION (UG/L)	.00	.02	.01	.01	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .475	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT 26. NOV 15. DEC 19. JAN 26. FEB	PARA- THION- TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	THION+ TOTAL (UG/L) .00 .00	.00 .00	APHENE, TOTAL (UG/L) 0 0	TRI- THION (UG/L) .00 .00	.00 .00	.02 .00	.01 .00	.01 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .475 6.20	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .033 .000
OCT 26. NOV 15. DEC 19. JAN 26. FEB 17. MAR 17.	PARA— THION- TOTAL (UG/L) 000000	TRI- THION: TOTAL (UG/L) .00 .00	THION, TOTAL (UG/L) .00 .00	THANE TOTAL (UG/L) .00 .00	APHENE, TOTAL (UG/L) 0 0	TRI- THION (UG/L) .00 .00	.00 .00 .00	.02 .00 .00	.01 .00 .01	.01 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .475 6.20 1.83	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .033 .000
OCT 26. NOV 15. DEC 19. JAN 26. FEB 17. MAR 17. APR 20.	PARA- THION- TOTAL E (UG/L)	TRI- THION, TOTAL (UG/L) .00 .00	.00 .00 .00 .00	THANE TOTAL (UG/L) .00 .00 .00	APHENE, TOTAL (UG/L) 0 0 0	TRI- THION (UG/L) .00 .00	.00 .00 .00 .00	.02 .00 .00 .00	.01 .00 .01 .00	.01 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .475 6.20 1.83 .000 4.22	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .033 .000 .000
OCT 26. NOV 15. DEC 19. JAN 26. FEB 17. MAR 17. APR 20. MAY	PARA— THION- TOTAL (UG/L) 0000000000	TRI- THION, TOTAL (UG/L) .00 .00 .00	THION, TOTAL (UG/L) .00 .00 .00 .00	THANE TOTAL (UG/L) .00 .00 .00 .00	APHENE, TOTAL (UG/L) 0 0 0	TRI- THION (UG/L)  .00 .00 .00 .00 .00	.00 .00 .00 .00	.02 .00 .00 .00 .00	.01 .00 .01 .00 .01	.01 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .475 6.20 1.83 .000 4.22 5.37	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .033 .000 .000 .000
OCT 26. NOV 15. DEC 19. JAN 26. FEB 17. MAR 17. APR 20. MAY 24. JUN 21.	PARA- THION- TOTAL (UG/L) 000000000000	TRI- THION, TOTAL (UG/L) .00 .00 .00 .00	THION, TOTAL (UG/L) .00 .00 .00 .00	THANE TOTAL (UG/L) .00 .00 .00 .00 .00	APHENE, TOTAL (UG/L) 0 0 0 0	TRI- THION (UG/L) .00 .00 .00 .00	.00 .00 .00 .00 .00	.02 .00 .00 .00 .01	.01 .00 .01 .00 .01 .00	.01 .00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .475 6.20 1.83 .000 4.22 5.37	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .033 .000 .000 .000
OCT 26. NOV 15. DEC 19. JAN 26. FEB 17. MAR 20. MAY 24. JUN 21. JUN 21.	PARA- THION- TOTAL E (UG/L) 000000000000	TRI- THION, TOTAL (UG/L) .00 .00 .00 .00	.00 .00 .00 .00 .00 .00	THANE TOTAL (UG/L) .00 .00 .00 .00 .00	APHENE, TOTAL (UG/L) 0 0 0 0 0	TRI- THION (UG/L) .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00	10TAL (UG/L)  .02 .00 .00 .00 .01 .01 .00 .01	.01 .00 .01 .00 .01 .00 .01	.01 .00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .475 6.20 1.83 .000 4.22 5.37 15.5 25.2	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .033 .000 .000 .000 .000
OCT 26. NOV 15. DEC 19. Z6. FEB 17. APR 20. MAY 24. JUN 21.	PARA- THION- TOTAL (UG/L) 00000000000000	TRI- THION, TOTAL (UG/L) .00 .00 .00 .00 .00	THION, TOTAL (UG/L) .00 .00 .00 .00 .00	THANE TOTAL (UG/L)  .00 .00 .00 .00 .00 .00 .00 .00	APHENE, TOTAL (UG/L) 0 0 0 0	TRI- THION (UG/L)  .00 .00 .00 .00 .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00 .00	.02 .00 .00 .00 .01 .01 .00	.01 .00 .01 .00 .01 .00 .01 .00	.01 .00 .00 .00 .00 .00	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .475 6.20 1.83 .000 4.22 5.37 15.5 25.2	PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) .033 .000 .000 .000 .000

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1978

			Dunings	Measured	Measurements		
Stream	Tributary to	Location	Drainage area (mi²)	previously (water years)	Date	Discharge (ft <sup>3</sup> /s)	
		MISSISSIPPI RIVER MAIN STEM					
07374525 Mississippi River	Gulf of Mexico	Lat 29°51'25", long 89°58'40", Plaquemines Parish, 0.4 mi upstream from Belle Chasse ferry crossing at Belle Chasse and at river mile 76.4.	*1,129,930	1976	6- 8-78 6-29-78 8-17-78 9-12-78	746,000 405,000 291,000 249,000	

<sup>\*</sup> Arbitrarily determined.

### ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

### MISSISSIPPI RIVER DELTA

## 292923090495300 UNNAMED CANAL NEAR THERIOT, LA

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	DU AN	FIC N- CT- CE CRO-		TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	SOL	SEN. IS-	XYGEN EMAND, BIO- CHEM- ICAL, DAY MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	SOLVED (MG/L
MAY 24	0800						_		6.9	6.5			
JUL	0800		776	6.7	31.0	60		3	2.0	1.8	90	36	22
06 AUG											155		
08	1030		662	6.4	27.5	100		0	6.9		82	21	19
DATE	MAGNE SIUM DIS- SOLVE (MG/L AS MG	D SOL	VED G/L SOD		SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR BONA (MG	R- L:	ALKA- INITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SU4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
MAY	_								127	-		2.	22
24 JUL			20	-4					0	53		200	
06 AUG	8.		20	74	5.5	2.5	65				5.2		•1
08	8.	3	92	69	4.4	5.6	7	4	0	61	3.7	160	.1
D		ILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SUM O CONST TUENT DIS SOLV	F SOLI I- DI S, SOL (TO PE	S- SET VED A NS MA R (ML	TLE- BLE N TTER	NITRO- GEN, ITRATE TOTAL (MG/L AS N)	NITRO GEN NITRI TOTAL (MG/I AS N	GE TE NO24 TO1	NOS AMI	GEN• MONIA OR DTAL T MG/L (	ITRO- GEN+ GANIC OTAL MG/L S N)
	Y 4							.02		01	.03	.64	2.1
JUL		5.8	433			.59		.00		01	.01	.13	1.4
AUG	G										.28	.18	1.6
08	8	6.4	372	3	332	•51	<1.0			-	.20	•10	1.0
ים	G M C	NITRO- EN,AM- ONIA + RGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITR GEN TOTA (MG/ AS NO	PHOR L TOT L (MG	US D AL SO /L (U	ON, IS- DLVED	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	CARBOI ORGAN TOTAI (MG/I AS C	IC L 2,4 L TOI	TAL TO	DTAL T	LVEX, OTAL UG/L)
	4	2.7	2.7	12					19		.00	.00	.00
JUI	L 6	1.5	1.5	6.	.7	.11	360	210	16		.00	.00	.00
AUG		1.8	2.1	9.		.16	390	330	22		.82	.00	.01
0.							-				15.74	3.75	- 515

<sup>&</sup>lt; Actual value is known to be less than the value shown.

#### ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

#### DREDGING OPERATIONS STUDY

The following water-quality data were collected in cooperation with the Corps of Engineers, before dredging operations in Calcasieu River, Bayou Black, Bayou LaCarpe, Bayou Grand Caillou, Baptiste Collette Bayou, and Tiger Pass.

300658093200400 CALCASIEU RIVER AT DEVILS ELBOW 4.7 MILES SOUTHEAST OF CARYLSS, LA

#### WATER QUALITY DATA: WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

			. L do	ALTII DAI	AT WAIL	LAN	OCTOBER	1911	IU SEFIE	MBCK 19	0		
DATE	TIME	C CI	PE- IFIC ON- UCT- NCE ICRO- HOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	BI	DE C R- I D- ( Y LE	YGEN MAND, HEM- CAL HIGH VEL) G/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR BONATE (MG/L CACO3	- D:	CIUM IS- OLVED MG/L S CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
04	1035	5 .	21000	7.6	1		5	92	2500	240	0	170	500
UATE	SODIUM DIS- SOLVED (MG/L AS NA	SUL	DIUM RCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICA	TE C. /L BOI	AR- NATE MG/L CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFAT DIS- SOLVE (MG/L AS SO4	E RI	HLO- IDE, IS- DLVED	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
0CT 04	3900		76	34	150		109	0	89	1000	69	900	22
DA	S T RE AT D	USP. OTAL, SIDUE 110 EG. C	SOLIC VOLA TILE SUS- PENDE (MG,	A- SETT B AB MAT ED (ML/	LE- G LE NIT TER TO L/ (M	TRO- EN, RATE TAL G/L N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITE GE! NO2+! TOTE (MG. AS !	NO G NO AMM AL TO /L (M	TRO- (EN; AMI ONIA I TAL SO	ITRO- GEM. MONIA DIS- DLVED MG/L S N)	NITE GEN AMMON DIS SOLV (MG,	NIA S- VED /L
0CT 04	•••	22		11 <	1.0	.05	.11		.16	.80	.80	1.	.0
DA	CR T	ITRO- GEN, GANIC OTAL MG/L S N)	NITE GEN ORGAN DIS SOLV (MG/ AS N	NO GENO NIC MONI S- ORGAN VED TOTA 'L (MG.	AM- GEN A + + NIC SU AL TO /L (M	ORG.	NITRO- GEN + AM- MONIA + DRGANIC DIS • (MG/L AS N)	NITE GEN TOTA (MG/ AS N	AL TO	TAL TO	HOS- DRUS, DTAL MG/L S P)	PHOS PHORU DIS- SOLV (MG/ AS F	JS, - /ED /L
OCT 04		.60		60 1	.4	.00	1.4	1.	,6	7.1	.06		.04

<sup>&</sup>lt; Actual value is known to be less than the value shown.

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

## DREDGING OPERATIONS STUDY -- Continued

300658093200400 CALCASIEU RIVER AT DEVILS ELBOW 4.7 MILES SOUTHEAST OF CARYLSS, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ARSE TOT (UG AS	AL	PEN TOT	ENIC JS- NDED TAL G/L AS)	SOL	S- VED	BER LIU TOT REC ERA (UG AS	M, AL OV- BLE /L	(U	4 •	DIS	VED	CADM TOT REC ERA (UG AS	AL OV- BLE /L	PENI REC ERAI (UG AS	DED OV- BLE /L	CADM DI SOL (UG AS	yED /L	CHRI MIUI TOT. RECC ERAI (UG.	M, AL OV- BLE /L	CHR MIU SU PEN REC (UG AS	M, S- DED OV.	CHR MIU DIS SOL (UG AS	M, VED
OCT 04		2		2		0		10		0		10		10		10		0		20		10		10
DATE	(00	M, A- NT, S.	REI ER	PER, TAL COV- ABLE G/L CU)	ER/		COPP DIS SOL (UG AS	VED /L	501 (U	ON, IS- LVED G/L FE)	ERA (UG	AL OV-	LEA SU PEN REC ERA (UG AS	S- DED OV- BLE /L	LEA DI SOL (UG AS	S- VED /L	MAN NES TOT REC ERA (UG	E P AL OV- BLE /L	MAN NES SU PEN REC (UG AS	E. S- DED OV.	MAN NES DI SOL (UG AS	E; S= VED /L	ERA (UG	OV-
OCT 04		0		20		15		5		20		100		100		0		590		160		430		.0
DA	<b>ATE</b>	MERC SU PEN REC ERA (UG AS	S- DED OV- BLE /L	SOL	S- VED	ERA (UG	EL, AL OV- BLE	REC	S- DED OV- BLE	NICK DIS SOL (UG AS	- VED /L	SEL NIU TOT (UG	M.	SEL NIU SU PEN TOT (UG AS	M, S- DED AL /L	SELE NIUM DIS SOLV (UG,	/ FD	ZING TOTA RECO ERAS (UG/ AS A	V- SLE	ZINC SUS PEND RECO ERAB (UG/ AS Z	ED V- LE L	ZIN DI SOL (UG AS	S- VED /L	
001	·		.0		.0		100		98		2		0		0		0		20		0		20	
		MAI	ATE R 9	TO (M	NIDE TAL G/L CN)		NOLS G/L)	GR.	IL ND EASE G/L)	TH	ER- ANE TAL G/L)	TO	CB, TAL G/L)	LEI PI CHI TO	PH- HA- NES+ OLY- LOR+ TAL G/L)			DAN		DDI TOT (UG	AL			
		D	ATE	TO	DE, TAL	TO	DT, TAL	AZI	I- NON, TAL G/L)	EL!	I- DRIN TAL G/L)	TO	RIN. TAL	TO	ION, TAL G/L)	TO	OTA- OR,	CHL EPOX TOT	IDE	LIND TOT (UG	AL			
		MA 0	R 9		.000		.000		.000		.000		.000		.00		000		.002		002			
		D	ATE	TH	LA- HION, TAL HG/L)	PA TH TC	THYL RA- (ION) (TAL	TH TO	THYL RI- IION: TAL IG/L)	PA TH TO	RA- ION, TAL G/L)	APH	OX- HENE, TAL	TH	TAL RI- ION G/L)	TO	4-D• TAL 3/L)	TOT	,5-T TAL 3/L)	SILV TOT (UG				
		MA 0	R 9		.00		.00		.00		.00		0.0		.00		.07		.00		.00			

#### DREDGING OPERATIONS STUDY -- Continued

300651093200400 CALCASIEU RIVER AT DEVILS ELBOW 5.0 MILES SOUTHEAST OF CARYLSS, LA WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TI	CI CC DU AN ME (MI	FIC IN- ICT- ICE CRO-	РН	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY L	CHEM- ICAL (HIGH EVEL)	HARE NESS (MG/ AS CACO	O- NE S NON 'L BON (M	ICAR- IATE IG/L	ALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM DIS- SOLVED (MG/L AS MG)	, D
04	10	30 2	1400	7.6	1	3	120	25	500	2400	170	500	
DATE	SODI DIS SOLV (MG AS	ED /L SOL	s	AD- ORP- TION ATIO	DIS- B SOLVED (MG/L	AS	CAR- BONATE (MG/L AS CO3)	ALKA LINII (MG/ AS CACC	TY DI	FATE SS- DLVED IG/L SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS RESIDUE AT 105 DEG. C SUS- PENDED (MG/L)	,
04	370	00	75	32	150	111	0		91 9	910	7200	3	0
D	ATE	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	SOLIDS. VOLA- TILE, SUS- PENDED (MG/L)	SETTLE ABLE MATTE (ML/L/ HR)	NITRAT R TOTAL	GEN	GE TE NO24 TO1	AL S/L	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO GEN: AMMONI DIS- SOLVE (MG/L AS 12)	A AMMO DI D SOL	N; NIA S- VED /L	
0C	T 4	30	25	<1.	0 •0	0 •:	11	•11	.77	. 7	5	.97	
D	ATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	GEN, AM MONIA ORGANI	- GEN,NH + + ORG C SUSP. TOTAL	4 GEN A	M- + NIT IC GE TOT	3/L	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS TOTAL (MG/L AS P)	SOL (MG	US, - VED /L	
0C	T 4	.83	•55	1.6	.3	0 1.:	3 1	1.7	7.6	. (	)4	.04	
ORG TO (M	RBON, GANIC TAL IG/L	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	GREAS		TOTA	S, Y- R. ALD L TO	RIN, TAL G/L)	CHLOR- DANE, TOTAL (UG/L)	DDU TOTAI (UG/)	L T01	AL T	DDT OTA
		.00			0	0 .	00	.006	.0	.0	0.0	.000	.0

TOTAL TOTAL (UG/L)

TOTAL (UG/L)

.000 .000 .000 .00 .000 .002 .002 .00

TOTAL (UG/L)

TOTAL (UG/L)

TOTAL (UG/L)

TOTAL (UG/L)

.00

TOTAL (UG/L)

.00

DATE OCT 04... TOTAL TOTAL (UG/L)

## DREDGING OPERATIONS STUDY -- Continued

# 300651093200400 CALCASIEU RIVER AT DEVILS ELBOW 5.0 MILES SOUTHEAST OF CARYLSS, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

							4					
	DATE	METHYL PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	
	04	.00	.00	.00	.00	.00	0.0	.00	•59	.01	.00	
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDEC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L	RECOV- ERABLE (UG/L	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
OCT 04	2	1	1	20	0	20	10	10	0	20	0	20
DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER TOTAL RECOVERABLE (UG/L AS CU)	PENDED RECOV- ERABLE (UG/L	COPPER, DIS- SOLVED (UG/L	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE* TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE + SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE+ DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
0CT 04	0	30	24	6	20	100	100	0	540	40	500	• 0
DA	PEN REC ERA (UG	IS- IDED MER COV- I IBLE SC	CURY TO DIS- RE DLVED ER	TAL PEI	KEL+ US- NDED NICKE COV- DIS- ABLE SOL' G/L (UG, NI) AS I	- NIU VED TOT /L (UG	M. PEN AL TOT	IM. SEL IS- NIU IDED DI AL SOL	M. TOT S- REC VED ERA /L (UG	AL PEN	NDED ZIN COV- DI ABLE SOL	IC+ IS- VED I/L ZN)
OCT 04		• 0	• 0	100	100	0	0	0	0	20	10	10

#### DREDGING OPERATIONS STUDY--Continued

# 300438093195900 DEVILS ELBOW 4.2 MILES NORTHWEST OF GRAND LAKE, LA

		DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS; NONCAR- BONATE (MG/L CACO3)		
		SEP 08	1000	16400	7.2	10	3	220	1800	1700		
	DA	CALC DIS- SOL (MG.	VED SOLV	OM, SODIO S- DIS- VED SOLVI	- ED /L SODI	SOR TI UM RAT	D- SI P- DI ON SOL	(AS- (UM, BICA (S- BONA (VED (MC	TE CAR	TE (MG/	Ľ	
	SEP 08	13	0 350	300	0	77 3	1 11	10	80	0	66	
		DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	SOLIDS, VOLA- TILE, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)		
		SEP 08	740	5500	30	30	13	<1.0	.73	.03		
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
SEP 08	0	0	0	10	0	10	10	9	1	10	10	0
DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER. SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	(UG/L	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE; DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
SEP 08	0	<10	<4	6	30	100	99	1	100	0	100	.0
DA	PEN REC ERA (UG	S- DED MERC OV- DI BLE SOL /L (UG	S- REC	AL PEN OV- REC BLE ERA /L (UG	S- DED NICK OV- DIS BLE SOL	VED TOT	LE- SI UM, PEI TAL TO G/L (U	US- NI NDED D TAL SO G/L (U	LVED ERA	AL PEND OV- RECO	5- DED ZIM DV- DI BLE SOL	NC, (S- VED G/L ZN)
	••• al value is	•0 known to b	•0 be less than	50 the value	48 shown.	2	0	0	0	20	0	20

SEP 08...

.01

.00

.00

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

#### DREDGING OPERATIONS STUDY--Continued

# 3004380931995900 DEVILS ELBOW 4.2 MILES NORTHWEST OF GRAND LAKE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	CARBON,					NAPH- THA- LENES,						
	ORGANIC TOTAL (MG/L	CYANIDE TOTAL (MG/L	PHENOLS	OIL AND GREASE	PCB.	POLY- CHLOR. TOTAL	ALDRIN, TOTAL	CHLOR- DANE, TOTAL	DDU,	DDE +	DDT,	
DATE	AS C)	AS CN)	(UG/L)	(MG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	
SEP 08	7.2	.00	2	0	.0	.00	.000	.0	.000	.000	.000	

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR: TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	
SEP 08	.00	.000	.000	.000	.00	.000	.000	.000	•00	.00	
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	

.00

.00

0.0

.00

.05

.01 .00

# DREDGING OPERATIONS STUDY -- Continued

# 300438093195900 DEVILS ELBOW 4.2 MILES NORTHWEST OF GRAND LAXE, LA--Continued

	DATE	TIME	SPE- C1F1C CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BIU- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS; NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SULVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	
	04	1000	17000	7.3	20	2	85	1800	1700	130	370	
	DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	LINITY (MG/L AS	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE+ DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	
	04	3100	77	31	120	86	0	71	770	5500	25	
	DA	AT 1 DEC	AL, VOL DUE TIL 10 SUS	A- SETT E: AB - MAT	LE NITE TER TOT L/ (MC	RATE NITH	IN. GE ITE NOZ- IAL TOT	NO GE NO AMMO TAL TOT	RO- GE N, AMMO NIA DI AL SOL G/L (MG	N. GE NIA AMMO S- DI VED SOL	NIA S- VED	
	OCT 04		25	16 <	1.0	.04	.03	.07	.75	.58	.75	
	DA	ORGA TOT (M)	TRO- GE EN, ORGA ANIC DI TAL SOL	S- ORGA VED TOT	AM- GEN- A + + ( NIC SUS AL TO /L (MC	NH4 GENS DRG. MUNI SP. ORGA TAL DIS	IA + NIT ANIC GE S. TOT G/L (MC	EN. GE TAL TOT 3/L (MC	TAL TOT	RUS, DIS	RUS, S- LVED S/L	
	OCT 04		.75	.52 1	•5	.40	1.1	1.6	7.0	.15	.15	
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	TOTAL RECOV- ERABLE (UG/L	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	LIUM, DIS- SOLVED (UG/L	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	PENDED	SOLVED (UG/L	RECOV- ERABLE (UG/L	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM+ DIS- SOLVED (UG/L AS CR)
OCT 04	2	1	1	0	0	0	10	9	1	30	0	30
DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER+ TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER + SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON• DIS- SOLVED (UG/L AS FE)	LEAD* TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE* TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE+ DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
OCT 04	0	30	19 be less than	11	30	100	97	3	110	70	40	• 0

<sup>&</sup>lt; Actual value is known to be less than the value shown,

#### DREDGING OPERATIONS STUDY--Continued

# 3004380931995900 DEVILS ELBOW 4.2 MILES NORTHWEST OF GRAND LAKE, LA--Continued

DATE	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL + TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 04	.0	.0	50	47	3	0	0	, 0	30	0	30
DATE	CARBON. ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
OCT 04	7.1	.00	4	0	.0	.00	.000	.0	.000	.000	.00
		01- (	)I- EN	NDO-		HE		PTA-	мА		TH- XY-

DATE	DI- AZINON, TCTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	OXY- CHLOR, TOTAL (UG/L)
UCT U4	.00	.000	.000	.000	.00	.000	.000	.000	.00	.00

	METHYL PARA- THION, TOTAL	METHYL TRI- THION, TOTAL	MIREX. TOTAL	PARA- THION, TOTAL	PER- THANE TOTAL	TOX- APHENE, TOTAL	TOTAL TRI- THION	2,4-D, TOTAL	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
DATE	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(06/1	(06/1/
OCT 04	.00	.00	.00	.00	.00	0.0	.00	.14	.01	.00

## DREDGING OPERATIONS STUDY--Continued

#### 300435093200700 DEVILS ELBOW 4.1 MILES NORTHWEST OF GRAND LAKE, LA

		DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS; NONCAR- BONATE (MG/L CACO3)		
		SEP 08	0945	16900	7.2	20	15	340	1400	1300		
		00	0743	10900	7.2	20	13	340	1400	1300		
	DA	(MG	IUM SI - DI VED SOL	VED SOLV	ED	SOR TI LUM RAT	D- SI RP- DI ON SOL	(AS- (UM+ BICA (S- BONA LVED (MG 6/L A K) HCO	TE CAR /L BONA S (MG	TE (MG/	r Y /L	
	SEP 08	10	0 28	0 190	10	73 2	22 9	93	80	0	66	
		DATE SEP 08	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE+ DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SUSP.	SOLIDS+ VOLA- TILE+ SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)		
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM. DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
SEP 08	1	0	1	20	10	10	10	9	1	10	10	0
DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD+ SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE + TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE+ SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
SEP 08	0	<10	<b>&lt;</b> 5	5	60	100	100	0	170	10	160	• 0

<sup>&</sup>lt; Actual value is known to be less than the value shown.

SEP 08...

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

#### DREDGING OPERATIONS STUDY -- Continued

## 300435093200700 DEVILS ELBOW 4.1 MILES NORTHWEST OF GRAND LAKE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL + TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL+ SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC+ TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC+ DIS- SOLVED (UG/L AS ZN)
SEP 08	.0	.0	50	47	3	1	0	1	20	0	20
DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE; TOTAL (UG/L)	DDU; TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
SEP 08	7.8	.00	2	0	• 0	.00	.000	.0	.000	.000	.000

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN+ TOTAL (UG/L)	ENDRIN. TOTAL (UG/L)	ETHION. TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	
SEP 08	.01	.000	.000	.000	.00	.000	.000	.000	.00	.00	
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	

.00

.00

.15

.00

.02

.01

## DREDGING OPERATIONS STUDY -- Continued

# $300435093200700\,\,$ DEVILS ELBOW 4.1 MILES NORTHWEST OF GRAND LAKE, LA--Continued

	OCT 04	1015	17200	7.5	15			CACO3)	CACO3)	(MG/L AS CA)	(MG/L AS MG)	
	DATE				15	3	96	1900	1800	130	380	
	DATE	DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	
	0CT 04	3000	76	30	120	79	0	65	740	5600	22	
	DA	SOLI SUS TOT RESI AT 1 DEG	FP. SOLI FAL, VOL DUE TIL 10 SUS 6. C PEND	A- SETT E, AB - MAT	LE GE LE NITE TER TOT L/ (MG	EN, GE RATE NITR TAL TOT GOL (MG	AL TOT	NO AMMO AL TOT	RO- GE N, AMMO NIA DI AL SOL (MG	NIA AMMO S- DI VED SOL	N, NIA S- VED	
	0C1		22	15 <	1.0	• 04	• 04	.08	.70	.59	.76	
	DA	NIT GE ORGA TOT (MC	FRO- GE EN, ORGA ANIC DI FAL SOL G/L (MG	N, GEN, NIC MONI S- ORGA VED TOT /L (MG	AM- GEN- A + + ( NIC SUS AL TOTAL	NH4 GEN, DRG. MONI SP. ORGA TAL DIS G/L (MG	ANIC GE TOT  KIA + NIT  KIA + NIT	N. GE AL TOT	G/L (MG	RUS, DIS	RUS, 5- LVED 5/L	
	OC 1	· · · ·	.90	.61 1	•6	.40	.2 1	•7	7.4	.16	.11	
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	LIUM, TOTAL	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
OCT 04	2	1	1	0	0	0	10	10	0	20	0	20
DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON. DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD+ SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE * TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
OCT 04	0	40	33	7	40	100	99	1	120	80	40	.0

#### DREDGING OPERATIONS STUDY -- Continued

# 300435093200700 DEVILS ELBOW 4.1 MILES NORTHWEST OF GRAND LAKE, LA--Continued

	DATE	MERCUF SUS- PENDE RECOV ERABL (UG/L AS HO	D MERC	URY S- VED	TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKE DIS- SOLV (UG/ AS N	ED TO	LE- UM, ITAL IG/L SE)	SELE NIUM SUS PEND TOTA (UG/ AS S	SEI S- NII DED D NL SOI	LE- JM, IS- LVED G/L SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	SOLVED (UG/L
	OCT 04		. 0	• 0	50	48		2	0		0	0	20		20
	DATE	CARBON ORGAN: TOTAL (MG/L AS C	C CYAN	AL F	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCE TOTA (UGA	LI I B, CI	APH- THA- TNES, POLY- HLOR. OTAL JG/L)	ALDR:	IN. DA	LOR- NE, TAL G/L)	DDU, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT. TOTAL (UG/L)
-	OCT 04	7	• 7	.00	4	0		• 0	•00		000	• 0	.000	.00	000.000
	00	DATE CT	DI- AZINON. TOTAL (UG/L)	DI ELD TOT (UG	RIN SUL	TAL T	ORIN, OTAL UG/L)	ETHION TOTAL (UG/L	, CH	PTA- HLOR, OTAL JG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LING TO	TAL TO	ALA- HION, DTAL	METH- OXY- CHLOR, TOTAL (UG/L)

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX. TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT 04	.00	.00	.00	.00	.00	0.0	.00	.14	.01	.00

#### DREDGING OPERATIONS STUDY--Continued

# 293925091015500 BAYOU BLACK 3.4 MILES SOUTHWEST OF GIBSON, LA

	DATE	TIME	AN (M)	)N- JCT- JCE ICKO- HOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	8 I	UR- ID- TY TU)	CH IC (H LEV	AND * EM- AL IGH EL)	HARD- NESS (MG/L AS CACO3	NON BON	ARD- ESS. NCAR- NATE AG/L ACO3)		IUM - VED /L	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	
	NOV 02	0941	)	204	7.5	120		55		160	66	ò	9	1	9	4.5	
	DAT	Si E	DDIUM, DIS- DLVED (MG/L AS NA)	SODI	SOR TI JM RAT	D- S P- D ON SO IO (M	TAS- IUM, IS- LVED G/L K)	HCO (MG BONA BICA	TE S/L	CAR- BONAT (MG/ AS CO	E ()	KA- NITY MG/L AS ACO3)	(MG	- VED /L	CHLO- RIDE: DIS- SOLVE (MG/L AS CL	D	
	02.		16		33	.9	1.7		70		0	57		J.5	25		
	DAT	A DE	DLIDS, SIDUE 105 G. C, SUS- NOED	SOLII VOLA TILE SUS- PENDE (MG,	A- SETT E, AE - MAT ED (ML/	LE- G LE NIT TER TO	TRO- EN, RATE TAL G/L N)	GE	AL AL	NITR GEN NOZ+N TOTA (MG/ AS N	03 AMI	TRO- GEN, MONIA OTAL MG/L	GE AMMO DI	VED	NITRO GEN; AMMONI DIS- SOLVE (MG/L AS NH4	A D	
	NOV		174		25 <	1.0	.02		.05		07	.28		.28	.3	6	
	DAT	01	GEN; GEN; GGANIC TOTAL (MG/L	NITE GET ORGAN DIS SOLV (MG,	N, GEN, NIC MONI S- ORGA VED TOT /L (MG	AM- GEN A + + NIC SU AL TO	TRO- ,NH4 ORG. SP. TAL G/L N)	GEN .	NIC	NITR GEN TOTA (MG/ AS N	L T(	ITRO- GEN, OTAL MG/L NO3)	PHOR TOT (MG	AL	PHOS- PHORUS DIS- SOLVE (MG/L AS P)	, D	
	NOV 02.		1.0	1	.0 1	.3	.00	1	.3	1.	4	6.2		.21	.0	6	
	ARSENIC TOTAL (UG/L AS AS)	ARSEN SUS- PENDI TOTAL (UG/I AS A	ARS	SENIC DIS- DLVED JG/L S AS)	TOTAL RECOV-	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	DI SO	UM,	RE ER	MIUM TAL COV- RABLE IG/L CD)		CAI	DWIUM	ERA (UG	M, AL OV- BLE /L	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
NOV 02	3		3	0	0	C	1	0		0		0	0		12	4	8
DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPE TOTAL RECO ERABL (UG/ AS C	R, SI - PE - RE - E	PPER, US- ENDED ECOV- RABLE JG/L S CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON. DIS- SOLVED (UG/L AS FE)	TO RE ER (U	AD, TAL COV- ABLE (G/L PB)	PE RE ER	AD, SUS- NDED COV- RABLE JG/L PB)	LEAD, DIS- SOLVE (UG/L AS PB	NI TI RI D EI	ANGA- ESE, OTAL ECOV- RABLE UG/L S MN)	NES	S- DED OV.	MANGA- NESE; DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 02	0		11	3	8	220	)	8		7		1	330		150	180	.0

## DREDGING OPERATIONS STUDY--Continued

# 293925091015500 BAYOU BLACK 3.4 MILES SOUTHWEST OF GIBSON, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL+ SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL+ DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC+ SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC. DIS- SOLVED (UG/L AS ZN)
NOV 02	• 0	• 0	12	10	2	0	0	0	40	10	30
UATE	CARBUN, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDU • TOTAL (UG/L)	DDE • TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV	28	- 00	4	0	.0	.00	.000	.0	.000	.000	.000

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN* TOTAL (UG/L)	ENDRIN+ TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION. TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	
NOV 02	.00	.000	.000	.000	.00	.000	.000	.000	.00	.00	
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	
NOV	00	.00	.00	.00	.00	0.0	.00	.01	.01	.00	

#### DREDGING OPERATIONS STUDY--Continued

# 293903091015800 BAYOU BLACK 3.5 MILES SOUTHWEST OF GIBSON, LA

DA		SPE CIF CON DUC AND ME (MIC MHO	IC I- IT- IE P	H INC	AT- TI	OXYG DEMA CHE JR- ICA ID- (HI IY LEVE IU) (MG/	MH HAF	SS NONC S/L BONA S (MG	AR- DIS	IUM SI - DI VED SOL /L (MG	SNE- (UM+ SODI (S- DIS (VED SOLV S/L (MG MG) AS	ED /L
OCT 20		000	361	7.0	120	85	73	71	20 1	6	7.5 4	0
	DATE	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE+ DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS, VOLA- TILE, SUS- PENDED (MG/L)	
	20	54	2.1	2.7	62	0	51	13	66	218	40	
	DATE OCT 20	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN+ NITRAL TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN+ AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN. ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
20	4	2	2	0	0	0	0	0	0	4	4	0
DATE	CHRO- MIUM, HEXA- VALENT, DIS- (UG/L AS CR)	COPPER + TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER+ DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD. DIS- SOLVED (UG/L AS PB)	MANGA- NESE * TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RÉCOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
20	0	15	7	8	240	9	8	1	340	150	190	.0

<sup>&</sup>lt; Actual value is known to be less than the value shown.

#### DREDGING OPERATIONS STUDY--Continued

# 293903091015800 BAYOU BLACK 3.5 MILES SOUTHWEST OF GIBSON, LA--Continued

DATE	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL+ SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM. TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM. DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC. DIS- SOLVED (UG/L AS ZN)
OCT 20	• 0	• 0	24	22	2	0	0	0	60	40	20
DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDU, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
OCT 20	22	.00	1	0	.0	•00	.000	.0	.000	.000	.000

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
OCT 20	.00	.000	.000	.000	.00	.000	.000	.000	.00	.00

DATE	METHYL PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT 20	.00	•00	.00	.00	.00	0.0	.00	.00	.00	.00

#### DREDGING OPERATIONS STUDY -- Continued

# 293903091015800 BAYOU BLACK 3.5 MILES SOUTHWEST OF GIBSON, LA WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS+ NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	
	SEP 22	0900	131	7.0	120	4	67	41	5	11	3.4	
	DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SUDIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE+ DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	
	SEP 22	9.5	32	.6	2.1	45	0	37	3.1	15	24	
	DA	RES.	FP. SOL TAL, VOI IDUE TII 110 SUS	S- MAT	TLE- GE BLE NITR TTER TOT 'L' (MG	N. GE ATE NITE AL TOT	EN+ GE RITE NO2+ TAL TOT G/L (MG	NO GE NO3 AMMO AL TOT	N. AMMO NIA DI AL SOL	N GE NIA AMMO S- DI VED SOL	NIA S- VED	
	SEP 22	•••	24	18	<1.0	•00	•00	•00	.16	.16	.21	
	DA	ORG/ TO	TRO- G EN+ ORG ANIC D TAL SO G/L (M	EN. GENE ANIC MONI IS- ORGA LVED TO	AM- GENA IA + + CANIC SUSTAL TOT G/L (MG	NH4 GENE DRG. MONI SP. ORGA TAL DIS	ANIC GE 5. TOT 5/L (MG	IN. GE	JL (MG	AL SOL	RUS, 5- LVED 5/L	
	SEP 22		•97	.78	1.1	.16	.94	1.1 4	.9 3	1.4	2.2	
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	RECOV- ERABLE (UG/L	LIUM, SUS-	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
SEP 22	2	0	2	0	0	0	<10	<10	0	10	0	10
DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
SEP 22	0	<10	<b>43</b> CO7		1100	<100	<85	15	300	90	210	•0

<sup>&</sup>lt; Actual value is known to be less than the value shown.

#### DREDGING OPERATIONS STUDY -- Continued

293903091015800 BAYOU BLACK 3.5 MILES SOUTHWEST OF GIBSON, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM. TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
SEP 22	.0	.0	<50	<50	0	0	0	0	10	0	10
DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN* TOTAL (UG/L)	CHLOR- DANE; TOTAL (UG/L)	DDU, TOTAL (UG/L)	DDE • TOTAL (UG/L)	DDT+ TOTAL (UG/L)
SEP 22	18	.00	4	0	.0	.00	.000	.0	.000	.000	.000

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
SEP 22	•00	.000	.000	.000	.00	.000	.0-0	.000	.00	.00

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
SEP 22	.00	•00	.00	.00	.00	0.0	.00	.00	.00	.00

<sup>&</sup>lt; Actual value is known to be less than the value shown.

#### DREDGING OPERATIONS STUDY--Continued

## 293858091015800 BAYOU BLACK 3.7 MILES SOUTHWEST OF GIBSON, LA

	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	
	SEP 22	0915	136	6.9	120	20	75	41	2	11	3.4	
	DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIOM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	
	SEP 22	10	33	.7	2.1	48	0	39	3•3	15	70	
	DA	SU TO RES AT DE	TAL, VO IDUE TI 110 SU G. C PEN	LE A IS- MA IDED (ML	TLE- GE BLE NITE TTER TO: /L/ (ME	EN, GE RATE NITE TAL TOT G/L (MC	EN, GE RITE NOZA TAL TOT G/L (MC	NO GENORAL TO	TRO- GE EN, AMMO ONIA DI	N. GE NIA AMMO S- DI VED SOL	IS- VED G/L	
	SEP 22		70	38	<1.0	.00	.00	.00	.19	.10	.13	
	DA	G ORG TO (M	TRO- CEN, ORCE ANIC ETAL SCENIC IN CENTRAL SCENIC IN CONTRAL SCENIC IN CENTRAL SCENI	GEN, GEN GANIC MON DIS- ORG DLVED TO	AM- GEN IA + + + ANIC SUITAL TO G/L (M	NH4 GENORG. MONISP. ORGATAL DIS	ANIC GE	TAL TO	TRO- PHOEN, PHORTAL TOT	AL SOL	RUS, S- _VED G/L	
	SEP 22		1.0	.90	1.2	.20	1.0	1.2	5.3	.39	.16	
DATE	AKSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC	LIUM, TOTAL RECOV- ERABLE (UG/L	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- EHABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
SEP 22	3	0	2	10	0	10	<10	<10	0	10	10	0
DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)		COPPER, DIS- SOLVED (UG/L	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE + TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE+ SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
SEP 22	0	<10	<7	3	610	<100	<99	1	380	130	250	.0

<sup>&</sup>lt; Actual value is known to be less than the value shown.

#### DREDGING OPERATIONS STUDY -- Continued

# 293858091015800 BAYOU BLACK 3.7 MILES SOUTHWEST OF GIBSON, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
SEP 22	.0	.0	<50	<50	0	0	0	0	20	10	10
DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
SEP 22	20	.00	4	0	• 0	.00	.000	.0	.000	.000	.000

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN+ TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	
SEP 22	.00	.000	.000	.000	.00	.000	.000	.000	.00	•00	
	METHYL PARA- THION,	METHYL TRI- THION, TOTAL	MIREX,	PARA- THION, TOTAL	PER- THANE TOTAL	TOX- APHENE: TOTAL	TOTAL TRI- THION	2,4-D, TOTAL	2,4,5-T TOTAL	SILVEX,	

DATE	METHYL PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
SEP 22	•00	•00	.00	•00	.00	0.0	.00	.31	•43	.00

<sup>&</sup>lt; Actual value is known to be less than the value shown.

#### DREDGING OPERATIONS STUDY--Continued

293849091020200 BAYOU BLACK 2.1 MILE ABOVE INTRACOASTAL WATERWAY (AT MILE 83.7 WHL), NEAR GIBSON, LA WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	DATE		TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNIT	11 C	OLOR PLAT- NUM- OBALT NITS)	TUR- BID- ITY (JTU)	CH	AND, EM- AL IGH EL)	HARD- NESS (MG/L AS CACO3)	NON BON (M	RD- SS. CAR- ATE G/L (CO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	
	02		0815	192	7.	6	130	55		87	62		2	17	4.8	
	DA		SODI DIS SOLV (MG	- ED 5/L SOD	5	ODIUM AD- SORP- TION RATIO	POTAS SIUM DIS- SOLVE (MG/L AS K)	BICA BONA D (MG	TE S/L	CAR- BONATE (MG/I AS CO:	LIN E (M A	KA- ITY G/L S CO3)	SULF DIS- SOL (MG/ AS SO	ATE RIC DIS VED SOL /L (MC	LO- DE, S- LVED G/L CL)	
	DEC 02	•••	1	2	28	.7	2.	9	74		0	61		7.7	21	
			SOLI RESI AT 1 DEG. SUS PEND	DUE SOL 05 VO C+ TI - SU ED PEN	LE+ S- N DED (N	TTLE- ABLE ATTER	NITRO GEN, NITRAT TOTAL (MG/L	GE NITR TOT (MG	AL /L	NITRO GEN: NOZ+NO TOTAL (MG/L	G D3 AMM T0 (M	TRO- EN, ONIA TAL G/L	NITH GEN AMMON DIS SOL	VIA AMMO S- DI VED SOL	IS- VED 3/L	
	DEC		(MG	92 (M	G/L) 15	HR)	AS N)		N)	AS N	) AS	N)	AS I	N) AS 1	•98	
	DA	TE	NIT GE ORGA TOT (MG AS	RO- G N, ORG NIC D AL SO /L (M	EN, GE ANIC MO IS- OF LVED 1	ITRO- N.AM- NIA + GANIC OTAL MG/L S N)	NITRO GEN,NH + ORG SUSP. TOTAL (MG/L AS N)	<ul> <li>GEN,</li> <li>MONI</li> <li>ORGA</li> <li>DIS</li> </ul>	NIC	NITRO GENE TOTAL (MG/L AS N)		TRO- EN, TAL G/L NO3)	PHOS PHORU TOTA (MG/ AS H	AL SOL	RUS,	
	DEC 02		1	.4	1.0	2.2	.4	0 1	.8	2.3	3 1	0	,	.20	.03	
DATE	ARSENIC TOTAL (UG/L AS AS)	PE TO	SENIC SUS- ENDED OTAL JG/L S AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	TOTAL RECO	SI PEI E RI	UM, US- NDED ECOV. UG/L	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	TO RE ER (U	MIUM TAL COV- ABLE G/L CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CAD	MIUM IS- LVED G/L CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
DEC 02	3		1	2		0	0	0		0	0		0	0	0	0
DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	RE EF	PPER, OTAL ECOV- RABLE JG/L S CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER DIS- SOLVE (UG/L AS CE	D 50	RON, DIS- DLVED UG/L	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	PE RE ER (U	AD; US- NDED COV- ABLE G/L PB)	LEAD, DIS- SOLVED (UG/L AS PB)	NE TO RE ER (U	NGA- SE, TAL COV- ABLE G/L MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
DEC 02	0		11	7		4	260	11		9	2		120	0	120	•0

<sup>&</sup>lt; Actual value is known to be less than the value shown.

#### DREDGING OPERATIONS STUDY -- Continued

293849091020200 BAYOU BLACK 2.1 MILE ABOVE INTRACOASTAL WATERWAY (AT MILE 83.7 WHL), NEAR GIBSON, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVEI (UG/L AS HG	RECOVERABLE (UG/L	PENDE RECOV E ERABL	D NICK	VED TO	NI LE- S UM, PE TAL TO G/L (L	SUS- N ENDED OTAL S JG/L (	DIS- DOLVED SOLUGIL (U	IS- REC LVED ERA G/L (U	IC+ STAL PECOV- REABLE ER	COV- CABLE SO	INC, DIS- DLVED JG/L G ZN)
DEC 02	• 0		0 1	10	5	5	0	0	0	• 0	30	10	20
DAT	CARE ORGA TOT (MC	ANIC CY	MG/L		OIL AND REASE MG/L)	PCB.	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	TOTAL	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	
DEC 02.	1	4	.00	4	0	• 0	.00	.000	.0	.000	.000	.000	

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
02	.01	.000	.001	.000	.00	.000	.000	.000	.00	.00
	METHYL PARA- THION, TCTAL	METHYL TRI- THION: TOTAL	MIREX, TOTAL	PARA- THION, TOTAL	PER- THANE TOTAL	TOX- APHENE, TOTAL	TOTAL TRI- THION	2,4-D, TOTAL	2,4,5-T TOTAL	SILVEX,
DATE	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
DEC	.00	-00	-00	.00	.00	0.0	.00	.10	.02	.00

# DREDGING OPERATIONS STUDY--Continued

293846091020800 BAYOU BLACK 2.2 MILE ABOVE INTRACOASTAL WATERWAY (AT MILE 83.7 WHL), NEAR GIBSON, LA WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DA	<b>ATE</b>	TIME (M	PE- IFIC ON- UCT- NCE ICRO- IHOS) (UI	PH IN	UM- BALT	DEM CH TUR- IC BID- (H ITY LEV	AL IGH EL)	HARD- NE NESS NON (MG/L BON AS (M	CAR- DI ATE SO	CIUM S S- D LVED SOI G/L (M	GNE- IUM, IS- LVED G/L MG)
DEC 02	·	0830	338	7.6	70	70	46	95	3	24	8.5
	DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE	CAR- BONATE (MG/L AS CO3	AS	SULFATE DIS- SOLVED (MG/L AS SU4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	
	02	, 30	40	1.3	3.0	112		0 92	19	42	
	DATE	SOLIDS: RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	SOLIDS, VOLA- TILE, SUS- PENDED	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN; NITRATE TOTAL (MG/L AS N)	GEN.	NITRO GEN+ NOZ+NO TOTAL (MG/L AS N)	GEN, 3 AMMONIA TOTAL (MG/L	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN+ AMMONIA DIS- SOLVED (MG/L AS NH4)	
	DEC 02	. 94	15	<1.0	.04	.02	.0	6 .26	.19	.24	
	DATE	NITRO- GEN• ORGANI( TOTAL (MG/L AS N)	ORGANIC	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN.NH4 + ORG. SUSP. TOTAL (MG/L AS N)	GEN AM-	NITRO GEN, TOTAL (MG/L AS N)	GEN. TOTAL (MG/L	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	
	DEC 02	. 1.4	.69	1.3	.42	.88	1.4	6.0	28	.12	
DATE	ARSENIO DIS- SOLVEI (UG/L AS AS	RECOV- D ERABLI (UG/L	SUS- PENDED RECOV.	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	PENDED RECOV- E ERABLE (UG/L	CADMIL DIS- SOLVE (UG/L AS CO	RECOV- D ERABLE (UG/L	CHRU- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)
DEC 02		1	0 0	0		0 0		0 0	0	0	0
DATE	COPPER TOTAL RECOV ERABL (UG/L AS CU	PENDE RECOV E ERABL (UG/L	D COPPER, DIS- E SOLVED	DIS- SOLVED (UG/L	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB:	E ERABLE (UG/L	LEAD. DIS- SOLVE (UG/L	RECOV- ED ERABLE (UG/L	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)
DEC 02	1		7 6			4 4		0 160		160	.0
				11.00	e houm						

 $<sup>\,\,{\</sup>mbox{\fontfamily Actual value}}$  is known to be less than the value shown.

#### DREDGING OPERATIONS STUDY -- Continued

293846091020800 BAYOU BLACK 2.2 MILE ABOVE INTRACOASTAL WATERWAY (AT MILE 83.7 WHL), NEAR GIBSON, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	DATE	NICKEL TOTAL RECOV ERABL (UG/L AS NI	PE	EKEL, SUS- ENDED ECOV- RABLE UG/L S NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM: SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC+ TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
9	02	i	.5	12	3	2	2	0	.2	40	20	20
DATE	CARBORGA TOT (MG	NIC CY	ANIDE OTAL (MG/L AS CN)	PHENO (UG	GRE	ASE TOTA	AL TOTA	S, Y- DR. ALDR	IN DAN	LOR- NE DDE TAL TOTA	L TOTA	L TOTAL
DEC 02	. 2	4	.00		2	0	.0	.00	000	.0 .0	0.00	00 .000

UATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN. TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
DEC 02	.01	.000	.000	.000	.00	.000	.000	.000	•00	•00
	METHYL PARA- THION,	METHYL TRI- THION,	MIREX,	PARA- THION,	PER- THANE	TOX- APHENE,	TOTAL TRI-	2,4-D,	2,4,5-1	SILVEX,
DATE	TOTAL (UG/L)	TOTAL (UG/L)	(UG/L)	TOTAL (UG/L)	(UG/L)	(UG/L)	THION (UG/L)	(UG/L)	TOTAL (UG/L)	(UG/L)
DEC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0

#### DREDGING OPERATIONS STUDY -- Continued

293815091030400 BAYOU BLACK WEST OF GULF AND INTRACOASTAL WATERWAY (AT MILE 83.5 WHL), NEAR AMELIA, LA WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	DATE	T	IME	DU AN (MI	FIC N- CT- CE CKO-	PH NITS)	(PL INU COE	BALT	TUR- BID- ITY (JTU)	DEM CH IC		HAF NES (MC	G/L	NONG BONA	RD- SS+ CAR- ATE G/L CO3)	DI:	CIUM S- LVED G/L CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	
	JAN 26	0	845		137	7.1		70	65		32		44		7		13	2.8	
	DAT	Έ	SODI DIS SOLV (MG AS	ED /L	SODIUM PERCENT	SOD AI SORF TI( RAT	)- )-	POTAS- SIUM- DIS- SOLVEI (MG/L AS K)	BON4	ATE G/L AS	CAR- BONAT (MG/ AS CO	E	ALK LINI (MG AS CAC	TY /L	SULF DIS SOL (MG AS S	- √ED /L	CHLORIDE DIS-	VED /L	
	JAN 26.			8.5	28		.6	2.3	3	45		0		37	1	1	11	ı	
	DAT	E	SOLII SUSI TOT RESII AT 1 DEG (MG.	AL. DUE 10	SOLIDS, VOLA- TILE, SUS- PENDED (MG/L)	SETTI ABI MATI (ML/IL HR)	E ER	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	GE	TAL S/L	NITR GEN NO2+N TOTA (MG/ AS N	03 L	NIT GE AMMO TOT (MG AS	N, NIA AL /L	NIT GE AMMO DI SOL (MG AS	NIA S- VED /L	NITE GEN AMMON DIS SOLV (MG/ AS NE	NIA S- VED VL	
	JAN 26.			140	24	<1	.0	.05	5	.02		07		.09		.09		.12	
	DAT	Ē	NITI GEI ORGAI TOT. (MG.	NIC AL /L	NITRO- GEN; ORGANIC DIS- SOLVED (MG/L AS N)	GEN.	M- NIC AL	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	GEN:	ANIC S.	NITR GEN TOTA (MG/ AS N	L	NIT GE TOT (MG AS N	N. AL /L	PHO PHOR TOT (MG AS	AL /L	PHOSE PHORE DIS- SOLV (MG/ AS F	J5, - /ED /L	
	JAN 26.			.49	.27		.52	.16	5	.36		59	2	.6		.17		.06	
DATE	ARSENIC TOTAL (UG/L AS AS)	PEI TO	ENIC US- NDED TAL G/L AS)	50 (U	ENIC T IS- R LVED E G/L (	ERYL- IUM, OTAL ECOV- RABLE UG/L S BE)	REC (UG	6- L DED L COV. S	BERYL- LIUM, DIS- SOLVED (UG/L	RE ER (U	MIUM TAL COV- ABLE G/L CD)	PEN REC ERA	MIUM US- NDED COV- ABLE G/L CD)	SOL	MIUM IS- LVED G/L CD)	MI TO RE ER	RO- UM: TAL COV- ABLE G/L CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
JAN 26	1		Ó		1	0		0	0		0		0		0		10	10	0

<sup>&</sup>lt; Actual value is known to be less than the value shown.

#### DREDGING OPERATIONS STUDY -- Continued

293815091030400 BAYOU BLACK WEST OF GULF AND INTRACOASTAL WATERWAY (AT MILE 83.5 WHL), NEAR AMELIA, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE* TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
JAN	0	28	26	2	70	13	12	1	100	70	30	.0
26	0	20	20	-	, ,							
DATE	MERCURY SUS- PENDED RECOV- EKABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM+ DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
JAN 26	.0	.0	10	10	0	1	1	0	1.0	150	140	10
JA	ORG TO (M DATE AS	TAL TO	NIDE TAL PHEN G/L CN) (UG	GRE		B, CHL AL TOT	ES; LY- OR. ALDR AL TOT /L) (UG	IN. DAN	AL TOT	/L) (UG	AL TO:	OT, TAL 3/L)
	DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	
	JAN 26	•00	.000	.000	.000	.00	.000	.000	.000	•00	.00	
	DATE	METHYL PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TÖTAL (UG/L)	SILVEX, TOTAL (UG/L)	

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#### DREDGING OPERATIONS STUDY--Continued

293738091031600 BAYOU BLACK 0.6 MILE NORTH OF INTRACOASTAL WATERWAY (AT MILE 83.3 WHL), NEAR AMELIA, LA
WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS+ NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	
	APR 19	0830	321	7.4	20	65	34	120	35	33	10	
	DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIÚM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE+ DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	
	APR 19	15	20	.6	4.5	108	0	89	35	21	80	
	DA	TO' RES AT DE	TAL, VOIDUE TI 110 SU G. C PEN	LE, A S- MA DED (ML	TLE- GI BLE NITI TTER TO	EN. GE RATE NITE TAL TO G/L (MO	TRO- NIT EN• GE RITE NO2+ TAL TOT G/L (MG N) AS	N• GE NO3 AMMO AL TOT /L (MG	AL SOLV	FIA AMMO DI VED SOL	N. NIA S- VED	
	APF 19	· · ·	80	7	<1.0	1.4	.02 1	.4	.06	01	.00	
	DA	ORG TO	TRO- G EN: ORG ANIC D TAL SO G/L (M	EN, GEN ANIC MON IS- ORG LVED TO G/L (M	AM- GEN IA + + ANIC SU TAL TO G/L (M	NH4 GEN ORG. MON SP. ORG TAL DIS	ANIC GE	N. GE AL TOT /L (MG	IL (MG/	S, DIS	VED	
	APF		.79	.79	. 85	.05	.80 2	.2 9	.8 .	. 17	.04	
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	RECOV- ERABLE (UG/L	LIUM. SUS- PENDED	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
APR 19	2	.1	1	0	0	0	0	0	0	10	0	10

<sup>&</sup>lt; Actual value is known to be less than the value shown.

#### DREDGING OPERATIONS STUDY -- Continued

293738091031600 BAYOU BLACK 0.6 MILE NORTH OF INTRACOASTAL WATERWAY (AT MILE 83.3 WHL), NEAR AMELIA, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON. DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
APR 19	0	4	0	4	30	7	7	0	70	70	0	.0
DATE	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM; SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC; SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 19	.0	• 0	4	4	0	0	0	0	.0	100	80	20
APR	TO (MI	ANIC CYAN TAL TOT G/L (MG	TAL PHEN	GRE	D PC	LEN PO EB, CHL TAL TOT	5/L) (UG		E, DD AL TOT /L) (UG	AL TOT /L) (UG	AL TOT /L) (UG	T, AL (/L)
	DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN. TOTAL (UG/L)	ETHION. TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	
	DATE	METHYL PARA- THION, TCTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX. TOTAL (UG/L)	PARA- THION. TOTAL (UG/L)	PERTHANE	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	
	APR 19	.00	.00	.00	.00	.00	0.0	.00	.05	.01	.00	

## DREDGING OPERATIONS STUDY--Continued

293736091031600 BAYOU BLACK 0.5 MILE NORTH OF INTRACOASTAL WATERWAY (AT MILE 83.3 WHL), NEAR AMELIA, LA
WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS. NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SULVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	
	APR 19	0840	317	7.7	30	85	32	120	35	32	9.8	
	DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS. RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	
	APR 19	14	20	.6	3.4	104	0	85	35	20	131	
	APR	SU TO RES AT DE TE (M	TAL, VO IDUE TI 110 SU G. C PEN G/L) (M	S- MAI DED (ML/ G/L) HE	TLE- GE BLE NITE TTER TOT (L/ (MG R) AS	N, GE RATE NITH AL TOT S/L (MG N) AS	TAL TOT	N, GEI NO3 AMMOI AL TOTA /L (MG, N) AS I	N, AMMON NIA DIS AL SOLV /L (MG/ N) AS N	GE AMMO DI ED SOL (MG	S- VED /L	
	19	•••	131			.3		.3	.10 1.	.0 1	•0	
	DA	ORG TO	TRO- GEN, ORGANIC DAL SO	TRO- NITEN, GENERALIC MONITORIO CONTROL CONTRO	AM- GEN	NH4 GENERAL DIS	ANIC GE	N. GEI AL TOT. /L (MG.	N. PHORU AL TOTA /L (MG/	DIS L SOL L (MG	VED	
	APR	•••	.81	.81	•91	.00	.82 2	.2 9	.4 .	15	.02	
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDEC TOTAL (UG/L AS AS)	ARSENIO DIS- SOLVED (UG/L	RECOV- ERABLE (UG/L	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
APR 19	2	1	. 1	0	0	0	0	0	0	0	0	0

<sup>&</sup>lt; Actual value is known to be less than the value shown.

#### DREDGING OPERATIONS STUDY -- Continued

293736091031600 BAYOU BLACK 0.5 MILE NORTH OF INTRACOASTAL WATERWAY (AT MILE 83.3 WHL), NEAR AMELIA, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPP TOT REC ERA (UG AS	ER, AL CV- BLE /L	OPPER. SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVEC (UG/L AS FE	ERA (UG	D S AL PE OV- RE BLE ER	AD, US- NDED COV- ABLE G/L PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	NESI SUS PENI	E, M/ S- NE DED ( OV. SO /L (	ANGA- ESE; DIS- DLVED JG/L S MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
APR 19	0		5	1	4	20	)	6	6	0	110		110	0	• 0
DATE	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)		URY S- VED /L	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL DIS- SOLVEI (UG/L AS NI	NIU TOT (UG	NI E- S M+ PE AL TO	LE- UM, US- NDED TAL G/L SE)	SELE- NIUM; DIS- SOLVED (UG/L AS SE)	VANA- DIUM+ DIS- SOLVED (UG/L AS V)	ZIN TOT, REC EKA (UG AS	C, S AL PE OV- RE BLE E	INC. SUS- ENDED ECOV- RABLE JG/L S ZN)	ZINC+ DIS- SOLVED (UG/L AS ZN)
APR 19	• 0		• 0	4	4		0	0	0	0	• 0		40	30	10
	ORG TO (M ATE AS	BON, ANIC TAL G/L C)	CYANII TOTAI (MG/I AS CI	L PHEN	GRE	ASE T	PCB. OTAL UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRI TOTA (UG/	N. DAN	AL TO	DDO; DTAL DG/L)	DDE • TOTAL (UG/L)	TOT	)T• AL )/L)
19		6.7		0 0	2	0	. 0	.00	.0	00	• 0	.000	.000		000

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION. TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
APR 19	•00	.000	.000	.000	.00	.000	.000	.000	•00	•00
	METHYL	METHYL								
DATE	PARA- THION, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
APR 19	•00	•00	.00	•00	.00	0.0	•00	.00	•00	.00

## DREDGING OPERATIONS STUDY--Continued

# 293732091041100 BAYOU BLACK (AT MILE 21.0), 3.2 MILES SOUTHEAST OF AMELIA, LA WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	DATE	TIM	CI CO DU AN 4E (MI	FIC N- ICT- ICE CRO-	PH JNITS)	COLOR (PLAT- INUM- COBALT UNITS)	DEM CH IC (H	GEN AND + HEM- CAL HIGH VEL)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	
	MAR 09	085	55	671	7.8	150	)	60	99	0	20	12	97	
	DAT		GODIUM PERCENT	SODIUM AD- SORP- TION RATIO		UM, BIO S- BON VED (N	CAR- NATE MG/L AS CO3)	CAR- BONATE (MG/L AS CO3	AS	TY DIS /L SOL (M)	FATE RIL S- DIS LVED SOL	LU- RES DE, AT S- DEG LVED SU G/L PEN	. C,	
	MAR 09.	••	66	4.2	2	6.3	196		0	161	16	99	26	
	DAT	R	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	SOLIDS: VOLA- TILE: SUS- PENDED (MG/L)	SETT AB MAT (ML/	LE NIT TER TO	TRO- GEN, TRATE DTAL MG/L S N)	NITRO GEN, NITRIT TOTAL (MG/L AS N)	GE NO2+ TOT (MG	N GE NO3 AMMO AL TOT /L (MO	TRO- GE EN: AMMO ONIA D. TAL SOL G/L (MO	EN, G DINIA AMM IS- D LVED SO G/L (M	TRO- EN; ONIA IS- LVED G/L NH4)	
	MAR 09.		26	22	2 <	1.0	.07	.0	08	.15	1.9	1.6	2.1	
	DAT	O	NITRO- GEN, DRGANIC TOTAL (MG/L AS N)	NITRO- GEN. ORGANIC DIS- SOLVEC (MG/L AS N)	GEN: MONI ORGA	AM- GEN A + + NIC SI AL TO /L (N	TRO- N,NH4 ORG. USP. OTAL MG/L	NITRO GEN, AM MONIA ORGANI DIS. (MG/L AS N)	+ NIT IC GE TOT (MG	N+ GE AL TOI /L (MC	TAL TO	OS- PHORUS, DI TAL SO G/L (M	OS- RUS+ S- LVED G/L P)	
	MAR 09.		3.0	2.4	4	•9	.90	4.0	5	.1 22	2	.19	.09	
'DATE	ARSENIC TOTAL (UG/L AS AS)	ARSEN SUS- PENDI TOTAL (UG/I	- ARS ED D L SO L (U	ENIC TIS- R LVED E G/L (	ERYL- IUM, OTAL ECOV- RABLE UG/L S BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	DI SO (U	UM, S-	ADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- EKABLE (UG/L AS CR)	CHRO- MIUM. SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
MAR 09	1		0	1	0	0		0	2	0	2	10	10	0
DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPE TCTAI RECO ERABI (UG/	R, SU L PE V- RE LE ER L (U	NDED CO COV- D ABLE S G/L (	PPER, IS- OLVED UG/L S CU)	IRON, DIS- SOLVED (UG/L AS FE)	TO RE ER (U	AU, TAL CUV-	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
MAR 09	0		23	19	4	20		6	1	5	390	70	320	.6

<sup>&</sup>lt; Actual value is known to be less than the value shown.

## DREDGING OPERATIONS STUDY--Continued

# 293732091041100 BAYOU BLACK (AT MILE 21.0), 3.2 MILES SOUTHEAST OF AMELIA, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAT	ΤE	MERCU SUS PEND RECO ERAB (UG/ AS H	ED V- LE L	MERCU DIS SOLV (UG/ AS H	ED L	NICKEL TOTAL RECOV- ERABLI (UG/L AS NI	PE EF	CKEL, SUS- ENDED ECOV- RABLE JG/L	NICKEL DIS- SOLVEC (UG/L AS NI)	)	SELE- NIUM, TOTAL (UG/L AS SE	)	SELE- NIUM: SUS- PENDE TOTAL (UG/L AS SE		SELE- NIUM, DIS- SOLVEI (UG/L AS SE		ZINC+ TOTAL RECOV- ERABLE (UG/L AS ZN)		ZINC+ SUS- PENDE RECOV ERABLI (UG/L AS ZN	Ē	ZINC, DIS- SOLVEC (UG/L AS ZN:	D
MAR 09			.6		.0		3	3	(	0		1		1		)	20	)	1	0	10	0
	ĺ	DATE	TO (M	NIDE TAL G/L CN)		NOLS G/L)	OIL AND GREAS (MG/L	GRI IN TO SE TE	L AND EASE, OTAL BOT- M MA- RIAL G/KG)	TO	CB, TAL G/L)	LE P CH TO	PH- HA- NES+ OLY- LOR. TAL G/L)	TO	RIN, TAL G/L)	DAN		00 101 (UG	AL	DD TOT (UG	AL	
	M	AR 09		.00		2		0	• 0		• 0		.00		.00		• 0		.00		.00	
		DA	ŤΕ	DD TOT (UG		DI- AZINON TOTAL (UG/I	. 1	DI- ELDRIN FOTAL (UG/L)	ENDRIN TOTAL (UG/L		ETHION TOTAL (UG/I		HEPT CHLO TOTA (UG/	R.	HEPTA CHLOR EPOXIC TOTAL (UG/L	E E	LINDAN TOTAL (UG/L		MALA- THIOI TOTAI	٧,		
		MAR 09			.00		00	.00	• 0	0		00		00	. (	0	.0	0		00		
		DA	TE	PAR THI TOT	ON,	METH TRI THIO TOTAL (UG/	· ·	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L		TOX APHENI TOTA (UG/	E,	TOTA TRI THIO (UG/	N	2•4-0 TOTAL (UG/L		2,4,5- TOTAL (UG/L		SILVE TOTA (UG/	L		

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#### DREDGING OPERATIONS STUDY -- Continued

## 293730091040200 BAYOU BLACK (AT MILE 21.0), 3.3 MILES SOUTHEAST OF AMELIA, LA

DA	TE T	COI DUC ANG	FIC N- CT- CE F CRO-	PH INCOME	OXYO DEMA LOR CHE LAT ICA UM- (H) BALT LEVE	AND +  EM- HAP  AL NES  IGH (MO	SS NONG	SS, CALC CAR- DIS ATE SOI G/L (MC	CIUM SI S- DI LVED SOL	GNE- IUM, SOD: IS- DIS LVED SOLV G/L (MC MG) AS	S- /ED	
MAR 09		830	283	8.0	75	30	97	15	25	8.3 1	18	28
	DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE + DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS, SUSP. TUTAL, RESIDUE AT 110 DEG. C (MG/L)	SOLIDS, VOLA- TILE, SUS- PENDED (MG/L)	
	MAR 09	.8	3.4	100	0	82	15	27	34	34	11	
	DATE	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN; AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN+ AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN. ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHURUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	
	MAR 09	<1.0	•19	.01	•20	.23	.30	.74	.97	.12	.10	
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
MAR 09	1	0	1	0	0	0	3	1	2	20	10	10
DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON. DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD+ SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
MAR 09	0	9	2	7	30	4	4	0	50	0	50	• 0

<sup>&</sup>lt; Actual value is known to be less than the value shown.

#### DREDGING OPERATIONS STUDY--Continued

## 293730091040200 BAYOU BLACK (AT MILE 21.0), 3.3 MILES SOUTHEAST OF AMELIA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	RECOV ERABL (UG/L	PENDE RECOVE E ERABI	D NIC	S- NI LVED TO G/L (I	NELE- IUM: P DTAL T JG/L (	SUS- ENDED OTAL UG/L	NIUM, DIS- SOLVED (UG/L	DIUM. T DIS- R SOLVED E (UG/L (	ZINC, TOTAL RECOV- ERABLE (UG/L	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAR 09	.0	. (	)	1	1	0	0	0	0	• 0	20	10	10
	CARE		NIOS		0.11		NAPH- THA- LENES, POLY-		CHLOR				
DAT	ORGA TOT (MG	AL TO	G/L		OIL AND SREASE (MG/L)	PCB, TOTAL (UG/L)	CHLOR. TOTAL (UG/L)	ALDRIN TOTAL (UG/L	DANE . TOTAL	DDD.	DDE + TOTAL (UG/L	DDT TOTA (UG/	L
MAR 09.		7.6	.00	2	0	.0	.00	.00	0 .	0 .000	.00	.0	00

UATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION. TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	
MAR 09	.00	.000	.000	.000	.00	.000	.000	.000	.00	•00	
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX. TOTAL (UG/L)	PARA- THION. TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-0, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	
MAR 09	.00	.00	.00	.00	.00	0.0	.00	.09	.00	.01	

#### DREDGING OPERATIONS STUDY--Continued

## 293415090423000 BAYOU LACARPE AT HOUMA, LA

DAT	TI TE	CI CO DU AN ME (MI	E- FIC N- CT- CE CRO- OS)	PH (UNITS)	INCOM	JM- E	UR- BID- TY L	XYGEN DEMAND CHEM- ICAL (HIGH EVEL) (MG/L)	BOTT	IAL	HAR NES (MG AS	D- NE S NON /L BON	RD- SS, C CAR- ATE G/L CO3)	DIS- SOLVE (MG/L AS CA	DI ED SOL L (MG	UM, S- VED /L
JUL 25 25	06 10	30 30	353 349	7		30 30	4 0 4 0	3 (		2000		110 110	25 31	29 29		8.8 9.0
DAI	SODI DIS SOLV (MG	- ED /L SOD	IUM CENT	SODIUM AD- SORP- TION RATIO	SI DI SOL (MC	IS- BON LVED (A	AS	CAR- BONATE (MG/L AS CO3)	ALF LINI (MC AS	TY S/L	SULF DIS SOL (MG AS S	ATE RI - DI VED SO /L (M	LO- F DE, A S- C LVED	GOLIDS RESIDE AT 105 DEG. ( SUS- PENDER (MG/I	UE SUS 5 TOT C, RESI AT 1 D DEG	P. AL, DUE 10
JUL 25 25	2	9 5	36 33	1.0		2.8	102 96		0	84 79		9	39 37		35 45	35 45
	DATE	SOLIDS, VOLA- TILE IN BOTTOM MA- TERIAL (MG/KG)	SOLIE VOLA TILE SUS- PENDE	A- SI - I ED (I	ETTLE- ABLE MATTER ML/L/ HR)	NITRO- GEN+ NITRATE TOTAL (MG/L AS N)	GEN	TTE NO	NITRO- GEN, DZ+NO3 TOTAL (MG/L AS N)	AMM TO (M	TRO- EN; ONIA TAL G/L N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	GEN N TOTA	AL ACT.	NITRO- GEN; AMMONIA DIS- SOLVED (MG/L AS NH4)	
	JUL 25 25	95800 116000		31 41	<1.0 <1.0	.62		01	.61 .63		.01	.01 .01		•0	.01 .01	
	DATE	NITRO- GEN; ORGANIC TOTAL (MG/L AS N)	ORGAN	NIC MO S- OF VED	NITRO- EN,AM- DNIA + RGANIC TOTAL (MG/L AS N)	NITRO- GEN•NH4 • ORG. SUSP- TOTAL (MG/L AS N)	GEN .	AM- GI A + + NIC TO BO	NITRO- EN, NH4 ORG. DT IN DT MAT (MG/KG AS N)	TO (M	TRO- EN, TAL G/L N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS PHORU TOTA (MG/ AS F	JS, AL 'L	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	
	JUL 25 25	1.1 1.1	7	.53 .68	1.1 1.1	.56		,54 ,69	80 120		1.7	7.6 7.7		16	.04	
)ATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TCTAL (UG/L AS AS)	ARSEN DIS SOLV (UG/ AS A	NIC III	RSENIC TOTAL N BOT- DM MA- TERIAL (UG/G AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	SUS- PENDE RECO	- ( ED ( OV. 5	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	LI RE FM TOM TE	RYL- UM, COV. BOT- MA- RIAL G/G)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	PEND RECO ERAB (UG)	S- DED ( DV- BLE /L	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR
DL 25 25	3 4	0 2		3	19 17	1		0	1 1		10 10	1		0	1	1
DATE	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO MIUN RECO FM BO TOM M TERI (UG)	M, ! DV. ! DT- V/ MA- IAL	CHRO- MIUM, HEXA- ALENT, DIS. (UG/L AS CR)	COPPER TOTAL RECOV- ERABLE (UG/L AS CU)	PENL RECO ERAL (UG/	DED CO DV- 1 BLE 5	OPPER. DIS- SOLVED (UG/L AS CU)	FM TOM TE (U	PER, COV. BOT- MA- RIAL G/G CU)	IRON: DIS- SOLVED (UG/L AS FE)	LEAD TOTA RECC ERAB (UGA AS F	AL OV- BLE 'L	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVEI (UG/L AS PB
UL 25	10	0 10		50 120	0	18		15	3 2		290 380	20		24 18	24 18	(

## DREDGING OPERATIONS STUDY -- Continued

## 293415090423000 BAYOU LACARPE AT HOUMA, LA--Continued

DATE	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE + TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE+ DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECUV. FM BUT- TOM MA- TERIAL (UG/L AS HG)	NICKEL+ TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)
JUL 25 25	1300 1400	100 180	100 170	3 10	590 620	•1 •1	:1 :1	• 0	•2	11 7	10 7
DATE	NICKEL • DIS- SOLVED (UG/L AS NI)	NICKEL+ RECOV. FM BOT- TOM MA- TERIAL (UG/G AS NI)	SELE- NIUM+ TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC+ DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JUL 25 25	1 0	100	0	0	0	0	.0	200	170 40	30 5	540 560
DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	CYANIDE TOTAL IN BOT- TOM MA- TERIAL (UG/G AS CN)	PHENOLS	OIL AND GREASE (MG/L)	OIL AND GREASE, TOTAL IN BOT- TOM MA- TERIAL (MG/KG)	PCB+ TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES. POLY- CHLUR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JUL 25 25	12 12	.00	0	1	0	<u>•0</u>	•0	99 100	.00	.000	.0
DATE	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD+ TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE + TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT+ TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN TOTAL (UG/L)
JUL 25 25	• 0	9 25	.000	1.5	.000	.0	.000	• 0	.01	.4	.001
DATE	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN+ TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)
JUL 25 25	.0	.000	.000	•0	•00	•0	.000	1.7	.000	.0	.000

#### DREDGING OPERATIONS STUDY -- Continued

## 293415090423000 BAYOU LACARPE AT HOUMA, LA--Continued

DATE	LIND TOT IN B TOM TER (UG/	AL OT- MA- IAL	MALA- THION TOTAL (UG/I	N, TOM L TER	ON, AL OT- MA- IAL	METH- OXY- CHLOR, TOTAL (UG/L)	PAR THI TOT	ON,	METHY PARA THIC TOT. BOTT MAT	IN TOM T	ETHYL TRI- HION, OTAL UG/L)	MET TR THI TOT. BOT MA (UG/	I- ON, IN TOM M	IREX. TOTAL UG/L)	PAR THI TOT	ON, I	PARA- THION, TOTAL N BOT- TOM MA- TERIAL (UG/KG)
JUL 25		.0		00	.0	.00		.00		.0	.00		.0	.00		.00	.0
25		.0		00	.0	.00		.00		• 0	.00		.0	•00		.00	.0
,	DATE	PE THA TOT (UG	NE AL	TOX- APHENE, TOTAL (UG/L)	TOX PHE TOT IN B TOM TER (UG/	NE, AL OT- T MA- IAL T	OTAL TRI- THION (UG/L)	TH TO IN TOM TE	RI- ION, TAL BOT- MA- RIAL /KG)	2•4-0 TOTAL (UG/L	. T(	++5-T )TAL )G/L)	SILVEX TOTAL (UG/L	PHY PL, T( CHR)	OR-A YTO- ANK- ON OMO OROM G/L)	CHLOR PHYT PLAN TON CHRON FLUOR (UG)	TO- NK- N NO ROM
	DL 25			0.0		0	.00		• 0	• 0		.00	.0				000

#### DREDGING OPERATIONS STUDY--Continued

# 292928090414200 BAYOU GRAND CAILLOU 5.3 MILES NORTH NORTHEAST OF BOUDREAUX, LA

DAT		IME	SPE- CIFI CON- DUC ANCE (MICE MHOS	IC - T- E RO-	P (UNI	H 1	NU	AT- TU M- BI ALT II	JR- ID- IY	OXYG DEMA CHE ICA (HI LEVE (MG/	ND • M- L GH L)	C.O. TOT IN BOTT MA TERI (MG/	AL OM AL	HAR NES (MG AS CAC	D- NE S NON /L BON	RU- SS, CAR- ATE G/L CO3)	CALC DIS SOL (MG AS	IUM 51 - D1 VED 50L /L (MG	SNE- UM+ S- VED S/L MG)
JUL 25. 25.		700		396 397		7.4 7.1		40 30	40 40		47 48		000		110 110	24 25		9	9.8 9.5
DAT	SOD: DIS SOLV (MC	6- /ED 6/L	SODI		SOD A SOR TI RAT	D- P- ON S IO	SI	VED (MO	ATE S/L AS	CAR BONA (MG AS C	TE /L	ALK LINI (MG AS CAC	TY /L	SULF DIS SOL (MG AS S	ATE RI - DI VED SO /L (M	LU- DE, S- LVED G/L CL)	SOLI RESI AT 1 DEG. SUS PEND (MG	DUE SUS 05 TOT C, REST - AT I ED DEC	AL . IDUE
JUL 25. 25.		36 35		4 0 4 0		1.5		2.7	108 105		0		89 86	2		51 52		48	48 45
	DATE	TILE BOTT MA TER	IN	TIL SUS PEND	A- E,	SETTLE ABLE MATTE (ML/L/ HR)	R	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NIT TO (M	TRO- EN, RITE TAL G/L N)	NO2 TO	TRO- EN+ +NO3 TAL IG/L N)	G AMM TO (M	TRO- EN• ONIA TAL G/L N)	NITRO- GEN• AMMONIA DIS- SOLVED (MG/L AS N)	GEN TO IN	TRO- N,NH4 OTAL BOT. MAT. G/KG	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	
	JUL 25 25		5000		43 35	<1 . <1.		.24		.01		•25 •26		.01	.01		•0	.01	
	DATE	ORGA TO	TRO- EN. ANIC TAL G/L N)	ORGA DI SOL (MC	TRO- EN, ANIC IS- LVED G/L N)	NITRO GEN•AN MONIA ORGAN TOTAN (MG/N	1- + 1 C	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	GEN MON ORG DI	TRU- ,AM- IA + ANIC S. G/L N)	GEN + C TOT BOT (M	TRO- INH4 ORG. IN MAT MG/KG	TO	TRO- EN; TAL IG/L	NITRO- GEN, TOTAL (MG/L AS NO3)	PHO TO	HOS- DRUS, DTAL MG/L S P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	
	JUL 25 25		1.1		.65 .69	1.		.44		.66		20		1.4	6.0 6.5		.18	.05 .16	
DATE	ARSENIC TOTAL (UG/L AS AS)	PEI TO	ENIC US- NDED TAL G/L AS)	SOL (UC	ENIC IS- LVED G/L AS)	ARSEN TOTAL IN BO TOM M TERI (UG/ AS AS	- AL	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	RE (U	M, S-	DI SC (L	RYL- UM, S- OLVED JG/L BE)	FM TOM TE	RYL- UM, COV. BOT- MA- RIAL	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	PI RI Ei	OMIUM SUS- ENDED ECOV- RABLE UG/L S CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
JUL 25 25	4 3		2		2		13	1		0		1		10 10	1		0	1	10 10
DATE	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	MI DI SO (U	RO- UM, S- LVED G/L CR)	FM E	RO- UM, COV. BOT- MA- RIAL G/G)	CHRO MIUM HEXA VALEN DIS (UG/ AS C	, T,	COPPER • TOTAL RECOV- ERABLE (UG/L AS CU)	PE RE ER	PER, S- NDED COV- ABLE G/L CU)	D1	PPER.	FM TON TE	PPER, COV. BOT- MA- ERIAL JG/G CU)	IRON, DIS- SOLVEI (UG/L AS FE	RI RI (I	EAD, OTAL ECOV- RABLE UG/L S PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)
JUL 25 25	lo o nl value i		0 10		10		0	15		12		3 4		160 200	1 2		23	23	0 3

#### DREDGING OPERATIONS STUDY -- Continued

# 292928090414200 BAYOU GRAND CAILLOU 5.3 MILES NORTH NORTHEAST OF BOUDREAUX, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD+ RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	NICKEL+ TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL+ SUS- PENDED RECOV- ERABLE (UG/L AS NI)
JUL 25 25	100 150	240 190	160 120	80 70	670 750	•1 •1	:1 :1	• 0	.1 .1	9	6 1
DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	NICKEL+ RECOV. FM BOT- TOM MA- TERIAL (UG/G AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SELE- NIUM: TOTAL IN BOT- TOM MA- TERIAL (UG/G)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC+ TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC. SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC+ DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JUL 25 25	3	140 120	0	0	0	0	• 0	50 30	40 20	8 10	110 100
DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	CYANIDE TOTAL IN BOT- TOM MA- TERIAL (UG/G AS CN)	PHENOLS	OIL AND GREASE (MG/L)	OIL AND GREASE, TOTAL IN BOT- TOM MA- TERIAL (MG/KG)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN. TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JUL 25 25	11 10	.00	0	2 2	0	.0	.0	5 6	.00	.000	.0
DATE	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD. TOTAL (UG/L)	DDD+ TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE + TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINUN, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN TOTAL (UG/L)
JUL 25 25	•0	9	.000	1.3	.000	• 0	.000	.0	.00	.6	.000
DATE	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN. TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION+ TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)
JUL 25 25	.0	.000	.000	.3	.00	.0	.000	.0	.000	.0	.000

## DREDGING OPERATIONS STUDY--Continued

# 292928090414200 BAYOU GRAND CAILLOU 5.3 MILES NORTH NORTHEAST OF BOUDREAUX, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LIND TOTA IN BO TOM I TER (UG/I	AL DT- MA- IAL	MALA- THION, TOTAL (UG/L)	MAL THI TOT IN B TOM TER (UG/	ON, AL OT- MA- IAL	METH- OXY- CHLOF TOTAL (UG/L	PAF R, THI	THYL RA- ION, TAL	METH PAR THI TOT. BOT MA (UG/	A- ON, I IN TOM TL.	METHY TRI- THION TOTAL (UG/L	TR L THI TOT. BOT	IN TOM M	IREX, TOTAL UG/L)	PAR THI TOT (UG	ON, AL	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JUL		0	0.0		0	,	20	0.0		0	. (	10	.0	•00		.00	.5
25		.0	.00		.0		00	.00		.0	. (		.0	.00		.00	1.1
a.	JATE	PEI THA TOT (UG	NE AP	TOX- HENE, OTAL UG/L)	TOXA PHEN TOTA IN BO TOM N TER:	IE . IT - IA -	TOTAL THI- THION (UG/L)	TH TO IN TOM TE	RI- ION, TAL BOT- MA- RIAL /KG)	2,4- TOTA (UG/		2,4,5-T TOTAL (UG/L)	SILVEX TOTAL (UG/L	PH PL T CHR	OR-A YTO- ANK- ON OMO OROM G/L)	PLA TO CHRO	YTO- ANK- ON
	25		.00	0.0		0	.00		.0		16	.02	.0		.0	p.	.000

#### DREDGING OPERATIONS STUDY -- Continued

# 292720090421400 BAYOU GRAND CAILLOU 2.3 MILES NORTH OF BOUDREAUX, LA WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DA.	TE TI	SPE CIF CON DUC ANC ME (MIC MHO	IC I- I- E P	H INC		TY LEVE	AND, TOTAL BOTT	TAL N HAF TOM NES L- (MC	S NONC	S, CALC AR- DIS TE SOL /L (MG	VED SOL	UM• S= VED /L
	08		422 422	7.3 7.5	4 0 4 0	35 35		0000	120 110		9 1	
	DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	
	JUL 25 25	36 37	40 41	1.5 1.5	3.0 2.9	106 106	0	87 87	27 27	58 58	51 38	
	DATE	SOLIDS, VOLA- TILE IN BOTTOM MA- TERIAL (MG/KG)	SOLIDS, VOLA- TILE, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N)	NITRO- GEN; AMMONIA DIS- SOLVED (MG/L AS NH4)	
	JUL 25 25	131000 131000	43 38	<1.0 <1.0	.60 .54	.05	.65 .59	.04	.01 .00	• 0	.01 .00	
	DATE	NITRO- GEN. ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN•NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN:AM- MONIA + ORGANIC DIS: (MG/L AS N)	NITRO- GEN•NH4 + ORG. TOT IN BOT MAT (MG/KG AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN. TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	
	JUL 25 25	.94 1.1	.68 .68	.98 1.1	.29	.69	94 120	1.6	7.2 7.5	.16 .16	.05	
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BERYL- LIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM. TOTAL RECOV- ERABLE (UG/L AS CR)
JUL 25 25	4	2	2 2	10 10	1	0	1	100	1	0	1	10 10
DATE	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM. DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER+ TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD+ DIS- SOLVED (UG/L AS PB)
JUL 25 25	10	0	9	0	8	5	3		20 10	8 7	5 4	3 3

<sup>&</sup>lt; Actual value is known to be less than the value shown.

#### DREDGING OPERATIONS STUDY--Continued

# 292720090421400 BAYOU GRAND CAILLOU 2.3 MILES NORTH OF BOUDREAUX, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	NES TOT REC EHA		MANGA- NESE: SUS- PENDED RECOV: (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	FM BO TOM M TERI	, ME V. T- E A- E	ERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	TOM MA- TERIAL (UG/L	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)
JUL 25 25	100		110 130	80 120	30		80	.1	.1	.0		6 7	3 4
DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	TOM TER	OV.	SELE- NIUM+ TOTAL (UG/L AS SE)	SELE- NIUM; SUS- PENDED TOTAL (UG/L AS SE)	SOL V	- II	SELE- NIUM, TOTAL N BOT- OM MA- TERIAL (UG/G)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC; TOTAL RECOV- ERABLE (UG/L AS ZN)	ERABLE (UG/L	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JUL 25 25	3 3		100 100	0	0	)	0	0	• 0	40 20			90 80
DATE	CARBON ORGANI TOTAL (MG/L AS C)	TO (M	NIDE TAL G/L CN)	CYANIDE TOTAL IN BOT- TOM MA- TERIAL (UG/G AS CN)	PHENOL!	GRE	G I D T ASE T	OIL AND GREASE, TOTAL N BOT- OM MA- ERIAL MG/KG)		PCB+ TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	- CHLOR.	ALDRIN, TOTAL	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JUL 25 25	11		.00	0		4	0	• 0	.0	12	2 .00		.0
DATE	CHLORDANE, TOTAL (UG/L	DAI TO IN I TOM TEI	LOR- NE, TAL BOT- MA- RIAL /KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT TOM MA TERIAL (UG/KG	- DDE	I E, T	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT.	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL	TERIAL	DI- ELDRIN TOTAL
JUL 25 25	:	0	11	.000			000	.0	.000		0 .01		
(	I	DI- LDRIN, TOTAL N BOT- DM MA- TERIAL UG/KG)	SUL	TAL TO	DRIN, T	NDRIN, TOTAL N BOT- OM MA- TERIAL UG/KG)	ETHIC TOTA (UG/	IN TO	M MA- CERIAL T	EPTA- II HLOR, TO	N BOT- COM MA- EP	HEPTA- EF	EPTA- HLOR OXIDE T. IN OTTOM MATL. G/KG)
i	UL 25 25	.0		.000	.000	.0		.00	•0	.000	• 0	.000	• 0

### DREDGING OPERATIONS STUDY -- Continued

## 292720090421400 BAYOU GRAND CAILLOU 2.3 MILES NORTH OF BOUDREAUX, LA--Continued

DATE	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX. TOTAL (UG/L)
JUL 25 25	.000	• 0	.00	• 0	.00	•00	• 0	.00	• 0	.00
DATE	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-U, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JuL 25 25	.00	•4	.00	0.0	0	.00	• 0	.87 1.4	.01	.05

### DREDGING OPERATIONS STUDY--Continued

## 292522090415800 BAYOU GRAND CAILLOU 0.6 MILE NORTH OF BOUDREAUX, LA

DAT		IME	SPE CIF CON DUC ANC (MIC MHO	IC - T- E RO-	PH NITS)	INL	AT- TI	UR- ID- TY	OXYGE DEMAI CHEI ICAL (HIC LEVEL	ND, M- L GH	C.O. TOT IN BOTT MA TERI (MG/	AL OM AL	HAR NES (MG AS CAC	D- NO	HARD- NESS ONCAL ONATI (MG/I	CALC R- DIS- E SOL L (MG	IUM SI - DI VED SOL /L (MG	NE- UM, S- VED VL MG)
JUL 25 25		330 230		418 414	7.3 7.3		40 30	40 30		49 55	120 110			110 110		22 2 25 2		9.6 9.7
DAT		5-	SODI PERC	S UM R	ODIUM AD- ORP- TION ATIO	SI	6/L	ATE G/L AS	CAR- BONA (MG,	TE /L	ALK LINI (MG AS CAC	TY /L	SULF DIS SOL (MG AS S	ATE F VED S	CHLO- RIDE DIS- SOLVI (MG/	DEG. ED SUS	DUE SUS 05 TOT C+ RESI - AT I ED DEG	AL, DUE
JUL 25. 25.	:::	36 37		41 41	1.5		2.9	107 107		0		88 88	2		58 57		41 46	41 46
	DATE	VO TIL BOT M TE	ICS, LA- E IN TOM A- RIAL /KG)	SOLIDS VOLA- TILE, SUS- PENDED (MG/L	SET MA (ML	TLE- BLE TTER ./L/	NITRO- GEN* NITRATE TOTAL (MG/L AS N)	NIT GE NITR TOT (MG AS	N, ITE AL /L		AL /L	AMM TO (M	TRO- EN, ONIA TAL G/L N)	NITRO GENE AMMONI DIS- SOLVE (MG/L AS NI	IA - ED	NITRO- GEN•NH4 TOTAL IN BOT• MAT• (MG/KG AS N)	NITRO- GEN; AMMONIA DIS- SOLVED (MG/L AS NH4)	
	JUL 25 25		5000 1000	4	1 3	<1.0 <1.0	.35 .31		.05		.40 .36		.03		02	•0	.03	
	DATE	ORG TO (M	TRO- EN. ANIC TAL G/L N)	NITRO GEN, ORGANI DIS- SOLVE (MG/L AS N)	C MONORGO TO	TRO- IIA + IANIC TAL IG/L	NITRO- GEN•NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NIT GEN, MONI ORGA DIS (MG	AM- A + NIC	GEN+ + OR TOT BOT	IN MAT KG	TO (M	TRO- EN+ TAL G/L N)	NITRO GENE TOTAL (MG/L AS NO		PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	
	JUL 25 25		1.6	•7		1.6	.86 .14		.74 .85	16 17			2.0	8.9		.17 .16	.05	
DATE	ARSENIC TOTAL (UG/L AS AS)	PE TO (U	SENIC SUS- INDED TAL IG/L (AS)	ARSENI DIS- SOLVE (UG/L AS AS	C IN TO	BENIC BOT- BOT- M MA- ERIAL JG/G S AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	LIUM SUS PEND REC	ED OV.	DIS SOL	RYL- JM, S- LVED G/L BE)	FM TOM TE	RYL- UM, COV. BOT- I MA- RIAL	CADMI TOTA RECO ERAB (UG/ AS C	L V- LE L	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
JUL 25 25	3 4		1 2		2	12	1 1		0		1		0 10		1	0	1	10 10
DATE	CHRO- MIUM+ SUS- PENDED RECOV+ (UG/L AS CR)	MI DI SC	RO- IUM, IS- DLVED IG/L IG CR)	CHRO- MIUMA RECOV FM BOT TOM MA TERIA (UG/C	/• HI	HRO- IUM, EXA- LENT, DIS. JG/L G CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	PEN REC ERA (UG	DED	(00	PER, S- LVED G/L CU)	FM TOM TE	PPER. COV. BOT- MA- RIAL JG/G CU)	IRON DIS SOLV (UG/ AS F	ED L	LEAD+ TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD. DIS- SOLVED (UG/L AS PB)
JUL 25 25	10		10	1	7	0	9		6		3		410 230		20 20	9	8 5	1 2

<sup>&</sup>lt; Actual value is known to be less than the value shown.

### DREDGING OPERATIONS STUDY--Continued

## 292522090415800 BAYOU GRAND CAILLOU 0.6 MILE NORTH OF BOUDREAUX, LA--Continued

DATE	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE; DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL+ SUS- PENDED RECOV- ERABLE (UG/L AS NI)
JUL 25 25	150 150	150 140	140 140	6	340 320	1.0	.0	.0	•1 •1	5 5	2
DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	NICKEL+ RECOV+ FM BOT- TOM MA- TERIAL (UG/G AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC+ SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC+ DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JUL 25 25	3 2	140 120	0	0	0	0	.0	40 20	20 20	20 5	90 80
DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	CYANIDE TOTAL IN BOT- TOM MA- TERIAL (UG/G AS CN)	PHENOLS	OIL AND GREASE (MG/L)	OIL AND GREASE, TOTAL IN BOT- TOM MA- TERIAL (MG/KG)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN. TOTAL (UG/L)	ALDRIN+ TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JUL 25 25	13 9.9	.00	0	3	0	• 0	.0	130 150	.00	.00	.0
DATE	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD+ TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN TOTAL (UG/L)
JUL 25 25	•0	11 14	•00	8.7 7.6	.00	• 0	.00	.0	.40	.0	.00
DATE	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION+ TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR. TOTAL (UG/L)	HEPTA- CHLOR; TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)
JUL 25 25	.0	.00	.00	.0	.00	• 0	•00	.0	.00	.0	•00

#### DREDGING OPERATIONS STUDY -- Continued

### 292522090415800 BAYOU GRAND CAILLOU 0.6 MILE NORTH OF BOUDREAUX, LA--Continued

DATE	LIND TOT IN B TOM TEK (UG/	AL OT- MA- IAL	MALA- THION, TOTAL (UG/L)	MALA THIC TOTA IN BO TOM M TERI (UG/K	ON, AL MEI OT - OX MA - CHL (AL TOI	OR, TH	THYL RA- ION, TAL G/L)	METHY PARA THIO TOT. BOTT MAT (UG/K	N, ME IN T OM TH L. TO	THYL RI- ION, TAL	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIRE TO	TAL TO	RA- ION, TAL G/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JUL 25 25		•0	.00		• 0	•00	.00		• 0	.00	• 0		.00	.00	•5 •0
D	)ATE	PER- THAN TOTAL (UG/L	E APH	OX- IENE + ITAL IG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TH TO IN TOM TE	RI- ION, TAL BUT- MA- RIAL /KG)	2,4-D, TOTAL (UG/L)	TOT	AL TO	VEX,	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PH PL TO CHRI	OR-B YTO- ANK- ON OMO OROM G/L)
	JL 25		00	0	0	.00		.0	23		.05	.00	21.9		.000

#### DREDGING OPERATIONS STUDY--Continued

### 292247090425600 BAYOU GRAND CAILLOU 0.8 MILE SOUTH OF DULAC, LA

	DATE	T	IME	SPE CIF CON DUC AND (MIC MHC	1C T- E R0-	PH (UNI)	+ I	OLOR PLAT- NUM- OBAL	- T B T I	UR- ID- TY TU)	OXYG DEMA CHE ICA (HI LEVE (MG/	M- L GH	BOT MA TER	TAL N TOM A-	NE:	3/L	HAR NES NONC BONA (MG CAC	S. AR-	(MC	VED	MAG SI DI SOL (MG AS	UM, S- VED /L	
	UL 25 25		900		744 751		7.2	3		25 30		53 30		8000		150 160		61 66		34 34	1		
		ATE L	SOL (M		SOD: PERO		SODIU AD- SORP- TION RATIO		POTAS- SIUM, DIS- SOLVED (MG/L AS K)	B01	CAR- NATE MG/L AS CO3)	BO	AR- NATE NG/L CO3)	LIN (M	KA- ITY G/L S CO3)	DI SO	FATE S- LVED G/L S04)	DIS SOI (M)		SOLI SUS TOT RESI AT 1 DEG	AL, DUE 10		
	2	5		82 88		53 54	2.		4.8 4.8		110 109		0		90 89		48 47		4 0 4 0		15 >0		
	D	ATE	VC TIL BOT M TE	IDS, LA- E IN TOM A- RIAL /KG)	SOL: VOI TII SUS PENI (MC	.A- .E,	SETTLE ABLE MATTE (ML/L/ HR)	R N	NITRO- GEN, ITRATE TOTAL (MG/L AS N)	NI T	ITRO- GEN, TRITE OTAL MG/L S N)	NO2	(TRO- GEN, 2+NO3 OTAL 4G/L 6 N)	AMM TO (M	TRO- EN; ONIA TAL G/L N)	AMMI D SOI (M	TRO- EN' ONIA IS- LVED G/L N'	GEN.	AT.	GE AMMO D I	S- VED /L		
		5 5		7000 1000		15 20	<1.		.38		.04		.42		.43		.51 .43		5.1		.66 .55		
	D	ATE	ORG TO (M	TRO- EN, ANIC TAL G/L N)	ORGA D I	S- VED	NITRO GEN,AM MONIA ORGANI TOTAL (MG/L AS N)	- GE	NITRO- EN.NH4 ORG. GUSP. FOTAL (MG/L	MON ORG	ITRO- N,AM- NIA + GANIC IS. MG/L	GEN + 0 TOT BOT (M	TRO- N,NH4 DRG. IN MAT MG/KG	TO (M	TRO- EN, TAL G/L N)	TO:	TRO- EN, TAL 3/L NO3)	PHOP PHOP TOT (MG	AL S/L	PHOPHOR DIS SOL (MG AS	VED /L		
		5		1.3		•6 •77	1.7		.50		2.1		46		2.1	•	9.2		.18		.06		
DATE	ARSE TOT (UG AS	AL	TOT (UG	DED AL	ARSE DI SOL (UG AS	VED	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	L T R E (	ERYL- IUM, OTAL ECOV- RABLE UG/L S BE)	PEN RE (U	M, S-	DI	RYL- UM, S- LVED G/L BE)	REC FM B TOM TER	OV.	CADM TOT REC ERA (UG AS	AL OV- BLE /L	CADM SU PEN REC ERA (UG AS	S- DED OV- BLE /L	CADM: DIS SOLV (UG/ AS	ED L	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	
UL 25 25		3		0		3	11		1		0		1		0		1		0		1	10	
D	ATE	CHRO MIUM SUS PEND RECO (UG/ AS (	OED OV.	CHRO MIUM DIS- SOLV (UG/ AS C	/EU	CHRO- MIUM RECOV TM BOT TERIA (UG/O	/. HE - VAL A- C AL (U	RO- UM, XA- ENT, IS.	COPP TOT RECE ERA (UG.	AL OV- BLE /L	COPPE SUS- PEND RECO ERAB (UG/ AS C	ED V-	COPPI DIS- SOL' (UG.	ER, VED	COPPI RECO FM BO TOM I TER (UG.	OV. OT- MA- IAL	IRON DIS SOLV (UG/ AS F	ED L	LEAD TOTA RECO ERAB (UG/AS F	AL OV- BLE 'L	LEAD SUS PEND RECO ERAB (UG/ AS P	ED V- LE L	
JUI 25			10		0		8	0		9 12		7 8		2 4		320		0 40		9		9 13	

<sup>&</sup>lt; Actual value is known to be less than the value shown.

#### DREDGING OPERATIONS STUDY -- Continued

## 292247090425600 BAYOU GRAND CAILLOU 0.8 MILE SOUTH OF DULAC, LA -Continued

DATE	LEAD. DIS- SOLVED (UG/L AS PB)	RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE + TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE; SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	PENDED RECOV- ERABLE (UG/L	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	NICKEL+ TOTAL RECOV- ERABLE (UG/L AS NI)
JUL 25 25	0	150 310	260 260	160 140	100 120	300 320	• 0		.0	.1	6 9
DATE	NICKEL+ SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ERABLE (UG/L	ZINC+ SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC+ DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JUL 25 25	4	2	120 100	0	0	0	(		30 90	10 10	90 100
DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	CYANIDE TOTAL IN BOT- TOM MA- TERIAL (UG/G AS CN)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	UIL AND GREASE, TOTAL IN BOT- TOM MA- TERIAL (MG/KG)	PCB, TOTAL (UG/L)	PCB. TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLUR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JUL 25 25	8.9 9.6	.00	0	1	0	.0	• (			.00	.0
DATE	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE • TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD+ TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE + TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT+ TOTAL (UG/L	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	AZINON,	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN TOTAL (UG/L)
JUL 25 25	.0	5	.00	4.2 3.8	.00	.0	.00			.0	.00
C	ELC TO IN TOM TE	MA- SU	OTAL TO	IN I	RIAL TO	IN TO	M MA-	HEPTA- IN CHLOR, TO TOTAL T	M MA- EPO	EPTA- EPO HLOR TO DXIDE BO DTAL	EPTA- HLOR DXIDE I. IN DTTOM MATL. 6/KG)
	5	.0	•00	.00	• 0	.00	.0	.00	.0	.00	.0

#### DREDGING OPERATIONS STUDY -- Continued

### 292247090425600 BAYOU GRAND CAILLOU 0.8 MILE SOUTH OF DULAC, LA--Continued

		LINDANE		MALA- THION,			METHYL PARA-		METHYL TRI-		
		TOTAL		TOTAL	METH-	METHYL	THION,	METHYL	THION,		
		IN BOT-	MALA-	IN BOT-	OXY-	PARA-	TOT. IN	TRI-	TOT. IN		
	LINDANE	TOM MA-	THION,	TOM MA-	CHLOR,	THION,	BOTTOM	THION,	BOTTOM	MIREX,	
	TOTAL	TERIAL	TOTAL	TERIAL	TOTAL	TOTAL	MATL.	TOTAL	MATL.	TOTAL	
DATE	(UG/L)	(UG/KG)	(UG/L)	(UG/KG)	(UG/L)	(UG/L)	(UG/KG)	(UG/L)	(UG/KG)	(UG/L)	
JUL											
25	.00	.0	.00	. 0	.00	.00	. 0	.00	.0	.00	
25	.00	.0	.00	.0	.00	.00	. 0	.00	. 0	.00	
		PARA- THION, TOTAL			TOXA- PHENE • TOTAL		TRI- THION, TUTAL				
	PARA-	IN BUT-	DED-	TOX-	IN BOT-	TOTAL	IN BOT-				
	THION,	TOM MA-	PER- THANE	APHENE .	TOM MA-	TRI-	TOM MA-	2,4-0,	2,4,5-T	SILVEX.	
	TCTAL	TERIAL	TOTAL	TOTAL	TERIAL	THION	TERIAL	TOTAL	TOTAL	TOTAL	
CATC					(UG/KG)	(UG/L)	(UG/KG)	(UG/L)	(UG/L)	(UG/L)	
DATE	(UG/L)	(UG/KG)	(UG/L)	(UG/L)	(06/86)	(00/L)	(00/10)	100/2/	(OG/L)	(00/L/	
JUL											
25	.00	. 0	.00	0	0	.00	. 0	.13	.00	.05	
25	.00	. 0	.00	0	0	.00	. 0	.08	.01	.06	

#### DREDGING OPERATIONS STUDY--Continued

292221089181300 BAPTISTE COLLETTE BAYOU AT MILE 7.4, NEAR VENICE, LA
WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DA	TE.	TIM	1E	SPE CIF CON DUC ANC (MIC MHO	IC - T- E RO-	PI		COL (PL INU COB UNI	AT- M- ALT	TUR- BID- ITY (JTU)	DE C I	YGEN MAND, CHEM- ICAL (HIGH EVEL)	HAR NES (MG	S/L	HAR NES NONC BONA (MG.	S, AR- TE /L	CALCIU DIS- SOLVE (MG/L AS CA	M S D S (M	AGNE- SIUM, DIS- DLVED MG/L S MG)	SODI DIS SOLV (MG	ED /L
JAN 10		124	0		500		7.8		15	8	0	47		150		53	40		13	3	6
DA	TE	SODIC		SOD A SOR TI RAT	D- P- ON	POT SI DI SOL (MG	UM, S- VED	BICA BONA (MG A HCO	TE /L S	CAR- BONATE (MG/L AS CO3	LI	ALKA- INITY (MG/L AS (ACO3)	(MG	VED	CHL RID DIS SOL (MG AS	E• VED /L	SOLIUS RESIDU AT 105 DEG. C SUS- PENDED (MG/L	F SL TO RES	JDS. JSP. DTAL, SIDUE 110 EG. C	SOLI VOL TIL SUS PEND (MG	A- E,
JAN 10			33		1.3		3.9		118		0	97	4	9	5	8	26	7	267		45
DA	<b>ATE</b>	SETTL ABL MATT (ML/L HR)	E ER	NIT GE NITR TOT (MG AS	N. ATE AL /L	NIT GE NITR TOT (MG AS	N. ITE AL /L	NIT GE NO2* TOT (MG	N+ NO3 AL /L	NITRO GEN, AMMONI TOTAL (MG/L AS N)	A OF	NITRO- GEN, RGANIC TOTAL (MG/L	GEN:	ANIC	NIT GE TOT (MG AS	N. AL /L	NITRO GEN, TOTAL (MG/L AS NO3	PHO TO	HOS- DRUS, DTAL MG/L S P)	PHOPHOR DIS SOL	VED
JAN 10		<1	.0	1	. 9		.05	1	.9	.2	0	1.0	1	.2	3	.1	14		.34		.08
DATE	TO	ENIC TAL G/L AS)	PEI TO	ENIC US- NDED TAL G/L AS)	SOI	ENIC IS- LVED G/L AS)	TOT REC ERA (UG	AL OV- BLE	BERY LIUM SUS PEND REC (UG AS	ED OV.	BERYL LIUM: DIS- SOLVE (UG/L AS BE	R ED E	DMIUM OTAL ECOV- RABLE UG/L (S CD)	PE RE EF	OMIUM GUS- ENDED ECOV- RABLE JG/L G CD)	50 (U	MIUM IS- LVED	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	PE RE	HRO- IUM, SUS- ENDED ECOV. JG/L S CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
JAN 10		3		2		1		0		0		0	2		0		2	20	0	20	0
DATE	MI HE VAL	RO- UM. XA- ENT. IS. IG/L CR)	TO RE	PER, TAL COV- ABLE G/L CU)	PE RE ER (U	PER, S- NDED COV- ABLE G/L CU)	(UG	- VED	(UG	N. S- VED	LEAD TOTAL RECOVERABLE	, /- R -E E	EAD, SUS- PENDED RECOV- RABLE UG/L IS PB)	S(	EAD+ DIS- DLVED JG/L S PB)	NE TO	SE . TAL COV- ABLE	MANGA- NESE, SUS- PENDEE RECOV (UG/L AS MN)	MA NE D (	ANGA- ESE, DIS- DLVED JG/L S MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
JAN 10		0		16		8		8		50	1	16	16		0		460	400	0	60	.0
DATE	PE RE ER (U	CURY US- NDED COV- ABLE G/L HG)	50 (U	CURY IS- LVED G/L HG)	TO RE ER (U	KEL, TAL COV- ABLE G/L NI)	PEN REC ERA (UG	IDED OV-	(U	VED	SELE- NIUM TOTAL (UG/L AS SE	, P	SELE- NIUM, SUS- PENDED TOTAL SUG/L SS SE)	NI SC	ELE- IUM. DIS- DLVED JG/L S SE)	DI SO (U	NA- UM, DIS- DLVED UG/L S V)	ZINC. TOTAL RECOVERABLE (UG/L AS ZN	PE EF	INC, SUS- ENDED ECOV- RABLE JG/L S ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
JAN 10		.0		.0		24		19		5		1	1		0		•5	6	0	50	10
< Actual	l valu	ie is k	nown	to be	less	than t	the va	lue s	hown.												

### DREDGING OPERATIONS STUDY--Continued

#### 292221089181300 BAPTISTE COLLETTE BAYOU AT MILE 7.4, NEAR VENICE, LA--Continued

DATE	CARBON+ ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB+ TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN. TOTAL (UG/L)	CHLOR- DANE + TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	
JAN 10	6.5	.00	0	0	•0	.00	.000	.0	.000	.000	.003	

DATE	DI- AZINON• TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN. TOTAL (UG/L)	ETHION. TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	
JAN 10	.01	.003	.000	.003	.00	.000	.002	.000	.00	.00	
	METHYL PARA- THION,	METHYL TRI- THION,	MIREX,	PARA- THION,	PER- THANE	TOX- APHENE,	TOTAL TRI-	2,4-0,	2,4,5-1	SILVEX,	
DATE	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	THION (UG/L)	TOTAL (UG/L)	(UG/L)	TOTAL (UG/L)	
JAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	06	0.1	0.1	

#### DREDGING OPERATIONS STUDY--Continued

# 292219089181300 BAPTISTE COLLETTE BAYOU AT MILE 7.3, NEAR VENICE, LA WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

D.A	TE	ті	ME	SPE CIF CON- DUC ANCI (MICI MHO	IC - T- E RO-	PH (UNIT		COLOR (PLAT- INUM- COBALT JNITS)	8	UR- ID- TY TU)	OXYG DEMA CHE ICA (HI LEVE (MG/	M- L GH	HARI NES (MG AS CAC	S /L	HARI NESS NONCA BONAT (MGA CACO	AR- TE	CALCIU DIS- SOLVE (MG/L AS CA	IM S ID SO	AGNE- SIUM, DIS- DLVED MG/L S MG)	SODI DIS SOLV (MG AS	ED /L
JAN 10		12	25		452	7	.9	15	5	65		48		160		59	41		13	2	8
	TE.	SODI PERC		SOD A SOR TI RAT	D- P- ON	POTA SIU DIS SOLV (MG/ AS K	M, B.	ICAR- DNATE (MG/L AS HCO3)	BON	R- ATE G/L CO3)		TY	SULF DIS SOL (MG AS S	VED /L	CHLC RIDE DIS- SOLV (MG/ AS (	/ED	SOLIDS RESIDU AT 165 DEG. C SUS- PENDED (MG/L	RES	IDS, USP. OTAL, SIDUE 110 EG. C	SOL I VOL TIL SUS PEND (MG	A- E, - ED
JAN 10			28		1.0	3	.6	118	3	0		97	5	0	45	5	12	29	129		39
DA	TE.	SETT AB MAT (ML/	LE TER L/	NITE GEI NITE TOT (MG.	N, ATE AL /L	NITR GEN NITRI TOTA (MG/ AS N	TE NO	NITRO- GEN+ DZ+NO3 TOTAL (MG/L AS N)	GI AMMI TO (MI	TRO- EN, ONIA TAL G/L N)	GE	AL /L	NIT GEN. MONI ORGA TOT (MG AS	AM- A + NIC AL	NITE GEN TOTA (MG,	AL /L	NITRO GEN. TOTAL (MG/L AS NO3	PHO TO	HOS- DRUS, DTAL MG/L S P)	PHOR PHOR DIS SOL (MG AS	US, - VED /L
JAN 10		<	1.0	1	•9		.02	1.9		.12		.79		•91	2.	. 8	12		.30		.14
DATE	TO	ENIC TAL G/L AS)	PE TO	SENIC SUS- INCED TAL JG/L S AS)		S- VED /L	BERY LIUM TOTA RECO ERAB (UG/ AS B	, L: V- PE LE F	ERYL- IUM, SUS- ENDED RECOV. (UG/L AS BE)	D S	ERYL- IUM, IS- OLVED UG/L S BE)	RE EF	MIUM TAL COV- RABLE IG/L CD)	PE RE ER	MIUM US- NDED COV- ABLE G/L CD)	SOL (U	CD)	CHRO- MIUM. TOTAL RECOVERABLE (UG/L AS CR	P P (	HRO- IUM, SUS- ENDED ECOV. UG/L S CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
JAN 10		2		1		1		0	0		0		1		0		1	2	0	0	20
DATE	MI HE VAL D	RO- UM, XA- ENT, IS. G/L CR)	RE ER	PPER. CTAL ECOV- RABLE JG/L G CU)	HEC EHA (UG	OA- DED	COPPE DIS- SOLV (UG/ AS C	EU S	IRON, DIS- SOLVED (UG/L AS FE)	R E	EAD, OTAL ECOV- RABLE UG/L S PB)	PE RE EH	AD, SUS- INDED COV- RABLE JG/L PB)	SO	AD. IS- LVED IG/L PB)	NES TO REG ER	NGA- SE; TAL COV- ABLE G/L MN)	MANGA- NESE + SUS- PENDEI RECOV (UG/L AS MN	M N N S (	ANGA- ESE + DIS- OLVED UG/L S MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
JAN 10		0		14		11		3	40		9		9		0		220	21	0	10	• 0
DATE	PE RE ER	CURY US- NDED COV- ABLE G/L HG)	50	RCURY OIS- OLVED JG/L 5 +G)	ERA (UG	AL OV-	NICKE SUS PEND RECO ERAB (UG/ AS N	- ED N V- I LE :	ICKEL. DIS- SOLVED (UG/L AS NI)	N T	ELL- IUM, OTAL UG/L S SE)	PE TO	LE- LUM, SUS- ENDED OTAL JG/L S SE)	NI SC (L	UM+ IS- DLVED	D I (	NA- UM, IS- LVED G/L V)	ZINC+ TOTAL RECOV ERABL (UG/L AS ZN	- R E E	INC, SUS- ENDED ECOV- RABLE UG/L S ZN)	ZINC+ DIS- SOLVED (UG/L AS ZN)
JAN 10		.0		.0		19		16	3		1		1		0		•1	4	0	30	10

< Actual value is known to be less than the value shown.

### DREDGING OPERATIONS STUDY -- Continued

# 292219089181300 BAPTISTE COLLETTE BAYOU AT MILE 7.3, NEAR VENICE, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE + TOTAL (UG/L)	DDD; TOTAL (UG/L)	DDE+ TOTAL (UG/L)	DDT, TOTAL (UG/L)	
JAN 10	5.8	•00	1	0	.0	•00	.000	.0	.000	.000	.000	

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN. TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	
JAN 10	•01	.002	.000	.001	.00	.000	.001	.000	•00	•00	
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX. TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	
JAN 10	•09	•00	.00	.00	.00	0.0	.00	.03	.02	.00	

### DREDGING OPERATIONS STUDY -- Continued

292148089180900 BAPTISTE COLLETTE BAYOU 6.9 MILES NORTHEAST OF VENICE, LA WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS: NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	
	NOV 29	1210	397	7.5	20	80	23	150	30	40	11	
	DA NOV	DIS SOL (M) TE AS	VED G/L SODI NA) PERC	ENT	D- SIUM P- DIS- ON SOLVI IO (MG/I AS K	M, BICA - BONA ED (MG L A	TE CAR- /L BONAT S (MG/ 3) AS CO	E (MG L AS (3) CAC	TY DIS S/L SOL (MG (O3) AS S	- DIS- VED SOLV /L (MG/ 04) AS (	VED /L CL)	
	29	•••	23	25	.8 3	•7	140	0	110 4	9 28	3	
	DA	RES AT DEG SU PENI	. C. TIL	A- SETT E, AB - MAT ED (ML/	LE NITRA TER TOTA L/ (MG/	GE TE NITR L TOT L (MG	AL TOTA	19 GE 103 AMMO 1L TOT 1L (MG	RO- GE N. AMMO NIA DI TAL SOL (MG	VED SOL	N. NIA S- VED /L	
	NOV 29		127	17 <	1.0 1.	4	.01 1.	. 4	.08	.01	• 01	
	DA	G ORG TO (M	TRO- GE EN, ORGA ANIC DI		AM- GEN+N A + + OR NIC SUSP AL TOTA /L (MG/	H4 GEN, G. MONI ORGA L DIS L (MG	A + NITE	AL TOTAL (MC	TAL TOT	RUS, DIS	US, - VED /L	
	NOV 29		1.0	.20 1	.1 .	89	.21 2.	.5 1:	1	.38	•12	
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)		CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
NOV 29	3	1	2	0	0	0	0	U	0	0	0	0
DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER. TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON+ DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD + SUS - PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE * TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 29	0	12	8	4	70	10	10	0	160	150	8	.2
DATE	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	RECOV-	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM; SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC+ TOTAL RECOV- ERABLE (UG/L AS 2N)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC. DIS- SOLVED (UG/L AS ZN)
NOV 29	.0	•2	19	16	3	1	1	0	•1	60	50	10

<sup>&</sup>lt; Actual value is known to be less than the value shown.

#### DREDGING OPERATIONS STUDY--Continued

### 292148089180900 BAPTISTE COLLETTE BAYOU 6.9 MILES NORTHEAST OF VENICE, LA--Continued

DATE	CARBON: ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN. TOTAL (UG/L)	CHLOR- DANE + TOTAL (UG/L)	DDD+ TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT. TOTAL (UG/L)	
VON	6.2	.00	4	0	.0	.00	.001	.0	.000	.000	.000	

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN. TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR. TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	
NOV 29	.03	.003	.000	.001	.00	.000	.002	.009	.00	.00	
	METHYL PARA-	METHYL TRI-		PARA-	PER-	TOX-	TOTAL				
	THION,	THION,	MIREX.	THION,	THANE	APHENE .	TRI-	2,4-0,	2,4,5-T	SILVEX,	
0.028	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	THION	TOTAL	TOTAL	TOTAL	
DATE	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	
NOV	0.0	0.0	0.0	0.0	.00	0.0	- 0.0	.01	-01	.01	
29	.00	• 0 0	.00	.00	.00	0.0	.00	.01	.01	.0	1

### ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

#### DREDGING OPERATIONS STUDY -- Continued

292142089180700 BAPTISTE COLLETTE BAYOU 6.8 MILES NORTHEAST OF VENICE, LA WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	DATE	т	IME	DUI ANI	FIC N- CT-		PH ITS)	COL (PL INU COB UNI	AT- M- ALT	B	UR- ID- TY TU)	CH	AND, EM- AL IGH EL)	HAF NES (MC	55 5/L	HAF NES NONG BONA (MG	SS+ CAR- ATE	DIS 501	CIUM S- LVED G/L CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)		
	29	0	955		394		7.7		25		70		44		140		40	:	39	11		
	DA NOV		SODI DIS SOLV (MG AS	ED /L NA)	SODI! PERC	ENT	SOD: SORE TIC RAT:	0- 0N 10	SOL'	UM, S- VED /L K)	BICA BONA (MG	TE /L S	CAR- BONAT (MG/ AS CO	E 'L (3)	ALKI LINI (MG, AS CAC	TY /L 03)	SULF DIS SOL (MG	- VED /L 04)	CHLO- RIDE: DIS- SOLVE (MG/L AS CL	ED		
	29 DA	· · ·	SOLI RESI AT 1 DEG. SUS PEND	DS, DUE 05 C, ED	SOLI VOL TIL SUS PEND	A- E, ED	SETTI ABI MAT (ML/I	LE TER L/	NITI GEI NITR TOT (MG	N, ATE AL /L		AL /L	NITE GEN NO2+N TOTA (MG/ AS N	103 L L	NITI GEI AMMOI TOT. (MG.	NIA AL /L	NIT GE AMMO DI	NIA S- VED	NITRO GENE AMMONI DIS- SOLVE (MG/L AS NH4	I A		
	NOV			279		26		1.0		.4	43	.01	1.			.07		.01		01		
	DA	TE	NIT GE ORGA TOT (MG AS	N, NIC AL /L	NIT GE ORGA DI SOL (MG AS	NIC S- VED /L	NITE GEN : MONIA ORGAN TOT (MG	AM- A + NIC AL /L	NIT GEN, + O SUS TOT (MG AS	NH4 RG. P. AL	NIT GEN + MONI ORGA DIS (MG	A +	NITE GEN TOTA (MG/ AS N	1 , L 'L	NITE GE TOT (MG	N, AL /L	PHOR PHOR TOT (MG AS	AL	PHOS- PHORUS DIS- SOLVE (MG/I	5 <b>,</b> ED		
	NOV 29			.54		•29		.61		.31		.30	2.	. 0	8	. 9		.34		13		
DATE	ARSENIC TOTAL (UG/L AS AS)	PE TO (U	ENIC SUS- NDED TAL IG/L (AS)	50 (U	ENIC IS- LVED G/L AS)	LI TO RE ER (U	RYL- UM, TAL COV- ABLE G/L BE)	REC (UG	-	DI SO	RYL- UM, S- LVED (G/L ( BE)	RE ER (U	MIUM TAL COV- ABLE G/L CD)	PE RE ER (U	MIUM US- NDED COV- ABLE G/L CD)	SOI (U	MIUM IS- LVED G/L CD)	MI TO RE ER (U	RO- UM• TAL COV- ABLE G/L CR)	CHRO- MIUM+ SUS- PENDED RECOV- (UG/L AS CR)	M: D: S(	HRO- IUM, IS- DLVED JG/L S CR)
NOV 29	3		1		2		0		0		0		0		0		0		0	0		0
	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L	RE ER	PPER, OTAL COV- RABLE	PE RE ER	PER, S- NDED COV- ABLE	DI	PER, S- DLVED	SOL	ON. IS- VED	RE EF	AD.	PE RE ER	AD, US- NDED COV- ABLE	50 (U	AD, IS- LVED G/L	TO RE ER (U	NGA- SE, TAL COV- ABLE G/L	NE S PE RE (U	NGA- SE, US- NDED COV.	MANGA- NESE, DIS- SOLVED (UG/L	RI EI	RCURY OTAL ECOV- RABLE UG/L
DATE	AS CR)		(U)		CU)		(CU)		FE)		PB)	AS	PB)	AS	PB)	AS	MN)	AS	MN)	AS MN)	A	S HG)
NOV 29	0		10		5		5		60		8		8		0		150		150	4		.1

<sup>&</sup>lt; Actual value is known to be less than the value shown.

### DREDGING OPERATIONS STUDY--Continued

## 292142089180700 BAPTISTE COLLETTE BAYOU 6.8 MILES NORTHEAST OF VENICE, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MERCURY SUS- PENDED RECOV- EKABLE (UG/L AS HG)	MERCURY DIS- SOLVEI (UG/L AS HG	RECOV ERABL (UG/L	PEND RECO E ERAE (UG/	DED NIC DV- DI BLE SO	S- NI LVED TO G/L (L	ILE- SILE- S	SUS- N ENDED OTAL S UG/L (	DIS- DOLVED SO	UM, TO IS- RE LVED ER G/L (U	NC + PI TAL PI COV- RI ABLE EI G/L (I	ECOV- RABLE S JG/L	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 29	•1		0 1	6	12	4	1	1	0	•7	20	10	10
DA		ANIC CY	MG/L	ENOLS UG/L)	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	TOTAL	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L	)
NOV 29		6.4	.00	2	0	.0	.00	.000	. 0	.000	.000	.002	2

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	
NOV 29	.03	.004	.000	.000	.00	.000	.002	.000	.00	.00	
			4								
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE; TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	
VOV 29	•00	• 0 0	.00	•00	.00	0.0	.00	.01	.02	.01	

#### DREDGING OPERATIONS STUDY--Continued

### 292116089180600 BAPTISTE COLLETTE BAYOU AT MILE 5.8, NEAR VENICE, LA

DA	TE	TI	ME	SPE CIF CON DUC ANC (MIC MHO	IC T- E RO-	P	н ТS)	INU	AT-			OAYG DEMA CHE ICA (HI LEVE (MG/	M- L GH	HAR NES (MG AS CAC	S /L	HAR NES NONC BONA (MG CAC	AR- TE	CALC DIS SOL (MG AS	VED	SI DI SOL (MG	NE- UM, IS- VED JL MG)	SODI DIS SOLV (MG	ED .
FEB 17	•••	14	00		284		7.4		30		80		16		100		37	2	16		7.9	1	4
	TE F	OUI		SOD A SOR TI RAT	D- P- ON	DI	UM, S- VED /L	BICA BONA (MG A	TE /L S	CAR BONA (MG AS C	TE L	ALK LINI (MG AS CAC	TY	SULF DIS SOL (MG AS S	VED /L	(MG	E. VED	RESI AT 1 DEG. SUS PEND	05 C,	RESI AT 1 DEG	AL,	SOL I VOL TIL SUS PEND (MG	A- E•
FEB 17	•••		22		• 0		2.1		80		0		66	3	6	1	9		162		128		34
	DAT FEB 17.	••	ARSEN SUS PENG	ETER	GENITE TOT (MC AS	ENIC	GINITI TO (MINITI AS) BE LI TO RE	TRO- EN, RITE TAL G/L N) .03	BERY LIUM SUS PENL	TAL 5/L N) 1.1 YL- M, 5- DED	BEF	TRO- EN, ONIA IS- VED 3/L N) .49	G AMM D SO (M AS	TAL COV-	GI ORG. D SOI (MI AS	TRO- EN, ANIC IS- LVED G/L N) .35	GENAMONI ORGA DIS (MG AS	IA + INIC IS- INIC IS-	PHO TO (M AS	OS- RUS, TAL G/L P) .25	PHOIDI SOI (MI AS	OS- RUS, S- LVED G/L P) .07	CHRO- MIUM, DIS-
DATE	TOTA (UG) AS A	Ĺ	TOTA (UG,	/L	(00	VED G/L AS)	(U	ABLE G/L BE)	(U)	GOV. BE)	(0)	G/L BE)	(U	ABLE G/L CD)	(U	ABLE G/L CD)	(U)	VED CD)	(U	ABLE G/L CR)	(U	COV. G/L CR)	SOLVED (UG/L AS CR)
FEB 17		3		2		1		0		0		0		1		0		1		10		10	0
DATE	CHRO MIUM HEXA VALEN DIS (UG/ AS C	1, 1, 1, 1,	COPPE TCT/ REC( ERAE (UG/ AS (	AL CV- ELE VL	RE(		DI SO (U	PER, S- LVED G/L CU)	50L (U(	ON, IS- LVED G/L FE)	REG ER	AD, TAL COV- ABLE G/L PB)	PE RE ER (U	AD, US- NDED COV- ABLE G/L PB)	50 (U	AD, IS- LVED G/L PB)	NES TOT REC ERA	MN)	NE S PL RE (U	NGA- SE, US- NDED COV. G/L MN)	NE D SO (U	NGA- SE; IS- LVED G/L MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
FEB 17		0		12		10		2		30		8		8		0		190		170		20	.0

### DREDGING OPERATIONS STUDY--Continued

# 292116089180600 BAPTISTE COLLETTE BAYOU AT MILE 5.8, NEAR VENICE, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCU DIS SCLV (UG/ AS F	IRY TO	CKEL+ OTAL ECOV- RABLE UG/L S NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL+ DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	DIUM, DIS- SOLVED (UG/L	ZINC+ TOTAL P RECOV- R ERABLE E (UG/L (	INC+ SUS- PENDED RECOV- RABLE UG/L S ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
FEB 17	.0		• 0	8	7	1	1	1	0	• 0	40	30	10
DA	ORG TO (M	BON, ANIC ( TAL G/L C)	YANIDE TOTAL (MG/L AS CN)	PHENO	GRE	D PO	LEN PO CB, CHL TAL TOT	A- ES, LY- OR. ALDR	AL TOTAL	DDD.		DDT TOTA (UG/	L
FEB		4 0	.00		3	0	- 0	.00	000	.0 .000	0 .000	. 0	0.6

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN: TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	
FEB 17	.01	.003	.000	.000	.00	.000	.000	.000	.00	.00	
DATE	METHYL PARA- THION: TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE * TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX: TOTAL (UG/L)	
FEB	-00	• 0 0	.00	.00	.00	0.0	.00	.05	.01	.00	

#### DREDGING OPERATIONS STUDY--Continued

292114089180600 BAPTISTE COLLETTE BAYOU AT MILE 5.6, NEAR VENICE, LA WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM: DIS- SOLVED (MG/L AS NA)	SOU IUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM. DIS- SOLVED (MG/L AS K)
1325	278	7.5	15	110	41	31	7.8	12	19	•5	2.1
BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE AT 105	SUSP.	SOLIDS, VOLA- TILE, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)	NITRO- GEN; NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
84	0	69	38	17	112	82	17	1.1	.02	1.1	.26
SOL (MG	VED SOL	VED TOT	AL SOL	VED TOT	AL TO	TAL DIS	S. TOT S/L (MG N) AS	AL TOT	AL TOT /L (MG 103) AS	AL SOL	VED /L
ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
2	1	1	0	0	0	1	0	1	20	20	0
CHRO-	COPPER,	COPPER, SUS-	COPPER.	IRON.	LEAD*	LEAD, SUS- PENDED RECOV-	LEAD.	MANGA- NESE • TOTAL RECOV-	MANGA- NESE+ SUS- PENDED	MANGA- NESE, DIS-	MERCURY TOTAL RECOV-
HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	PENDED RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	SOLVED (UG/L AS FE)	RECOV- ERABLE (UG/L AS PB)	ERABLE (UG/L AS PB)	SOLVED (UG/L AS PB)	ERABLE (UG/L AS MN)	RECOV. (UG/L AS MN)	SOLVED (UG/L AS MN)	ERABLE (UG/L AS HG)
	BICAR-BONATE (MG/L AS HCO3)  84  NIT GE AMMO DI SOL (MG TE AS TOTAL (UG/L AS AS)	BICAR- BONATE (MG/L ACS)  NITRO- MHOS)  84  NITRO- MITRO-	CIFIC CON- DUCT- ANCE PH TIME (MICRO- MHOS) (UNITS)  1325 278 7.5  BICAR- BONATE CAR- LINITY (MG/L BONATE (MG/L AS (MG/L AS (MG/L AS (MG/L AS AS (M	CIFIC CON- CHEM- DUCT- ICAL ANCE PH (HIGH EVEL) MHOS) (UNITS) (MG/L)  1325 278 7.5 15  BICAR- ALKA- SULFATE BONATE CAR- LINITY DIS- (MG/L BONATE (MG/L SOLVED AS (MG/L AS (MG/L) HCO3) AS CO3) CACO3) AS SO4)  84 0 69 38  NITRO- NITRO- NITRO- GE AMMONIA AMMONIA GEN, ORGA DIS- DIS- ORGANIC DI SOLVED SOLVED TOTAL SOL (MG/L (MG/L (MG/L (MG/L) CHECK CONTROL (MG/L (MG/L) TOTAL SOLVED DIS- RECOV- TOTAL TOTAL SOLVED ERABLE (UG/L (UG/L (UG/L (UG/L) AS AS) AS AS) AS AS) AS BE)	CIFIC CON- CHEM- HARD- DUCT- ICAL NESS ANCE PH (HIGH (MG/L) ANCE PH (HIGH (MG/L) AS (MICRO- MHOS) (UNITS) (MG/L) CACO3)  1325 278 7.5 15 110  BICAR- ALKA- SULFATE RIDE. BONATE CAR- LINITY DIS- DIS- (MG/L BONATE (MG/L SOLVED SOLVED AS (MG/L AS (MG/L (MG/L) AS (MG/L AS (MG/L) AS (MG/L (MG/L) AS (MG/L) AS (MG/L (MG/L) AS (MG/	CIFIC   DEMAND   HARD   NESS	CIFIC   DEMAND, CHEM- NESS, CALCIUM   DUCT-   ICAL   NESS   NONCAR- DIS-   NONCAR- DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS	CIFIC   CON-   CHEM-   HARD-   NESS   CALCIUM   SIUM-	CIFIC CON- CHEM- HARD- NESS, CALCIUM SIUM- SODIUM- DUCT- LICAL NESS NONCAR- DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS	CIFIC   DEMAND   HARD-   NESS   CALCIUM   SIUM   SODIUM	CIFIC   DEMAND, CHM

### DREDGING OPERATIONS STUDY -- Continued

## 292114089180600 BAPTISTE COLLETTE BAYOU AT MILE 5.6, NEAR VENICE, LA--Continued

DATE	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL+ SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL. DIS- SOLVED (UG/L AS NI)	SELE- NIUM+ TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM+ DIS- SOLVED (UG/L AS V)	ZINC+ TOTAL RECOV- EKABLE (UG/L AS ZN)	ZINC+ SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
FEB 17	• 0	.0	9	8	1	0	0	0	1.0	30	30	0
	DATE	CARBON, ORGANIC TCTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE * TOTAL (UG/L)	DDD+ TOTAL (UG/L)	DDE+ TOTAL (UG/L)	
	FEB 17	4.3	•00	1	0	• 0	.00	.000	• 0	.000	.000	
		TOT		ION+ ELE	RIN SULF	AN ENDR	AL TOT	ION CHL		OR IDE LIND AL TOT	AL	

DATE	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	
FEB 17	.000	•01	.000	.000	.000	.00	.000	.000	.000	
DATE	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX. TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	
FEB	0.0	0.0	-00	-00	- 00	-00	.00	0.0	.00	

### DREDGING OPERATIONS STUDY--Continued

# 291943089184300 BAPTISTE COLLETTE BAYOU AT MILE 3.8, NEAR VENICE, LA WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS: NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM. DIS- SOLVED (MG/L AS MG)	
	MAR 23	1140	372	7.8	15	70	19	130	43	35	9.5	
	DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	BONATE (MG/L	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	
	MAR 23	24	29	.9	2.4	106	0	87	43	30	164	
	DA	TO RES AT	TAL, VOL	E+ AB	LE GE NITE TER TOT (MG	ATE NITE	No GET RITE NO2+1 TAL TOT	N, GE NO3 AMMO AL TOT /L (MG	NIA DI AL SOL	N, GE NIA AMMO S- DI VED SOL /L (MG	N.A S- VED	
	MAR 23		164	26 <	1.0	•97	.03 1	. 0	.20	.20	.26	
	DA	GI	TRO- GE EN, ORGA ANIC DI TAL SOL	NIC MONI S- ORGA VED TOT	AM- GENO A + + C NIC SUS AL TOT /L (MG	NH4 GEN® RG. MONI P. ORGA AL DIS	ANIC GEN	No GE AL TOT /L (MG	AL TOT	US, DIS	VED	
	MAR 23		.56	.48	.76	.08	.68 1	.8 7	.8	. 25	.08	
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV+ ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
MAR 23	2	0	2	0	0	0	1	1	0	20	20	0
DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER. TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)	IRON. DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD. DIS- SOLVED (UG/L AS PB)	MANGA- NESE + TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE; SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
MAR 23	0	8	2	6	70	4	4	0	180	170	10	.0
< Actual	value is k	nown to be	less than	the value sh	iown.							

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### ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

#### DREDGING OPERATIONS STUDY -- Continued

# 291943089184300 BAPTISTE COLLETTE BAYOU AT MILE 3.8, NEAR VENICE, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- LRABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL+ DIS- SOLVED (UG/L AS NI)	SELL- NIUM+ TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	RECOV- ERABLE S (UG/L	ZINC, DIS- SOLVED (UG/L AS ZN)
MAR 23	0	.0	8	4	4	1	0	1	1.0	30	20	10
	CARE ORGA TOT (MC	ANIC CYAN	TAL PHEN	GRE	D PC	B, CHL	A- ES, LY- OR. ALDR AL TOT	IN, DAN		AL TOT	AL TOTAL	
	AR 23	5.6	.00	0	0	• 0	.00	000	• 0	000 .0	.000	
	DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	
	MAR 23	.01	.004	.000	.000	.00	.000	.000	.004	.00	•00	
	DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	

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#### DREDGING OPERATIONS STUDY -- Continued

291937089184600 BAPTISTE COLLETTE BAYOU AT MILE 3.6, NEAR VENICE, LA WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS+ NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM+ DIS- SOLVED (MG/L AS MG)	
	MAR 23	1155	378	7.6	15	70	21	130	45	34	9.8	
	DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM* DIS- SOLVED (MG/L AS K)	BICAR- BUNATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	
	MAR 23	23	28	.9	2.2	104	0	85	44	29	140	
	DA	SU TO RES AT DE	IDS+ SP. SOLI TAL+ VOL IDUE TIL 110 SUS G. C PENC G/L) (MC	A- SETT LE, AB G- MAT DED (ML/	LE NITR TER TOT L/ (MG	N, GE ATE NITE AL TOT /L (MG	N. GE ITE NO2+ AL TOT 6/L (MG	N, GE NO3 AMMO AL TOT /L (MG	NIA DI AL SOL /L (MG	N, GE NIA AMMO S- DI VED SOL /L (MG	N. NIA S- VED	
	MAR 23		140	24 <	1.0 1	•2	.04 1	.2	.18	.05	.06	
	DA	G ORG TO (M	TRO- GE EN, ORGA ANIC DI	ANIC MONI IS- ORGA VED TOT	AM- GEN+ A + + O NIC SUS AL TOT /L (MG	NH4 GEN• RG. MONI P. ORGA AL DIS /L (MG	A + NIT NIC GE TOT (MG	N, GE AL TOT /L (MG		AL SOL	VED	
	MAR 23		1.0	.83 1	.2	.32	.88 2	.4 11		.25	.06	
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L	LIUM, TOTAL	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	LIUM, DIS-	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
MAR 23	3	2	1	0	0	0	1	1	0	10	10	0
DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER TOTAL RECOVERABLE (UG/L AS CU)	PENDED RECOV- ERABLE (UG/L	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	VECON- ELARTE TOTAL ELAD*	LEAD + SUS - PENDED RECOV - ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
MAR 23	0	,	e less than	the value s	30	5	5	0	180	170	10	.0

#### DREDGING OPERATIONS STUDY -- Continued

# Z91937089184600 BAPTISTE COLLETTE BAYOU AT MILE 3.6, NEAR VENICE, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MERCUR' SUS- PENDEI RECOV- ERABLI (UG/L AS HG	MERCU DIS SOLV	ED ERA	AL PE	CKEL+ GUS- ENDED ECOV- RABLE JG/L S NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC+ TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAR 23		0	. 0	8	8	0	1	0	1	1.0	30	30	0
DA	OR T	MG/L	YANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREA (MG/	PC SE TOT	B. CHL AL TOT	A- ES, LY- OR. ALDR AL TOT.	AL TOT	E DD TOT	AL TOT	AL TOTA	AL
MAR 23		5.2	.00	1		0	•0	.00 .	000	•0 .	000 .	000 .0	000
	DATE	DI- AZINO TCTA (UG/	N. ELC L TOT	TAL T	NDO- LFAN+ DTAL UG/L)	ENDRIN• TOTAL (UG/L)	ETHION: TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	
	MAR 23		01 .	004	.000	.000	.00	.000	.000	.004	.00	.00	
	DATE	METH PARA THIO TOTA (UG/	- TF N, THI L TOI	TAL	IREX, TOTAL UG/L)	PARA- THION: TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE; TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	

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#### DREDGING OPERATIONS STUDY -- Continued

### 291113089214800 TIGER PASS AT MILE 6.4, NEAR VENICE, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO
MAY 12	1200	382	7.8	10	130	160	50	42	13	16	18	.0
	POTAS- SIUM:	BICAR-		ALKA-	SULFATE	CHLO-	SOLIDS, SUSP. TOTAL,	SOLIDS,	SETTLE-	NITRO- GEN,	NITRO- GEN,	NITRO- GEN•
DATE	DIS- SOLVED (MG/L AS K)	BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	LINITY (MG/L AS CACO3)	DIS- SOLVED (MG/L AS SO4)	DIS- SOLVED (MG/L AS CL)	RESIDUE AT 110 DEG. C (MG/L)	TILE, SUS- PENDED (MG/L)	ABLE MATTER (ML/L/ HR)	NITRATE TOTAL (MG/L AS N)	NITRITE TOTAL (MG/L AS N)	NOZ+NO3 TOTAL (MG/L AS N)
MAY 12	3.7	132	0	108	48	25	244	202	<1.0	2.0	.01	2.0
DATE	NITRO- GEN; AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN:AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN•NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN;AM- MONIA + ORGANIC DIS: (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN+ TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
MAY 12	.10	•10	•21	•90	.70	1.0	.20	.80	3.0	13	.28	.10
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
MAY	3		2	0	0		0	0	0	15	15	
12	CHRO- MIUM, HEXA- VALENT,	COPPER, TOTAL RECOV-	COPPER, SUS- PENDED RECOV-	COPPER,	IRON, DIS-	LEAD, TOTAL RECOV-	LEAD, SUS- PENDED RECOV-	LEAD. DIS-	MANGA- NESE, TOTAL RECOV-	MANGA- NESE+ SUS- PENDED	MANGA- NESE, DIS-	MERCURY TOTAL RECOV-
DATE	DIS. (UG/L AS CR)	(UG/L AS (U)	(UG/L AS CU)	SOLVED (UG/L AS CU)	SOLVED (UG/L AS FE)	(UG/L AS PB)	(UG/L AS PB)	(UG/L AS PB)	(UG/L AS MN)	RECOV. (UG/L AS MN)	SOLVED (UG/L AS MN)	(UG/L AS HG)
MAY	A5 CR7	13	9	45 (07	30	7	A3 FB)	A3 PB)	250	220	30	.0
12	0	13	9	4	30		,	0	250	220	30	• 0

<sup>&</sup>lt; Actual value is known to be less than the value shown.

### DREDGING OPERATIONS STUDY--Continued

# 291113089214800 TIGER PASS AT MILE 6.4, NEAR VENICE, LA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL+ SUS- PENDED RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L A\$ SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAY 12	.0	.0	12	12	0	0	0	1.0	30	10	20
DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB+ TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE , TOTAL (UG/L)	DDD; TOTAL (UG/L)	DDE+ TOTAL (UG/L)	DDT, TOTAL (UG/L)
12	8.0	.00	4	0	• 0	.00	.000	• 0	.000	.000	.000

DATE	DI- AZINON, TOTAL (UG/L)	UI- ELDRIN TUTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION. TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
MAY 12	.00	.001	.000	.000	.00	.000	.000	.000	.00	.00

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
MAY 12	.00	• 0 0	.00	.00	.00	0.0	.00	.03	.01	.00

### DREDGING OPERATIONS STUDY--Continued

#### 291110089214800 TIGER PASS AT MILE 6.5, NEAR VENICE, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	HARD- NESS (MG/L AS CACO3)	HARD- NESS+ NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM. DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO
MAY 12	1225	381	7.5	15	90	150	54	40	13	16	18	.6
DATE MAY	PUTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE. DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	SOLIDS, VOLA- TILE, SUS- PENDED (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN: NITRATE TOTAL (MG/L AS N)	NITRO- GEN+ NITRITE TOTAL (MG/L AS N)
12	3.5	121	0	99	48	2.4	32	142	32	<1.0	.67	.62
DATE	N1TRO- GEN+ NOZ+NO3 TOTAL (MG/L AS N)	NITRO- GEN; AMMONIA TOTAL (MG/L AS N)	NITRO- GEN; AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN: AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN; ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN:AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN·NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
MAY 12	2.0	.05	.05	.13	.76	.62	.82	.15	2.8	12	.21	.07
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
MAY 12	3	2	1	0	0	0	0	0	0	15	15	0
DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER+ TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER+ SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)	IRON. DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD. DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
MAY 12	0	20	17	3	40	9	9	0	18	18	0	.0

<sup>&</sup>lt; Actual value is known to be less than the value shown.

#### DREDGING OPERATIONS STUDY--Continued

### 291110089214800 TIGER PASS AT MILE 6.5, NEAR VENICE, LA

DATE	MERCURY SUS- PENDED RECOV- EKABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC+ TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAY 12	• 0	• 0	12	12	0	0	0	0	1.0	30	20	10
	DATE	CARBON+ ORGANIC TOTAL (MG/L AS C)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB+ TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	
	MAY 12	6.1	2	0	•0	.00	.000	.0	.000	.000	.000	
	DATE MAY 12	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN+ TOTAL (UG/L)	ETHION+ TOTAL (UG/L)	HEPTA- CHLOR+ TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION+ TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	
	DATE	METHYL PARA- THION+ TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE * TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2.4.5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	
	YAM	.00	•00	.00	•00	.00	0.0	.00	.02	.01	.00	

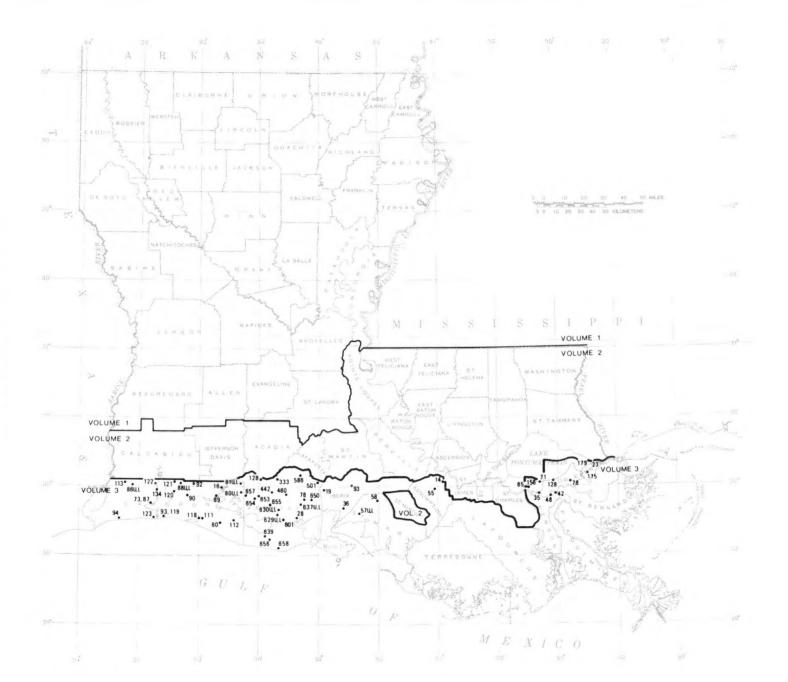


Figure 5. – Location of observation wells.

#### GROUND-WATER LEVELS

#### ASSUMPTION PARISH

300208090573401 LOCAL WELL NUMBER: AS-14

OWNER: SHELL OIL CO. (SEC. 42.) T. 125., R. 15E.) DRILLED UNUSED ARTESIAN WELL IN MISS. RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN. DEPTH 159 FT, SCREENED INTERVAL UNKNOWN. MP LOWER EDGE 4-IN COUPLING ON DISCHARGE PIPE, 1.7 FT ABOVE LSD.

5.00 FT NGVD. LSD

HIGHEST WATER LEVEL 5.50 ABOVE LSD, APR. 3, 1975, LOWEST WATER LEVEL 4.75 BELOW LSD, JAN. 9, 1970. RECORDS AVAILABLE 1958-64, 1966, 1969-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
NOV. 28, 1977	3.14	APR. 25, 1978					

295918091030101 LOCAL WELL NUMBER: AS-55

OWNER: MEDERIC LEBLANC. (SEC. 31, T. 12S., R. 14E.) DRILLED UNUSED ARTESIAN WELL IN MISS. RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 168 FT, SCREENED INTERVAL UNKNOWN. MP TOP INSIDE EDGE OF 1 1/2-IN ELBOW, 1.40 FT ABOVE LSD. LSD 16.00 FT NGVD.

HIGHEST WATER LEVEL 9.54 BELOW LSD, MAY 17, 1973, LOWEST WATER LEVEL 17.35 BELOW LSD, JAN. 7, 1970, NOV. 20, 1972. RECORDS AVAILABLE 1960-64, 1966-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
NOV. 28, 1977	16.95	APR. 17, 1978	13.92				

#### CAMERON PARISH

295935092473001 LOCAL WELL NUMBER: CN-16

OWNER: MAPLE HUGHES ESTATE. (SEC. 20, T. 12E., R. 4W.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 TO 8 IN, REPORTED DEPTH 350 FT, SCREENED INTERVAL UNKNOWN. MP HOLE IN END OF PULLEY, 2.41 FT ABOVE LSD.

LSD 5.03 FT NGVD.

HIGHEST WATER LEVEL 5.59 BELOW LSD, MAY 21, 1947, LOWEST WATER LEVEL 35.37 BELOW LSD, JULY 20, 1978. RECORDS AVAILABLE 1946-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 28, 1977 DEC. 9 FEB. 28, 1978		MAR. 29, 1978 APR. 25	31.92 32.46	JUNE 20, 1978 JULY 20	33.83 35.37	AUG. 17, 1978 SEP. 26	34.86 33.45

294344092491601 LOCAL WELL NUMBER: CN-60

OWNER: ROCKEFELLER NATIONAL WILDLIFE REFUGE. (SEC. 20, T. 155., R. 4W.) DRILLED STOCK-SUPPLY ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 10 TO 6 IN, REPORTED DEPTH 274 FT, SCREENED 211-274. MP TOP EDGE OF 1-IN NIPPLE, 2.40 FT ABOVE LSD.

LSD 3.87 FT NGVD. HIGHEST WATER LEVEL 5.97 BELOW LSD, SEP. 10, 1958, LOWEST WATER LEVEL 10.66 BELOW LSD, FEB. 26, 1975. RECORDS AVAILABLE 1957-72, 1974-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 28, 1978	10.54						

295324093240601 LOCAL WELL NUMBER: CN-73

OWNER: SABINE NATIONAL WILDLIFE REFUGE. (SEC. 32, T. 13S., R. 10W.) DRILLED DOMESTIC ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 6 TO 4 IN, REPORTED DEPTH 515 FT, SCREENED 500-515. MP TOP OF 1/2-IN PLUG HOLE IN STEEL PLATE, 0.50 FT ABOVE LSD.

LSD 9.59 FT NGVD.

HIGHEST WATER LEVEL 19.40 BELOW LSD, MAR. 27, 1961, LOWEST WATER LEVEL 38.84 BELOW LSD, FEB. 15, 1978.

RECORDS AVAILABLE 1961-72, 1974-CURRENT YEAR.

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	WAIER		WAIER		WAILE		WAIER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
15, 1978	38.84						

295846092381104 LOCAL WELL NUMBER: CN-80U

OWNER: U. S. GEOL. SURVEY. (SEC. 24, T. 125., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AGUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 453 FT, SCREENED 443-453. MP TOP OF 1-IN PIPE. 3.32 FT ABOVE LSD.

4.73 FT NGVD. LSD

HIGHEST WATER LEVEL 19.42 BELOW LSD, MAR. 22, 1965, LOWEST WATER LEVEL 30.80 BELOW LSD, JUNE 20, 1978. RECORDS AVAILABLE 1964-75, 1977-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 28, 1978	25.18		30.80				

295846092381105 LOCAL WELL NUMBER: CN-80L

OWNER: U. S. GEOL. SURVEY. (SEC. 24, T. 125., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AGUIFER OF PLEISTOCENE AGE, DIAM 2 TO 1 IN, DEPTH 481 FT, SCREENED 475-481. MP TOP OF 1-IN PIPE+ 3.32 FT ABOVE LSD. LSD 4.73 FT NGVD.

HIGHEST WATER LEVEL 19.47 BELOW LSD, MAR. 22, 1965, LOWEST WATER LEVEL 30.88 BELOW LSD, JUNE 20, 1978.

LOWEST WATER LEVEL 30.88 BELOW LSD RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 28, 1978	25.38	ILINE 20	30.88				

300125092382503 LOCAL WELL NUMBER: CN-81U

OWNER: U. S. GEOL. SURVEY. (SEC. 11, T. 12S., R. 3M.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 448 FT, SCREENED 438-448. MP TOP OF 1-IN PIPE, 3.18 FT ABOVE LSD.
LSD 4.45 FT NGVD.

HIGHEST WATER LEVEL 20.92 BELOW LSD, MAR. 22, 1965. LOWEST WATER LEVEL 30.48 BELOW LSD, OCT. 23, 1969. RECORDS AVAILABLE 1964-CURRENT YEAR. 20.92 BELOW LSD, MAR. 22, 1965,

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 28, 1978	25.18						

300125092382504 LOCAL WELL NUMBER: CN-81L

OWNER: U. S. GEOL. SURVEY. (SEC. 11, T. 125., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 TO 1 IN, DEPTH 478 FT, SCREENED 468-478. MP TOP OF 1-IN PIPE, 3.18 FT ABOVE LSD.

4.45 FT NGVD.

HIGHEST WATER LEVEL 20.99 BELOW LSD, MAR. 22, 1965, LOWEST WATER LEVEL 30.42 BELOW LSD, APR. 27, 1972. RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 28, 1978	27.22						

300120093320801 LOCAL WELL NUMBER: CN-86U

OWNER: U. S. GEOL. SURVEY. (SEC. 13, T. 12S., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 535 FT, SCREENED 525-535. MP TOP OF 1-IN PIPE.

2.91 FT ABOVE LSD. LSD 3.66 FT NGVD.

HIGHEST WATER LEVEL 32.01 BELOW LSD, APR. 12, 1965, LOWEST WATER LEVEL 51.22 BELOW LSD, SEP. 19, 1971. RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER				WATER		WATER
DATE	LEVEL	DATE	WATER	DATE	LEVEL	DATE	LEVEL
FEB. 14. 1978	49.62						

#### GROUND-WATER LEVELS

CAMERON PARISH

300120093320802 LOCAL WELL NUMBER: CN-86L

OWNER: U. S. GEOL. SURVEY. (SEC. 13, T. 125., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 IN, DEPTH 641 FT, SCREENED 631-641. MP TOP OF 1-IN PIPE, 2.91 FT ABOVE LSD. LSD 3.66 FT NGVD.

HIGHEST WATER LEVEL 32.16 BELOW LSD, APR. 12, 1965, LOWEST WATER LEVEL 51.34 BELOW LSD, SEP. 19, 1971.

LOWEST WATER LEVEL 51.34 BELOW LSD: RECORDS AVAILABLE 1964-CURRENT YEAR.

DATE	LEVEL	DATE	1 51151		9. 25.00.25.00
0	FEACE	DATE	LEVEL	DATE	LEVEL

#### 295324093240602 LOCAL WELL NUMBER: CN-87

OWNER: U. S. GEOL. SURVEY. (SEC. 32, T. 135., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 804 FT, SCREENED 798-804. MP TOP OF 2-IN CASING, 1.0 FT ABOVE LSD. LSD 8.46 FT NGVD.

HIGHEST WATER LEVEL 22.38 BELOW LSD, DEC. 16, 1963, LOWEST WATER LEVEL 49.63 BELOW LSD, SEP. 28, 1978.

LOWEST WATER LEVEL 49.63 BELOW LSD RECORDS AVAILABLE 1963-CURRENT YEAR.

	DAT	ΤE	WATER LEVEL		DA	TE	WATER		DA	TE	WATER		DAT	ΓE	WATER
JAN. FEB.		1978	46.13 45.88	APR. MAY	-	1978	44.22 44.96	MAY JULY		1978	45,93 48,17	AUG. SEP.		1978	48.74 49.63

#### 300055093093003 LUCAL WELL NUMBER: CN-88U

OWNER: U. S. GEOL. SURVEY. (SEC. 14, T. 125., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 666 FT, SCREENED 656-666. MP TOP OF 1/2-IN PIPE, 2.68 FT ABOVE LSD.
LSD 8.86 FT NGVD.

HIGHEST WATER LEVEL 39.97 BELOW LSD, APR. 137 .... 39.97 BELOW LSD, APR. 13, 1965,

RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT. 28, 1977		B. 16, 1978		JUNE 16, 1978		3. 17, 1978	63.99
DEC. 9	59.45 AP	R. 14	55.07	JULY 21	66.62 SE	28	61.48

#### 300055093093004 LOCAL WELL NUMBER: CN-88L

OWNER: U. S. GEOL. SURVEY. (SEC. 14, T. 12S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 1/2 IN, DEPTH 804 FT, SCREENED 794-804. MP TOP OF 1/2-IN PIPE, 2.68 FT ABOVE LSD.

8.86 FT NGVD.

LSD HIGHEST WATER LEVEL 40.27 BELOW LSD, APR. 13, 1965, LOWEST WATER LEVEL 66.95 BELOW LSD, JULY 21, 1978. RECORDS AVAILABLE 1964-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER	DATE	WATER LEVEL	DATE	WATER
OCT. 28, 1977 DEC. 9	60.94 FEB 60.29 APR			JUNE 16, 1978 JULY 21	63.79 A 66.95 S	UG. 17, 1978 EP. 28	63.59 61.82

#### 295148092505901 LOCAL WELL NUMBER: CN-89

OWNER: U. S. CORPS OF ENGINEERS. (SEC. 1, T. 145., R. 5W.) DRILLED DOMESTIC ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 2 IN, REPORTED DEPTH 350 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 1/4-IN TAP HOLE IN CASING CAP, 1.0 FT ABOVE LSD. 6.49 FT NGVD.

HIGHEST WATER LEVEL 19.32 BELOW LSD, MAR. 25, 1964, LOWEST WATER LEVEL 29.00 BELOW LSD, SEP. 21, 1978, RECORDS AVAILABLE 1964-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 19, 1977		MAR. 13, 1978		SEP. 21, 1978	29,00		

295611093044801 LOCAL WELL NUMBER: CN-90

OWNER: U. S. GEOL. SURVEY. (SEC. 4, T. 135., R. 7W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AGUIFER OF PLEISTOCENE AGE. DIAM 4 IN. DEPTH 396 FT. SCREENED 386-396. MP TOP OF 4-IN CASING. LSD 3.19 FT NGVD.

HIGHEST WATER LEVEL 20.04 BELOW LSD, APR. 13, 1965, LOWEST WATER LEVEL 36.85 BELOW LSD, AUG. 14, 1973.

RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 15, 1978	28.34						

300104093015601 LOCAL WELL NUMBER: CN-92

OWNER: U. S. GEOL. SURVEY. (SEC. 12, T. 125., R. 7W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 443 FT, SCREENED 438-443. MP TOP OF 2-IN CASING. 2.0 FT ABOVE LSD. LSD 5.50 FT NGVD.

LSD 5.30 FI NO. 26.02 BELOW LSD, APR. 13, .....
HIGHEST WATER LEVEL 53.96 BELOW LSD, AUG. 14, 1973. 26.02 BELOW LSD, APR. 13, 1965,

LOWEST WATER LEVEL 53.96 BELOW LSD RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 16, 1978	34.89						

#### 294709093174301 LOCAL WELL NUMBER: CN-93

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 16, T. 15S., R. 9W.) DRILLED OBSEMVATION ARTESIAN WELL IN CHICOT AGUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 360 FT, SCREENED 355-360. MP TOP OF 2-IN CASING, 3.0 FT ABOVE LSD.

3.76 FT NGVD. LSD HIGHEST WATER LEVEL 9.64 BELOW LSD, DEC. 15, 1965, LOWEST WATER LEVEL 23.64 BELOW LSD, FEB. 15, 1978. RECORDS AVAILABLE 1965-CURRENT YEAR.

WATER WATER WATER WATER DATE DATE DATE LEVEL LEVEL LEVEL LEVEL 23.64

#### 294543093391401 LOCAL WELL NUMBER: CN-94

OWNER: U. S. GEOL. SURVEY. (SEC. 8, T. 155., R. 13w.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 1,118 FT, SCREENED 1,112-1,118. MP TOP OF 2-IN CASING, 2.50 FT ABOVE LSD.
LSD 6.22 FT NGVD.

HIGHEST WATER LEVEL 30.12 BELOW LSD+ MAR.

41.38 BELOW LSD+ MAR. 30.12 BELOW LSD, JUNE 17, 1965, LOWEST WATER LEVEL 41.38 BELOW LSD, MAR. 2, RECORDS AVAILABLE 1965-72, 1974-CURRENT YEAR.

WATER WATER WATER WATER DATE LEVEL LEVEL DATE DATE LEVEL LEVEL FEB. 28. 1978 41.02

#### 294551092573701 LOCAL WELL NUMBER: CN-111

OWNER: CONTINENTAL OIL CO. (SEC. 39, T. 155., R. 6W.) DRILLED INDUSTRIAL ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 16 IN, REPORTED DEPTH 593 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF AIR VENT, 2.43 FT ABOVE LSD. 5.00 FT NGVU.

HIGHEST WATER LEVEL 18.67 BELOW LSD, MAR. 10, 1977, LOWEST WATER LEVEL 34.24 BELOW LSD, FEB. 22, 1972. RECORDS AVAILABLE 1969, 1972, 1974-75, 1977-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 28, 1978							

## CAMERON PARISH

294526092424801 LOCAL WELL NUMBER: CN-112

OWNER: PAN AMERICAN PETROLEUM CO. (SEC. 8, T. 155., R. 3W.) DRILLED INDUSTRIAL ARTESIAN WELL IN CHICOT AGUIFER OF PLEISTOCENE AGE, DIAM 11 TO 7 IN, REPORTED DEPTH 250 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 3/4-IN NIPPLE, 0.90 FT ABOVE LSD.

4.00 FT NGVD.

HIGHEST WATER LEVEL 14.32 BELOW LSD, FEB. 22, 1972, LOWEST WATER LEVEL 14.99 BELOW LSD, FEB. 26, 1975. RECORDS AVAILABLE 1972, 1974-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 28, 1978	14.70						

## 300113093365701 LOCAL WELL NUMBER: CN-113

OWNER: SHELL OIL CO. (SEC. 17, T. 128., R. 12W.) DRILLED INDUSTRIAL ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM, DEPTH AND SCREENED INTERVAL UNKNOWN. MP TOP OF CASING, 1.4 FT ABOVE LSD.

HIGHEST WATER LEVEL 46.22 BELOW LSD, MAR. 3, 1976, LOWEST WATER LEVEL 49.92 BELOW LSD, FEB. 28, 1978. RECORDS AVAILABLE 1975-CURRENT YEAR.

		WATER		WATER		WATER		WATER
	TE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 28,								

# 294615093004201 LOCAL WELL NUMBER: CN-118

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 155., R. 6W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE. DIAM 2 IN, DEPTH 637 FT, SCREENED 627-637. MP TOP OF 2-IN CASING, 2.33 FT ABOVE LSD. LSD 5.00 FT NGVD.

LSD 5.00 FT NOTE:
HIGHEST WATER LEVEL 20.58 BELOW LSD, APR. 20, ....
22.84 BELOW LSD, SEP. 4, 1974. 20.58 BELOW LSD, APR. 28, 1975,

RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 28, 1978	21.17						100000000000000000000000000000000000000

# 294709093174302 LOCAL WELL NUMBER: CN-119

OWNER: U. S. GEOL. SURVEY. (SEC. 16, T. 15S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 910 FT, SCREENED 900-910. MP TOP OF 2-IN CASING, 2.86 FT ABOVE LSD. 5.00 FT NGVD.

HIGHEST WATER LEVEL 29.34 BELOW LSD, JUNE 19, 1975, LOWEST WATER LEVEL 31.49 BELOW LSD, DEC. 9, 1974.

RECORDS AVAILABLE 1974-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 15, 1978	30.20						

# 295721093115701 LOCAL WELL NUMBER: CN-120

OWNER: U. S. GEOL. SURVEY. (T. 13S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 763 FT, SCREENED 753-763. MP TOP OF 2-IN CASING, 2.30 FT ABOVE LSD.
LSD 5.00 FT NGVD.

HIGHEST WATER LEVEL 36.85 BELOW LSD, DEC. 3, 1975, LOWEST WATER LEVEL 51.02 BELOW LSD, JUNE 16, 1978.

RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER	DATE	WATER	DATE	WATER	DATE	WATER
FEB. 28, 1978			51.02	F-0-7			

## CAMERON PARISH

300040093161801 LOCAL WELL NUMBER: CN-121

OWNER: U. S. GEOL, SURVEY. (SEC. 18, T. 125., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 690 FT, SCREENED 680-690. MP TOP OF 2-IN CASING, 2.5 FT ABOVE LSD. LSD 3.00 FT NGVD.

HIGHEST WATER LEVEL 53.84 BELOW LSD, APR. 22, 1975, MAR. 4, 1976, LOWEST WATER LEVEL 61.00 BELOW LSD, JUNE 16, 1978. RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 28, 1978	55.10 J	JNE 16	61.00				

#### 300140093202201 LOCAL WELL NUMBER: CN-122

OWNER: U. S. GEOL. SURVEY. (SEC. 12, T. 12S., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 920 FT, SCREENED 910-920. MP TOP OF 2-IN CASING, 3.4 FT ABOVE LSD.

LSD 2.00 FT NGVD.

HIGHEST WATER LEVEL 59.04 BELOW LSD, MAR. 3, 1976, LOWEST WATER LEVEL 64.79 BELOW LSD, DEC. 3, 1974. RECORDS AVAILABLE 1974-CURRENT YEAR.

			WATER		WATER		WATER		WATER
	DAT	E	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
MAR.	1,	1978	59.94						

## 294557093223601 LOCAL WELL NUMBER: CN-123

OWNER: CAMERON PARISH POLICE JURY. (SEC. 21, T. 155., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 236 FT, SCREENED 266-236. MP TOP OF 2-IN CASING, 2.3 FT ABOVE LSD.

5.00 FT NGVD.

LIGHEST WATER LEVEL 19.99 BELOW LSD, JUNE 18, 1975, LOWEST WATER LEVEL 21.60 BELOW LSD, FEB. 15, 1978. RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER
FEB. 15, 1978	21.60						

# 295839093203501 LOCAL WELL NUMBER: CN-134

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 47, T. 125., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 2 IN, DEPTH 710 FT, SCREENED 690-710. MP TOP OF 4-IN COUPLING, 2.0 FT ABOVE LSD. LSD 5.00 FT NGVD.

HIGHEST WATER LEVEL 49.99 BELOW LSD, FEB. 23, 1977, LOWEST WATER LEVEL 56.68 BELOW LSD, JULY 21, 1978.

RECORDS AVAILABLE 1977-CURRENT YEAR.

	DA	TE	WATER LEVEL		DA	TE	WATER LEVEL		DA	TE	WATER LEVEL		DATE	WATER
DEC.	12	1977 1978	53.61 52.49 52.32	JAN. FEB. APR.	15	1978	52.57 51.93 51.12	MAY MAY JULY	26	1978	50.36 53.00 56.68	AUG. SEP.	14, 1978 28	56.55 56.59

# IBERIA PARISH

# 295748091571001 LOCAL WELL NUMBER: I-19

OWNER: J. L. BAYLIS, JR. AND OTHERS. (IRREG. SEC. 59, T. 12S., R. 5E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN. REPORTED DEPTH 477 FT, SCREENED 380-460. MP HOLE IN STEEL PLATE BELOW PUMP, 1.88 FT ABOVE LSD. 9.72 FT NGVO.

HIGHEST WATER LEVEL 3.65 BELOW LSD, MAY 11, 1944, LOWEST WATER LEVEL 15.37 BELOW LSD, FEB. 16, 1971. RECORDS AVAILABLE 1944-62, 1964, 1966-67, 1969, 1971-72, 1974, 1976-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER
FEB. 27, 1978	13.67						

#### GROUND-WATER LEVELS

# IBERIA PARISH

295108091471501 LOCAL WELL NUMBER: I-36

OWNER: U. S. GEOL. SURVEY. (SEC. 6, T. 145., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 284 FT, SCREENED 276-284. MP TOP OF 2-IN CASING, 2.0 FT ABOVE LSD.

2.0 FT ABOVE LSD.
LSD 4.12 FT NGVD.
HIGHEST WATER LEVEL 3.25 BELOW LSD, MAR. 22, 1966.
LOWEST WATER LEVEL 6.28 BELOW LSD, MAR. 7, 1977.
RECORDS AVAILABLE 1966-71, 1974-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 27, 1978	4.98						

300035091443301 LOCAL WELL NUMBER: I-93

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 5, T. 12S., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AGUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 585 FT, SCREENED 580-585. MP TOP OF 2-IN CASING, 3.0 FT ABOVE LSD. LSD. 18.53 FT NGVD.

HIGHEST WATER LEVEL 15.29 BELOW LSD, FEB. 25, 1974, LOWEST WATER LEVEL 22.11 BELOW LSD, NOV. 4, 1974.

LOWEST WATER LEVEL 22.11 BELOW LSD. RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1977	19.22 FI	EB. 17, 1978	17.28	APR. 24, 1978	16.87	JULY 17, 1978	17.77
DEC. 8		EB. 22	17.25	MAY 25	17.04	AUG. 14	17.65
JAN. 16, 1978		AR. 23	17.30	JUNE 20	17.00	SEP. 19	17.39

### JEFFERSON PARISH

295420090045801 LOCAL WELL NUMBER: JF-35

OWNER: SOUTHERN SHELLFISH CO. (SEC 1, T. 135., R. 24E.) DRILLED UNUSED ARTESIAN WELL IN GRAMERCY AQUIFER OF PLEISTOCENE AGE, DIAM 10 TO 6 IN, DEPTH 270 FT, SCREENED 228-270. MP EDGE OF STEEL PLATE ON CONCRETE FOUNDATION, 3.50 FT ABOVE LSD.
LSD 5.00 FT NGVD.

HIGHEST WATER LEVEL 5.26 BELOW LSD, APR. 22, 1976, LOWEST WATER LEVEL 21.68 BELOW LSD, NOV. 29, 1977. RECORDS AVAILABLE 1956, 1958-64, 1966-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
NOV. 29. 1977	21.68	APR. 24, 1978					

295509090034001 LOCAL WELL NUMBER: JF-48

OWNER: PUBLICKER CHEMICAL CORP. (SEC. 7, T. 13S., R. 24E.) DRILLED INDUSTRIAL ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 16 IN, DEPTH 780 FT, SCREENED 700-780. MP HOLE IN CASING FLANGE AT TOP OF CONCRETE FOUNDATION 0.90 FT ABOVE LSD.

TSD 7.00 FT NGVD.

HIGHEST WATER LEVEL 90.00 BELOW LSD. FEB. 9. 1978
LOWEST WATER LEVEL 106.81 BELOW LSD. SEP. 15, 1976.
RECORDS AVAILABLE 1957, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER
'' 피리 및 기업 보기 없는 경기 없는 사람이 없는	105.65	FEB. 9, 1978	90.00	APR. 24, 1978	90.80 AU	G. 2, 1978	94.98

295906090152701 LOCAL WELL NUMBER: JF-65

OWNER: CITY OF NEW ORLEANS AVIATION BOARD. (SEC. 37, T. 12S., R. 9E.) DRILLED INDUSTRIAL ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 10 TO 8 IN, DEPTH 698 FT, SCREENED 638-698. MP HOLE IN SAFETY SEAL, 1.0 FT ABOVE LSD. 1.00 FT NGVD.

HIGHEST WATER LEVEL 28.50 BELOW LSD, DEC. 23, 1958, LOWEST WATER LEVEL 56.64 BELOW LSD, APR. 6, 1972. RECORDS AVAILABLE 1958, 1960-61, 1963, 1965-70, 1972, 1974-75, 1977-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
NOV. 29, 1977	47.94	APR. 24, 1978	51.72				

#### JEFFERSON PARISH

300109090091001 LOCAL WELL NUMBER: JF-71

OWNER: GREATER NEW ORLEANS EXPRESSWAY COMMISSION. (SEC. 46, T. 12S., R. 10E.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 566 FT, SCREENED 551-566. MP HOLE IN SAFETY SEAL, 3.40 FT ABOVE LSD. 11.00 FT NGVD.

HIGHEST WATER LEVEL 66.60 BELOW LSD, MAR. 5, 1963 LOWEST WATER LEVEL 87.43 BELOW LSD, OCT. 17, 1973. RECORDS AVAILABLE 1963, 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 29, 1977		APR. 24, 1978	77.50				

# 295739090094601 LOCAL WELL NUMBER: JF-156

OWNER: JEFFERSON PARISH CONSOLIDATED WATER DISTRICT. (SEC. 46, T. 125., R. 10E.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 6 IN, DEPTH 780 FT, SCREENED 660-780. MP TOP OF 4-INCH PLASTIC LINER 2.05 FT ABOVE LSD.

LSD 9.00 FT NGVD.

HIGHEST WATER LEVEL 87.18 BELOW LSD, FEB. 9, 1978, LOWEST WATER LEVEL 94.34 BELOW LSD, NOV. 11, 1975. RECORDS AVAILABLE 1974-CURRENT YEAR.

- DATE	WATER LEVEL	DATE	WATER	DATE	WATER	DATE	WATER LEVEL
NOV. 29, 1977				APR. 24, 1978			91.81

#### ORLEANS PARTSH

# 301001089441301 LOCAL WELL NUMBER: 0R-23

OWNER: LOUISIANA PARKS AND RECREATION COMMISSION. (SEC. 19, T. 10s., R. 15e.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 6 IN, REPORTED DEPTH 547 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 6 X 2-IN REDUCER, 0.40 FT ABOVE LSD. 2.00 FT NGVD. LSD

LIGHEST WATER LEVEL 2.24 BELOW LSD, MAR. 25, 1958, LOWEST WATER LEVEL 16.60 BELOW LSD, NOV. 29, 1977. RECORDS AVAILABLE 1957-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
NOV. 29, 1977							

# 295652090020101 LOCAL WELL NUMBER: 0R-42

OWNER: U. S. NAVY. (SEC. 16, T. 13S., R. 24E.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 8 IN, REPORTED DEPTH 775 FT, SCREENED 664-775. MP TOP 2 X 6-IN RECORDER BASE, 1.0 FT ABOVE LSD. 10.00 FT NGVD.

HIGHEST WATER LEVEL 40.07 BELOW LSD, MAY 25, 1942, LOWEST WATER LEVEL 140.48 BELOW LSD, SEP. 20, 1968. RECORDS AVAILABLE 1942, 1949-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	C	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1977	115.63H	JAN. 5, 1978	106.13	APR. 5	, 1978	104.21	JUNE 30, 1978	112.40
JCT. 5	115.65	JAN. 10	106.38	APR. 10	)	104.49	JULY 5	111.60
OCT. 10	114.38	JAN. 15	106.35	APR. 15	5	105.93	JULY 10	111.89
OCT. 15	115.20	JAN. 20	105.76	APR. 20	)	105.83	JULY 15	112.28
OCT. 20	114.67	JAN. 25	105.11	APR. 24	•	106.06H	JULY 20	112.18
OCT. 25	112.88	JAN. 31	105.32	APR. 25	5	106.27	JULY 25	112.37
OCT. 31	113.52	FEB. 5	105.21	APR. 30	)	106.67	JULY 31	112.16
NOV. 5	113.53	FEB. 9	103.70H	MAY 5	5	106.85	AUG. 5	112.71
VOV. 10	113.10	FEB. 10	104.02	MAY 10	)	106.68	AUG. 10	112.28
NOV. 15	111.89	FEB. 15	104.36	MAY 15	5	106.34	AUG. 15	112.01
VOV. 20	111.63	FEB. 20	104.07	MAY 20	)	107.22	AUG. 20	112.28
NOV. 25	110.00	FEB. 25	104.30	MAY 23	3	106.79H	AUG. 25	112.54
VOV. 29	109.49H	FEB. 28	104.01	MAY 25	5	107.22	AUG. 31	112.47
10V. 30	109.50	MAR. 2	104.51H	MAY 31		107.41	SEP. 5	111.75
EC. 5	109.41	MAR. 5	104.59	JUNE 5	5	107.05	SEP. 7	111.80
EC. 10	109.56	MAR. 10	104.08	JUNE 10	)	108.42	SEP. 10	111.73
EC. 15	108.51	MAR. 15	103.76	JUNE 15	5	109.75	SEP. 15	111.51
EC. 20	108.49	MAR. 20	103.97	JUNE 16	5	110.18H	SEP. 20	111.50
EC. 25	107.87	MAR. 25	104.26	JUNE 20	)	110.17	SEP. 25	111.49
EC. 31	106.04	MAR. 31	104.20	JUNE 25	5	111.63	SEP. 30	111.84
JAN. 4, 1978	105.95H							

See footnotes at end of table.

# GROUND-WATER LEVELS

#### ORLEANS PARISH

300137089544201 LOCAL WELL NUMBER: 0R-78

OWNER: NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. (SEC. 37, T. 125., H. 13E.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 12 TO 9 IN, DEPTH 565 FT, SCREENED 486-565. MP HOLE IN SAFTEY SEAL, 1.36 FT ABOVE LSD. 4.00 FT NGVD.

HIGHEST WATER LEVEL 42.94 BELOW LSD, APR. 12, 1961, LOWEST WATER LEVEL 117.46 BELOW LSD, JULY 21, 1976. RECORDS AVAILABLE 1960-CURRENT YEAR.

	WATER			WATER		WATER		WATER
DATE	LEVEL		DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
NOV. 29, 1977	107.15	FEB.	9, 1978	104.28	APR. 29, 1978	104.75	AUG. 2, 1	978 110.50

300158090033801 LOCAL WELL NUMBER: 0R-128

OWNER: ORLEANS LEVEE BOARD, PONTCHARTRAIN BEACH. (SEC. 111, T. 125., R. 11e.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 8 TO 6 IN, DEPTH 581 FT, SCREENED 541-581. MP TOP EDGE OF HOLE IN SANITARY SEAL, 1.32 FT ABOVE LSD.

SCREENED 541-581. MP 107 LD-L LSD 5.00 FT NGVD. HIGHEST WATER LEVEL 117.64 BELOW LSD, FEB. 9, 1978, LOWEST WATER LEVEL 167.66 BELOW LSD, JULY 21, 1976.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
NOV. 29, 1977 JAN. 4, 1978 FEB. 9			126.95 129.06	MAY 23, 1978 JUNE 16		JULY 20, 1978 SEP. 7	147.88 148.26

300525089464001 LOCAL WELL NUMBER: 0R-175

OWNER: U. S. GEOL. SURVEY. (SEC. 38, T. 115., R. 14E.) DRILLED OBSERVATION ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 449 FT, SCREENED 439-449. MP TOP OF 2-IN CASING, 1.25 FT ABOVE LSD.
LSD 9.00 FT NGVD.

LSD 9.00 FT NGVD.
HIGHEST WATER LEVEL 19.84 BELOW LSD, SEP. 19, 1963,
LOWEST WATER LEVEL 35.95 BELOW LSD, NOV. 29, 1977.
RECORDS AVAILABLE 1963-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER	DATE	WATER LEVEL
NOV. 29, 1977	35.95 FE	B. 9, 1978	35.40	APR. 24, 1978	34.82	AUG. 2, 1978	35.50

300959089441901 LOCAL WELL NUMBER: OR-179

OWNER: U. S. GEOL. SURVEY. (SEC. 19. T. 10S., R. 15E.) DRILLED OBSERVATION ARTESIAN WELL IN ZONE 3 SAND OF MIOCENE AGE, DIAM 2 IN, DEPTH 2434 FT, SCREENED 2429-2434. MP CENTERLINE OF DISCHARGE PIPE, 2.87 FT ABOVE LSD.

LSD 4.00 FT NGVD.
HIGHEST WATER LEVEL 107.20 ABOVE LSD, NOV. 10, 1965,
LOWEST WATER LEVEL 72.70 ABOVE LSD, FEB. 9, 1978, AUG. 2, 1978.

RECORDS AVAILABLE 1965-CURRENT YEAR. WATER WATER WATER WATER DATE DATE DATE LEVEL DATE LEVEL LEVEL LEVEL FEB. 9, 1978 + 72.70 APR. 24, 1978 + 73.90 AUG. 2, 1978 + 72.70 NOV. 29, 1977 + 72.90

# ST. MARY PARISH

294749091402301 LOCAL WELL NUMBER: SM-57U

OWNER: U. S. GEOL. SURVEY. (SEC. 27, T. 145., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 638 FT, SCREENED 628-638. MP TOP OF 1 1/2-IN PIPE. 2.50 FT ABOVE LSD.

LSD 8.72 FT NGVD.

HIGHEST WATER LEVEL 6.40 BELOW LSD, APR. 15, 1965, LOWEST WATER LEVEL 10.25 BELOW LSD, DEC. 20, 1976. RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT. 31, 1977	9.27	FEB. 17, 1978	8.65	APR. 24, 1978	7.95	JULY 17, 1978	8.29
DEC. 8	9.56	FEB. 22	8.79	MAY 25	7.99	AUG. 14	8.28
JAN. 16, 1978	9.25	MAR. 23	8.44	JUNE 20	8.01	SEP. 19	8.00

#### ST. MARY PARISH

294749091402302 LOCAL WELL NUMBER: SM-57L .

OWNER: U. S. GEOL. SURVEY. (SEC. 27, T. 145., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AGUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 1/2 IN, DEPTH 738 FT, SCREENED 728-738, MP TOP OF 1 1/2-IN PIPE, 2.50 FT ABOVE LSD. LSD 8.72 FT NGVD.

HIGHEST WATER LEVEL 7.54 BELOW LSD, AUG. 16, 1973, LUWEST WATER LEVEL 11.93 BELOW LSD, OCT. 22, 1970.

RECORDS AVAILABLE 1964-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER	DATE	WATER LEVEL	DATE	WATER LEVEL
UCT. 31, 1977	10.67	FEB. 17, 1978	9.76	APR. 24, 1978	9.10	JULY 17, 1978	9.44
DEC. 8		FEB. 22	9.92	MAY 25	9.15	AUG. 14	9.41
JAN. 16, 1978		MAR. 23	9.53	JUNE 20	9.13	SEP. 19	9.19

295314091312101 LOCAL WELL NUMBER: SM-58

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 30. T. 135., R. 9E.) DRILLED OBSERVATION ARTESIAN WELL IN ATCHAFALAYA AQUIFER OF PLEISTOCENE AGE. DIAM 2 IN. DEPTH 194 FT. SCREENED 186-194. MP TOP OF 2-IN CASING, 2.0 FT ABOVE LSD. LSD 10.37 FT NGVD.

HIGHEST WATER LEVEL 3.35 BELOW LSD, FEB. 24, 1974, LOWEST WATER LEVEL 6.54 BELOW LSD, MAR. 7, 1977, RECORDS AVAILABLE 1966-72, 1974-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 27. 1978	5.85						

#### VERMILION PARISH

294705092115001 LUCAL WELL NUMBER: VE-28

OWNER: U. S. CORPS OF ENGINEERS. (SEC. 31, T. 14S., R. 3E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, REPORTED DEPTH 260 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 2-IN PIPE, 1.08 FT ABOVE LSD. LSD 6.74 FT NGVD. HIGHEST WATER LEVEL 1.25 BELOW LSD, APR. 11. 1944. LOWEST WATER LEVEL 1.85 BELOW LSD, MAR. 5, 1976. RECORDS AVAILABLE 1944-72, 1974-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
MAR. 1, 1978	10 12						
MAR. 17 1910	10.12						

295520092093001 LOCAL WELL NUMBER: VE-78

OWNER: J. F. NOEL, SR. (IRREG. SEC. 14+ T. 135., R. 3E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN. REPORTED DEPTH 295 FT, SCREENED INTERVAL UNKNOWN. MPHOLE IN TOP OF DISCHARGE PIPE, 1.16 FT ABOVE LSD.

8.71 FT NGVD. HIGHEST WATER LEVEL 5.28 BELOW LSD, APR. 11, 1944, LOWEST WATER LEVEL 21.84 BELOW LSD, FEB. 27, 1975, MAR. 5, 1976. RECORDS AVAILABLE 1944-66, 1968-69, 1971-72, 1974-CURRENT YEAR.

DATE	WATER	DATE	WATER LEVEL	DATE	WATER	DATE	WATER
MAR. 1, 1978	19.84						

300251092275801 LOCAL WELL NUMBER: VE-128

OWNER: CHARLES STANCIL. (IRREG. SEC. 33, T. 115., R. 1W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 10 IN, REPORTED DEPTH 330 FT, SCREENED 230-330. MP LOWER LIP OF DISCHARGE PIPE, 2.40 FT ABOVE LSD. LSD 9.86 FT NGVD.

HIGHEST WATER LEVEL 6.40 BELOW LSD, APR. 8, 1948, LOWEST WATER LEVEL 33.95 BELOW LSD, AUG. 26, 1965. RECORDS AVAILABLE 1946-72, 1974-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
	22.70						
FEB. 28, 1978	33.70						

#### CROUND-WATER I EVELS

#### VERMILION PARTSH

300245092200301 LOCAL WELL NUMBER: VE-333

OWNER: SIDNEY HERPIN. (SEC. 35, T. 11S., R. 1E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE. DIAM 10 TO 8 IN, REPORTED DEPTH 280 FT, SCREENED INTERVAL UNKNOWN. MP LOWER LIP OF DISCHARGE PIPE, 4.31 FT ABOVE LSD. 14.03 FT NGVD.

HIGHEST WATER LEVEL 15.69 BELOW LSD, MAR. 21, 1950, LOWEST WATER LEVEL 50.69 BELOW LSD, JUNE 24, 1968.

RECORDS AVAILABLE 1948-CURRENT YEAR.

			WATER			WATER			WATER		WATER
	DA	TE	LEVEL		DATE	LEVEL		DATE	LEVEL	DATE	LEVEL
NOV.		1977	36.01	FEB.	16, 1978	34.14	APR.	24, 1978	44.39	JULY 17, 1978 AUG. 15	43.67
		1978	33.98	MAR.		41.31	JUNE	-	43.57	SEP. 20	37.52

295650092245001 LOCAL WELL NUMBER: VE-442

OWNER: ROBLEY SIMON. (SEC. 1, T. 13S., R. 1W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE. DIAM 20 TO 10 IN, DEPTH 281 FT. SCREENED 198-281. MP LOWER LIP OF DISCHARGE PIPE, 5.08 FT ABOVE LSD. LSD 5.42 FT NGVD.

HIGHEST WATER LEVEL 11.88 BELOW LSD, APR. 4, 1956, LOWEST WATER LEVEL 21.37 BELOW LSD, FEB. 28, 1975. RECORDS AVAILABLE 1954-72, 1974-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 28, 1978	20.02						

#### 295645092165501 LOCAL WELL NUMBER: VE-460

OWNER: RENE DRONET. (SEC. 5, T. 135., R. 2E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 24 TO 10 IN, REPORTED DEPTH 300 FT, SCREENED INTERVAL UNKNOWN. MPLOWER LIP OF DISCHARGE PIPE, 4.53 FT ABOVE LSD. 9.78 FT NGVD. LSD

HIGHEST WATER LEVEL 4.20 BELOW LSD, MAR. 15, 1949, LOWEST WATER LEVEL 23.07 BELOW LSD, MAR. 9, 1977. RECORDS AVAILABLE 1948-72, 1974-75, 1977-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 28, 1978	21.17						

# 300117092005601 LOCAL WELL NUMBER: VE-501

OWNER: GERMAIN BARES. (SEC. 1, T. 12S., R. 4E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 8 IN, REPORTED DEPTH 227 FT, SCREENED 162-227. MP LOWER LIP OF DISCHARGE PIPE, 12.9 FT ABOVE LSD. 21.62 FT NGVD.

HIGHEST WATER LEVEL 20.62 BELOW LSD, MAR. 26, 1962, LOWEST WATER LEVEL 28.70 BELOW LSD, MAR. 1, 1978. RECORDS AVAILABLE 1958-66, 1968-72, 1974-75, 1977-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
1, 1978	28.70						

# 300240092083201 LOCAL WELL NUMBER: VE-586

OWNER: E. O. BROUSSARD. (SEC. 34, T. 11s., R. 3E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 8 IN, REPORTED DEPTH 259 FT, SCREENED 195-259. MP 1/2-IN PLUG ON SIDE OF PIPE, 3.02 FT ABOVE LSD. LSD 15.40 FT NGVD.

HIGHEST WATER LEVEL 19.47 BELOW LSD, APR. 29, 1958, LOWEST WATER LEVEL 30.78 BELOW LSD, FEB. 6, 1974, MAR. 9, 1976. RECORDS AVAILABLE 1958-68, 1974-CURRENT YEAR.

		WATER		WATER		WATER		WATER
	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
MAR.	1, 1978	30.18						

294609092193301 LOCAL WELL NUMBER: VE-601

OWNER: BEN C. HEBERT HEIRS. (SEC. 2, T. 15S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 20 TO 10 IN, REPORTED DEPTH 249 FT, SLOTTED 167-249. MP TOP OF CASING, 3.0 FT ABOVE LSD.
LSD 2.87 FT NGVD.
HIGHEST WATER LEVEL 3.49 BELOW LSD, DEC. 27, 1961,
LOWEST WATER LEVEL 10.19 BELOW LSD, NOV. 27, 1967.
RECORDS AVAILABLE 1961-72, 1974, 1977-CURRENT YEAR.

		WATER		WATER		WATER		WATER
	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
MAR.	1, 1978	5.80						

294825092202004 LOCAL WELL NUMBER: VE-629U

OWNER: U. S. GEOL. SURVEY. (SEC. 23, T. 14S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AGUIFER OF PLEISTOCENE AGE, DIAM 2 TO 1 IN, DEPTH 457 FT, SCREENED 447-457. MP TOP OF 1-IN PIPE, 2.95 FT ABOVE LSD. LSD 1.79 FT NGVD.

HIGHEST WATER LEVEL 3.77 BELOW LSD, MAR. 9, 1966, 7.40 BELOW LSD, AUG. 11, 1977. LOWEST WATER LEVEL

RECORDS AVAILABLE 1964-CURRENT YEAR.

ATE LEVEL	DATE			
		LEVEL	DATE	LEVEL

294825092202005 LOCAL WELL NUMBER: VE-629L

OWNER: U. S. GEOL. SURVEY. (SEC. 23, T. 14S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 TO 1 IN, DEPTH 487 FT, SCREENED 477-487. MP TOP OF 1-IN PIPE + 2.95 FT ABOVE LSD.

1.79 FT NGVD.

HIGHEST WATER LEVEL 3.89 BELOW LSD, MAR. 9, 1966 LOWEST WATER LEVEL 7.46 BELOW LSD, AUG. 11, 1977. RECORDS AVAILABLE 1964-CURRENT YEAR. 3.89 BELOW LSD, MAR. 9, 1966,

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 17, 1978	5.80						

295031092203202 LOCAL WELL NUMBER: VE-630U

OWNER: U. S. GEOL. SURVEY. (SEC. 10, T. 14S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 TO 1 IN, DEPTH 498 FT, SCREENED 488-498. MP TOP OF 1-IN PIPE, 2.93 FT ABOVE LSD. LSD 4.75 FT NGVD.

HIGHEST WATER LEVEL 7.15 BELOW LSD, MAR. 5, 1968, LOWEST WATER LEVEL 11.74 BELOW LSD, AUG. 11, 1977. LOWEST WATER LEVEL 11.74 BELOW LSD RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 17, 1978	9.59						

295031092203203 LOCAL WELL NUMBER: VE-630L

OWNER: U. S. GEOL. SURVEY. (SEC. 10, T. 145., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 TO 1 IN, DEPTH 528 FT, SCREENED 518-528. MP TOP OF 1-IN PIPE, 2.93 FT ABOVE LSD. LSD 4.75 FT NGVD.

HIGHEST WATER LEVEL 7.38 BELOW LSD, MAR. 9, 1966 LOWEST WATER LEVEL 11.83 BELOW LSD, AUG. 11, 1977. RECORDS AVAILABLE 1964-CURRENT YEAR. 7.38 BELOW LSD, MAR. 9, 1966,

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 17, 1978	9.72						

## GROUND-WATER LEVELS

## VERMILION PARTSH

295345092100702 LOCAL WELL NUMBER: VE-637U

OWNER: U. S. GEOL. SURVEY. (SEC. 15, T. 135., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 IN, DEPTH 196 FT, SCREENED 188-198. MP TOP OF 1-IN PIPE . 2.66 FT ABOVE LSD. 4.06 FT NGVU. LSD

HIGHEST WATER LEVEL 7.99 BELOW LSD, FEB. 24, 1966, LOWEST WATER LEVEL 13.51 BELOW LSD, JUNE 9, 1971. LOWEST WATER LEVEL 13.51 BELOW LSD, RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 22, 1978	10.52						

## 295345092100703 LOCAL WELL NUMBER: VE-637L

OWNER: U. S. GEOL. SURVEY. (SEC. 15, T. 135., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 IN. DEPTH 243 FT. SCREENED 233-243. MP TOP OF 1-IN PIPE, 2.66 FT ABOVE LSD. 4.06 FT NGVD.

HIGHEST WATER LEVEL 8.10 BELOW LSD, FEB. 24, 1966, LOWEST WATER LEVEL 15.11 BELOW LSD, JUNE 25, 1970. RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 22, 1978	10.71						

# 293845092264901 LOCAL WELL NUMBER: VE-639

OWNER: U. S. GEOL. SURVEY. (SEC. 2, T. 16S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 608 FT, SCREENED 603-608. MF TOP OF 2-IN CASING. 3.0 FT ABOVE LSD. 5.84 FT NGVD.

HIGHEST WATER LEVEL 6.22 BELOW LSD, OCT. 20, 1965, LOWEST WATER LEVEL 9.65 BELOW LSD, OCT. 29, 1976. RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER	DATE	WATER	DATE	WATER	DATE	WATER
DATE	LEVEL						
FEB. 17, 1978	8.85						

# 295341092055401 LOCAL WELL NUMBER: VE-650

U. S. GEOL. SURVEY. (SEC. 37, T. 135., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 205 FT, SCREENED 200-205. MP TOP OF 2-IN CASING, 2.50 FT ABOVE LSD. LSD 7.58 FT NGVD. HIGHEST WATER LEVEL 11.99 BELOW LSD, FEB. 24, 1966, LOWEST WATER LEVEL 18.85 BELOW LSD, JULY 20, 1971. RECORDS AVAILABLE 1965-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 23, 1978	13.61						

# 295616092304701 LOCAL WELL NUMBER: VE-653

OWNER: R. S. SIRMON. (SEC. 6, T. 13S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 TO 8 IN, DEPTH 291 FT, SCREENED 231-291. MP LOWER LIP OF DISCHARGE PIPE, 5.93 FT ABOVE LSD. 7.50 FT NGVD. LSD

HIGHEST WATER LEVEL 17.09 BELOW LSD, MAR. 4, 1969, LOWEST WATER LEVEL 20.57 BELOW LSD, MAR. 9, 1977, RECORDS AVAILABLE 1967, 1969-70, 1972, 1974-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 28, 1978							

295504092320101 LOCAL WELL NUMBER: VE-654

OWNER: ELLIS STANSEL. (SEC. 14, T. 135., R. 2W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 26 TO 12 IN, REPORTED DEPTH 267 FT, SCREENED 187-267. MP LOWER LIP OF DISCHARGE PIPE, 5.82 FT ABOVE LSD.
LSD 9.60 FT NGVD.

HIGHEST WATER LEVEL 14.68 BELOW LSD, MAR. 4, 1969, LOWEST WATER LEVEL 22.78 BELOW LSD, MAR. 9, 1977. RECORDS AVAILABLE 1969-70, 1972, 1974-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 28, 1978	21.18						

# 295240092240901 LOCAL WELL NUMBER: VE-655

OWNER: UNKNOWN. (SEC. 30, T. 13S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AGUIFER OF PLEISTOCENE AGE, DIAM 8 IN. DEPTH AND SCREENED INTERVAL UNKNOWN. MP TOP OF CASING, 4.75 FT ABOVE LSD.

5.00 FT NGVD. LSD HIGHEST WATER LEVEL 13.09 BELOW LSD, FEB. 22, 1972, LOWEST WATER LEVEL 14.85 BELOW LSD, MAR. 22, 1977. RECORDS AVAILABLE 1969, 1972, 1974, 1976-CURRENT YEAR.

		WATER		WATER		WATER		WATER
	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
		13.55						
MAR.	1, 1978	13.55						

# 293801092233801 LOCAL WELL NUMBER: VE-656

OWNER: EXXON CO., U.S.A. (SEC. B, T. 16S., R. 1E.) DRILLED DOMESTIC ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM, DEPTH, AND SCREENED INTERVAL UNKNOWN. MP TOP OF SEALED PLATE, 2.60 FT ABOVE LSD.
LSD 4.35 FT NGVD. HIGHEST WATER LEVEL LOWEST WATER LEVEL HIGHEST WATER LEVEL 5.29 BELOW LSD, FEB. 27, 1974, LOWEST WATER LEVEL 7.00 BELOW LSD, MAR. 1, 1978. RECORDS AVAILABLE 1969-70, 1972, 1974-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
MAR. 1, 1978	7.00						

# 295606092365001 LOCAL WELL NUMBER: VE-657

OWNER: EVANS CORMIER. (SEC. 6, T. 135., R. 2W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 10 TO 8 IN, DEPTH 241 FT, SCREENED 201-241. MP LOWER LIP OF DISCHARGE PIPE, 2.42 FT ABOVE LSD. 2.00 FT NGVD.

HIGHEST WATER LEVEL 22.46 BELOW LSD, MAR. 4, 1969, LOWEST WATER LEVEL 25.93 BELOW LSD, FEB. 28, 1975. RECORDS AVAILABLE 1969-70, 1972, 1974-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 28, 1978	24.58						

# 293214092180901 LOCAL WELL NUMBER: VE-658

OWNER: U. S. CORPS OF ENGINEERS. (SEC. 19, T. 175., R. 2E.) DRILLED DOMESTIC ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 6 IN, REPORTED DEPTH 645 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF SANITARY SEAL, 2,25 FT ABOVE LSD. 8.60 FT NGVD. LSD

HIGHEST WATER LEVEL 6.68 BELOW LSD, JAN. 22, 1969, LOWEST WATER LEVEL 9.65 BELOW LSD, FEB. 22, 1972. RECORDS AVAILABLE 1969-70, 1972, 1974-CURRENT YEAR.

		WATER		WATER		WATER		WATER
	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
MAR.	1, 1978	7.85						

<sup>+</sup> Above land-surface datum.

H Tape measurement (recorder).

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# FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	Ву	To obtain SI units
	Length	
inches (in)	2.54x10 <sup>1</sup>	millimeters (mm)
foot (ft)	2.54x10 <sup>-2</sup> 3.048x10 <sup>-1</sup>	meters (m)
feet (ft) miles (mi)	1.609x10°	meters (m) kilometers (km)
mics (m)	1.007X10	Knometers (Km)
	Area	
acres	4.047x10 <sup>3</sup>	square meters (m <sup>2</sup> )
	4.047x10 <sup>-1</sup>	square hectometers (hm²)
	4.047x10 <sup>-3</sup>	square kilometers (km <sup>2</sup> )
square miles (mi <sup>2</sup> )	2.590x10°	square kilometers (km <sup>2</sup> )
	Volume	
gallons (gal)	3.785x10°	liters (L)
Barrous (Bar)	3.785x10°	cubic decimeters (dm <sup>3</sup> )
	3.785x10 <sup>-3</sup>	cubic meters (m <sup>3</sup> )
million gallons	$3.785 \times 10^3$	cubic meters (m <sup>3</sup> )
1. 6 . (0.3)	3.785x10 <sup>-3</sup>	cubic hectometers (hm³)
cubic feet (ft³)	2.832x10 <sup>1</sup>	cubic decimeters (dm³)
cfs-days	2.832x10 <sup>-2</sup> 2.447x10 <sup>3</sup>	cubic meters (m <sup>3</sup> ) cubic meters (m <sup>3</sup> )
CIS-uays	$2.447 \times 10^{-3}$	cubic hectometers (hm³)
acre-feet (acre-ft)	$1.233 \times 10^3$	cubic meters (m <sup>3</sup> )
	1.233x10 <sup>-3</sup>	cubic hectometers (hm <sup>3</sup> )
	1.233x10 <sup>-6</sup>	cubic kilometers (km³)
	Flow	
1. 6.	2.022.101	
cubic feet per second (ft <sup>3</sup> /s)	2.832x10 <sup>1</sup>	liters per second (L/s)
	2.832x10 <sup>1</sup> 2.832x10 <sup>-2</sup>	cubic decimeters per second (dm <sup>3</sup> /s) cubic meters per second (m <sup>3</sup> /s)
gallons per minute (gal/min)	$6.309 \times 10^{-2}$	liters per second (L/s)
Barrons for minute (Barlinin)	6.309x10 <sup>-2</sup>	cubic decimeters per second (dm <sup>3</sup> /s)
	6.309x10 <sup>-5</sup>	cubic meters per second (m³/s)
million gallons per day	4.381x10 <sup>1</sup>	cubic decimeters per second (dm <sup>3</sup> /s)
	4.381x10 <sup>-2</sup>	cubic meters per second (m³/s)
	Mass	
tons (short)	9.072x10 <sup>-1</sup>	megagrams (Mg) or metric tons



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