

AFOEHL REPORT 90-229EQ00058MSC



D-A233 936

**Sanitary/Storm Drainage
Characterization Survey
Eglin AFB FL**

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December 1990

Final Report

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**AF Occupational and Environmental Health Laboratory (AFSC)
Human Systems Division
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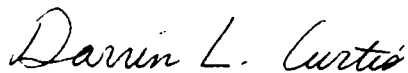
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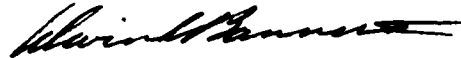
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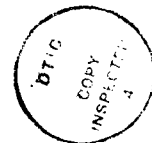
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13. ABSTRACT (Maximum 200 words) The AFOEHL conducted a sanitary/storm drainage survey at Eglin AFB FL from 30 July to 10 August 1990. The scope of the survey was to evaluate the sanitary and stormwater systems and the need for a National Pollutant Discharge Elimination System (NPDES) permit. Recommendations: (1) Conduct a dye test on the photo lab drains to verify which one is discharging photo wastes to the storm sewer system. (2) Sample Jack's Lake for mercury, phenol, and iron to verify if the mercury levels are derived from the water shed area or the saltwater intrusion at the sampling site. Sample sediment at the influent stream to Jack's Lake and test for mercury. (3) Identify the source of iron around site 6. (4) Resample site 24 to verify the high pH concentration and identify the source. (5) Apply for a NPDES permit for O/W separator at bldg 1313 or design a locking devise to prevent any discharge into the drainage ditch. (6) Clean the O/W separators and incorporate a monitoring system for the separators.				
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The authors greatly appreciate the technical expertise and the hard work provided by the other members of the survey team: MSgt Benjamin Hernandez, SSgt Amy J. Smith, Sgt Robert P. Davis, Sgt Stanley A. Dabney and Amn Keanue Simmons, without their valuable assistance the survey could never have been accomplished.

The team would like to acknowledge the entire staff of the Bioenvironmental Engineering Section for their help during the survey.



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I. INTRODUCTION

A. On 9 April 1990, the 3200 Support Wing/DEV requested the Air Force Occupational and Environmental Health Laboratory (AFOEHL) Water Quality Branch conduct a basewide wastewater characterization survey.

B. The objective of the survey was to characterize the wastewater discharges to the storm water and sanitary sewer systems and to determine if National Pollutant Discharge Elimination System (NPDES) permits are required for the storm water discharges. The survey was also designed to review the industrial shop discharges that feed into the various wastewater systems and determine whether the discharges are proper.

C. The survey was conducted from 30 July to 10 August 1990 by the following members of AFOEHL:

1Lt Darrin L. Curtis
Sgt Stanley A. Dabney
Sgt Robert P. Davis
MSgt Benjamin Hernandez

MSgt E. John Randall
Amn Keanue Simmons
SSgt Amy J. Smith

II. DISCUSSION

A. Background

Eglin Air Force Base is located in Okaloosa County, Florida, two miles southwest of the twin cities of Niceville and Valparaiso and seven miles northeast of Fort Walton Beach. Eglin AFB is the focal point of nonnuclear armament development for the Air Force. This responsibility includes the research, development, testing, evaluation, and procurement of conventional weapons and ancillary equipment.

The Air Force Development Test Center (AFDTC) is the center of administration and control for operations conducted on the Eglin Reservation. The basic missions of the AFDTC are the development and initial procurement of air armament and associated equipment, research and development testing within assigned mission areas, and support of the many tenant organizations on the Eglin Reservation.

B. Climate

The August weather in the Fort Walton Beach area, including Eglin AFB and Hurlburt Field, is dominated by a large high pressure area which prevents the influence of major storm systems. Consequently, this means little day-to-day change with average high temperatures of about 91° F, average lows of 75° F, and average relative humidity around 75%. Precipitation occurs on a daily basis, but is very isolated with most points receiving less than 0.1 inches/day about 9 to 10 days a month.

C. Hydrology

The Eglin reservation covers an area of approximately 464,980 acres. Within the boundaries of the Eglin Reservation, usable quantities of fresh

water occur in parts of three principal aquifers: the sand and gravel aquifer, the upper limestone of the Floridan aquifer, and the lower limestone of the Floridan aquifer. The recharge area is considered to be in the northern area of Florida and southern Alabama.

Area surface water consists of rainfall, surface runoff, and water which drains from the sand and gravel aquifer. Surface water is used primarily for recreational purposes, with most industrial and domestic requirements being supplied by wells drilled into the aquifers. Eglin AFB generally obtains its supply of potable water from the upper Floridan aquifer which is under artesian pressure. Ground water movement in the upper Floridan aquifer is in a southwesterly direction.

The northern and western portion of the Eglin reservation drains to Pensacola Bay, while the southern and eastern portions drain to Choctawhatchee Bay. Elevations vary from sea level at both bays to a maximum of 280 feet in the extreme northeast portion of the reservation. The main Eglin AFB runway system and administrative area is at an average elevation of 60 feet and drains in a southeasterly direction towards Choctawhatchee Bay and its bayous.

D. Sanitary Sewerage System

Sanitary sewage is collected and transported by gravity and pressure lines to two sewage treatment plants located on Eglin AFB. Gravity flow sewer systems are used wherever practical. Areas of low elevation are provided sewer service through the use of lift stations. Domestic and industrial wastewater is processed by primary and secondary treatment and returned to the ground by spray irrigation or percolation systems. Treatment is provided by the two sewage treatment plants discussed below.

1. Plew Housing Aeration Treatment Facility

a. The military family housing area and the hospital are served by a 1.5-million gallon per day (MGD) sewage treatment plant (STP). The average daily flow for January through November 1990 was 0.02 MGD.

b. The Plew STP consists of a 0.2 MGD extended aeration plant constructed in 1966, one 0.5 MGD contact stabilization plant constructed in 1972 (Plew 2), and one 1.0 MGD contact stabilization plant (Plew 3) constructed in 1973.

c. The final effluent is pumped to a holding basin and then sprayed over several acres (TAC area spray fields) for vegetative absorption and percolation into the sand and gravel aquifer to become ground water. The spray system was constructed in 1974.

2. Main Base Treatment Facility Plant

a. The main base and TAC areas are served by a 1.0-MGD sewage treatment plant constructed in December 1987. The average daily flow for November 1989 through November 1990 was 0.64 MGD.

b. The plant consists of a grit chamber (at old STP), aeration zone, primary clarifiers, contact chambers, and a recirculating sludge

digester. The final effluent is also pumped to a holding basin and then sprayed over several acres (TAC area spray fields) for vegetative absorption and percolation into the sand and gravel aquifer to become ground water. The spray system was constructed in 1974.

c. The main base plant, located in the TAC area, replaced a 0.75-MGD sewage treatment plant constructed in 1942. The old STP consisted of open digesters, trickling filters, and clarifiers. Sewage is still pumped to the old STP where it acts as a transfer point and lift station. With the exception of the grit chamber, the facilities at the old STP are no longer operational.

E. Discharge Limitations

Eglin AFB does not currently have a National Pollutant Discharge Elimination System (NPDES) permit.

F. Storm Water

Nonpoint source water pollution is increasingly recognized as the primary source of surface water degradation. It is the cause for nonattainment of water quality goals in 6 out of 10 EPA regions. Nonpoint source pollution is responsible for 73% of the oxygen demand loadings, 84% of nutrients, 98% of bacteria counts, and 99% of suspended solids in the nation's waters. Agricultural runoff is generally considered the most pervasive cause of nonpoint source water quality problems. In nonagricultural areas, the nonpoint source pollution stream composition reflects the local mix of residences, commercial activities, and industry.(6)

Urban storm water runoff behaves in a different manner than typical municipal wastewater discharges for which many standards been developed. Storm runoff occurs for relatively short periods of time and the storm can either be of short duration and high intensity or a long-lasting, low intensity event. Toxic heavy metals, organic pollutants, fecal coliform bacteria and pathogens, and sediment are commonly associated with urban receiving-water problems. Most beneficial water uses, including shellfish harvesting, fish and aquatic-life propagation, drinking water, and recreation have been adversely affected by urban storm water runoff.(5)

Preliminary toxicity results have found that runoff samples vary widely in their relative toxicities. Samples of runoff from areas that have relatively high toxicities include automobile service facilities, unpaved industrial parking and storage areas, and paved industrial streets. Toxicants that have most commonly been found include heavy metals, pyrene, fluoranthene, and 1,3-dichlorobenzene.(5)

Because some industrial storm water runoff contains toxics and other pollutants, the U.S. Environmental Protection Agency (EPA) considers storm water a major source of water contamination. Under new regulations proposed by the EPA, storm water is defined as rain or snow runoff that comes into contact with an industrial facility or is contaminated by overburden, raw material, products, or wastes whether or not the water is intentionally channeled or collected. The EPA is also proposing that any facility that discharges industrial storm water directly into U.S. waters will require a National Pollutant Discharge Elimination System (NPDES) permit.(3, 4)

III. PROCEDURES

A. Sampling Strategy

Eglin AFB requested that the wastewater discharges from storm water drains and the sanitary sewage system be analyzed for the following parameters: biochemical oxygen demand (BOD), cadmium, chromium, copper, oils and greases, petroleum hydrocarbons, phenols, total Kjeldahl nitrogen (TKN), total suspended solids (TSS), trichloroethylene, and volatile organic aromatics and halocarbons. These parameters were included in the sampling protocol, which is shown in Appendix C, along with the preservation and analytical methods used.

B. Sampling Sites

Wastewater sample site locations are also presented in Appendix C. These sites were selected to include potentially regulated monitoring points, significant industrial and domestic discharge points, and operations that might require pretreatment. The sites were determined by mutual agreement between the Base Bioenvironmental Engineering Office and the AFOEHL Water Quality Branch.

C. Sampling Method and Frequency

Storm water sites were typically sampled for a 3-day period and were collected as grab samples. Sanitary sewers were typically collected over a 2-day period as time proportional 24-hour composite samples (i.e., a composite sample combines a number of samples at different intervals into a single container). The influent and effluent at the sewage treatment plants were collected as 24-hour composite samples over a 3-day period.

The strategy for determining how many samples and how often they were to be analyzed from any given site was based on the available resources, the changing nature of the wastewater, the probability of finding a particular parameter in the time frame, and the type of analysis required. Oil/water separators were not routinely sampled but were visually inspected to determine whether they were operating properly.

D. Sampling Procedures

1. Grab samples were collected manually and either poured into a 3-gallon glass container or poured directly into sample containers.

2. Composite samples were collected using either an Isco Model 2700 or American Sigma Model 702 Composite Wastewater Sampler. Composite samples were collected in 3-gallon glass containers which were surrounded by ice in the sampler to maintain a 4° C temperature throughout the sampling period. Samples collected at composite sampling sites that were to be analyzed for oils and grease, suspended solids, and volatile organic compounds (VOCs) were collected as grab samples.

3. The samples were transported to the AFOEHL on-site laboratory (set up in building 1533) and segregated by analysis method for preservation. Samples were kept refrigerated at 4° C until they were shipped to the AFOEHL Analytical Services Division at Brooks AFB TX for analysis.

E. Quality Assurance/Quality Control

A quality assurance/quality control (QA/QC) plan was implemented to insure that consistently accurate and reproducible qualitative and quantitative analytical data were obtained during the survey. Inaccuracies in analytical data can result from many causes, including equipment malfunctions and operator error. Sample contamination is also a common source of error and may come from residue in sampling containers or may be introduced during sample collection, preservation, handling, storage, or transport to the laboratory. The elements of the QA/QC plan used during this survey are discussed below.

1. Field Blanks: Field blank samples are aqueous solutions that are as free of analytes as possible and they are transferred from one container to another at the sampling site and preserved with the appropriate reagents. They serve as a check on reagents and environmental contamination. Field blanks were collected and processed each day of sampling.

2. Duplicate Samples: Duplicate samples are two separate samples taken from the same source (i.e., in separate containers and analyzed independently). Duplicate samples serve as a measure of precision, which is the agreement between a set of replicate measurements without assumption or knowledge of the true value. Duplicate samples were collected from four separate sites on four separate days.

3. Equipment Blanks: Equipment blanks are aqueous solutions that are as free of analytes as possible and poured over or through the sample collection device and collected in a sample container. They serve as a check on the cleanliness of the sampling device. One equipment blank was collected from a 3-gallon glass container after it was washed and cleaned with Alconox detergent, which was the standard equipment cleaning procedure.

4. Background Samples: Background samples are potable water samples taken from the drinking water distribution system. They serve as an indication of the local water quality, i.e., the naturally occurring physical and chemical properties of the water in an area. Two background samples were collected from building 1533.

5. Equipment Calibrations: pH/temperature meters were calibrated daily with 4.0 and 7.0 standardized pH buffer solution. Electrodes were rinsed with distilled water between each measurement. Dissolved oxygen (DO) meters were calibrated using the Winkler-Azide Method.



Figure 1. Site 001 "The Blue Lagoon"

IV. RESULTS

A. Storm Drainage System

No substantial rainfall occurred during the survey. The storm drains or outfalls that had flow in them at the time of the survey were the only ones that were evaluated. These included the following eight sites: outfall to Tom's Bayou (Site 001A and Site 001B), Jack's Lake outfall (Site 002), outfall from Beaver Pond (Site 003), outfall from Lower Memorial Lake (Site 004), outfall to Weekly Bayou (Site 005), Storm Drain 533 (Site 006), storm drain near the old STP (Site 007), and the outfall from Trout Lake (Site 008). The laboratory results for the wastewater characterization of the storm water drainage sampling points are presented in Appendix I and summarized in Appendix L. Listed below are the higher concentrations for cyanide, iron, mercury, and phenol.

1. Site 001B contained cyanide at a level of 15 mg/L averaged from four samples. Iron is also high at this point with the average being over 4 mg/L.

2. Site 002 has an iron content of 3 mg/L and mercury of 4 ug/L. Phenol has a concentration of 50 ug/L.

3. Site 006 contains iron with an extremely high level of over 87 mg/L averaged over two samples.

For chemical or physical parameters reported as less than the detection limit (known as censored data), one-half of the detection limit was used as the value to calculate the arithmetic mean. In some cases, this resulted in the mean or average value being reported as a value that is less than the detection limit. This method is statistically valid as censored samples imply that for a portion of the population the attribute of interest cannot be detected or quantified, but it is known that a portion falls below some value.

B. Sanitary Sewerage System

Wastewater in the sanitary sewerage system was evaluated at 15 sampling sites which included manholes 16, 24, 29, 188-A, 188-B, 195, 201, 215, 251, 391, 402 and 1132. Manhole 1131 (Site 035), which is one of the connections to the hospital, was not accessible to the survey team and was not sampled. The influent and effluent of the Plew Sewage Treatment Plant and the effluent of the Main Base Sewage Treatment Plant were also evaluated. The influent to the Main Base STP was not accessible to the survey team for composite sampling and was not sampled. Manhole 402 was the last manhole on the Main Base outfall line and was selected as a substitute for the Main Base STP influent. The laboratory results for the wastewater characterization of the sanitary sewerage system are presented in Appendix J and summarized in Appendix L. (See paragraph IV.A above for a discussion of censored data). Listed below are the higher concentrations of pH and phenol. All other parameters fell within the typical ranges found at most Air Force base installations.

1. Site 024 had a high pH with the average of 2 samples being over 10.5.

2. Sites 032 and 033 contained phenol that was above 450 ug/L.

C. Industrial Wastewater

Twenty-three oil/water separators were inspected during the survey. Many of the separators were filled to capacity and were not operating properly. Only one oil/water separator (near Building 1313) was actually sampled. The laboratory results are presented in Appendix J and summarized in Appendix L.

Site 058 O/W separator contains phenols of over 90 ug/L and surfactants of 11.8 mg/L.

Several wastewater samples at Manhole 215 (Site 030) and Storm Drain 059 (Site 001: outfall to Tom's Bayou) were noted to contain "blue water." Photographic development chemicals were suspected and interviews with personnel at the photo lab confirmed that they had disposed of photo chemicals at the times that the "blue water" was observed at both of these sites. Analyses of samples for bromides, cyanides, and silver appears to confirm the photo lab as the source of the "blue water."

D. Quality Assurance/Quality Control

The laboratory results of the blank and duplicate samples are presented in Appendix K. The duplicate samples were taken to determine the variability of the data caused by sampling technique. This is a new program in the water branch and a generic technical report is being developed that will discuss variability of data due to sampling techniques and laboratory practices.

The biochemical oxygen demand (BOD) test measures the oxygen-demand created as microorganisms decompose organic material and should produce a drop of between 0.6 and 1.0 milligrams per liter (mg/L) in dissolved oxygen over a 5-day period. The BOD tests conducted during the survey produced a dissolved oxygen drop of over 4.0 mg/L in the control samples which invalidated all of the BOD sample results. In accordance with Standard Methods, BOD samples are seeded to produce a population of microorganisms capable of oxidizing the biodegradable organic matter in the samples. A review of the BOD laboratory procedure indicated that too much seed (i.e., 4 mL instead of the 2 mL recommended) was used which caused the excessive drop in dissolved oxygen.

V. CONCLUSIONS/RECOMMENDATIONS

A. Stormwater

Site 001B, "The Blue Lagoon," is contaminated by photo lab waste. The indications are high cyanide levels (over 600 times the acute criteria) and the bluish tint to the water. Data shows iron levels four times greater than the freshwater chronic level. We recommend the base conduct dye tests in the photo lab, drain-by-drain over an extended period. Sample one drain each morning and verify whether the dye is entering the sanitary or storm sewer. Two different colored dyes alternating each day would be ideal; this would allow the dye from the previous day to be flushed through the system. Note that since the photo lab is dispensing dye of its own, a false reading could be detected.

Site 002 has an iron content three times the chronic level and mercury 1.6 times over the acute level. Phenol was discovered in concentrations that would suggest some type of industrial influence. This site did indicate saltwater intrusion based on the specific conductance. The base should resample Jack's Lake for iron, phenol, and mercury. Also, the base should take sediment samples from the northeast arm of the lake and below the abandoned sanitary fill and analyze them for mercury. These results could clarify whether our data represents saltwater intrusion (which naturally contains from 0.03 to 2.0 ug/L of mercury).

Site 006 has an extremely high level of iron, over 87 times the chronic criteria for fresh water. The iron source is most likely the DRMO salvage yard upstream.

B. Sanitary Sewer System

Site 024 had a pH level above normal. This is not necessarily bad, but it indicates a very strong base is being discharged into the sanitary

sewer. Site 025, above site 024 had a normal pH reading. We recommend the base measure pH periodically at Site 024 and determine if elevated pH is a continuing problem or was a one-time event. If above normal readings are still present, track the sanitary sewer lines until the shop is found that is discharging the base. Once found, evaluate alternative methods for disposing of the waste.

C. Oil/Water (O/W) Separators

Only the O/W separator at building 1313, Site 058 was sampled. It contains phenol and surfactants. This separator has been known to discharge its contents directly into the ditch located near the separator. A locking device should be placed on the separator's valve (Figure 2) making it impossible to discharge the contents to the ditch. If this separator is discharging the contents to the ditch, a possible NPDES permit may be needed. The other O/W separators were visually inspected. During the survey, especially during the outbrief with the 3200th Support Wing/CC, it was apparent that there had been problems with the local contractor that cleans the separators not only at Eglin but also at Hurlburt Field. Capt Patrick Paddock, from the 3202 CES/DEM, informed us that the process of resolving problems with the contractor had begun. The problem should be resolved with the cleaning of the separators, and the base should incorporate a frequent monitoring schedule for the separators.

D. Other

The tank car that is being used for storage of recyclable oil at DRMO is not regulated according to the Florida Department of Environmental Resources Regional Office located in Pensacola. According to the conversation with the regional office, this tank car may be regulated under the Florida Advisement Code 17-762. This regulation is under review and should be published in late spring to mid summer.



Figure 2. O/W Separator 1313

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APPENDIX A
Request Letter



DEPARTMENT OF THE AIR FORCE
AIR FORCE SYSTEMS COMMAND REGIONAL HOSPITAL EGLIN (AFSC)
EGLIN AIR FORCE BASE, FLORIDA 32542-5300

REPLY TO
ATTN OF:

SGPB

16 April 1990

SUBJECT: Request for OEHL Support; Wastewater and Hazardous Waste Characterization

TO: HQ AFSC/SGPB *Concur, Col Capell 24 Apr 90*
AFOEHL/CC
/EQ
IN TURN

1. The attached letter from Lt Col Jerry Morford, Chief Environmental Protection Division, Eglin AFB, requests Air Force Occupational and Environmental Health Laboratory (AFOEHL) support for wastewater and hazardous waste stream characterization studies. The request only covers the activities at the main airfield on Eglin AFB and at Duke Field. Bioenvironmental Engineering Services (BES), AFSC Regional Hospital Eglin/SGPB, also requests the same studies be performed at Hurlburt Field, which is on the Eglin Reservation. The environmental programs at Hurlburt Field are managed by Mr Michael Applegate, 834 CES/DEEV. Mr Applegate indicates his activities would also benefit from these studies. The following paragraphs provide a brief review of the Hurlburt Field sanitary sewer and RCRA waste programs and outline the size of the BES function.
2. Hurlburt Field. The units at Hurlburt Field are commanded by the 1 Special Operations Wing (1 SOW), a Military Airlift Command unit. Hurlburt does not have a NPDES permit at this time. The sanitary sewer system discharges to the publicly owned treatment works (POTW) of Mary Esther, FL. This POTW discharges to spray fields on land donated by Eglin AFB. The Mary Esther POTW spray fields are currently overloaded and under a Florida Department of Environmental Regulation (FDER) compliance agreement. Last year Hurlburt Field disposed of 12,543 pounds of RCRA hazardous waste through the Defense Reutilization and Marketing Office (DRMO) on Eglin AFB, recycled 5271 pounds of solvents and paint thinners to an off base contractor, and sent 13,350 gallons of waste petroleum products to Auburn University for energy reuse.
3. BES Program. The BES programs service approximately 345 shops; 212 at Eglin AFB, 97 at Hurlburt Field, and 36 at Duke Field. While all three airfields support flying activities, Eglin AFB also supports specialized functions for weapons research and development, a Navy EOD school, an Army Ranger Camp, an AFSPACECOM PAVE PAWS site, and a number of gunnery ranges. Parts of the Eglin Reservation are home to two endangered species: The red-cockaded woodpecker and the Okaloosa darter. BES is collecting storm drainage and sanitary sewer system maps for Eglin, Duke, and Hurlburt and will send these direct to AFOEHL under separate cover.

4. Please call Lt Col Morford, AV 872-4435; Mr Applegate, AV 579-7582; or me at AV 872-5787 if you have additional questions or requests for information.



DENTON CROTCHETT, Maj, USAF, BSC
Director, Bioenvironmental Engineering

1 Atch
3200 SPTW/DEV Ltr 9 Apr 90

cc: HQ MAC/SGPB
S14 CES/DEEV
3200 SPTW/DEV w/o atch



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 3200TH SUPPORT WING (AFSC)
EGLIN AIR FORCE BASE, FLORIDA 32542-5000

REPLY TO
ATTN OF: DEV

SUBJECT: Request for OEHL Support

APR 09 1990

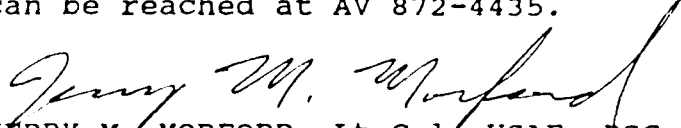
TO: 3200 SPTW/SGPB

1. Request OEHL consultative support for the following:

a. Wastewater characterization survey. There are a number of discharges to the stormwater and sanitary sewer systems at Eglin Main, the 33rd Tactical Fighter Wing, and Duke Field areas that need characterization. The primary intent is to review the shop discharges that feed into the various systems and determine whether the discharges are proper. We also need to determine if National Pollutant Discharge Elimination System permits are required for the stormwater discharges. Eglin's sanitary sewer system feeds into its own sewage treatment plants with spray fields; there are no Publicly Owned Treatment Works (POTW) involved. We also request recommendations regarding the need for pre-treatment of the industrial wastes even though we are not served by a POTW.

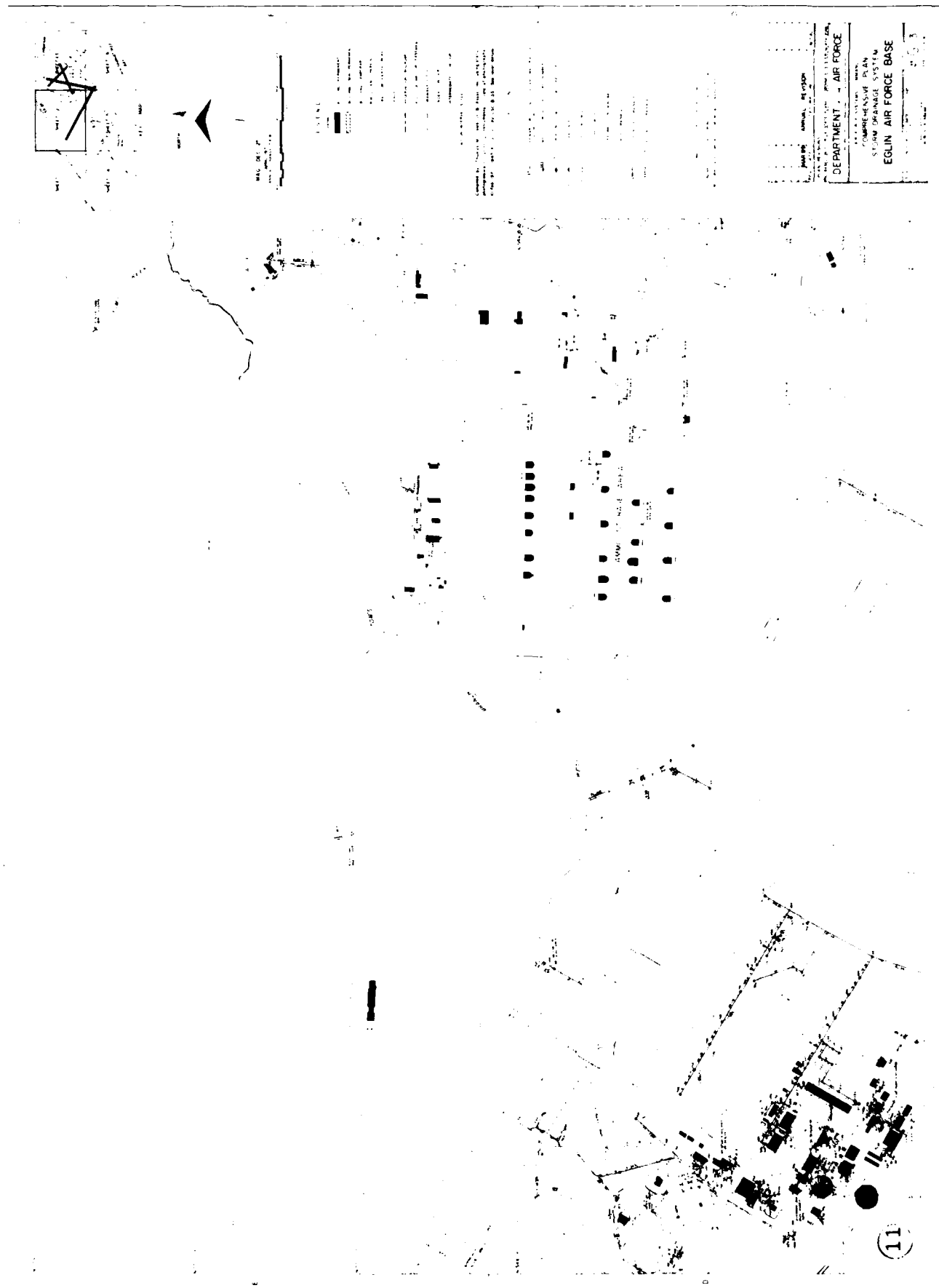
b. Hazardous waste stream characterization. Eglin is disposing of 67,000 pounds of RCRA hazardous waste per year but the only sampling of that waste stream is for the unknown drums of material that occasionally show up. Most turn-ins accept the generator's characterization which is based on product knowledge. We request that OEHL review our hazardous waste stream, do a round of representative sampling, and make recommendations for periodic, random sampling of the waste stream. We also request a review of our hazardous waste minimization activities and make recommendations for improvement.

2. Both of these requests are intended to clarify Eglin's compliance with various environmental regulations and are supported by AFR 19-7 para 7g and AFR 19-11 para 20b. We will be happy to provide background information, maps, etc to OEHL concerning the surveys requested and will support them during their on-site work. I will be the initial point of contact and can be reached at AV 872-4435.

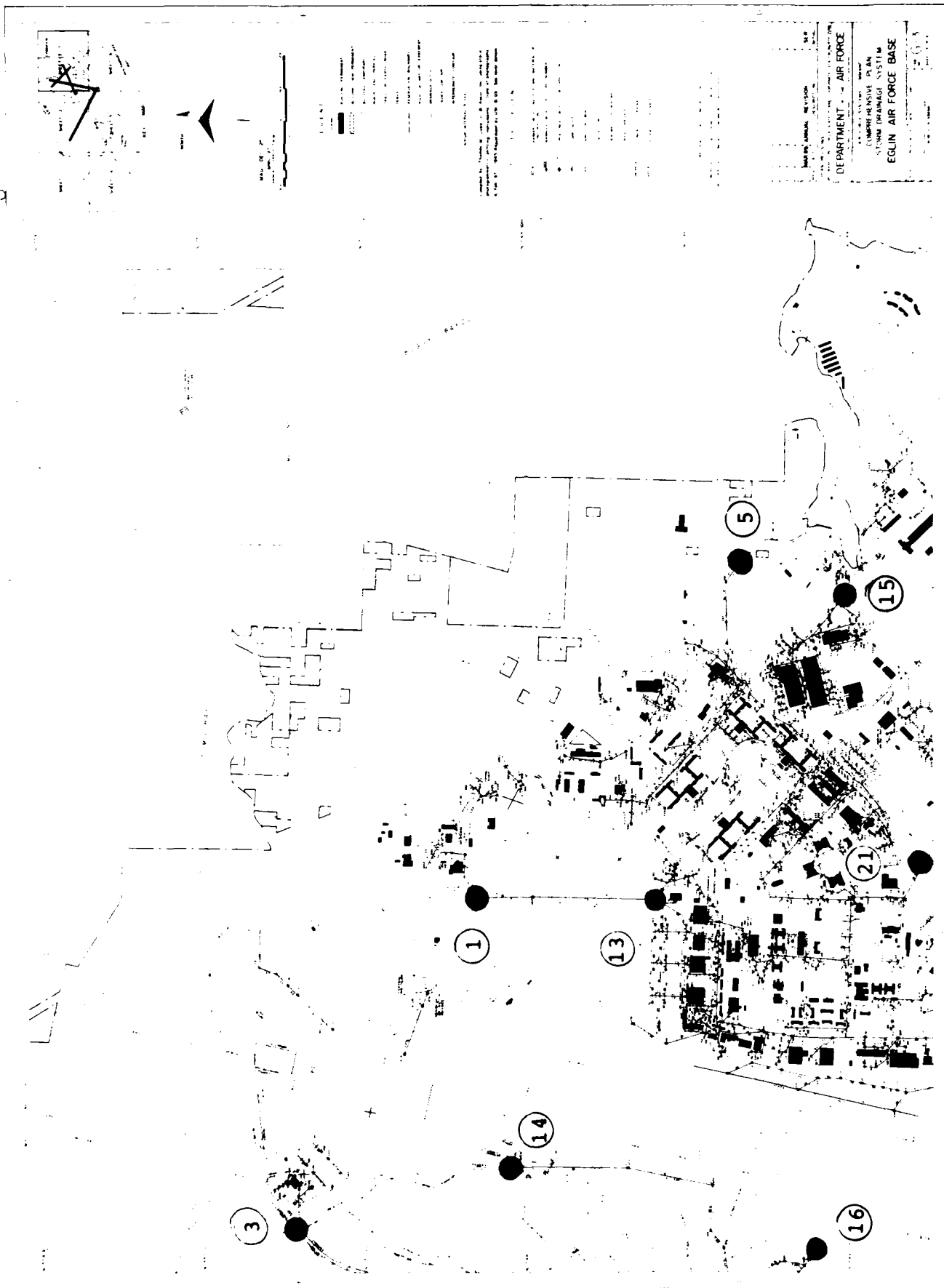

JERRY M. MORFORD, Lt Col, USAF, BSC
Chief, Environmental Protection Division
Directorate of Civil Engineering

APPENDIX B
Maps of Eglin Reservation

Storm Drainage System: Tab G-3, Sheet Number 1



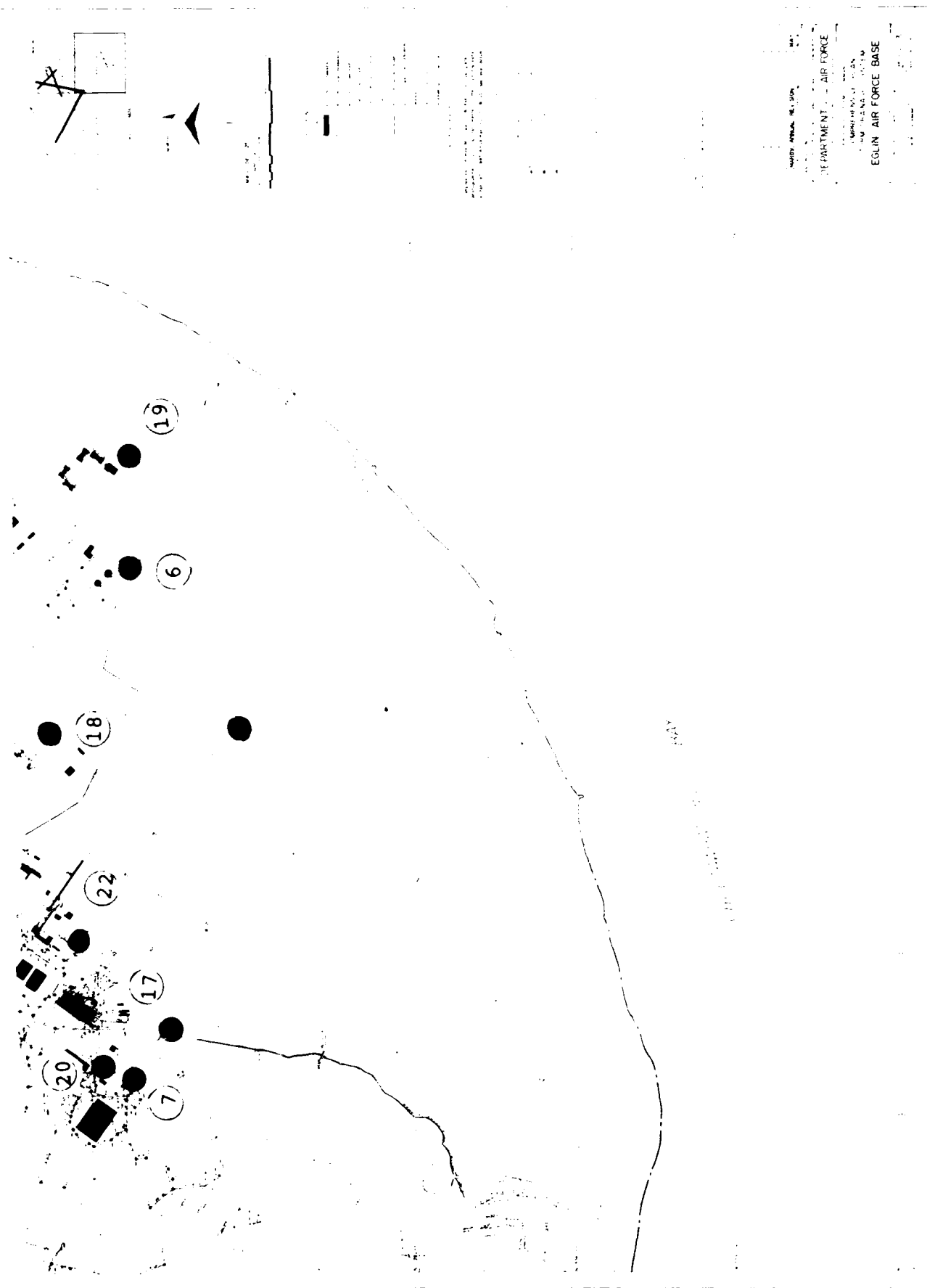
Storm Drainage System: Tab G-3, Sheet Number 2



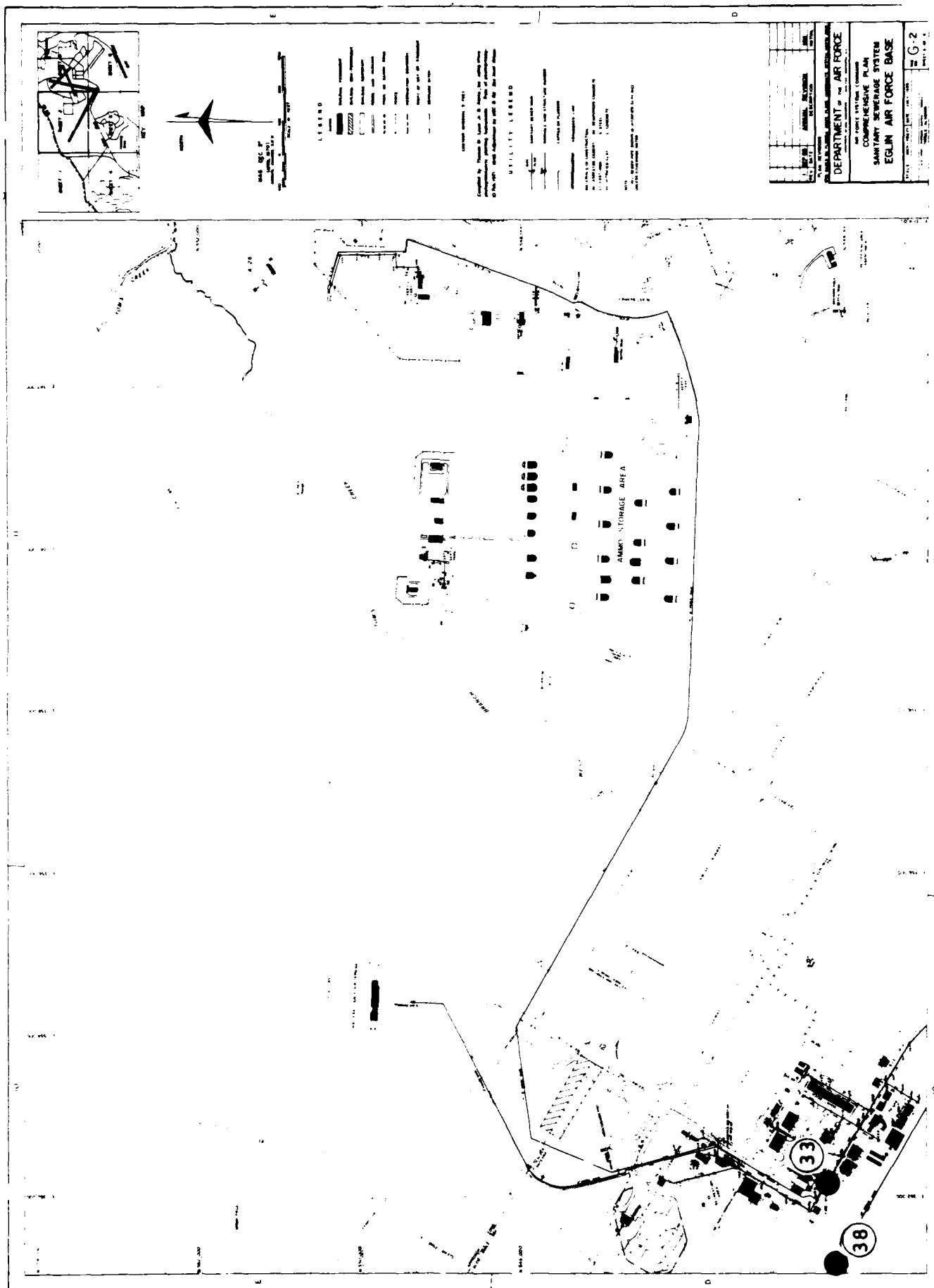
Storm Drainage System: Tab G-3, Sheet Number 3



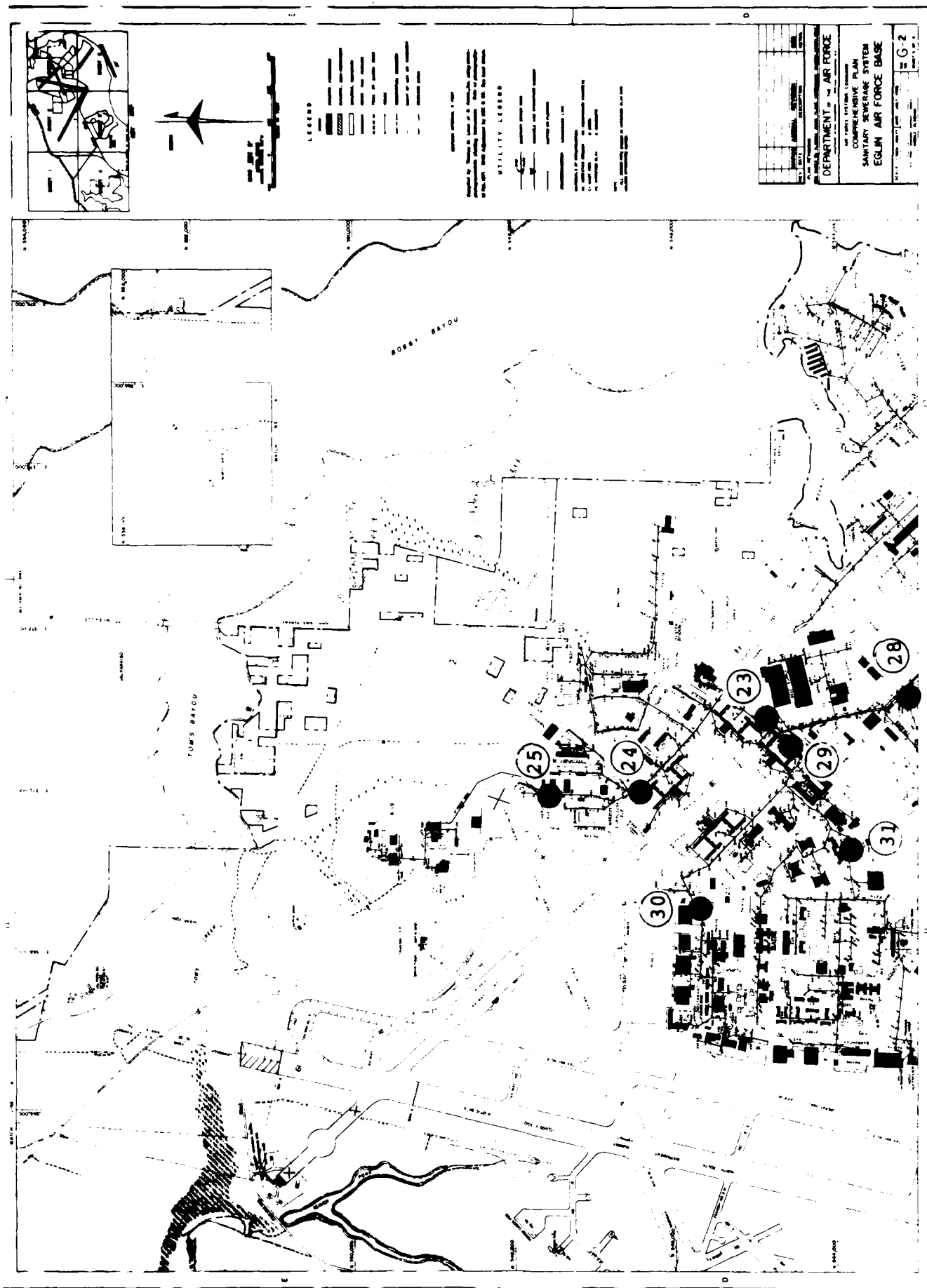
Storm Drainage System: Tab G-3, Sheet Number 5



Storm Drainage System: Tab G-3, Sheet Number 6



Sanitary Sewerage System: Tab G-2, Sheet Number 2



Sanitary Sewerage System: Tab G-2, Sheet Number 3



Sanitary Sewerage System: Tab G-2. Sheet Number 5



Sanitary Sewerage System: Tab G-2, Sheet Number 6

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APPENDIX C
Sampling Protocol

SAMPLING PROTOCOL
General Sampling Parameters

ANALYSIS	METHOD	PRESERVATION	WHERE	WHO
Chemical Oxygen Demand	A508C	H ₂ SO ₄	Brooks AFB	AFOEHL/SA
Conductivity	E120.1	None	Brooks AFB	AFOEHL/SA
Hydrocarbons, Total	E418.1	H ₂ SO ₄	Brooks AFB	AFOEHL/SA
ICP Metals Screen	E200.7	HNO ₃	Brooks AFB	AFOEHL/SA
Nitrogen, Total Kjeldahl	E351.2	H ₂ SO ₄	Brooks AFB	AFOEHL/SA
Oil & Grease	E413.2	H ₂ SO ₄	Brooks AFB	AFOEHL/SA
Organic Carbon	E415..1	H ₂ SO ₄	Brooks AFB	AFOEHL/SA
pH (Hydrogen Ion)	A423(A)	None	On-site	AFOEHL/EQ
Phenols	E420.2	H ₂ SO ₄	Brooks AFB	AFOEHL/SA
Phosphorus, Total	E365.1	H ₂ SO ₄	Brooks AFB	AFOEHL/SA
Residue, Nonfilterable	E160.2	None	Brooks AFB	AFOEHL/SA
Surfactants (MBAS)	E425.1	None	Brooks AFB	AFOEHL/SA
Temperature	E170.1	None	On-site	AFOEHL/EQ
Volatile Aromatics Screen	E602	None	Brooks AFB	AFOEHL/SA
Volatile Halocarbon Screen	E601	None	Brooks AFB	AFOEHL/SA

Notes: A - Indicates Standard Methods for the Evaluation of Water and Wastewater
E - Indicates EPA Methods for Chemical Analysis of Water and Wastes

SAMPLING PROTOCOL
ICP Metals Screen (EPA Method 200.7)

PARAMETER	UNITS	LIMIT OF DETECTION
Aluminum	µg/L	< 100.0
Arsenic	µg/L	< 100.0
Barium	µg/L	< 100.0
Beryllium	µg/L	< 100.0
Cadmium	µg/L	< 100.0
Calcium	mg/L	< 0.1
Chromium	µg/L	< 100.0
Cobalt	µg/L	< 100.0
Copper	µg/L	< 100.0
Iron	µg/L	< 100.0
Magnesium	mg/L	< 0.1
Manganese	µg/L	< 100.0
Mercury	µg/L	< 1.0
Molybdenum	µg/L	< 100.0
Nickel	µg/L	< 100.0
Titanium	µg/L	< 100.0
Vanadium	µg/L	< 100.0
Zinc	µg/L	< 100.0

SAMPLING PROTOCOL
Volatile Halocarbon Screen (EPA Method 601)

PARAMETER	UNITS	LIMIT OF DETECTION
Bromodichloromethane	µg/L	< 0.4
Bromoform	µg/L	< 0.7
Bromomethane	µg/L	< 0.9
Carbon Tetrachloride	µg/L	< 0.5
Chlorobenzene	µg/L	< 0.6
Chloroethane	µg/L	< 0.9
2-Chloroethylvinyl Ether	µg/L	< 0.9
Chloroform	µg/L	< 0.3
Chloromethane	µg/L	< 0.8
Chlorodibromomethane	µg/L	< 0.5
1,2-Dichlorobenzene	µg/L	< 1.0
1,3-Dichlorobenzene	µg/L	< 0.5
1,4-Dichlorobenzene	µg/L	< 0.7
Dichlorodifluoromethane	µg/L	< 0.9
1,1-Dichloroethane	µg/L	< 0.4
1,2-Dichloroethane	µg/L	< 0.3
1,1-Dichloroethene	µg/L	< 0.3
trans-1,2-Dichloroethene	µg/L	< 0.5
1,2-Dichloropropane	µg/L	< 0.3
cis-1,3-Dichloropropene	µg/L	< 0.5
trans-1,3-Dichloropropene	µg/L	< 0.5
Methylene Chloride	µg/L	< 0.4
1,1,2,2-Tetrachloroethane	µg/L	< 0.5
Tetrachloroethylene	µg/L	< 0.6
1,1,1-Trichloroethane	µg/L	< 0.5
1,1,2-Trichloroethane	µg/L	< 0.5
Trichloroethylene	µg/L	< 0.5
Trichlorofluoromethane	µg/L	< 0.4
Vinyl Chloride	µg/L	< 0.9

SAMPLING PROTOCOL
Volatile Aromatics Screen (EPA Method 602)

PARAMETER	UNITS	LIMIT OF DETECTION
Benzene	µg/L	< 0.5
Chlorobenzene	µg/L	< 0.6
1,2-Dichlorobenzene	µg/L	< 1.0
1,3-Dichlorobenzene	µg/L	< 0.5
1,4-Dichlorobenzene	µg/L	< 0.7
Ethyl Benzene	µg/L	< 0.3
Toluene	µg/L	< 0.3

SAMPLING PROTOCOL
Site Specific Sampling Parameters

ANALYSIS	METHOD	PRESERVATION	WHERE	WHO
Biochemical Oxygen Demand	A405.1	None	On-site	AFOEHL/EQ
Bromide	Dionex Anion	None	Brooks AFB	AFOEHL/SA
Chlorine Residual	A408E	None	On-site	AFOEHL/EQ
Cyanide	E335.3	NaOH	Brooks AFB	AFOEHL/SA
Pesticides, Organochlorine	E608	None	Salt Lake City UT	DataChem
Pramitol	E619	None	Salt Lake City UT	DataChem
2,4-D	E615	None	Salt Lake City UT	DataChem
2,4,5-T	E615	None	Salt Lake City UT	DataChem
Silver	E200.7	HNO ₃	Brooks AFB	AFOEHL/SA
Silvex	E615	None	Salt Lake City UT	DataChem

Notes: A - Indicates Standard Methods for the Evaluation of Water and Wastewater
E - Indicates EPA Methods for Chemical Analysis of Water and Wastes

SAMPLING PROTOCOL
Pesticide Screen

PARAMETER	UNITS	LIMIT OF DETECTION	
Aldrin	µg/L	<	0.01
BHC (alpha)	µg/L	<	0.01
BHC (beta)	µg/L	<	0.01
BHC (delta)	µg/L	<	0.01
BHC (gamma)	µg/L	<	0.01
Chlordane	µg/L	<	0.2
DDT (p,p-DDD)	µg/L	<	0.01
DDT (p,p-DDE)	µg/L	<	0.01
DDT (p,p-DDT)	µg/L	<	0.05
Dieldrin	µg/L	<	0.01
Dursban	µg/L	<	0.05
Endrin	µg/L	<	0.05
Heptachlor	µg/L	<	0.01
Heptachlor Epoxide	µg/L	<	0.01
Methoxychlor	µg/L	<	0.05
Pramitol	µg/L	<	100.0
Toxaphene	µg/L	<	1.0
2,4-D	µg/L	<	0.05
2,4,5-T	µg/L	<	0.05
2,4,5-TP-Silvex	µg/L	<	0.05

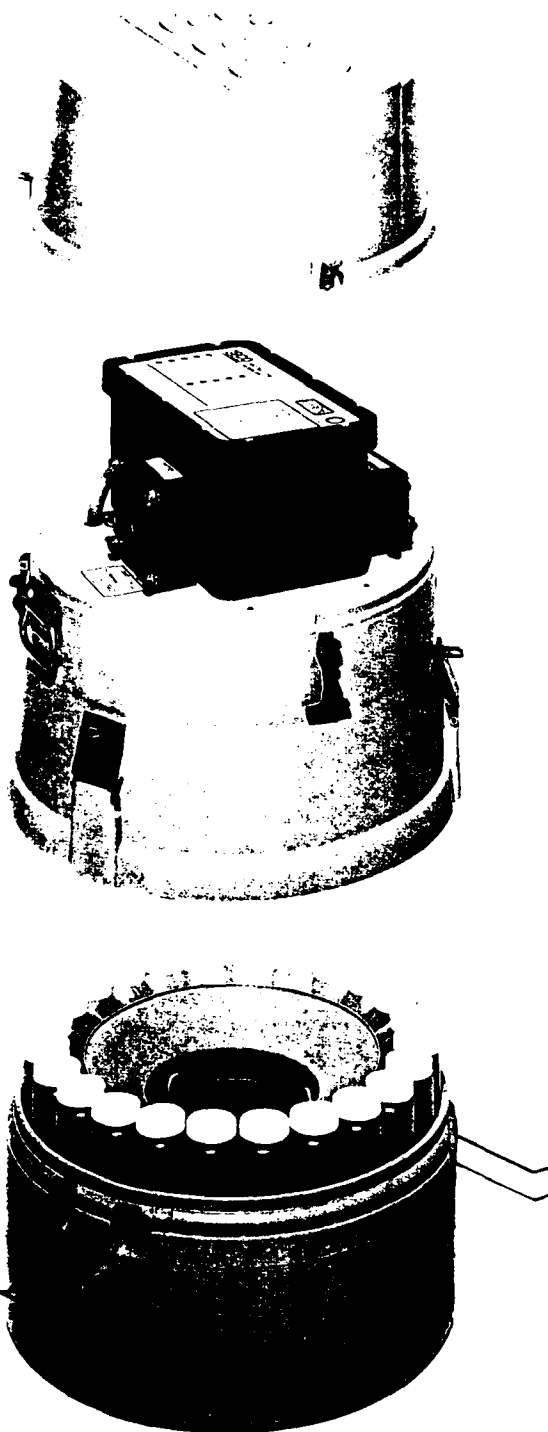
SAMPLING PROTOCOL
Sampling Sites at EGLIN AFB FL

Manhole or Structure Number	Map Reference	Sampling Days
Trout Lake Outfall	Storm Sheet 1	2
Creek behind Fire Station (TAC Area)	Storm Sheet 2	2
Storm Drain 061 or 060, 059	Storm Sheet 3	2
Storm Drain 262 or 261	Storm Sheet 3	2
Storm Drain 352 or 351	Storm Sheet 3	2
Storm Drain 134 or 135	Storm Sheet 3	2
Storm Drain 573 or 572	Storm Sheet 3	2
Storm Drain 567 or 566	Storm Sheet 3	2
Beaver Pond Outfall	Storm Sheet 3	2
Outfall to Tom's Bayou	Storm Sheet 3	2
Storm Drain 680 or 679	Storm Sheet 5	2
Storm Drain 855	Storm Sheet 5	2
Storm Drain 24" Outflow	Storm Sheet 5	2
Storm Drain 533	Storm Sheet 6	2
Storm Drain 001	Storm Sheet 6	2
Eglin Boulevard Bridge	Storm Sheet 6	2
Storm Drain 470 or bridge on dirt road	Storm Sheet 6	2
24" CM on railroad by DRMO	Storm Sheet 6	2
2-48" CM by Sewage Treatment Plant	Storm Sheet 6	2
Creek Outfall by Federal Prison	Storm Sheet 6	2
TAC Area Spray Field #1	Sanitary Sheet 1	1
TAC Area Spray Field #2	Sanitary Sheet 1	1
Manhole 394 or 391	Sanitary Sheet 2	2
Manhole 24	Sanitary Sheet 3	2
Manhole 195	Sanitary Sheet 3	2
Manhole 212 or 215	Sanitary Sheet 3	2
Manhole 201	Sanitary Sheet 3	2
Manhole 14 or 16	Sanitary Sheet 3	2
Manhole 252 or 251	Sanitary Sheet 3	2
Manhole 1132	Sanitary Sheet 5	2
Manhole 1131	Sanitary Sheet 5	2
Plew STP Influent	Sanitary Sheet 5	3
Plew STP Effluent	Sanitary Sheet 5	3
Manhole 188 (A)	Sanitary Sheet 6	2
Manhole 188 (B)	Sanitary Sheet 6	2
Main Base STP Influent	Not Shown on Maps	3
Main Base STP Effluent	Not Shown on Maps	3

APPENDIX D

**Isco Model 2700 Composite
Wastewater Sampler**

Model 2700 technical specifications



PHYSICAL SIZE:	Height: 25-1/4 in. (64 cm) Diameter: 19-7/8 in. (50.5 cm)
DRY WEIGHT:	35 lbs. (15.9 kg), with plastic bottles
SAMPLE FREQUENCY:	Selectable from 1-9.999 minutes between consecutive samples in 1 minute increments, or from 1-9.999 flow pulses in single pulse intervals.

SAMPLER BASE CAPACITY:	
1. Sequential Base	24, 350 ml glass or 1000 ml polypropylene bottles, or one, 2-1/2 gallon glass or polyethylene container
2. Optional Composite Base	One, 4 gallon polyethylene container
SAMPLE VOLUME REPEATABILITY:	± 10 ml, typical
SAMPLING MODES:	Sequential time, sequential flow, composite time, composite flow, non-uniform time, and sequential flow composite (flow modes are controlled by external flow meter pulses)
FLOW METER SIGNAL REQUIREMENTS:	12 volt DC pulse or isolated contact closure of at least 25 milliseconds duration. (4-20 ma or pulse duration signal may be used with optional interface unit)
SUCTION TUBING (intake):	1/4" ID x 10' or 25' length, vinyl 3/8" ID x 10' or 25' length, vinyl 3/8" ID x 10' or 25' length, Teflon
SUCTION LIFT:	26 feet (7.9 meters), maximum
PUMPING RATE (at 3 feet of head):	
1. 1/4" ID suction tubing	3000 ml/minute
2. 3/8" ID suction tubing	3500 ml/minute
LINE TRANSPORT VELOCITY (at 3 feet of head):	
1. 1/4" ID suction tubing	5.1 feet/second (157 cm/second)
2. 3/8" ID suction tubing	2.5 feet/second (77 cm/second)
TIME BASE ACCURACY:	Better than 0.007% (quartz crystal controlled clock)
AMBIENT TEMPERATURE RANGE:	32° to 120°F (0° to 50°C)
CONTROLLER WATERTIGHTNESS:	NEMA 4X and 6 ratings (Submersible, watertight, dust-tight, and corrosion resistant)
COOLING CAPACITY (with 30 lbs. of ice in bottle section and 24 bottles full of 65°F water):	After 24 hours: 35°F (19.4°C) below ambient After 48 hours: 25°F (13.9°C) below ambient
SAMPLER POWER REQUIREMENT:	12 volt DC (supplied by battery or AC power converter)
EXTERNAL ISCO NICKEL CADMIUM BATTERY CAPACITY:	150 full sequential bottles, typical, after 18 hour charge
CONTROLLER INTERNAL LITHIUM BATTERY CAPACITY (maintains internal logic and user selected settings):	5 years minimum, typical

APPENDIX E
Site Descriptions

SITE DESCRIPTIONS

<u>SITE IDENTIFIER</u>	<u>SITE DESCRIPTION</u>
0058-NO-001	Storm Drain 059, outfall into Tom's Bayou, located off Perimeter Road (Taxiway) between Bldg 947 (Ground Radio Transmitter Site) and Bldg 963 (Photo Optics Maintenance Facility). [RE: Storm Drainage System, Tab G-3, Sheet Number 3]
0058-NO-002	Storm drain outfall from Jack's Lake. [RE: Storm Drainage System, Tab G-3, Sheet Number 5]
0058-NO-003	Storm drain outfall from Beaver Pond. [RE: Storm Drainage System, Tab G-3, Sheet Number 3]
0058-NO-004	Overflow Pipe from Lower Memorial Lake. Outfall flows into Choctawhatchee Bay. [RE: Storm Drainage System, Tab G-3, Sheet Number 5]
0058-NO-005	Storm Drain 261, outfall into Weekly Bayou, located in wooded area near Fuel Storage Tanks and Bldg 721. [RE: Storm Drainage System, Tab G-3, Sheet Number 3]
0058-NO-006	Storm drain near old Sewage Treatment Plant, off Range Road, near Bldg 574. [RE: Storm Drainage System, Tab G-3, Sheet Number 6]
0058-NO-007	Storm Drain 533 between Second Street and Eglin Boulevard near Bldg 455. [RE: Storm Drainage System, Tab G-3, Sheet Number 6]
0058-NO-008	Storm drain outfall from Trout Lake. [RE: Storm Drainage System, Tab G-3, Sheet Number 1]
0058-NO-009	Storm Drain 855 on south side of Boatner Road near Hospital (between Bldg 2835 and Bldg 2829 on opposite side of road). [RE: Storm Drainage System, Tab G-3, Sheet Number 5]
0058-NO-010	Storm Drain 679 in TAC Area on West Side Road (near Bldg 1328 on opposite side of road). [RE: Storm Drainage System, Tab G-3, Sheet Number 5]
0058-NO-011	Storm drain from creek outfall in TAC Area on West Side Road in wooded area near the Fire Department (between Bldg 1328 and 1331). [RE: Storm Drainage System, Tab G-3, Sheet Number 2]

<u>SITE IDENTIFIER</u>	<u>SITE DESCRIPTION</u>
0058-NO-012	Storm Drain 1121 on north side of Eglin Boulevard (opposite from Memorial Lake Monument). [RE: Storm Drainage System, Tab G-3, Sheet Number 5]
0058-NO-013	Storm Drain 061 in Aircraft Washrack Area near Bldg 78 (PMEL). [RE: Storm Drainage System, Tab G-3, Sheet Number 3]
0058-NO-014	Storm Drain 572, outfall into Beaver Pond, located in the flightline area off dirt road parallel to the active runway (between Taxiway 19 and fence). [RE: Storm Drainage System, Tab G-3, Sheet Number 3]
0058-NO-015	Storm Drain 351 near Weekly Pond at corner of Biscayne and Kissimee Streets. [RE: Storm Drainage System, Tab G-3, Sheet Number 3]
0058-NO-016	Storm Drain 566 in flightline area (between active Runway and Taxiway T-20). [RE: Storm Drainage System, Tab G-3, Sheet Number 3]
0058-NO-017	Storm drainage at underpass on Eglin Boulevard between Memorial Trail and Bldg 440 (Climatic Laboratory). [RE: Storm Drainage System, Tab G-3, Sheet Number 6]
0058-NO-018	Storm drain on railroad near DRMO. [RE: Storm Drainage System, Tab G-3, Sheet Number 6]
0058-NO-019	Storm drain for creek outfall to Postl Lake, located off Inverness Road near Federal Prison. [RE: Storm Drainage System, Tab G-3, Sheet Number 6]
0058-NO-020	Storm Drain 001 located east of Memorial Trail between Second Street and Eglin Boulevard between Bldg 132 and Bldg 134. [RE: Storm Drainage System, Tab G-3, Sheet Number 6]
0058-NO-021	Storm Drain 134 on Eglin Boulevard on opposite side of street from Bldg 374 (between Fifth and Sixth Streets). [RE: Storm Drainage System, Tab G-3, Sheet Number 3]
0058-NO-022	Storm Drain 470 off Eglin Boulevard between Bldg 411 and Bldg 435. [RE: Storm Drainage System, Tab G-3, Sheet Number 6]

<u>SITE IDENTIFIER</u>	<u>SITE DESCRIPTION</u>
0058-NO-023	Sanitary Sewer System Manhole 16, on Eglin Boulevard between Seventh and Eighth Streets near Bldg 17 and Bldg 20. [RE: Sanitary Sewerage System, Tab G-2, Sheet Number 3]
0058-NO-024	Sanitary Sewer System Manhole 24, near Bldg 39 at the corner of Daytona Road and Eighth Street. [RE: Sanitary Sewerage System, Tab G-2, Sheet Number 3]
0058-NO-025	Sanitary Sewer System Manhole 29, in A-19 Area on Escambia Road near Bldg 886. [RE: Sanitary Sewerage System, Tab G-2, Sheet Number 3]
0058-NO-026	Sanitary Sewer System Manhole 188 (A), near old Sewage Treatment Plant on Range Road. [RE: Sanitary Sewerage System, Tab G-2, Sheet Number 6]
0058-NO-027	Sanitary Sewer System Manhole 188 (B), adjacent to Manhole 188 near old Sewage Treatment Plant on Range Road. [RE: Sanitary Sewerage System, Tab G-2, Sheet Number 6]
0058-NO-028	Sanitary Sewer System Manhole 195, near Bldg 562 at Transportation Road and Seventh Street. [RE: Sanitary Sewerage System, Tab G-2, Sheet Number 3]
0058-NO-029	Sanitary Sewer System Manhole 201, near Bldg 17 (Dormitory) on Eglin Boulevard between Seventh and Eighth Streets. [RE: Sanitary Sewerage System, Tab G-2, Sheet Number 3]
0058-NO-030	Sanitary Sewer System Manhole 215, in aircraft maintenance area near Bldg 71 on Choctawhatchee Avenue. [RE: Sanitary Sewerage System, Tab G-2, Sheet Number 3]
0058-NO-031	Sanitary Sewer System Manhole 251, near parking lot at Bldg 300 off Eglin Boulevard between Fifth and Sixth Streets. [RE: Sanitary Sewerage System, Tab G-2, Sheet Number 3]
0058-NO-032	Sanitary Sewer System Manhole 391, in TAC Area on West Side Road near the Kennels. [RE: Sanitary Sewerage System, Tab G-2, Sheet Number 5]
0058-NO-033	Sanitary Sewer System Manhole 402, in TAC Area on West Side Road between Bldg 1331 (Fire Department) and Bldg 1330. [RE: Sanitary Sewerage System, Tab G-2, Sheet Number 2]

<u>SITE IDENTIFIER</u>	<u>SITE DESCRIPTION</u>
0058-NO-034	Sanitary Sewer System Manhole 1132, off Boatner Road on west side of Bldg 2825 (Hospital). [RE: Sanitary Sewerage System, Tab G-2, Sheet Number 5]
0058-NO-035	Sanitary Sewer System Manhole 1131, off Boatner Road on east side of Bldg 2825 (Hospital). [RE: Sanitary Sewerage System, Tab G-2, Sheet Number 5]
0058-NO-036	Plew Sewage Treatment Plant Influent. [RE: Sanitary Sewerage System, Tab G-2, Sheet Number 5]
0058-NO-037	Plew Sewage Treatment Plant Effluent. [RE: Sanitary Sewerage System, Tab G-2, Sheet Number 5]
0058-NO-038	Main Base Sewage Treatment Plant Influent (in TAC Area).
0058-NO-039	Main Base Sewage Treatment Plant Effluent (in TAC Area).
0058-NO-040	Plew Sewage Treatment Plant Sludge Digester #1.
0058-NO-041	Plew Sewage Treatment Plant Sludge Digester #2.
0058-NO-042	Main Base Sewage Treatment Plant (in TAC Area) Sludge Digester .
0058-NO-043	TAC Area Spray Fields, Holding Pond #1, off Florida HWY 85.
0058-NO-044	TAC Area Spray Fields, Holding Pond #2, off Florida HWY 85.
0058-PD-045	Bldg 1533, Potable Water, from sink in Maintenance Shop at the Eglin Golf Course.
0058-NO-046	Oil/Water Separator near Bldg 72.
0058-NO-047	Oil/Water Separator near Bldg 88.
0058-NO-048	Oil/Water Separator near Bldg 101.
0058-NO-049	Oil/Water Separator near Bldg 134.
0058-NO-050	Oil/Water Separator near Bldg 138.
0058-NO-051	Oil/Water Separator near Bldg 455.
0058-NO-052	Oil/Water Separator near Bldg 500.

<u>SITE IDENTIFIER</u>	<u>SITE DESCRIPTION</u>
0058-NO-053	Oil/Water Separator near Bldg 501.
0058-NO-054	Oil/Water Separator near Bldg 547.
0058-NO-055	Oil/Water Separator near Bldg 684.
0058-NO-056	Oil/Water Separator near Bldg 768.
0058-NO-057	Oil/Water Separator near Bldg 986.
0058-NO-058	Oil/Water Separator near Bldg 1313.
0058-NO-059	Oil/Water Separator near Bldg 1318.
0058-NO-060	Oil/Water Separator near Bldg 1339.
0058-NO-061	Oil/Water Separator near Bldg 1343.
0058-NO-062	Oil/Water Separator near Bldg 1344.
0058-NO-063	Oil/Water Separator near Bldg 1345.
0058-NO-064	Oil/Water Separator near Bldg 1352.
0058-NO-065	Oil/Water Separator near Bldg 1353.
0058-NO-066	Oil/Water Separator near Bldg 1354.
0058-NO-067	Oil/Water Separator near Bldg 1360.
0058-NO-068	Oil/Water Separator near Bldg 1367.

APPENDIX F

Sample Log

SAMPLE LOG - EGLIN AFB FL WASTEWATER CHARACTERIZATION SURVEY (29 JUL - 10 AUG 90)

<u>SITE DESCRIPTION</u>	<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>ANALYSIS</u>	<u>COLLECTED BY</u>	<u>AFOEHL</u>	
					<u>SAMPLE NUMBER</u>	<u>RESULTS RECEIVED</u>
Sanitary Sewer Manhole 215	CN-90-0950	1 Aug 90	Group A	SGT Davis	90050146	22 Aug 90
Sanitary Sewer Manhole 215	CN-90-0950	1 Aug 90	Group E	SGT Davis	90050148	22 Aug 90
Sanitary Sewer Manhole 215	CN-90-0950	1 Aug 90	Group F	SGT Davis	90050039	20 Aug 90
Sanitary Sewer Manhole 215	GN-90-0951	2 Aug 90	Group A	SGT Davis	90049973	23 Aug 90
Sanitary Sewer Manhole 215	GN-90-0951	2 Aug 90	Group G	SGT Davis	90049974	23 Aug 90
Sanitary Sewer Manhole 215	GN-90-0952	2 Aug 90	EPA 601	SGT Davis	90049903	31 Aug 90
Sanitary Sewer Manhole 215	GN-90-0952	2 Aug 90	EPA 602	SGT Davis	90049938	31 Aug 90
Sanitary Sewer Manhole 24	CN-90-0953	1 Aug 90	Group A	SGT Davis	90050149	22 Aug 90
Sanitary Sewer Manhole 24	CN-90-0953	1 Aug 90	Group E	SGT Davis	90050151	22 Aug 90
Sanitary Sewer Manhole 24	CN-90-0953	1 Aug 90	Group F	SGT Davis	90050040	16 Aug 90
Sanitary Sewer Manhole 24	GN-90-0954	2 Aug 90	Group A	SGT Davis	90049975	23 Aug 90
Sanitary Sewer Manhole 24	GN-90-0954	2 Aug 90	Group G	SGT Davis	90049976	23 Aug 90
Sanitary Sewer Manhole 24	GN-90-0955	2 Aug 90	EPA 601	SGT Davis	90049904	31 Aug 90
Sanitary Sewer Manhole 24	GN-90-0955	2 Aug 90	EPA 602	SGT Davis	90049939	31 Aug 90
Sanitary Sewer Manhole 29	CN-90-0956	1 Aug 90	Group A	SGT Davis	90050152	22 Aug 90
Sanitary Sewer Manhole 29	CN-90-0956	1 Aug 90	Group E	SGT Davis	90050154	22 Aug 90
Sanitary Sewer Manhole 29	CN-90-0956	1 Aug 90	Group F	SGT Davis	90050041	16 Aug 90
Sanitary Sewer Manhole 29	GN-90-0957	2 Aug 90	Group A	SGT Davis	90049977	29 Aug 90
Sanitary Sewer Manhole 29	GN-90-0957	2 Aug 90	Group G	SGT Davis	90049978	22 Aug 90
Sanitary Sewer Manhole 29	GN-90-0958	2 Aug 90	EPA 601	SGT Davis	90049905	31 Aug 90
Sanitary Sewer Manhole 29	GN-90-0958	2 Aug 90	EPA 602	SGT Davis	90049940	31 Aug 90
Sanitary Sewer Manhole 201	CN-90-0959	1 Aug 90	Group A	SGT Davis	90050155	23 Aug 90
Sanitary Sewer Manhole 201	CN-90-0959	1 Aug 90	Group E	SGT Davis	90050157	23 Aug 90
Sanitary Sewer Manhole 201	CN-90-0959	1 Aug 90	Group F	SGT Davis	90050042	16 Aug 90
Sanitary Sewer Manhole 201	GN-90-0960	2 Aug 90	Group A	SGT Davis	90049979	23 Aug 90
Sanitary Sewer Manhole 201	GN-90-0960	2 Aug 90	Group G	SGT Davis	90049980	23 Aug 90
Sanitary Sewer Manhole 201	GN-90-0961	2 Aug 90	EPA 601	SGT Davis	90049906	31 Aug 90
Sanitary Sewer Manhole 201	GN-90-0961	2 Aug 90	EPA 602	SGT Davis	90049941	31 Aug 90
Sanitary Sewer Manhole 16	CN-90-0962	1 Aug 90	Group A	SGT Davis	90050158	22 Aug 90
Sanitary Sewer Manhole 16	CN-90-0962	1 Aug 90	Group E	SGT Davis	90050160	22 Aug 90
Sanitary Sewer Manhole 16	CN-90-0962	1 Aug 90	Group F	SGT Davis	90050043	16 Aug 90
Sanitary Sewer Manhole 16	GN-90-0963	2 Aug 90	Group A	SGT Davis	90049981	23 Aug 90

SITE DESCRIPTION	SAMPLE NUMBER	DATE COLLECTED	ANALYSIS	COLLECTED BY	AFOEHL	
					SAMPLE NUMBER	RESULTS RECEIVED
Sanitary Sewer Manhole 16	GN-90-0963	2 Aug 90	Group G	SGT Davis	90049982	23 Aug 90
Sanitary Sewer Manhole 16	GN-90-0964	2 Aug 90	EPA 601	SGT Davis	90049907	31 Aug 90
Sanitary Sewer Manhole 16	GN-90-0964	2 Aug 90	EPA 602	SGT Davis	90049942	31 Aug 90
Sanitary Sewer Manhole 251	CN-90-0965	1 Aug 90	Group A	SGT Davis	90050161	23 Aug 90
Sanitary Sewer Manhole 251	CN-90-0965	1 Aug 90	Group E	SGT Davis	90050163	23 Aug 90
Sanitary Sewer Manhole 251	CN-90-0965	1 Aug 90	Group F	SGT Davis	90050044	16 Aug 90
Sanitary Sewer Manhole 251	GN-90-0966	2 Aug 90	Group A	SGT Davis	90049983	23 Aug 90
Sanitary Sewer Manhole 251	GN-90-0966	2 Aug 90	Group G	SGT Davis	90049984	23 Aug 90
Sanitary Sewer Manhole 251	GN-90-0967	2 Aug 90	EPA 601	SGT Davis	90049908	31 Aug 90
Sanitary Sewer Manhole 251	GN-90-0967	2 Aug 90	EPA 602	SGT Davis	90049943	31 Aug 90
Main Base STP Effluent	CN-90-0968	1 Aug 90	Group A	SGT Dabney	90050164	22 Aug 90
Main Base STP Effluent	CN-90-0968	1 Aug 90	Group E	SGT Dabney	90050160	22 Aug 90
Main Base STP Effluent	CN-90-0968	1 Aug 90	Group F	SGT Dabney	90050045	16 Aug 90
Main Base STP Effluent	GN-90-0969	2 Aug 90	Group A	SGT Dabney	90049985	23 Aug 90
Main Base STP Effluent	GN-90-0969	2 Aug 90	Group G	SGT Dabney	90049986	23 Aug 90
Main Base STP Effluent	GN-90-0970	2 Aug 90	EPA 601	SGT Dabney	90049909	31 Aug 90
Main Base STP Effluent	GN-90-0970	2 Aug 90	EPA 602	SGT Dabney	90049944	31 Aug 90
Sanitary Sewer Manhole 402	CN-90-0971	1 Aug 90	Group A	SGT Dabney	90050167	22 Aug 90
Sanitary Sewer Manhole 402	CN-90-0971	1 Aug 90	Group E	SGT Dabney	90050169	22 Aug 90
Sanitary Sewer Manhole 402	CN-90-0971	1 Aug 90	Group F	SGT Dabney	90050046	16 Aug 90
Sanitary Sewer Manhole 402	GN-90-0972	2 Aug 90	Group A	SGT Dabney	90049987	23 Aug 90
Sanitary Sewer Manhole 402	GN-90-0972	2 Aug 90	Group G	SGT Dabney	90049988	22 Aug 90
Sanitary Sewer Manhole 402	GN-90-0973	2 Aug 90	EPA 601	SGT Dabney	90049910	31 Aug 90
Sanitary Sewer Manhole 402	GN-90-0973	2 Aug 90	EPA 602	SGT Dabney	90049945	31 Aug 90
Sanitary Sewer Manhole 391	CN-90-0974	1 Aug 90	Group A	SGT Dabney	90050170	22 Aug 90
Sanitary Sewer Manhole 391	CN-90-0974	1 Aug 90	Group E	SGT Dabney	90050172	22 Aug 90
Sanitary Sewer Manhole 391	CN-90-0974	1 Aug 90	Group F	SGT Dabney	90050047	16 Aug 90
Sanitary Sewer Manhole 391	GN-90-0975	2 Aug 90	Group A	SGT Dabney	90049989	24 Aug 90
Sanitary Sewer Manhole 391	GN-90-0975	2 Aug 90	Group G	SGT Dabney	90049990	24 Aug 90
Sanitary Sewer Manhole 391	GN-90-0976	2 Aug 90	EPA 601	SGT Dabney	90049911	31 Aug 90
Sanitary Sewer Manhole 391	GN-90-0976	2 Aug 90	EPA 602	SGT Dabney	90049946	31 Aug 90
Plew STP Influent	CN-90-0977	1 Aug 90	Group A	SGT Dabney	90050173	22 Aug 90
Plew STP Influent	CN-90-0977	1 Aug 90	Group E	SGT Dabney	90050174	22 Aug 90
Plew STP Influent	CN-90-0977	1 Aug 90	Group F	SGT Dabney	90050048	16 Aug 90
Plew STP Influent	GN-90-0978	2 Aug 90	Group A	SGT Dabney	90049991	24 Aug 90
Plew STP Influent	GN-90-0978	2 Aug 90	Group G	SGT Dabney	90049992	24 Aug 90
Plew STP Influent	GN-90-0979	2 Aug 90	EPA 601	SGT Dabney	90049912	31 Aug 90
Plew STP Influent	GN-90-0979	2 Aug 90	EPA 602	SGT Dabney	90049947	31 Aug 90

SITE DESCRIPTION	SAMPLE NUMBER	DATE COLLECTED	ANALYSIS	COLLECTED BY	AFOEHL	
					SAMPLE NUMBER	RESULTS RECEIVED
Plew STP Effluent	CN-90-0980	1 Aug 90	Group A	SGT Dabney	90050176	27 Aug 90
Plew STP Effluent	CN-90-0980	1 Aug 90	Group E	SGT Dabney	90050178	27 Aug 90
Plew STP Effluent	CN-90-0980	1 Aug 90	Group F	SGT Dabney	90050049	16 Aug 90
Plew STP Effluent	CN-90-0981	2 Aug 90	Group A	SGT Dabney	90049993	23 Aug 90
Plew STP Effluent	CN-90-0981	2 Aug 90	Group G	SGT Dabney	90049994	23 Aug 90
Plew STP Effluent	CN-90-0982	2 Aug 90	EPA 601	SGT Dabney	90049913	31 Aug 90
Plew STP Effluent	CN-90-0982	2 Aug 90	EPA 602	SGT Dabney	90049948	31 Aug 90
Manhole 402 (Split Sample)	CN-90-0983	1 Aug 90	Group A	SGT Dabney	90050179	27 Aug 90
Manhole 402 (Split Sample)	CN-90-0983	1 Aug 90	Group E	SGT Dabney	90050181	27 Aug 90
Manhole 402 (Split Sample)	CN-90-0983	1 Aug 90	Group F	SGT Dabney	90050050	16 Aug 90
Manhole 402 (Split Sample)	CN-90-0984	2 Aug 90	Group G	SGT Dabney	90050182	29 Aug 90
Storm Drain (Tom's Bayou)	CN-90-0985	2 Aug 90	Group A	MSG Randall	90050014	31 Aug 90
Storm Drain (Tom's Bayou)	CN-90-0985	2 Aug 90	Group E	MSG Randall	90050017	31 Aug 90
Storm Drain (Tom's Bayou)	CN-90-0985	2 Aug 90	Group F	MSG Randall	90050051	16 Aug 90
Storm Drain (Tom's Bayou)	CN-90-0985	2 Aug 90	Group G	MSG Randall	90050018	31 Aug 90
Storm Drain (Tom's Bayou)	CN-90-0986	2 Aug 90	EPA 601	MSG Randall	90049914	31 Aug 90
Storm Drain (Tom's Bayou)	CN-90-0986	2 Aug 90	EPA 602	MSG Randall	90049949	31 Aug 90
Storm Drain (Beaver Pond)	CN-90-0987	2 Aug 90	Group A	MSG Randall	90050186	29 Aug 90
Storm Drain (Beaver Pond)	CN-90-0987	2 Aug 90	Group E	MSG Randall	90050189	29 Aug 90
Storm Drain (Beaver Pond)	CN-90-0987	2 Aug 90	Group F	MSG Randall	90050052	16 Aug 90
Storm Drain (Beaver Pond)	CN-90-0987	2 Aug 90	Group G	MSG Randall	90050190	29 Aug 90
Storm Drain (beaver Pond)	CN-90-0988	2 Aug 90	EPA 601	MSG Randall	90049915	31 Aug 90
Storm Drain (Beaver Pond)	CN-90-0988	2 Aug 90	EPA 602	MSG Randall	90049950	31 Aug 90
Storm Drain (Memorial Lake)	CN-90-0989	2 Aug 90	Group A	MSG Randall	90050191	29 Aug 90
Storm Drain (Memorial Lake)	CN-90-0989	2 Aug 90	Group E	MSG Randall	90050194	29 Aug 90
Storm Drain (Memorial Lake)	CN-90-0989	2 Aug 90	Group F	MSG Randall	90050053	16 Aug 90
Storm Drain (Memorial Lake)	CN-90-0989	2 Aug 90	Group G	MSG Randall	90050195	29 Aug 90
Storm Drain (Memorial Lake)	CN-90-0990	2 Aug 90	EPA 601	MSG Randall	90049916	31 Aug 90
Storm Drain (Memorial Lake)	CN-90-0990	2 Aug 90	EPA 602	MSG Randall	90049951	31 Aug 90
Storm Drain (Weekly Bayou)	CN-90-0991	2 Aug 90	Group A	MSG Randall	90050196	29 Aug 90
Storm Drain (Weekly Bayou)	CN-90-0991	2 Aug 90	Group E	MSG Randall	90050199	29 Aug 90
Storm Drain (Weekly Bayou)	CN-90-0991	2 Aug 90	Group F	MSG Randall	90050054	16 Aug 90
Storm Drain (Weekly Bayou)	CN-90-0991	2 Aug 90	Group G	MSG Randall	90050200	29 Aug 90
Storm Drain (Weekly Bayou)	CN-90-0992	2 Aug 90	EPA 601	MSG Randall	90049917	31 Aug 90
Storm Drain (Weekly Bayou)	CN-90-0992	2 Aug 90	EPA 602	MSG Randall	90049952	31 Aug 90
Blank Sample	BK-90-0993	2 Aug 90	Group A	MSG Randall	90050201	29 Aug 90
Blank Sample	BK-90-0993	2 Aug 90	Group E	MSG Randall	90050204	29 Aug 90
Blank Sample	BK-90-0993	2 Aug 90	Group F	MSG Randall	90050055	16 Aug 90

<u>SITE DESCRIPTION</u>	<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>ANALYSIS</u>	<u>COLLECTED BY</u>	<u>SAMPLE NUMBER</u>	<u>RESULTS RECEIVED</u>
Blank Sample	BK-90-0993	2 Aug 90	Group G	MSG Randall	90050205	29 Aug 90
Blank Sample	BK-90-0994	2 Aug 90	EPA 601	MSG Randall	90050540	24 Oct 90
Blank Sample	BK-90-0994	2 Aug 90	EPA 602	MSG Randall	90050562	24 Oct 90
Not Used	CN-90-0995	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-0996	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-0997	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-0998	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-0999	N/A	N/A	N/A	N/A	N/A
Storm Drain (@ old STP)	GN-90-1000	31 Jul 90	Group G	SGT Davis	90050183	29 Aug 90
Sanitary Sewer Manhole 215	GN-90-1001	1 Aug 90	Group A	SGT Davis	90050206	28 Aug 90
Storm Drain A (Tom's Bayou)	GN-90-1002	1 Aug 90	Group A	MSG Randall	90050019	31 Aug 90
Storm Drain A (Tom's Bayou)	GN-90-1002	1 Aug 90	Group E	MSG Randall	90050022	31 Aug 90
Storm Drain A (Tom's Bayou)	GN-90-1002	1 Aug 90	Group F	MSG Randall	90050056	16 Aug 90
Storm Drain A (Tom's Bayou)	GN-90-1002	1 Aug 90	Group G	MSG Randall	90050023	31 Aug 90
Storm Drain A (Tom's Bayou)	GN-90-1003	1 Aug 90	EPA 601	MSG Randall	90049918	31 Aug 90
Storm Drain A (Tom's Bayou)	GN-90-1004	1 Aug 90	EPA 602	MSG Randall	90049953	31 Aug 90
Storm Drain (Tom's Bayou)	GN-90-1004	1 Aug 90	Group A	MSG Randall	90050024	31 Aug 90
Storm Drain (Tom's Bayou)	GN-90-1004	1 Aug 90	Group E	MSG Randall	90050027	31 Aug 90
Storm Drain (Tom's Bayou)	GN-90-1004	1 Aug 90	Group F	MSG Randall	90050057	16 Aug 90
Storm Drain (Tom's Bayou)	GN-90-1004	1 Aug 90	Group G	MSG Randall	90050028	31 Aug 90
Storm Drain (Tom's Bayou)	GN-90-1005	1 Aug 90	EPA 601	MSG Randall	90049919	31 Aug 90
Storm Drain (Tom's Bayou)	GN-90-1005	1 Aug 90	EPA 602	MSG Randall	90049954	31 Aug 90
Storm Drain (Beaver Pond)	GN-90-1006	1 Aug 90	Group A	MSG Randall	90050208	29 Aug 90
Storm Drain (Beaver Pond)	GN-90-1006	1 Aug 90	Group E	MSG Randall	90050211	29 Aug 90
Storm Drain (Beaver Pond)	GN-90-1006	1 Aug 90	Group F	MSG Randall	90050058	16 Aug 90
Storm Drain (Beaver Pond)	GN-90-1006	1 Aug 90	Group G	MSG Randall	90050212	29 Aug 90
Storm Drain (Beaver Pond)	GN-90-1007	1 Aug 90	EPA 601	MSG Randall	90049920	31 Aug 90
Storm Drain (Beaver Pond)	GN-90-1007	1 Aug 90	EPA 602	MSG Randall	90049955	31 Aug 90
Storm Drain (Memorial Lake)	GN-90-1008	1 Aug 90	Group A	MSG Randall	90050213	29 Aug 90
Storm Drain (Memorial Lake)	GN-90-1008	1 Aug 90	Group E	MSG Randall	90050216	29 Aug 90
Storm Drain (Memorial Lake)	GN-90-1008	1 Aug 90	Group F	MSG Randall	90050059	16 Aug 90
Storm Drain (Memorial Lake)	GN-90-1008	1 Aug 90	Group G	MSG Randall	90050217	29 Aug 90
Storm Drain (Memorial Lake)	GN-90-1009	1 Aug 90	EPA 601	MSG Randall	90049921	31 Aug 90
Storm Drain (Memorial Lake)	GN-90-1009	1 Aug 90	EPA 602	MSG Randall	90049956	31 Aug 90
Storm Drain (Weekly Bayou)	GN-90-1010	1 Aug 90	Group A	MSG Randall	90050218	29 Aug 90
Storm Drain (Weekly Bayou)	GN-90-1010	1 Aug 90	Group E	MSG Randall	90050221	29 Aug 90
Storm Drain (Weekly Bayou)	GN-90-1010	1 Aug 90	Group F	MSG Randall	90050060	16 Aug 90
Storm Drain (Weekly Bayou)	GN-90-1010	1 Aug 90	Group G	MSG Randall	90050222	29 Aug 90

<u>SITE DESCRIPTION</u>	<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>ANALYSIS</u>	<u>COLLECTED BY</u>	<u>APOEHL SAMPLE NUMBER</u>	<u>RESULTS RECEIVED</u>
Storm Drain (Weekly Bayou)	GN-90-1011	1 Aug 90	EPA 601	MSG Randall	90049922	31 Aug 90
Storm Drain (Weekly Bayou)	GN-90-1011	1 Aug 90	EPA 602	MSG Randall	90049957	31 Aug 90
Sanitary Sewer Manhole 215	GN-90-1012	1 Aug 90	Group A	MSG Randall	90050029	31 Aug 90
Sanitary Sewer Manhole 215	GN-90-1012	1 Aug 90	Group E	MSG Randall	90050032	31 Aug 90
Sanitary Sewer Manhole 215	GN-90-1012	1 Aug 90	Group F	MSG Randall	90050061	16 Aug 90
Sanitary Sewer Manhole 215	GN-90-1012	1 Aug 90	Group G	MSG Randall	90050033	31 Aug 90
Sanitary Sewer Manhole 215	GN-90-1013	1 Aug 90	EPA 601	MSG Randall	90049923	31 Aug 90
Sanitary Sewer Manhole 215	GN-90-1013	1 Aug 90	EPA 602	MSG Randall	90049958	31 Aug 90
Blank Sample	BK-90-1014	1 Aug 90	Group A	MSG Randall	90050223	31 Aug 90
Blank Sample	BK-90-1014	1 Aug 90	Group E	MSG Randall	90050226	31 Aug 90
Blank Sample	BK-90-1014	1 Aug 90	Group F	MSG Randall	90050062	16 Aug 90
Blank Sample	BK-90-1014	1 Aug 90	Group G	MSG Randall	90050227	31 Aug 90
Tom's Bayou (Split Sample)	GN-90-1015	1 Aug 90	Group A	MSG Randall	90050034	31 Aug 90
Tom's Bayou (Split Sample)	GN-90-1015	1 Aug 90	Group E	MSG Randall	90050037	31 Aug 90
Tom's Bayou (Split Sample)	GN-90-1015	1 Aug 90	Group F	MSG Randall	90050063	16 Aug 90
Tom's Bayou (Split Sample)	GN-90-1015	1 Aug 90	Group G	MSG Randall	90050038	31 Aug 90
Blank Sample	BK-90-1016	1 Aug 90	EPA 601	MSG Randall	90050561	24 Oct 90
Blank Sample	BK-90-1016	1 Aug 90	EPA 602	MSG Randall	90050563	24 Oct 90
Not Used	CN-90-1017	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1018	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1019	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1020	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1021	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1022	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1023	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1024	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1025	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1026	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1027	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1028	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1029	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1030	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1031	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1032	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1033	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1034	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1035	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1036	N/A	N/A	N/A	N/A	N/A

SITE DESCRIPTION	SAMPLE NUMBER	DATE COLLECTED	ANALYSIS	COLLECTED BY	AFOEHL	
					SAMPLE NUMBER	RESULTS RECEIVED
Not Used	CN-90-1037	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1038	N/A	N/A	N/A	N/A	N/A
Not Used	CN-90-1039	N/A	N/A	N/A	N/A	N/A
Blank Sample	BK-90-1040	3 Aug 90	EPA 601	MSG Randall	90050542	24 Oct 90
Blank Sample	BK-90-1040	3 Aug 90	EPA 602	MSG Randall	90050564	24 Oct 90
Sanitary Sewer Manhole 215	GN-90-1041	3 Aug 90	Group A	SGT Davis	90049995	31 Aug 90
Sanitary Sewer Manhole 215	GN-90-1041	3 Aug 90	Group G	SGT Davis	90049996	31 Aug 90
Sanitary Sewer Manhole 215	CN-90-1042	2 Aug 90	Group A	SGT Davis	90050228	28 Aug 90
Sanitary Sewer Manhole 215	CN-90-1042	2 Aug 90	Group E	SGT Davis	90050230	28 Aug 90
Sanitary Sewer Manhole 215	CN-90-1042	2 Aug 90	Group F	SGT Davis	90050064	16 Aug 90
Sanitary Sewer Manhole 215	GN-90-1043	3 Aug 90	EPA 601	SGT Davis	90049924	31 Aug 90
Sanitary Sewer Manhole 215	GN-90-1043	3 Aug 90	EPA 602	SGT Davis	90049959	31 Aug 90
Sanitary Sewer Manhole 24	GN-90-1044	3 Aug 90	Group A	SGT Davis	90050312	06 Sep 90
Sanitary Sewer Manhole 24	GN-90-1044	3 Aug 90	Group G	SGT Davis	90050313	06 Sep 90
Sanitary Sewer Manhole 24	CN-90-1045	2 Aug 90	Group A	SGT Davis	90050231	28 Aug 90
Sanitary Sewer Manhole 24	CN-90-1045	2 Aug 90	Group E	SGT Davis	90050233	28 Aug 90
Sanitary Sewer Manhole 24	CN-90-1045	2 Aug 90	Group F	SGT Davis	90050065	16 Aug 90
Sanitary Sewer Manhole 24	GN-90-1046	3 Aug 90	EPA 601	SGT Davis	90049925	31 Aug 90
Sanitary Sewer Manhole 24	GN-90-1046	3 Aug 90	EPA 602	SGT Davis	90049960	31 Aug 90
Sanitary Sewer Manhole 29	GN-90-1047	3 Aug 90	Group A	SGT Davis	90050314	06 Sep 90
Sanitary Sewer Manhole 29	GN-90-1047	3 Aug 90	Group G	SGT Davis	90050315	06 Sep 90
Sanitary Sewer Manhole 29	CN-90-1048	2 Aug 90	Group A	SGT Davis	90050234	30 Aug 90
Sanitary Sewer Manhole 29	CN-90-1048	2 Aug 90	Group E	SGT Davis	90050236	30 Aug 90
Sanitary Sewer Manhole 29	CN-90-1048	2 Aug 90	Group F	SGT Davis	90050066	16 Aug 90
Sanitary Sewer Manhole 29	GN-90-1049	3 Aug 90	EPA 601	SGT Davis	90049926	31 Aug 90
Sanitary Sewer Manhole 29	GN-90-1049	3 Aug 90	EPA 602	SGT Davis	90049961	31 Aug 90
Sanitary Sewer Manhole 201	GN-90-1050	3 Aug 90	Group A	SGT Davis	90049997	23 Aug 90
Sanitary Sewer Manhole 201	GN-90-1050	3 Aug 90	Group G	SGT Davis	90049998	23 Aug 90
Sanitary Sewer Manhole 201	CN-90-1051	2 Aug 90	Group A	SGT Davis	90050237	30 Aug 90
Sanitary Sewer Manhole 201	CN-90-1051	2 Aug 90	Group E	SGT Davis	90050239	30 Aug 90
Sanitary Sewer Manhole 201	CN-90-1051	2 Aug 90	Group F	SGT Davis	90050067	16 Aug 90
Sanitary Sewer Manhole 201	GN-90-1052	3 Aug 90	EPA 601	SGT Davis	90049927	31 Aug 90
Sanitary Sewer Manhole 201	GN-90-1052	3 Aug 90	EPA 602	SGT Davis	90049962	31 Aug 90
Sanitary Sewer Manhole 16	GN-90-1053	3 Aug 90	Group A	SGT Davis	90049999	23 Aug 90
Sanitary Sewer Manhole 16	GN-90-1053	3 Aug 90	Group G	SGT Davis	90050000	23 Aug 90
Sanitary Sewer Manhole 16	CN-90-1054	2 Aug 90	Group A	SGT Davis	90050240	30 Aug 90
Sanitary Sewer Manhole 16	CN-90-1054	2 Aug 90	Group E	SGT Davis	90050242	30 Aug 90
Sanitary Sewer Manhole 16	CN-90-1054	2 Aug 90	Group F	SGT Davis	90050068	16 Aug 90

<u>SITE DESCRIPTION</u>	<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>ANALYSIS</u>	<u>COLLECTED BY</u>	<u>AFOEHL SAMPLE NUMBER</u>	<u>RESULTS RECEIVED</u>
Sanitary Sewer Manhole 16	GN-90-1055	3 Aug 90	EPA 601	SGT Davis	90049928	31 Aug 90
Sanitary Sewer Manhole 16	GN-90-1055	3 Aug 90	EPA 602	SGT Davis	90049963	31 Aug 90
Sanitary Sewer Manhole 251	GN-90-1056	3 Aug 90	Group A	SGT Davis	90050001	24 Aug 90
Sanitary Sewer Manhole 251	GN-90-1056	3 Aug 90	Group G	SGT Davis	90050002	24 Aug 90
Sanitary Sewer Manhole 251	CN-90-1057	2 Aug 90	Group A	SGT Davis	90050243	30 Aug 90
Sanitary Sewer Manhole 251	CN-90-1057	2 Aug 90	Group E	SGT Davis	90050245	30 Aug 90
Sanitary Sewer Manhole 251	CN-90-1057	2 Aug 90	Group F	SGT Davis	90050069	15 Aug 90
Sanitary Sewer Manhole 251	GN-90-1058	3 Aug 90	EPA 601	SGT Davis	90049929	31 Aug 90
Sanitary Sewer Manhole 251	GN-90-1058	3 Aug 90	EPA 602	SGT Davis	90049964	31 Aug 90
Main Base STP Effluent	GN-90-1059	3 Aug 90	Group A	SGT Dabney	90050003	23 Aug 90
Main Base STP Effluent	GN-90-1059	3 Aug 90	Group G	SGT Dabney	90050004	23 Aug 90
Main Base STP Effluent	CN-90-1060	2 Aug 90	Group A	SGT Dabney	90050246	30 Aug 90
Main Base STP Effluent	CN-90-1060	2 Aug 90	Group E	SGT Dabney	90050248	30 Aug 90
Main Base STP Effluent	CN-90-1060	2 Aug 90	Group F	SGT Dabney	90050070	16 Aug 90
Main Base STP Effluent	GN-90-1061	3 Aug 90	EPA 601	SGT Dabney	90049930	31 Aug 90
Main Base STP Effluent	GN-90-1061	3 Aug 90	EPA 602	SGT Dabney	90049965	31 Aug 90
Sanitary Sewer Manhole 402	GN-90-1062	3 Aug 90	Group A	SGT Dabney	90050005	23 Aug 90
Sanitary Sewer Manhole 402	GN-90-1062	3 Aug 90	Group G	SGT Dabney	90050006	23 Aug 90
Sanitary Sewer Manhole 402	CN-90-1063	2 Aug 90	Group A	SGT Daoney	90050249	30 Aug 90
Sanitary Sewer Manhole 402	CN-90-1063	2 Aug 90	Group E	SGT Dabney	90050251	30 Aug 90
Sanitary Sewer Manhole 402	CN-90-1063	2 Aug 90	Group F	SGT Dabney	90050071	16 Aug 90
Sanitary Sewer Manhole 402	GN-90-1064	3 Aug 90	EPA 601	SGT Dabney	90049931	31 Aug 90
Sanitary Sewer Manhole 402	GN-90-1064	3 Aug 90	EPA 602	SGT Dabney	90049966	31 Aug 90
Sanitary Sewer Manhole 391	GN-90-1065	3 Aug 90	Group A	SGT Dabney	90050007	23 Aug 90
Sanitary Sewer Manhole 391	GN-90-1065	3 Aug 90	Group G	SGT Dabney	90050008	23 Aug 90
Sanitary Sewer Manhole 391	CN-90-1066	2 Aug 90	Group A	SGT Dabney	90050252	30 Aug 90
Sanitary Sewer Manhole 391	CN-90-1066	2 Aug 90	Group E	SGT Dabney	90050254	30 Aug 90
Sanitary Sewer Manhole 391	CN-90-1066	2 Aug 90	Group F	SGT Dabney	90050072	16 Aug 90
Sanitary Sewer Manhole 391	GN-90-1067	3 Aug 90	EPA 601	SGT Dabney	90049932	31 Aug 90
Sanitary Sewer Manhole 391	GN-90-1067	3 Aug 90	EPA 602	SGT Dabney	90049967	31 Aug 90
Sanitary Sewer Manhole 391	GN-90-1067	3 Aug 90	Group A	SGT Dabney	90050009	23 Aug 90
Plew STP Influent	GN-90-1068	3 Aug 90	Group G	SGT Dabney	90050010	23 Aug 90
Plew STP Influent	CN-90-1068	3 Aug 90	Group A	SGT Dabney	90050255	30 Aug 90
Plew STP Influent	CN-90-1069	2 Aug 90	Group A	SGT Dabney	90050257	30 Aug 90
Plew STP Influent	CN-90-1069	2 Aug 90	Group E	SGT Dabney	90050073	16 Aug 90
Plew STP Influent	CN-90-1069	2 Aug 90	Group F	SGT Dabney	90049933	31 Aug 90
Plew STP Influent	GN-90-1070	3 Aug 90	EPA 601	SGT Dabney	90049968	31 Aug 90
Plew STP Influent	GN-90-1070	3 Aug 90	EPA 602	SGT Dabney	90050011	23 Aug 90
Plew STP Effluent	GN-90-1071	3 Aug 90	Group A	SGT Dabney		

<u>SITE DESCRIPTION</u>	<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>ANALYSIS</u>	<u>COLLECTED BY</u>	<u>AFOEHL SAMPLE NUMBER</u>	<u>RESULTS RECEIVED</u>
Plew STP Effluent	GN-90-1071	3 Aug 90	Group G	SGT Dabney	90050012	23 Aug 90
Plew STP Effluent	CN-90-1072	2 Aug 90	Group A	SGT Dabney	90050258	30 Aug 90
Plew STP Effluent	CN-90-1072	2 Aug 90	Group E	SGT Dabney	90050260	30 Aug 90
Plew STP Effluent	CN-90-1072	2 Aug 90	Group F	SGT Dabney	90050074	16 Aug 90
Plew STP Effluent	GN-90-1073	3 Aug 90	EPA 601	SGT Dabney	90049934	31 Aug 90
Plew STP Effluent	GN-90-1073	3 Aug 90	EPA 602	SGT Dabney	90049969	31 Aug 90
Storm Drain (@ old STP)	GN-90-1074	3 Aug 90	Group A	SGT Davis	90050261	30 Aug 90
Storm Drain (@ old STP)	GN-90-1074	3 Aug 90	Group E	SGT Davis	90050264	30 Aug 90
Storm Drain (@ old STP)	GN-90-1074	3 Aug 90	Group F	SGT Davis	90050075	16 Aug 90
Storm Drain (@ old STP)	GN-90-1074	3 Aug 90	Group G	SGT Davis	90050265	30 Aug 90
Storm Drain (@ old STP)	GN-90-1075	3 Aug 90	EPA 601	SGT Davis	90049935	31 Aug 90
Storm Drain (@ old STP)	GN-90-1075	3 Aug 90	EPA 602	SGT Davis	90049970	31 Aug 90
Storm Drain 533 (Bldg 455)	GN-90-1076	3 Aug 90	Group A	SGT Davis	90050266	30 Aug 90
Storm Drain 533 (Bldg 455)	GN-90-1076	3 Aug 90	Group E	SGT Davis	90050269	30 Aug 90
Storm Drain 533 (Bldg 455)	GN-90-1076	3 Aug 90	Group F	SGT Davis	90050076	16 Aug 90
Storm Drain 533 (Bldg 455)	GN-90-1076	3 Aug 90	Group G	SGT Davis	90050270	30 Aug 90
Storm Drain 533 (Bldg 455)	GN-90-1077	3 Aug 90	EPA 601	SGT Davis	90049936	31 Aug 90
Storm Drain 533 (Bldg 455)	GN-90-1077	3 Aug 90	EPA 602	SGT Davis	90049971	31 Aug 90
SD @ old STP (Split Sample)	GN-90-1078	3 Aug 90	Group A	SGT Davis	90050271	30 Aug 90
SD @ old STP (Split Sample)	GN-90-1078	3 Aug 90	Group E	SGT Davis	90050273	30 Aug 90
SD @ old STP (Split Sample)	GN-90-1078	3 Aug 90	Group F	SGT Davis	90050077	16 Aug 90
SD @ old STP (Split Sample)	GN-90-1078	3 Aug 90	Group G	SGT Davis	90050274	30 Aug 90
Blank Sample	BK-90-1079	3 Aug 90	Group A	MSG Randall	90050276	30 Aug 90
Blank Sample	BK-90-1079	3 Aug 90	Group E	MSG Randall	90050279	30 Aug 90
Blank Sample	BK-90-1079	3 Aug 90	Group F	MSG Randall	90050078	16 Aug 90
Blank Sample	BK-90-1079	3 Aug 90	Group G	MSG Randall	90050280	30 Aug 90
Storm Drain (Tom's Bayou)	GN-90-1080	4 Aug 90	Group A	MSG Randall	90050281	30 Aug 90
Storm Drain (Tom's Bayou)	GN-90-1080	4 Aug 90	Group D	MSG Randall	90050275	14 Aug 90
Storm Drain (Tom's Bayou)	GN-90-1080	4 Aug 90	Group E	MSG Randall	90050284	30 Aug 90
Storm Drain (Tom's Bayou)	GN-90-1080	4 Aug 90	Group F	MSG Randall	90050079	16 Aug 90
Storm Drain (Tom's Bayou)	GN-90-1080	4 Aug 90	Group G	MSG Randall	90050285	30 Aug 90
Tom's Bayou (Split Sample)	GN-90-1081	4 Aug 90	Group D	MSG Randall	90050184	14 Aug 90
Blank Sample	BK-90-1082	4 Aug 90	Group D	MSG Randall	90050185	14 Aug 90
Storm Drain (Tom's Bayou)	GN-90-1083	4 Aug 90	BOD	MSG Randall	N/A	04 Aug 90
Storm Drain (Beaver Pond)	GN-90-1084	4 Aug 90	BOD	MSG Randall	N/A	04 Aug 90
Storm Drain (Memorial Lake)	GN-90-1085	4 Aug 90	BOD	MSG Randall	N/A	04 Aug 90
Storm Drain (Weekly Bayou)	GN-90-1086	4 Aug 90	BOD	MSG Randall	N/A	04 Aug 90
Storm Drain (Jack's Lake)	GN-90-1087	4 Aug 90	Group A	SGT Davis	90050286	30 Aug 90

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Storm Drain (Jack's Lake)	GN-90-1087	4 Aug 90	Group E	SGT Davis	90050289	30 Aug 90
Storm Drain (Jack's Lake)	GN-90-1087	4 Aug 90	Group F	SGT Davis	90050080	16 Aug 90
Storm Drain (Jack's Lake)	GN-90-1087	4 Aug 90	Group G	SGT Davis	90050290	30 Aug 90
Storm Drain (Jack's Lake)	GN-90-1088	4 Aug 90	EPA 601	SGT Davis	90049937	31 Aug 90
Storm Drain (Jack's Lake)	GN-90-1088	4 Aug 90	EPA 602	SGT Davis	90049972	04 Sep 90
Jack's Lake (Split Sample)	GN-90-1089	4 Aug 90	Group A	SGT Davis	90050291	30 Aug 90
Jack's Lake (Split Sample)	GN-90-1089	4 Aug 90	Group E	SGT Davis	90050293	30 Aug 90
Jack's Lake (Split Sample)	GN-90-1089	4 Aug 90	Group F	SGT Davis	90050081	16 Aug 90
Jack's Lake (Split Sample)	GN-90-1089	4 Aug 90	Group G	SGT Davis	90050294	30 Aug 90
Blank Sample	BK-90-1090	4 Aug 90	Group A	MSG Randall	90050296	30 Aug 90
Blank Sample	BK-90-1090	4 Aug 90	Group E	MSG Randall	90050299	30 Aug 90
Blank Sample	BK-90-1090	4 Aug 90	Group F	MSG Randall	90050082	16 Aug 90
Blank Sample	BK-90-1090	4 Aug 90	Group G	MSG Randall	90050300	30 Aug 90
Control Sample (Rinse Water)	BK-90-1091	4 Aug 90	Group A	MSG Randall	90050301	06 Sep 90
Control Sample (Rinse Water)	BK-90-1091	4 Aug 90	Group E	MSG Randall	90050304	06 Sep 90
Control Sample (Rinse Water)	BK-90-1091	4 Aug 90	Group F	MSG Randall	90050083	16 Aug 90
Control Sample (Rinse Water)	BK-90-1091	4 Aug 90	Group G	MSG Randall	90050305	06 Sep 90
Control (Bldg 1533 Potable)	BK-90-1092	4 Aug 90	Group A	MSG Randall	90050306	06 Sep 90
Control (Bldg 1533 Potable)	BK-90-1092	4 Aug 90	Group D	MSG Randall	90050309	06 Sep 90
Control (Bldg 1533 Potable)	BK-90-1092	4 Aug 90	Group E	MSG Randall	90050310	06 Sep 90
Control (Bldg 1533 Potable)	BK-90-1092	4 Aug 90	Group F	MSG Randall	90050084	16 Aug 90
Control (Bldg 1533 Potable)	BK-90-1092	4 Aug 90	Group G	MSG Randall	90050311	06 Sep 90
O/V Separator - Bldg 1313	GN-90-1093	6 Aug 90	Group A	SGT Dabney	90050887	06 Sep 90
O/V Separator - Bldg 1313	GN-90-1093	6 Aug 90	Group E	SGT Dabney	90050890	06 Sep 90
O/V Separator - Bldg 1313	GN-90-1093	6 Aug 90	Group F	SGT Dabney	90051005	30 Aug 90
O/V Separator - Bldg 1313	GN-90-1093	6 Aug 90	Group G	SGT Dabney	90050891	06 Sep 90
O/V Separator - Bldg 1313	GN-90-1094	6 Aug 90	EPA 601	SGT Dabney	90050543	24 Oct 90
O/V Separator - Bldg 1313	GN-90-1094	6 Aug 90	EPA 602	SGT Dabney	90050565	24 Oct 90
Storm Drain 533 (Bldg 455)	GN-90-1095	6 Aug 90	Group A	SGT Davis	90050892	06 Sep 90
Storm Drain 533 (Bldg 455)	GN-90-1095	6 Aug 90	Group E	SGT Davis	90050895	06 Sep 90
Storm Drain 533 (Bldg 455)	GN-90-1095	6 Aug 90	Group F	SGT Davis	90051006	30 Aug 90
Storm Drain 533 (Bldg 455)	GN-90-1095	6 Aug 90	Group G	SGT Davis	90050896	06 Sep 90
Storm Drain (@ old STP)	GN-90-1096	6 Aug 90	Group A	SGT Davis	90050897	06 Sep 90
Storm Drain (@ old STP)	GN-90-1096	6 Aug 90	Group E	SGT Davis	90050900	06 Sep 90
Storm Drain (@ old STP)	GN-90-1096	6 Aug 90	Group F	SGT Davis	90051007	30 Aug 90
Storm Drain (@ old STP)	GN-90-1096	6 Aug 90	Group G	SGT Davis	90050901	06 Sep 90
Blank Sample	BK-90-1097	6 Aug 90	Group A	MSG Randall	90050902	06 Sep 90
Blank Sample	BK-90-1097	6 Aug 90	Group E	MSG Randall	90050905	06 Sep 90

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Blank Sample	BK-90-1097	6 Aug 90	Group F	MSG Randall	90051008	30 Aug 90
Blank Sample	BK-90-1097	6 Aug 90	Group G	MSG Randall	90050906	06 Sep 90
Blank Sample	BK-90-1097	6 Aug 90	EPA 601	MSG Randall	90050544	24 Oct 90
Blank Sample	BK-90-1097	6 Aug 90	EPA 602	MSG Randall	90050565	24 Oct 90
Sanitary Sewer Manhole 195	CN-90-1098	6 Aug 90	Group A	SGT Davis	90050953	05 Sep 90
Sanitary Sewer Manhole 195	CN-90-1098	6 Aug 90	Group E	SGT Davis	90050955	05 Sep 90
Sanitary Sewer Manhole 195	CN-90-1098	6 Aug 90	Group F	SGT Davis	90051009	30 Aug 90
Sanitary Sewer Manhole 195	GN-90-1099	7 Aug 90	Group A	SGT Davis	90050979	06 Sep 90
Sanitary Sewer Manhole 195	GN-90-1099	7 Aug 90	Group G	SGT Davis	90050980	06 Sep 90
Sanitary Sewer Manhole 195	GN-90-1100	7 Aug 90	EPA 601	SGT Davis	90050545	24 Oct 90
Sanitary Sewer Manhole 195	GN-90-1100	7 Aug 90	EPA 602	SGT Davis	90050567	24 Oct 90
Sanitary Sewer Manhole 1132	CN-90-1101	6 Aug 90	Group A	SGT Davis	90050956	05 Sep 90
Sanitary Sewer Manhole 1132	CN-90-1101	6 Aug 90	Group E	SGT Davis	90050958	05 Sep 90
Sanitary Sewer Manhole 1132	CN-90-1101	6 Aug 90	Group F	SGT Davis	90051010	30 Aug 90
Sanitary Sewer Manhole 1132	GN-90-1102	7 Aug 90	Group A	SGT Davis	90050981	06 Sep 90
Sanitary Sewer Manhole 1132	GN-90-1102	7 Aug 90	Group G	SGT Davis	90050982	06 Sep 90
Sanitary Sewer Manhole 1132	GN-90-1103	7 Aug 90	EPA 601	SGT Davis	90050546	24 Oct 90
Sanitary Sewer Manhole 1132	GN-90-1103	7 Aug 90	EPA 602	SGT Davis	90050568	24 Oct 90
Sanitary Sewer Manhole 1132	CN-90-1104	6 Aug 90	Group A	SGT Dabney	90050959	05 Sep 90
Main Base STP Effluent	CN-90-1104	6 Aug 90	Group E	SGT Dabney	90050961	05 Sep 90
Main Base STP Effluent	CN-90-1104	6 Aug 90	Group F	SGT Dabney	90051011	30 Aug 90
Main Base STP Effluent	GN-90-1105	7 Aug 90	Group A	SGT Dabney	90050983	06 Sep 90
Main Base STP Effluent	GN-90-1105	7 Aug 90	Group G	SGT Dabney	90050984	06 Sep 90
Main Base STP Effluent	GN-90-1106	7 Aug 90	EPA 601	SGT Dabney	90050547	24 Oct 90
Main Base STP Effluent	GN-90-1106	7 Aug 90	EPA 602	SGT Dabney	90050569	24 Oct 90
Main Base STP Effluent	GN-90-1107	7 Aug 90	Group A	SGT Dabney	90050907	06 Sep 90
Plew STP Influent	GN-90-1107	7 Aug 90	Group E	SGT Dabney	90050910	06 Sep 90
Plew STP Influent	GN-90-1107	7 Aug 90	Group F	SGT Dabney	90051012	30 Aug 90
Plew STP Influent	GN-90-1107	7 Aug 90	Group G	SGT Dabney	90050911	06 Sep 90
Plew STP Influent	GN-90-1108	7 Aug 90	EPA 601	SGT Dabney	90050548	24 Oct 90
Plew STP Influent	GN-90-1108	7 Aug 90	EPA 602	SGT Dabney	90050570	24 Oct 90
Plew STP Effluent	CN-90-1109	6 Aug 90	Group A	SGT Dabney	90050962	05 Sep 90
Plew STP Effluent	CN-90-1109	6 Aug 90	Group E	SGT Dabney	90050964	05 Sep 90
Plew STP Effluent	CN-90-1109	6 Aug 90	Group F	SGT Dabney	90051013	30 Aug 90
Plew STP Effluent	GN-90-1110	7 Aug 90	Group A	SGT Dabney	90050985	06 Sep 90
Plew STP Effluent	GN-90-1110	7 Aug 90	Group G	SGT Dabney	90050986	06 Sep 90
Plew STP Effluent	GN-90-1111	7 Aug 90	EPA 601	SGT Dabney	90050549	15 Nov 90
Plew STP Effluent	GN-90-1111	7 Aug 90	EPA 602	SGT Dabney	90050571	15 Nov 90

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Blank Sample	BK-90-1112	7 Aug 90	Group A	MSG Randall	90050912	06 Sep 90
Blank Sample	BK-90-1112	7 Aug 90	Group E	MSG Randall	90050915	06 Sep 90
Blank Sample	BK-90-1112	7 Aug 90	Group F	MSG Randall	90051014	30 Aug 90
Blank Sample	BK-90-1112	7 Aug 90	Group G	MSG Randall	90050916	06 Sep 90
Blank Sample	BK-90-1113	7 Aug 90	EPA 601	MSG Randall	90050550	15 Nov 90
Blank Sample	BK-90-1113	7 Aug 90	EPA 602	MSG Randall	90050572	15 Nov 90
Control (Bldg 1533 Potable)	BK-90-1114	7 Aug 90	Group A	MSG Randall	90050917	06 Sep 90
Control (Bldg 1533 Potable)	BK-90-1114	7 Aug 90	Group E	MSG Randall	90050920	06 Sep 90
Control (Bldg 1533 Potable)	BK-90-1114	7 Aug 90	Group F	MSG Randall	90051015	30 Sep 90
Control (Bldg 1533 Potable)	BK-90-1114	7 Aug 90	Group G	MSG Randall	90050921	06 Sep 90
Control (Bldg 1533 Potable)	BK-90-1115	7 Aug 90	EPA 601	MSG Randall	90050551	15 Nov 90
Control (Bldg 1533 Potable)	BK-90-1115	7 Aug 90	EPA 602	MSG Randall	90050573	15 Nov 90
Storm Drain (Tom's Bayou)	GN-90-1116	8 Aug 90	Group A	MSG Randall	90050922	06 Sep 90
Storm Drain (Tom's Bayou)	GN-90-1116	8 Aug 90	Group D	MSG Randall	90050925	06 Sep 90
Storm Drain (Tom's Bayou)	GN-90-1116	8 Aug 90	Group E	MSG Randall	90050926	06 Sep 90
Storm Drain (Tom's Bayou)	GN-90-1116	8 Aug 90	Group F	MSG Randall	90051016	30 Aug 90
Storm Drain (Tom's Bayou)	GN-90-1116	8 Aug 90	Group G	MSG Randall	90050927	06 Sep 90
Storm Drain (Tom's Bayou)	GN-90-1117	8 Aug 90	EPA 601	MSG Randall	90050552	15 Nov 90
Storm Drain (Tom's Bayou)	GN-90-1117	8 Aug 90	EPA 602	MSG Randall	90050574	15 Nov 90
Storm Drain (Beaver Pond)	GN-90-1118	8 Aug 90	Group A	MSG Randall	90050928	06 Sep 90
Storm Drain (Beaver Pond)	GN-90-1118	8 Aug 90	Group E	MSG Randall	90050931	06 Sep 90
Storm Drain (Beaver Pond)	GN-90-1118	8 Aug 90	Group F	MSG Randall	90051017	30 Aug 90
Storm Drain (Beaver Pond)	GN-90-1118	8 Aug 90	Group G	MSG Randall	90050932	06 Sep 90
Storm Drain (Beaver Pond)	GN-90-1119	8 Aug 90	EPA 601	MSG Randall	90050553	15 Nov 90
Storm Drain (Beaver Pond)	GN-90-1119	8 Aug 90	EPA 602	MSG Randall	90050575	15 Nov 90
Storm Drain (Memorial Lake)	GN-90-1120	8 Aug 90	Group A	MSG Randall	90050933	06 Sep 90
Storm Drain (Memorial Lake)	GN-90-1120	8 Aug 90	Group E	MSG Randall	90050936	06 Sep 90
Storm Drain (Memorial Lake)	GN-90-1120	8 Aug 90	Group F	MSG Randall	90051018	30 Aug 90
Storm Drain (Memorial Lake)	GN-90-1120	8 Aug 90	Group G	MSG Randall	90050937	06 Sep 90
Storm Drain (Memorial Lake)	GN-90-1121	8 Aug 90	EPA 601	MSG Randall	90050554	15 Nov 90
Storm Drain (Memorial Lake)	GN-90-1121	8 Aug 90	EPA 602	MSG Randall	90050576	15 Nov 90
Storm Drain (Weekly Bayou)	GN-90-1122	8 Aug 90	Group A	MSG Randall	90050938	06 Sep 90
Storm Drain (Weekly Bayou)	GN-90-1122	8 Aug 90	Group E	MSG Randall	90050941	06 Sep 90
Storm Drain (Weekly Bayou)	GN-90-1122	8 Aug 90	Group F	MSG Randall	90051019	30 Aug 90
Storm Drain (Weekly Bayou)	GN-90-1122	8 Aug 90	Group G	MSG Randall	90050942	06 Sep 90
Storm Drain (Weekly Bayou)	GN-90-1123	8 Aug 90	EPA 601	MSG Randall	90050555	15 Nov 90
Storm Drain (Weekly Bayou)	GN-90-1123	8 Aug 90	EPA 602	MSG Randall	90050577	15 Nov 90
Sanitary Sewer Manhole 195	CN-90-1124	7 Aug 90	Group A	SGT Davis	90050965	05 Sep 90

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Sanitary Sewer Manhole 195	CN-90-1124	7 Aug 90	Group E	SGT Davis	90050967	05 Sep 90
Sanitary Sewer Manhole 195	CN-90-1124	7 Aug 90	Group F	SGT Davis	90051020	30 Aug 90
Sanitary Sewer Manhole 195	GN-90-1125	8 Aug 90	Group A	SGT Davis	90050987	06 Sep 90
Sanitary Sewer Manhole 195	GN-90-1125	8 Aug 90	Group G	SGT Davis	90050988	06 Sep 90
Sanitary Sewer Manhole 195	GN-90-1125	8 Aug 90	EPA 601	SGT Davis	90050556	15 Nov 90
Sanitary Sewer Manhole 195	GN-90-1126	8 Aug 90	EPA 602	SGT Davis	90050578	15 Nov 90
Sanitary Sewer Manhole 1132	CN-90-1127	7 Aug 90	Group A	SGT Davis	90050968	05 Sep 90
Sanitary Sewer Manhole 1132	CN-90-1127	7 Aug 90	Group E	SGT Davis	90050970	05 Sep 90
Sanitary Sewer Manhole 1132	CN-90-1127	7 Aug 90	Group F	SGT Davis	90051021	30 Aug 90
Sanitary Sewer Manhole 1132	GN-90-1128	8 Aug 90	Group A	SGT Davis	90050989	12 Sep 90
Sanitary Sewer Manhole 1132	GN-90-1128	8 Aug 90	Group G	SGT Davis	90050990	12 Sep 90
Sanitary Sewer Manhole 1132	GN-90-1129	8 Aug 90	EPA 601	SGT Davis	90050557	15 Nov 90
Sanitary Sewer Manhole 1132	GN-90-1129	8 Aug 90	EPA 602	SGT Davis	90050579	15 Nov 90
Sanitary Sewer Manhole 188A	CN-90-1130	7 Aug 90	Group A	SGT Davis	90050971	05 Sep 90
Sanitary Sewer Manhole 188A	CN-90-1130	7 Aug 90	Group E	SGT Davis	90050973	05 Sep 90
Sanitary Sewer Manhole 188A	CN-90-1130	7 Aug 90	Group F	SGT Davis	90051022	30 Aug 90
Sanitary Sewer Manhole 188A	GN-90-1131	8 Aug 90	Group A	SGT Davis	90050991	12 Sep 90
Sanitary Sewer Manhole 188A	GN-90-1131	8 Aug 90	Group G	SGT Davis	90050992	12 Sep 90
Sanitary Sewer Manhole 188A	GN-90-1132	8 Aug 90	EPA 601	SGT Davis	90050558	15 Nov 90
Sanitary Sewer Manhole 188A	GN-90-1132	8 Aug 90	EPA 602	SGT Davis	90050580	15 Nov 90
Sanitary Sewer Manhole 188B	CN-90-1133	7 Aug 90	Group A	SGT Davis	90050974	05 Sep 90
Sanitary Sewer Manhole 188B	CN-90-1133	7 Aug 90	Group E	SGT Davis	90050976	05 Sep 90
Sanitary Sewer Manhole 188B	CN-90-1133	7 Aug 90	Group F	SGT Davis	90051023	30 Aug 90
Sanitary Sewer Manhole 188B	GN-90-1134	8 Aug 90	Group A	SGT Davis	90050993	12 Sep 90
Sanitary Sewer Manhole 188B	GN-90-1134	8 Aug 90	Group G	SGT Davis	90050994	12 Sep 90
Sanitary Sewer Manhole 188B	GN-90-1135	8 Aug 90	EPA 601	SGT Davis	90050559	15 Nov 90
Sanitary Sewer Manhole 188B	GN-90-1135	8 Aug 90	EPA 602	SGT Davis	90050581	15 Nov 90
Main Base STP Sludge Digester	GN-90-1136	8 Aug 90	Group F	SGT Dabney	90051024	30 Aug 90
Plew STP Sludge Digester #1	GN-90-1137	8 Aug 90	Group F	SGT Dabney	90051025	30 Aug 90
Plew STP Sludge Digester #2	GN-90-1138	8 Aug 90	Group F	SGT Dabney	90051026	30 Aug 90
Blank Sample	BK-90-1139	8 Aug 90	Group A	MSG Randall	90050943	06 Sep 90
Blank Sample	BK-90-1139	8 Aug 90	Group E	MSG Randall	90050946	06 Sep 90
Blank Sample	BK-90-1139	8 Aug 90	Group F	MSG Randall	90051027	30 Aug 90
Blank Sample	BK-90-1139	8 Aug 90	Group G	MSG Randall	90050947	06 Sep 90
Blank Sample	BK-90-1140	8 Aug 90	EPA 601	MSG Randall	90050560	15 Nov 90
Blank Sample	BK-90-1140	8 Aug 90	EPA 602	MSG Randall	90050582	15 Nov 90
Storm Drain (Trout Lake)	GN-90-1141	8 Aug 90	Group A	1LT Curtis	90050948	06 Sep 90
Storm Drain (Trout Lake)	GN-90-1141	8 Aug 90	Group E	1LT Curtis	90050951	06 Sep 90

<u>SITE DESCRIPTION</u>	<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>ANALYSIS</u>	<u>COLLECTED BY</u>	<u>AFOEHL SAMPLE NUMBER</u>	<u>RESULTS RECEIVED</u>
Storm Drain (Trout Lake)	GN-90-1141	8 Aug 90	Group F	1LT Curtis	90051028	30 Aug 90
Storm Drain (Trout Lake)	GN-90-1141	8 Aug 90	Group G	1LT Curtis	90050952	06 Sep 90
Storm Drain (Trout Lake)	GN-90-1141	8 Aug 90	Group H	1LT Curtis	90051039	17 Sep 90
Storm Drain (Trout Lake)	GN-90-1142	8 Aug 90	EPA 601	1LT Curtis	90050561	15 Nov 90
Storm Drain (Trout Lake)	GN-90-1142	8 Aug 90	EPA 602	1LT Curtis	90050583	15 Nov 90

----- Last Entry -----

APPENDIX G
Field Measurements Log

FIELD MEASUREMENTS LOG - EGLIN AFB FL WASTEWATER CHARACTERIZATION SURVEY (29 JUL - 10 AUG 90)

SITE DESCRIPTION	SAMPLE NUMBER	DATE COLLECTED	TIME COLLECTED	CHLORINE (ppm)	pH	(°C) TEMP	COD (mg/L)	DISSOLVED OXYGEN (mg/L)
Sanitary Sewer Manhole 215	CN-90-0950	1 Aug 90	1200	0.0	8.43	29.3	130	---
Sanitary Sewer Manhole 215	CN-90-0950	2 Aug 90	0952	0.0	7.80	31.9	---	7.8
Sanitary Sewer Manhole 215	GN-90-0951	2 Aug 90	0952	0.0	7.80	31.9	---	---
Sanitary Sewer Manhole 215	GN-90-0952	2 Aug 90	0952	0.0	7.80	31.9	---	---
Sanitary Sewer Manhole 24	CN-90-0953	1 Aug 90	1210	0.0	11.06	33.1	130	---
Sanitary Sewer Manhole 24	CN-90-0953	2 Aug 90	1035	0.0	11.14	32.4	---	7.9
Sanitary Sewer Manhole 24	GN-90-0954	2 Aug 90	1035	0.0	11.14	32.4	---	---
Sanitary Sewer Manhole 24	GN-90-0955	2 Aug 90	1035	0.0	11.14	32.4	---	---
Sanitary Sewer Manhole 29	CN-90-0956	1 Aug 90	1225	0.0	7.92	---	570	---
Sanitary Sewer Manhole 29	CN-90-0956	2 Aug 90	1110	0.0	7.63	31.9	---	7.9
Sanitary Sewer Manhole 29	GN-90-0957	2 Aug 90	1110	0.0	7.63	31.9	---	---
Sanitary Sewer Manhole 29	GN-90-0958	2 Aug 90	1110	0.0	7.63	31.9	---	---
Sanitary Sewer Manhole 201	CN-90-0959	1 Aug 90	0915	0.0	7.56	31.0	390	---
Sanitary Sewer Manhole 201	CN-90-0959	2 Aug 90	0906	0.0	8.27	25.3	---	7.7
Sanitary Sewer Manhole 201	GN-90-0960	2 Aug 90	0906	0.0	8.27	25.3	---	---
Sanitary Sewer Manhole 201	GN-90-0961	2 Aug 90	0906	0.0	8.27	25.3	---	---
Sanitary Sewer Manhole 16	CN-90-0962	1 Aug 90	0945	0.0	9.85	29.0	390	---
Sanitary Sewer Manhole 16	CN-90-0962	2 Aug 90	0920	0.0	8.95	16.3	---	7.8
Sanitary Sewer Manhole 16	GN-90-0963	2 Aug 90	0920	0.0	8.95	16.3	---	---
Sanitary Sewer Manhole 16	GN-90-0964	2 Aug 90	0920	0.0	8.95	16.3	---	---
Sanitary Sewer Manhole 251	CN-90-0965	1 Aug 90	1035	0.0	8.13	31.0	490	---
Sanitary Sewer Manhole 251	CN-90-0965	2 Aug 90	0952	0.0	8.33	28.6	---	7.8
Sanitary Sewer Manhole 251	GN-90-0966	2 Aug 90	0952	0.0	8.33	28.6	---	---
Sanitary Sewer Manhole 251	GN-90-0967	2 Aug 90	0952	0.0	8.33	28.6	---	---
Main Base STP Effluent	CN-90-0968	1 Aug 90	0950	---	---	---	275	---
Main Base STP Effluent	CN-90-0968	2 Aug 90	0905	0.4	7.50	24.0	---	8.1
Main Base STP Effluent	GN-90-0969	2 Aug 90	0905	0.4	7.50	24.0	---	---
Main Base STP Effluent	GN-90-0970	2 Aug 90	0905	0.4	7.50	24.0	---	---
Sanitary Sewer Manhole 402	CN-90-0971	1 Aug 90	1022	---	---	---	---	---
Sanitary Sewer Manhole 402	CN-90-0971	2 Aug 90	0950	0.0	7.11	30.4	---	---
Sanitary Sewer Manhole 402	GN-90-0972	2 Aug 90	0950	0.0	7.11	30.4	---	---
Sanitary Sewer Manhole 402	GN-90-0973	2 Aug 90	0950	0.0	7.11	30.4	---	---

SITE DESCRIPTION	SAMPLE NUMBER	DATE COLLECTED	TIME COLLECTED	CHLORINE (ppm)	pH	(°C) TEMP	COD (mg/L)	DISSOLVED OXYGEN (mg/L)
Sanitary Sewer Manhole 391	CN-90-0974	1 Aug 90	1100	---	---	---	---	---
Sanitary Sewer Manhole 391	CN-90-0974	2 Aug 90	1005	0.0	8.40	29.9	---	---
Sanitary Sewer Manhole 391	CN-90-0975	2 Aug 90	1005	0.0	8.40	29.9	---	---
Sanitary Sewer Manhole 391	CN-90-0976	2 Aug 90	1005	0.0	8.40	29.9	---	---
Plew STP Influent	CN-90-0977	1 Aug 90	1145	---	---	---	255	---
Plew STP Influent	CN-90-0977	2 Aug 90	1026	0.0	7.70	30.8	---	7.9
Plew STP Influent	CN-90-0978	2 Aug 90	1026	0.0	7.70	30.8	---	---
Plew STP Influent	CN-90-0979	2 Aug 90	1026	0.0	7.70	30.8	---	---
Plew STP Effluent	CN-90-0980	1 Aug 90	1209	---	---	---	---	---
Plew STP Effluent	CN-90-0980	2 Aug 90	1215	0.3	7.71	31.0	---	---
Plew STP Effluent	CN-90-0981	2 Aug 90	1215	0.3	7.71	31.0	---	---
Plew STP Effluent	CN-90-0982	2 Aug 90	1215	0.3	7.71	31.0	---	---
Manhole 402 (Split Sample)	CN-90-0983	1 Aug 90	0950	0.0	7.11	30.4	---	---
Manhole 402 (Split Sample)	CN-90-0984	2 Aug 90	0950	0.0	7.11	30.4	---	---
Storm Drain (Tom's Bayou)	CN-90-0985	2 Aug 90	1510	---	7.63	30.5	---	---
Storm Drain (Tom's Bayou)	CN-90-0986	2 Aug 90	1510	---	7.63	30.5	---	---
Storm Drain (Beaver Pond)	CN-90-0987	2 Aug 90	1500	---	7.15	33.0	---	---
Storm Drain (Beaver Pond)	CN-90-0988	2 Aug 90	1500	---	7.15	33.0	---	---
Storm Drain (Memorial Lake)	CN-90-0989	2 Aug 90	1430	---	6.99	29.2	---	---
Storm Drain (Memorial Lake)	CN-90-0990	2 Aug 90	1430	---	6.99	29.2	---	---
Storm Drain (Weekly Bayou)	CN-90-0991	2 Aug 90	1400	---	6.92	27.5	---	---
Storm Drain (Weekly Bayou)	CN-90-0992	2 Aug 90	1400	---	6.92	27.5	---	---
Blank Sample	BK-90-0993	2 Aug 90	1600	---	---	---	---	---
Blank Sample	BK-90-0994	2 Aug 90	1700	---	---	---	---	---
Not Used	CN-90-0995	-----	---	---	---	---	---	---
Not Used	CN-90-0996	-----	---	---	---	---	---	---
Not Used	CN-90-0997	-----	---	---	---	---	---	---
Not Used	CN-90-0998	-----	---	---	---	---	---	---
Not Used	CN-90-0999	-----	---	---	---	---	---	---
Storm Drain (@ old STP)	CN-90-1000	31 Jul 90	1725	---	7.29	24.9	---	---
Sanitary Sewer Manhole 215	CN-90-1001	1 Aug 90	1200	---	8.43	---	---	---
Storm Drain A (Tom's Bayou)	CN-90-1002	1 Aug 90	1000	---	7.45	26.0	---	---
Storm Drain A (Tom's Bayou)	CN-90-1003	1 Aug 90	1000	---	7.45	26.0	---	---
Storm Drain (Tom's Bayou)	CN-90-1004	1 Aug 90	1015	---	7.85	28.0	---	---
Storm Drain (Tom's Bayou)	CN-90-1005	1 Aug 90	1015	---	7.85	28.0	---	---
Storm Drain (Beaver Pond)	CN-90-1006	1 Aug 90	1050	---	7.20	30.0	---	---
Storm Drain (Beaver Pond)	CN-90-1007	1 Aug 90	1050	---	7.20	30.0	---	---
Storm Drain (Memorial Lake)	CN-90-1008	1 Aug 90	1150	---	6.96	31.0	---	---

<u>SITE DESCRIPTION</u>	<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>TIME COLLECTED</u>	<u>CHLORINE (ppm)</u>	<u>pH</u>	<u>(°C) TEMP</u>	<u>COD (mg/L)</u>	<u>DISSOLVED OXYGEN (mg/L)</u>
Storm Drain (Memorial Lake)	GN-90-1009	1 Aug 90	1150	---	6.96	31.0	---	---
Storm Drain (Weekly Bayou)	GN-90-1010	1 Aug 90	1210	---	6.90	27.5	---	---
Storm Drain (Weekly Bayou)	GN-90-1011	1 Aug 90	1210	---	6.90	27.5	---	---
Sanitary Sewer Manhole 215	GN-90-1012	1 Aug 90	1530	---	7.90	35.0	---	---
Sanitary Sewer Manhole 215	GN-90-1013	1 Aug 90	1530	---	7.90	35.0	---	---
Blank Sample	BK-90-1014	1 Aug 90	1700	---	---	---	---	---
Tom's Bayou A (Split Sample)	GN-90-1015	1 Aug 90	1000	---	7.45	26.0	---	---
Blank Sample	BK-90-1016	1 Aug 90	1600	---	---	---	---	---
Not Used	CN-90-1017	-----	---	---	---	---	---	---
Not Used	CN-90-1018	-----	---	---	---	---	---	---
Not Used	CN-90-1019	-----	---	---	---	---	---	---
Not Used	CN-90-1020	-----	---	---	---	---	---	---
Not Used	CN-90-1021	-----	---	---	---	---	---	---
Not Used	CN-90-1022	-----	---	---	---	---	---	---
Not Used	CN-90-1023	-----	---	---	---	---	---	---
Not Used	CN-90-1024	-----	---	---	---	---	---	---
Not Used	CN-90-1025	-----	---	---	---	---	---	---
Not Used	CN-90-1026	-----	---	---	---	---	---	---
Not Used	CN-90-1027	-----	---	---	---	---	---	---
Not Used	CN-90-1028	-----	---	---	---	---	---	---
Not Used	CN-90-1029	-----	---	---	---	---	---	---
Not Used	CN-90-1030	-----	---	---	---	---	---	---
Not Used	CN-90-1031	-----	---	---	---	---	---	---
Not Used	CN-90-1032	-----	---	---	---	---	---	---
Not Used	CN-90-1033	-----	---	---	---	---	---	---
Not Used	CN-90-1034	-----	---	---	---	---	---	---
Not Used	CN-90-1035	-----	---	---	---	---	---	---
Not Used	CN-90-1036	-----	---	---	---	---	---	---
Not Used	CN-90-1037	-----	---	---	---	---	---	---
Not Used	CN-90-1038	-----	---	---	---	---	---	---
Not Used	CN-90-1039	-----	---	---	---	---	---	---
Blank Sample	BK-90-1040	3 Aug 90	1600	---	---	---	---	---
Sanitary Sewer Manhole 215	GN-90-1041	3 Aug 90	1030	0.0	7.44	30.0	---	---
Sanitary Sewer Manhole 215	CN-90-1042	2 Aug 90	1025	0.0	7.80	31.9	---	7.8
Sanitary Sewer Manhole 215	CN-90-1042	3 Aug 90	1030	0.0	7.44	30.0	---	7.8
Sanitary Sewer Manhole 215	GN-90-1043	3 Aug 90	1030	0.0	7.44	30.0	---	---
Sanitary Sewer Manhole 24	GN-90-1044	3 Aug 90	1100	0.0	10.18	32.0	---	---
Sanitary Sewer Manhole 24	CN-90-1045	2 Aug 90	1035	0.5	11.14	32.4	---	7.9

<u>SITE DESCRIPTION</u>	<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>TIME COLLECTED</u>	<u>CHLORINE (ppm)</u>	<u>pH</u>	<u>(°C) TEMP</u>	<u>COD (mg/L)</u>	<u>DISSOLVED OXYGEN (mg/L)</u>
Sanitary Sewer Manhole 24	CN-90-1045	3 Aug 90	1100	0.0	10.18	32.0	---	7.9
Sanitary Sewer Manhole 24	CN-90-1046	3 Aug 90	1100	0.0	10.18	32.0	---	---
Sanitary Sewer Manhole 29	CN-90-1047	3 Aug 90	1115	0.0	7.48	36.0	---	---
Sanitary Sewer Manhole 29	CN-90-1048	2 Aug 90	1110	0.0	7.63	31.9	---	7.9
Sanitary Sewer Manhole 29	CN-90-1048	3 Aug 90	1115	0.0	7.48	36.0	---	7.9
Sanitary Sewer Manhole 29	CN-90-1049	3 Aug 90	1115	0.0	7.48	36.0	---	---
Sanitary Sewer Manhole 201	CN-90-1050	3 Aug 90	0855	0.0	7.88	17.4	---	---
Sanitary Sewer Manhole 201	CN-90-1051	2 Aug 90	0906	0.0	8.27	25.3	---	7.7
Sanitary Sewer Manhole 201	CN-90-1051	3 Aug 90	0855	0.0	7.88	17.4	---	7.9
Sanitary Sewer Manhole 201	CN-90-1052	3 Aug 90	0855	0.0	7.88	17.4	---	---
Sanitary Sewer Manhole 16	CN-90-1053	3 Aug 90	0920	0.0	8.91	14.9	---	---
Sanitary Sewer Manhole 16	CN-90-1054	2 Aug 90	0920	0.0	8.95	16.3	---	7.8
Sanitary Sewer Manhole 16	CN-90-1054	3 Aug 90	0920	0.0	8.91	14.9	---	7.9
Sanitary Sewer Manhole 16	CN-90-1055	3 Aug 90	0920	0.0	8.91	14.9	---	---
Sanitary Sewer Manhole 251	CN-90-1056	3 Aug 90	0935	0.0	7.74	32.9	---	---
Sanitary Sewer Manhole 251	CN-90-1057	2 Aug 90	0952	0.0	8.33	28.6	---	7.8
Sanitary Sewer Manhole 251	CN-90-1057	3 Aug 90	0935	0.0	7.74	32.9	---	7.9
Sanitary Sewer Manhole 251	CN-90-1058	3 Aug 90	0935	0.0	7.74	32.9	---	---
Main Base STP Effluent	CN-90-1059	3 Aug 90	0852	0.3	7.50	25.6	---	---
Main Base STP Effluent	CN-90-1060	2 Aug 90	0930	0.4	7.50	24.0	---	8.1
Main Base STP Effluent	CN-90-1060	3 Aug 90	0852	0.3	7.50	25.6	---	7.9
Main Base STP Effluent	CN-90-1061	3 Aug 90	0852	0.3	7.50	25.6	---	---
Sanitary Sewer Manhole 402	CN-90-1062	3 Aug 90	0906	0.0	7.45	32.4	---	---
Sanitary Sewer Manhole 402	CN-90-1063	2 Aug 90	1000	0.0	7.40	30.4	---	---
Sanitary Sewer Manhole 402	CN-90-1063	3 Aug 90	0906	0.0	7.45	32.4	---	---
Sanitary Sewer Manhole 402	CN-90-1064	3 Aug 90	0906	0.0	7.45	32.4	---	---
Sanitary Sewer Manhole 391	CN-90-1065	3 Aug 90	0920	0.0	7.43	28.3	---	---
Sanitary Sewer Manhole 391	CN-90-1066	2 Aug 90	1012	0.0	8.40	29.9	---	---
Sanitary Sewer Manhole 391	CN-90-1066	3 Aug 90	0920	0.0	7.43	28.3	---	---
Sanitary Sewer Manhole 391	CN-90-1067	3 Aug 90	0920	0.0	7.43	28.3	---	---
Plew STP Influent	CN-90-1068	3 Aug 90	0948	0.0	7.54	27.7	---	---
Plew STP Influent	CN-90-1069	2 Aug 90	1040	0.0	7.70	30.8	---	7.9
Plew STP Influent	CN-90-1069	3 Aug 90	0948	0.0	7.54	27.7	---	7.9
Plew STP Influent	CN-90-1070	3 Aug 90	0948	0.0	7.54	27.7	---	---
Plew STP Effluent	CN-90-1071	3 Aug 90	1005	0.0	7.70	23.5	---	---
Plew STP Effluent	CN-90-1072	2 Aug 90	1055	0.3	7.71	31.0	---	---
Plew STP Effluent	CN-90-1072	3 Aug 90	1005	0.0	7.70	23.5	---	---
Plew STP Effluent	CN-90-1073	3 Aug 90	1005	0.0	7.70	23.5	---	---

<u>SITE DESCRIPTION</u>	<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>TIME COLLECTED</u>	<u>CHLORINE (ppm)</u>	<u>pH</u>	<u>(°C) TEMP</u>	<u>COD (mg/L)</u>	<u>DISSOLVED OXYGEN (mg/L)</u>
Storm Drain (@ old STP)	GN-90-1074	3 Aug 90	1645	---	7.27	32.0	---	---
Storm Drain (@ old STP)	GN-90-1075	3 Aug 90	1645	---	7.27	32.0	---	---
Storm Drain 533 (Bldg 455)	GN-90-1076	3 Aug 90	1615	---	6.84	32.0	---	---
Storm Drain 533 (Bldg 455)	GN-90-1077	3 Aug 90	1615	---	6.84	32.0	---	---
SD @ old STP (Split Sample)	GN-90-1078	3 Aug 90	1645	---	7.27	32.0	---	---
Blank Sample	BK-90-1079	3 Aug 90	1630	---	---	---	---	---
Storm Drain (Tom's Bayou)	GN-90-1080	4 Aug 90	1020	---	7.36	29.9	---	8.2
Tom's Bayou (Split Sample)	GN-90-1081	4 Aug 90	1020	---	7.36	29.9	---	8.2
Blank Sample	BK-90-1082	4 Aug 90	1145	---	---	---	---	---
Storm Drain (Tom's Bayou)	GN-90-1083	4 Aug 90	1020	---	7.36	29.9	---	8.2
Storm Drain (Beaver Pond)	GN-90-1084	4 Aug 90	1035	---	6.69	32.1	---	8.3
Storm Drain (Memorial Lake)	GN-90-1085	4 Aug 90	1055	---	7.02	31.8	---	8.3
Storm Drain (Weekly Bayou)	GN-90-1086	4 Aug 90	1110	---	6.86	27.7	---	8.3
Storm Drain (Jack's Lake)	GN-90-1087	4 Aug 90	1100	---	---	---	---	---
Storm Drain (Jack's Lake)	GN-90-1088	4 Aug 90	1100	---	---	---	---	---
Jack's Lake (Split Sample)	GN-90-1089	4 Aug 90	1100	---	---	---	---	---
Blank Sample	BK-90-1090	4 Aug 90	1300	---	---	---	---	---
Control Sample (Rinse Water)	BK-90-1091	4 Aug 90	1315	---	---	---	---	---
Control (Bldg 1533 Potable)	BK-90-1092	4 Aug 90	1330	---	---	---	---	---
O/W Separator - Bldg 1313	GN-90-1093	6 Aug 90	0950	0.0	6.79	31.6	---	---
O/W Separator - Bldg 1313	GN-90-1094	6 Aug 90	0950	0.0	6.79	31.6	---	---
Storm Drain 533 (Bldg 455)	GN-90-1095	6 Aug 90	1030	---	6.85	30.9	---	---
Storm Drain (@ old STP)	GN-90-1096	6 Aug 90	1135	---	6.64	26.0	---	---
Blank Sample	BK-90-1097	6 Aug 90	1300	---	---	---	---	---
Sanitary Sewer Manhole 195	CN-90-1098	6 Aug 90	1100	---	---	---	---	---
Sanitary Sewer Manhole 195	CN-90-1098	7 Aug 90	1135	0.0	7.49	33.0	---	---
Sanitary Sewer Manhole 195	GN-90-1099	7 Aug 90	1135	0.0	7.49	33.0	---	---
Sanitary Sewer Manhole 195	GN-90-1100	7 Aug 90	1135	0.0	7.49	33.0	---	---
Sanitary Sewer Manhole 1132	CN-90-1101	6 Aug 90	0935	---	---	---	---	---
Sanitary Sewer Manhole 1132	CN-90-1101	7 Aug 90	1155	0.0	7.75	32.0	---	---
Sanitary Sewer Manhole 1132	GN-90-1102	7 Aug 90	1155	0.0	7.75	32.0	---	---
Sanitary Sewer Manhole 1132	GN-90-1103	7 Aug 90	1155	0.0	7.75	32.0	---	---
Main Base STP Effluent	CN-90-1104	6 Aug 90	0930	---	---	---	---	---
Main Base STP Effluent	CN-90-1104	7 Aug 90	1057	0.3	7.23	34.1	---	---
Main Base STP Effluent	GN-90-1105	7 Aug 90	1057	0.3	7.23	34.1	---	---
Main Base STP Effluent	GN-90-1106	7 Aug 90	1057	0.3	7.23	34.1	---	---
Plew STP Influent	GN-90-1107	7 Aug 90	1200	0.0	7.42	29.6	---	---
Plew STP Influent	GN-90-1108	7 Aug 90	1200	0.0	7.42	29.6	---	---

<u>SITE DESCRIPTION</u>	<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>TIME COLLECTED</u>	<u>CHLORINE (ppm)</u>	<u>pH</u>	<u>(°C) TEMP</u>	<u>COD (mg/L)</u>	<u>DISSOLVED OXYGEN (mg/L)</u>
Plew STP Effluent	CN-90-1109	6 Aug 90	1015	---	---	---	---	---
Plew STP Effluent	CN-90-1109	7 Aug 90	1210	0.2	7.57	23.8	---	---
Plew STP Effluent	GN-90-1110	7 Aug 90	1210	0.2	7.57	23.8	---	---
Plew STP Effluent	GN-90-1111	7 Aug 90	1210	0.2	7.57	23.8	---	---
Blank Sample	BK-90-1112	7 Aug 90	1500	---	---	---	---	---
Blank Sample	BK-90-1113	7 Aug 90	1500	---	---	---	---	---
Control (Bldg 1533 Potable)	BK-90-1114	7 Aug 90	1700	---	---	---	---	---
Control (Bldg 1533 Potable)	BK-90-1115	7 Aug 90	1700	---	---	---	---	---
Storm Drain (Tom's Bayou)	GN-90-1116	8 Aug 90	0900	---	7.88	30.0	---	---
Storm Drain (Tom's Bayou)	GN-90-1117	8 Aug 90	0900	---	7.88	30.0	---	---
Storm Drain (Beaver Pond)	GN-90-1118	8 Aug 90	0920	---	7.40	32.0	---	---
Storm Drain (Beaver Pond)	GN-90-1119	8 Aug 90	0920	---	7.40	32.0	---	---
Storm Drain (Memorial Lake)	GN-90-1120	8 Aug 90	1000	---	6.82	30.0	---	---
Storm Drain (Memorial Lake)	GN-90-1121	8 Aug 90	1000	---	6.82	30.0	---	---
Storm Drain (Weekly Bayou)	GN-90-1122	8 Aug 90	1020	---	6.58	28.0	---	---
Storm Drain (Weekly Bayou)	GN-90-1123	8 Aug 90	1020	---	6.58	28.0	---	---
Sanitary Sewer Manhole 195	CN-90-1124	7 Aug 90	1135	0.0	7.49	33.0	---	---
Sanitary Sewer Manhole 195	CN-90-1124	8 Aug 90	0915	0.0	7.34	28.0	---	---
Sanitary Sewer Manhole 195	GN-90-1125	8 Aug 90	0915	0.0	7.34	28.0	---	---
Sanitary Sewer Manhole 195	GN-90-1126	8 Aug 90	0915	0.0	7.34	28.0	---	---
Sanitary Sewer Manhole 1132	CN-90-1127	7 Aug 90	1155	0.0	7.75	32.0	---	---
Sanitary Sewer Manhole 1132	CN-90-1127	8 Aug 90	1008	0.0	7.54	29.0	---	---
Sanitary Sewer Manhole 1132	GN-90-1128	8 Aug 90	1008	0.0	7.54	29.0	---	---
Sanitary Sewer Manhole 1132	GN-90-1129	8 Aug 90	1008	0.0	7.54	29.0	---	---
Sanitary Sewer Manhole 188A	CN-90-1130	7 Aug 90	1055	---	---	---	---	---
Sanitary Sewer Manhole 188A	CN-90-1130	8 Aug 90	0925	0.0	8.23	31.0	---	---
Sanitary Sewer Manhole 188A	GN-90-1131	8 Aug 90	0925	0.0	8.23	31.0	---	---
Sanitary Sewer Manhole 188A	GN-90-1132	8 Aug 90	0925	0.0	8.23	31.0	---	---
Sanitary Sewer Manhole 188B	CN-90-1133	7 Aug 90	1055	---	---	---	---	---
Sanitary Sewer Manhole 188B	CN-90-1133	8 Aug 90	0931	0.0	6.02	31.0	---	---
Sanitary Sewer Manhole 188B	GN-90-1134	8 Aug 90	0931	0.0	6.02	31.0	---	---
Sanitary Sewer Manhole 188B	GN-90-1135	8 Aug 90	0931	0.0	6.02	31.0	---	---
Main Base STP Sludge Digester	GN-90-1136	8 Aug 90	0830	---	---	---	---	---
Plew STP Sludge Digester #1	GN-90-1137	8 Aug 90	0845	---	---	---	---	---
Plew STP Sludge Digester #2	GN-90-1138	8 Aug 90	0850	---	---	---	---	---
Blank Sample	BK-90-1139	8 Aug 90	1230	---	---	---	---	---
Blank Sample	BK-90-1140	8 Aug 90	1230	---	---	---	---	---
Storm Drain (Trout Lake)	GN-90-1141	8 Aug 90	1400	---	---	---	---	---

<u>SITE DESCRIPTION</u>	<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>TIME COLLECTED</u>	<u>CHLORINE (ppm)</u>	<u>pH</u>	<u>(°C) TEMP</u>	<u>COD (mg/L)</u>	<u>DISSOLVED OXYGEN (mg/L)</u>
Storm Drain (Trout Lake)	GN-90-1142	8 Aug 90	1400	---	---	---	---	---
----- Last Entry -----								

APPENDIX H
Sample Report of Analysis

AIR FORCE
OCCUPATIONAL AND ENVIRONMENTAL HEALTH LABORATORY
BROOKS AFB, TEXAS, 78235-5501

REPORT OF ANALYSIS

BASE SAMPLE NO: GN901002

SAMPLE TYPE: NON-POTABLE WATER

SITE IDENTIFIER: NOXXXX

DATE RECEIVED: 900809

DATE COLLECTED: 900801

DATE REPORTED: 900831

SAMPLE SUBMITTED BY: AFSC RGN HOSP EGLIN/SGPB

PRESERVATION GROUP A, B, C OEHL SAMPLE NUMBER: 90050019

<u>Test</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>
Chemical oxygen demand	55	mg/L	STD.METH. 508C
Total organic carbon	9	mg/L	EPA 415.1

PRESERVATION GROUP A, B, C OEHL SAMPLE NUMBER: 90050020

<u>Test</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>
Oil & Grease	<0.3	mg/L	EPA 413.2
Total hydrocarbons	<1.0	mg/L	EPA 418.1

Comments:

< - Signifies none detected and the detection limits.

PRESERVATION GROUP A, B, C OEHL SAMPLE NUMBER: 90050021

<u>Test</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>
Kjeldahl nitrogen(total)	13.0	mg/L	EPA 351.2
Phosphorus (total)	2.45	mg/L	EPA 365.1

TO:

AFOEHL/EQ
BROOKS AFB TX 78235-5501

PAGE 1(Cont'd)

AIR FORCE
OCCUPATIONAL AND ENVIRONMENTAL HEALTH LABORATORY
BROOKS AFB, TEXAS, 78235-5501

REPORT OF ANALYSIS

BASE SAMPLE NO: GN901002

SAMPLE TYPE: NON-POTABLE WATER

SITE IDENTIFIER: NOXXXX

DATE RECEIVED: 900809

DATE COLLECTED: 900801

DATE REPORTED: 900831

SAMPLE SUBMITTED BY: AFSC RGN HOSP EGLIN/SGPB

PRESERVATION GROUP E

DEHL SAMPLE NUMBER: 90050022

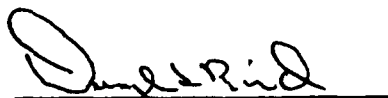
<u>Test</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>
Phenol	10	ug/L	EPA 420.2

PRESERVATION GROUP G

DEHL SAMPLE NUMBER: 90050023

<u>Test</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>
Bromides	3.0	mg/L	DIONEX ANION
Residue, Nonfilterable	5276	mg/L	EPA 160.2
Specific conductance	506	umhos	EPA 120.1
Surfactants-MBAS	0.2	mg/L	EPA 425.1

Approved by:



Daryl S. Bird, GS-12
Chief, Inorganic Analysis

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APPENDIX I

Sample Results - Storm Drainage System

SAMPLE RESULTS - STORM DRAINAGE SYSTEM

<u>PARAMETER</u>	<u>UNITS</u>	<u>SITE 001A</u> <u>GRAB/1015</u> <u>1 AUG 90</u>	<u>SITE 001B</u> <u>GRAB/1015</u> <u>1 AUG 90</u>	<u>SITE 001B</u> <u>GRAB/1510</u> <u>2 AUG 90</u>	<u>SITE 001B</u> <u>GRAB/1020</u> <u>4 AUG 90</u>	<u>SITE 001B</u> <u>GRAB/0900</u> <u>8 AUG 90</u>	<u>SITE 002</u> <u>GRAB/1100</u> <u>4 AUG 90</u>
Aluminum	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Arsenic	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Barium	µg/L	< 100.0	< 100.0	101.0	< 100.0	< 100.0	< 100.0
Beryllium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Bromide	mg/L	3.0	4.5	3.2	---	---	---
Cadmium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Calcium	mg/L	23.1	28.9	29.8	29.5	31.4	17.9
Chemical Oxygen Demand	mg/L	55.0	90.0	60.0	45.0	60.0	35.0
Chromium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Cobalt	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Copper	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	137.0	< 100.0
Cyanide	mg/L	---	---	---	0.45	29.0	---
Hydrocarbons, Total	mg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Iron	µg/L	818.0	1,623.0	1,198.0	604.0	13,080.0	2,993.0
Magnesium	mg/L	12.8	17.6	18.5	13.1	17.4	24.9
Manganese	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Mercury	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.0
Molybdenum	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Nickel	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Nitrogen, Kjeldahl	mg/L	13.0	18.5	12.0	6.6	19.0	1.2
Oil & Grease	mg/L	< 0.3	0.5	< 0.3	< 0.3	< 0.3	< 0.3
Organic Carbon, Total	mg/L	9.0	15.0	11.0	14.0	20.0	8.0
pH (Hydrogen Ion)	Units	7.45	7.85	7.63	7.36	7.88	---
Phenol	µg/L	10.0	< 10.0	10.0	12.0	< 10.0	50.0
Phosphorus, Total	mg/L	2.45	3.25	2.4	1.12	2.1	< 0.1
Residue, Nonfilterable	mg/L	5,276.0	3,396.0	< 1.0	5.0	< 1.0	6.0
Silver	µg/L	---	---	---	---	---	---
Specific Conductance	µmhos	506	674	566	393	611	1,256
Surfactants (MBAS)	mg/L	0.2	0.2	0.2	0.3	0.2	< 0.1
Titanium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Vanadium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Zinc	µg/L	< 100.0	< 100.0	< 100.0	150.0	111.0	< 100.0

PARAMETER	UNITS	SITE 001A GRAB/1015 1 AUG 90	SITE 001B GRAB/1015 1 AUG 90	SITE 001B GRAB/1510 2 AUG 90	SITE 001B GRAB/1020 4 AUG 90	SITE 001B GRAB/0900 8 AUG 90	SITE 002 GRAB/1100 4 AUG 90
Benzene	µg/L	< 0.5	< 0.5	Note 4	---	Note 4	< 0.5
Bromodichloromethane	µg/L	< 0.4	< 0.4	Note 4	---	Note 4	< 0.4
Bromoform	µg/L	< 0.7	< 0.7	Note 4	---	Note 4	< 0.7
Bromomethane	µg/L	< 0.9	< 0.9	Note 4	---	Note 4	< 0.9
Carbon Tetrachloride	µg/L	< 0.5	< 0.5	Note 4	---	Note 4	< 0.5
Chlorobenzene	µg/L	< 0.6	< 0.6	Note 4	---	Note 4	< 0.6
Chloroethane	µg/L	< 0.9	< 0.9	Note 4	---	Note 4	< 0.9
2-Chloroethylvinyl Ether	µg/L	< 0.9	< 0.9	Note 4	---	Note 4	< 0.9
Chloroform	µg/L	< 0.3	< 0.3	Note 4	---	Note 4	< 0.3
Chloromethane	µg/L	< 0.8	< 0.8	Note 4	---	Note 4	< 0.8
Chlorodibromomethane	µg/L	< 0.5	< 0.5	Note 4	---	Note 4	< 0.5
1,2 Dichlorobenzene	µg/L	< 1.0	< 1.0	Note 4	---	Note 4	< 1.0
1,3 Dichlorobenzene	µg/L	< 0.5	< 0.5	Note 4	---	Note 4	< 0.5
1,4-Dichlorobenzene	µg/L	< 0.7	< 0.7	Note 4	---	Note 4	< 0.7
Dichlorodifluoromethane	µg/L	< 0.9	< 0.9	Note 4	---	Note 4	< 0.9
1,1-Dichloroethane	µg/L	< 0.4	3.2	Note 4	---	Note 4	< 0.4
1,2 Dichloroethane	µg/L	< 0.3	< 0.3	Note 4	---	Note 4	< 0.3
1,1-Dichloroethene	µg/L	< 0.3	< 0.3	Note 4	---	Note 4	< 0.3
trans-1,2-Dichloroethene	µg/L	< 0.5	1.9	Note 4	---	Note 4	< 0.5
1,2-Dichloropropane	µg/L	< 0.3	< 0.3	Note 4	---	Note 4	0.7
cis-1,3-Dichloropropene	µg/L	< 0.5	< 0.5	Note 4	---	Note 4	< 0.5
trans-1,3-Dichloropropene	µg/L	< 0.5	< 0.5	Note 4	---	Note 4	< 0.5
Ethyl Benzene	µg/L	< 0.3	< 0.3	Note 4	---	Note 4	Note 2
Methylene Chloride	µg/L	< 0.4	< 0.4	Note 4	---	Note 4	< 0.4
1,1,2,2-Tetrachloroethane	µg/L	< 0.5	< 0.5	Note 4	---	Note 4	< 0.5
Tetrachloroethylene	µg/L	< 0.6	< 0.6	Note 4	---	Note 4	< 0.6
Toluene	µg/L	< 0.3	< 0.3	Note 4	---	Note 4	Note 2
1,1,1-Trichloroethane	µg/L	< 0.5	< 0.5	Note 4	---	Note 4	< 0.5
1,1,2-Trichloroethane	µg/L	< 0.5	< 0.5	Note 4	---	Note 4	< 0.5
Trichloroethylene	µg/L	< 0.5	< 0.5	Note 4	---	Note 4	< 0.5
Trichlorofluoromethane	µg/L	< 0.4	< 0.4	Note 4	---	Note 4	< 0.4
Vinyl Chloride	µg/L	< 0.9	< 0.9	Note 4	---	Note 4	< 0.9

SAMPLE RESULTS - STORM DRAINAGE SYSTEM

PARAMETER	UNITS	SITE 003 GRAB/1050 1 AUG 90	SITE 003 GRAB/1500 2 AUG 90	SITE 003 GRAB/0920 8 AUG 90	SITE 004 GRAB/1150 1 AUG 90	SITE 004 GRAB/1430 2 AUG 90	SITE 004 GRAB/1000 8 AUG 90
Aluminum	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Arsenic	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Barium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Beryllium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Bromide	mg/L	---	---	---	---	---	---
Cadmium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Calcium	mg/L	3.8	3.8	3.7	7.4	6.8	6.4
Chemical Oxygen Demand	mg/L	< 10.0	< 10.0	< 10.0	25.0	50.0	25.0
Chromium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Cobalt	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Copper	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	137.0	< 100.0
Cyanide	mg/L	---	---	---	---	---	---
Hydrocarbons, Total	mg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Iron	µg/L	245.0	274.0	275.0	541.0	627.0	601.0
Magnesium	mg/L	0.8	0.8	0.7	1.6	1.5	1.4
Manganese	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Mercury	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Molybdenum	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Nickel	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Nitrogen, Kjeldahl	mg/L	0.5	0.6	0.5	0.8	1.0	1.1
Oil & Grease	mg/L	< 0.3	0.5	< 0.3	< 0.3	0.5	< 0.3
Organic Carbon, Total	mg/L	3.0	9.0	4.0	1.0	7.0	5.0
pH (Hydrogen Ion)	Units	7.20	7.15	7.40	6.96	6.99	6.82
Phenol	µg/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Phosphorus, Total	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	0.11	0.1
Residue, Nonfilterable	mg/L	1.0	< 1.0	< 1.0	1.0	3.0	< 1.0
Silver	µg/L	---	---	---	---	---	---
Specific Conductance	µmhos	37	36	40	66	67	68
Surfactants (MBAS)	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Titanium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Vanadium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Zinc	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0

PARAMETER	UNITS	SITE 003 GRAB/1050 1 AUG 90	SITE 003 GRAB/1500 2 AUG 90	SITE 003 GRAB/0920 8 AUG 90	SITE 004 GRAB/1150 1 AUG 90	SITE 004 GRAB/1430 2 AUG 90	SITE 004 GRAB/1000 8 AUG 90
Benzene	µg/L	< 0.5	< 0.5	Note 4	< 0.5	< 0.5	< 0.5
Bromodichloromethane	µg/L	< 0.4	< 0.4	Note 4	< 0.4	< 0.4	< 0.4
Bromoform	µg/L	< 0.7	< 0.7	Note 4	< 0.7	< 0.7	< 0.7
Bromomethane	µg/L	< 0.9	< 0.9	Note 4	< 0.9	< 0.9	< 0.9
Carbon Tetrachloride	µg/L	< 0.5	< 0.5	Note 4	< 0.5	< 0.5	< 0.5
Chlorobenzene	µg/L	< 0.6	< 0.6	Note 4	< 0.6	< 0.6	< 0.6
Chloroethane	µg/L	< 0.9	< 0.9	Note 4	< 0.9	< 0.9	< 0.9
2-Chloroethylvinyl Ether	µg/L	< 0.9	< 0.9	Note 4	< 0.9	< 0.9	< 0.9
Chloroform	µg/L	< 0.3	< 0.3	Note 4	< 0.3	< 0.3	< 0.3
Chloromethane	µg/L	< 0.8	< 0.8	Note 4	< 0.8	< 0.8	< 0.8
Chlorodibromomethane	µg/L	< 0.5	< 0.5	Note 4	< 0.5	< 0.5	< 0.5
1,2-Dichlorobenzene	µg/L	< 1.0	< 1.0	Note 4	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	< 0.5	< 0.5	Note 4	< 0.5	< 0.5	< 0.5
1,4-Dichlorobenzene	µg/L	< 0.7	< 0.7	Note 4	< 0.7	< 0.7	< 0.7
Dichlorodifluoromethane	µg/L	< 0.9	< 0.9	Note 4	< 0.9	1.8	1.2
1,1-Dichloroethane	µg/L	< 0.4	< 0.4	Note 4	< 0.4	< 0.4	< 0.4
1,2-Dichloroethane	µg/L	< 0.3	67.0	Note 4	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	µg/L	< 0.3	0.77	Note 4	< 0.3	0.67	< 0.3
trans-1,2-Dichloroethene	µg/L	< 0.5	2.1	Note 4	< 0.5	< 0.5	< 0.5
1,2-Dichloropropane	µg/L	< 0.3	< 0.3	Note 4	< 0.3	< 0.3	< 0.3
cis-1,3-Dichloropropene	µg/L	< 0.5	< 0.5	Note 4	< 0.5	2.2	< 0.5
trans-1,3-Dichloropropene	µg/L	< 0.5	< 0.5	Note 4	< 0.5	1.8	< 0.5
Ethyl Benzene	µg/L	< 0.3	Note 2	Note 4	< 0.3	Note 2	< 0.3
Methylene Chloride	µg/L	< 0.4	< 0.4	Note 4	< 0.4	< 0.4	< 0.4
1,1,2,2-Tetrachloroethane	µg/L	< 0.5	< 0.5	Note 4	< 0.5	< 0.5	< 0.5
Tetrachloroethylene	µg/L	< 0.6	< 0.6	Note 4	< 0.6	< 0.6	< 0.6
Toluene	µg/L	< 0.3	Note 2	Note 4	< 0.3	Note 2	< 0.3
1,1,1-Trichloroethane	µg/L	< 0.5	< 0.5	Note 4	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	µg/L	< 0.5	< 0.5	Note 4	< 0.5	< 0.5	< 0.5
Trichloroethylene	µg/L	< 0.5	< 0.5	Note 4	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	µg/L	< 0.4	< 0.4	Note 4	< 0.4	< 0.4	< 0.4
Vinyl Chloride	µg/L	< 0.9	< 0.9	Note 4	< 0.9	< 0.9	< 0.9

SAMPLE RESULTS - STORM DRAINAGE SYSTEM

PARAMETER	UNITS	SITE 005 GRAB/1210 1 AUG 90	SITE 005 GRAB/1400 2 AUG 90	SITE 005 GRAB/1020 8 AUG 90	SITE 006 GRAB/1725 31 JUL 90	SITE 006 GRAB/1645 3 AUG 90	SITE 006 GRAB/1135 6 AUG 90
Aluminum	µg/L	135.0	155.0	138.0	---	1,801.0	< 100.0
Arsenic	µg/L	< 100.0	< 100.0	< 100.0	---	< 100.0	< 100.0
Barium	µg/L	< 100.0	< 100.0	101.0	---	252.0	< 100.0
Beryllium	µg/L	< 100.0	< 100.0	< 100.0	---	< 100.0	< 100.0
Bromide	mg/L	---	---	---	---	---	---
Cadmium	µg/L	< 100.0	< 100.0	< 100.0	---	< 100.0	< 100.0
Calcium	mg/L	19.1	18.7	18.2	---	37.8	32.0
Chemical Oxygen Demand	mg/L	< 10.0	< 10.0	< 10.0	---	130.0	65.0
Chromium	µg/L	< 100.0	< 100.0	< 100.0	---	< 100.0	< 100.0
Cobalt	µg/L	< 100.0	< 100.0	< 100.0	---	< 100.0	< 100.0
Copper	µg/L	< 100.0	< 100.0	< 100.0	---	121.0	< 100.0
Cyanide	mg/L	---	---	---	---	---	---
Hydrocarbons, Total	mg/L	< 1.0	< 1.0	< 1.0	---	< 1.0	< 1.0
Iron	µg/L	< 100.0	< 100.0	101.0	---	152,830.0	22,230.0
Magnesium	mg/L	5.3	5.3	4.8	---	5.6	5.7
Manganese	µg/L	< 100.0	< 100.0	< 100.0	---	16,250.0	302.0
Mercury	µg/L	< 1.0	< 1.0	< 1.0	---	< 1.0	< 1.0
Molybdenum	µg/L	< 100.0	< 100.0	< 100.0	---	< 100.0	< 100.0
Nickel	µg/L	< 100.0	< 100.0	< 100.0	---	< 100.0	< 100.0
Nitrogen, Kjeldahl	mg/L	0.4	0.6	0.6	---	5.6	1.2
Oil & Grease	mg/L	0.5	< 0.3	< 0.3	---	0.3	0.5
Organic Carbon, Total	mg/L	1.0	2.0	2.0	---	46.0	10.0
pH (Hydrogen Ion)	Units	6.90	6.92	6.58	7.29	7.27	6.64
Phenol	µg/L	< 10.0	< 10.0	< 10.0	---	< 10.0	< 10.0
Phosphorus, Total	mg/L	< 0.1	< 0.1	< 0.1	---	3.7	0.2
Residue, Nonfilterable	mg/L	108.0	7.0	84.0	6.0	20.0	6.0
Silver	µg/L	---	---	---	---	---	---
Specific Conductance	µmhos	166	165	164	153	119	224
Surfactants (MBAS)	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1
Titanium	µg/L	< 100.0	< 100.0	< 100.0	---	< 100.0	< 100.0
Vanadium	µg/L	< 100.0	< 100.0	< 100.0	---	< 100.0	< 100.0
Zinc	µg/L	< 100.0	< 100.0	< 100.0	---	255.0	404.0

PARAMETER	UNITS	SITE 005 GRAB/1210 1 AUG 90	SITE 005 GRAB/1400 2 AUG 90	SITE 005 GRAB/1020 8 AUG 90	SITE 006 GRAB/1725 31 JUL 90	SITE 006 GRAB/1645 3 AUG 90	SITE 006 GRAB/1135 6 AUG 90
Benzene	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	---
Bromodichloromethane	µg/L	< 0.4	< 0.4	< 0.4	---	< 0.4	---
Bromoform	µg/L	< 0.7	< 0.7	< 0.7	---	< 0.7	---
Bromomethane	µg/L	< 0.9	< 0.9	< 0.9	---	Note 2	---
Carbon Tetrachloride	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	---
Chlorobenzene	µg/L	< 0.6	< 0.6	< 0.6	---	< 0.6	---
Chloroethane	µg/L	< 0.9	< 0.9	< 0.9	---	Note 2	---
2-Chloroethylvinyl Ether	µg/L	< 0.9	< 0.9	< 0.9	---	< 0.9	---
Chloroform	µg/L	< 0.3	< 0.3	< 0.3	---	< 0.3	---
Chloromethane	µg/L	< 0.8	< 0.8	< 0.8	---	Note 2	---
Chlorodibromomethane	µg/L	< 0.5	2.9	< 0.5	---	< 0.5	---
1,2-Dichlorobenzene	µg/L	< 1.0	< 1.0	< 1.0	---	< 1.0	---
1,3-Dichlorobenzene	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	---
1,4-Dichlorobenzene	µg/L	< 0.7	< 0.7	< 0.7	---	< 0.7	---
Dichlorodifluoromethane	µg/L	< 0.9	< 0.9	< 0.9	---	< 0.9	---
1,1-Dichloroethane	µg/L	< 0.4	1.5	< 0.4	---	< 0.4	---
1,2-Dichloroethane	µg/L	< 0.3	< 0.3	< 0.3	---	3.0	---
1,1-Dichloroethene	µg/L	< 0.3	27.0	< 0.3	---	Note 2	---
trans-1,2-Dichloroethene	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	---
1,2-Dichloropropane	µg/L	< 0.3	< 0.3	< 0.3	---	< 0.3	---
cis-1,3-Dichloropropene	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	---
trans-1,3-Dichloropropene	µg/L	< 0.5	1.2	< 0.5	---	< 0.5	---
Ethyl Benzene	µg/L	< 0.3	Note 2	< 0.3	---	Note 2	---
Methylene Chloride	µg/L	< 0.4	< 0.4	< 0.4	---	< 0.4	---
1,1,2,2-Tetrachloroethane	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	---
Tetrachloroethylene	µg/L	< 0.6	< 0.6	< 0.6	---	< 0.6	---
Toluene	µg/L	< 0.3	Note 2	< 0.3	---	Note 2	---
1,1,1-Trichloroethane	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	---
1,1,2-Trichloroethane	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	---
Trichloroethylene	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	---
Trichlorofluoromethane	µg/L	< 0.4	< 0.4	< 0.4	---	Note 2	---
Vinyl Chloride	µg/L	< 0.9	< 0.9	< 0.9	---	Note 2	---

SAMPLE RESULTS - STORM DRAINAGE SYSTEM

PARAMETER	UNITS	SITE 007	SITE 007	SITE 008
		GRAB/1615	GRAB/1030	GRAB/1400
		3 AUG 90	6 AUG 90	8 AUG 90
Aluminum	µg/L	448.0	234.0	< 100.0
Arsenic	µg/L	< 100.0	< 100.0	< 100.0
Barium	µg/L	< 100.0	< 100.0	101.0
Beryllium	µg/L	< 100.0	< 100.0	< 100.0
Bromide	mg/L	---	---	---
Cadmium	µg/L	< 100.0	< 100.0	< 100.0
Calcium	mg/L	47.8	37.4	5.7
Chemical Oxygen Demand	mg/L	225.0	120.0	40.0
Chromium	µg/L	< 100.0	< 100.0	< 100.0
Cobalt	µg/L	< 100.0	< 100.0	< 100.0
Copper	µg/L	< 100.0	< 100.0	< 100.0
Cyanide	mg/L	---	---	---
Hydrocarbons, Total	mg/L	< 1.0	< 1.0	< 1.0
Iron	µg/L	960.0	474.0	385.0
Magnesium	mg/L	3.9	3.4	2.1
Manganese	µg/L	< 100.0	142.0	< 100.0
Mercury	µg/L	< 1.0	< 1.0	< 1.0
Molybdenum	µg/L	< 100.0	< 100.0	< 100.0
Nickel	µg/L	< 100.0	< 100.0	< 100.0
Nitrogen, Kjeldahl	mg/L	1.7	1.6	0.7
Oil & Grease	mg/L	< 0.3	0.3	< 0.3
Organic Carbon, Total	mg/L	86.0	52.0	5.0
pH (Hydrogen Ion)	Units	6.84	6.85	---
Phenol	µg/L	10.0	19.0	< 10.0
Phosphorus, Total	mg/L	< 0.1	< 0.1	< 0.1
Residue, Nonfilterable	mg/L	10.0	< 1.0	< 1.0
Silver	µg/L	---	---	---
Specific Conductance	µmhos	264	231	70
Surfactants (MBAS)	mg/L	2.0	0.9	< 0.1
Titanium	µg/L	< 100.0	< 100.0	< 100.0
Vanadium	µg/L	< 100.0	< 100.0	< 100.0
Zinc	µg/L	448.0	224.0	< 100.0

<u>PARAMETER</u>	<u>UNITS</u>	<u>SITE 007</u> GRAB/1615 3 AUG 90	<u>SITE 007</u> GRAB/1030 6 AUG 90	<u>SITE 008</u> GRAB/1400 8 AUG 90
Benzene	µg/L	Note 3	---	< 0.5
Bromodichloromethane	µg/L	Note 3	---	< 0.4
Bromoform	µg/L	Note 3	---	< 0.7
Bromomethane	µg/L	Note 3	---	< 0.9
Carbon Tetrachloride	µg/L	Note 3	---	< 0.5
Chlorobenzene	µg/L	Note 3	---	< 0.6
Chloroethane	µg/L	Note 3	---	< 0.9
2-Chloroethylvinyl Ether	µg/L	Note 3	---	< 0.9
Chloroform	µg/L	Note 3	---	< 0.3
Chloromethane	µg/L	Note 3	---	< 0.8
Chlorodibromomethane	µg/L	Note 3	---	< 0.5
1,2-Dichlorobenzene	µg/L	Note 3	---	< 1.0
1,3-Dichlorobenzene	µg/L	Note 3	---	< 0.5
1,4-Dichlorobenzene	µg/L	Note 3	---	< 0.7
Dichlorodifluoromethane	µg/L	Note 3	---	< 0.9
1,1-Dichloroethane	µg/L	Note 3	---	< 0.4
1,2-Dichloroethane	µg/L	Note 3	---	< 0.3
1,1-Dichloroethene	µg/L	Note 3	---	< 0.3
trans-1,2-Dichloroethene	µg/L	Note 3	---	< 0.5
1,2-Dichloropropane	µg/L	Note 3	---	< 0.3
cis-1,3-Dichloropropene	µg/L	Note 3	---	< 0.5
trans-1,3-Dichloropropene	µg/L	Note 3	---	< 0.5
Ethyl Benzene	µg/L	Note 3	---	< 0.3
Methylene Chloride	µg/L	Note 3	---	< 0.4
1,1,2,2-Tetrachloroethane	µg/L	Note 3	---	< 0.5
Tetrachloroethylene	µg/L	Note 3	---	< 0.6
Toluene	µg/L	Note 3	---	< 0.3
1,1,1-Trichloroethane	µg/L	Note 3	---	< 0.5
1,1,2-Trichloroethane	µg/L	Note 3	---	< 0.5
Trichloroethylene	µg/L	Note 3	---	< 0.5
Trichlorofluoromethane	µg/L	Note 3	---	< 0.4
Vinyl Chloride	µg/L	Note 3	---	< 0.9

SAMPLE RESULTS - STORM DRAINAGE SYSTEM
Pesticide Analyses

PARAMETER	UNITS	SITE 008	
		GRAB/1400	8 AUG 90
Aldrin	µg/L	<	0.01
BHC (alpha)	µg/L	<	0.01
BHC (beta)	µg/L	<	0.01
BHC (delta)	µg/L	<	0.01
BHC (gamma)	µg/L	<	0.01
Chlordane	µg/L	<	0.2
DDT (p,p-DDD)	µg/L	<	0.01
DDT (p,p-DDE)	µg/L	<	0.01
DDT (p,p-DDT)	µg/L	<	0.05
Dieldrin	µg/L	<	0.01
Dursban	µg/L	<	0.05
Endrin	µg/L	<	0.05
Heptachlor	µg/L	<	0.01
Heptachlor Epoxide	µg/L	<	0.01
Methoxychlor	µg/L	<	0.05
Pramitol	µg/L	<	100.0
Toxaphene	µg/L	<	1.0
2,4-D	µg/L	<	0.05
2,4,5-T	µg/L	<	0.05
2,4,5-TP-Silvex	µg/L	<	0.05

SAMPLE NOTES

Note 1: Sample lost in transit.

Note 2: Interfering peak precluded accurate analysis.

Note 3: Analysis not performed due to formation of air bubble in sample.

Note 4: Data lost due to computer malfunction.

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APPENDIX J

Sample Results - Sanitary Sewer System

SAMPLE RESULTS - SANITARY SEWER SYSTEM

PARAMETER	UNITS	SITE 023		SITE 023		SITE 024		SITE 024		SITE 025		SITE 025	
		COMPOSITE		COMPOSITE		COMPOSITE		COMPOSITE		COMPOSITE		COMPOSITE	
		1 AUG 90	2 AUG 90	1 AUG 90	2 AUG 90	1 AUG 90	2 AUG 90	1 AUG 90	2 AUG 90	1 AUG 90	2 AUG 90	1 AUG 90	2 AUG 90
Aluminum	µg/L	124.0	143.0	136.0	126.0	1,078.0	232.0						
Arsenic	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0						
Barium	µg/L	< 100.0	164.0	213.0	< 100.0	< 100.0	< 100.0						
Beryllium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0						
Bromide	mg/L	---	---	---	---	---	---						
Cadmium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0						
Calcium	mg/L	22.5	193.5	15.2	19.0	29.0	26.2						
Chemical Oxygen Demand	mg/L	220.0	290.0	470.0	260.0	255.0	230.0						
Chromium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0						
Cobalt	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0						
Copper	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0						
Cyanide	mg/L	---	---	---	---	---	---						
Hydrocarbons, Total	mg/L	7.2	126.0	59.6	Note 1	2.2	Note 1						
Iron	µg/L	300.0	283.0	171.0	226.0	1,019.0	581.0						
Magnesium	mg/L	14.1	62.2	8.7	13.8	14.6	11.6						
Manganese	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0						
Mercury	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0						
Molybdenum	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0						
Nickel	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0						
Nitrogen, Kjeldahl	mg/L	34.0	22.0	9.4	13.5	28.0	29.5						
Oil & Grease	mg/L	23.8	168.0	107.2	Note 1	13.8	Note 1						
Organic Carbon, Total	mg/L	52.0	60.0	68.0	79.0	40.0	64.0						
pH (Hydrogen Ion)	Units	8.91	8.95	10.18	11.14	7.63	7.48						
Phenol	µg/L	26.0	120.0	28.0	28.0	10.0	32.0						
Phosphorus, Total	mg/L	4.1	4.5	2.75	3.8	5.2	8.0						
Residue, Nonfilterable	mg/L	40.0	396.0	26.0	110.0	22.0	72.0						
Silver	µg/L	---	---	---	---	---	---						
Specific Conductance	µmhos	709	4,300	1,109	1,704	517	482						
Surfactants (MBAS)	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1						
Titanium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0						
Vanadium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0						
Zinc	µg/L	277.0	272.0	< 100.0	139.0	414.0	274.0						

PARAMETER	UNITS	JUL 90		AUG 90		JUL 90		AUG 90		JUL 90		AUG 90	
		COMPOSITE		COMPOSITE		COMPOSITE		COMPOSITE		COMPOSITE		COMPOSITE	
		1	AUG 90	2	AUG 90	1	AUG 90	2	AUG 90	1	AUG 90	2	AUG 90
Benzene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	Note 2	Note 2
Bromodichloromethane	µg/L	< 0.4	0.96	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	< 0.4	< 0.4	< 0.4	2.1
Bromoform	µg/L	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Bromomethane	µg/L	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	< 0.9	< 0.9
Carbon Tetrachloride	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	Note 2	Note 2	< 0.5	< 0.5
Chlorobenzene	µg/L	< 0.6	25.0	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Chloroethane	µg/L	Note 2	< 0.9	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	< 0.9	< 0.9
2-Chloroethylvinyl Ether	µg/L	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Chloroform	µg/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Chloromethane	µg/L	Note 2	< 0.8	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	< 0.8	< 0.8
Chlorodibromomethane	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichlorobenzene	µg/L	< 1.0	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	< 0.5	20.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dichlorobenzene	µg/L	2.2	8.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	12.0	12.0	< 0.5	< 0.5
Dichlorodifluoromethane	µg/L	Note 2	32.0	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
1,1-Dichloroethane	µg/L	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,2-Dichloroethane	µg/L	4.4	1.5	2.1	2.1	2.1	2.1	2.1	2.1	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	µg/L	Note 2	1.1	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	< 0.3	< 0.3	< 0.3	< 0.3
trans-1,2-Dichloroethene	µg/L	< 0.5	1.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.76
1,2-Dichloropropane	µg/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
cis-1,3-Dichloropropene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,3-Dichloropropene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethyl Benzene	µg/L	11.0	18.0	47.0	47.0	47.0	47.0	47.0	47.0	Note 2	Note 2	Note 2	Note 2
Methylene Chloride	µg/L	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,1,2,2-Tetrachloroethane	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethylene	µg/L	< 0.6	7.8	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Toluene	µg/L	Note 2	3.7	1.3	1.3	1.3	1.3	1.3	1.3	Note 2	Note 2	Note 2	Note 2
1,1,1-Trichloroethane	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethylene	µg/L	12.0	38.0	1.4	1.4	1.4	1.4	1.4	1.4	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	µg/L	Note 2	< 0.4	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	< 0.4	< 0.4
Vinyl Chloride	µg/L	Note 2	< 0.9	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	< 0.9	< 0.9

SAMPLE RESULTS - SANITARY SEWER SYSTEM

PARAMETER	UNITS	SITE 026 COMPOSITE 7 AUG 90	SITE 027 COMPOSITE 7 AUG 90	SITE 028 COMPOSITE 6 AUG 90	SITE 028 COMPOSITE 7 AUG 90	SITE 029 COMPOSITE 1 AUG 90	SITE 029 COMPOSITE 2 AUG 90
Aluminum	µg/L	210.0	< 100.0	724.0	< 100.0	228.0	105.0
Arsenic	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Barium	µg/L	< 100.0	< 100.0	101.0	< 100.0	< 100.0	< 100.0
Beryllium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Bromide	mg/L	---	---	---	---	---	---
Cadmium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Calcium	mg/L	27.1	32.1	35.9	28.3	29.0	27.8
Chemical Oxygen Demand	mg/L	345.0	285.0	225.0	235.0	150.0	170.0
Chromium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Cobalt	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Copper	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Cyanide	mg/L	---	---	---	---	---	---
Hydrocarbons, Total	mg/L	9.9	13.8	6.3	3.3	1.0	8.5
Iron	µg/L	1,001.0	5,562.0	3,896.0	11,180.0	979.0	1,418.0
Magnesium	mg/L	15.4	16.0	15.3	14.3	17.9	14.6
Manganese	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Mercury	µg/L	< 1.0	< 1.0	< 1.0	1.0	< 1.0	< 1.0
Molybdenum	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Nickel	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Nitrogen, Kjeldahl	mg/L	25.0	27.0	50.0	29.0	32.0	29.5
Oil & Grease	mg/L	48.8	92.0	22.1	28.8	10.7	35.2
Organic Carbon, Total	mg/L	57.0	84.0	73.0	36.0	50.0	41.0
pH (Hydrogen Ion)	Units	8.23	6.02	7.49	7.34	7.88	8.27
Phenol	µg/L	32.0	28.0	70.0	< 10.0	54.0	10.0
Phosphorus, Total	mg/L	7.4	5.3	15.8	3.25	4.5	4.4
Residue, Nonfilterable	mg/L	14.0	20.0	130.0	37.0	30.0	118.0
Silver	µg/L	---	---	---	---	---	---
Specific Conductance	µmhos	673	638	963	588	706	550
Surfactants (MBAS)	mg/L	0.2	0.1	0.2	0.2	0.6	2.2
Titanium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Vanadium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Zinc	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	197.0	130.0

PARAMETER	UNITS	SITE 026 COMPOSITE 7 AUG 90	SITE 027 COMPOSITE 7 AUG 90	SITE 028 COMPOSITE 6 AUG 90	SITE 028 COMPOSITE 7 AUG 90	SITE 029 COMPOSITE 1 AUG 90	SITE 029 COMPOSITE 2 AUG 90
Benzene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	µg/L	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Bromoform	µg/L	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Bromomethane	µg/L	< 0.9	< 0.9	< 0.9	< 0.9	Note 2	< 0.9
Carbon Tetrachloride	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	µg/L	< 0.6	2.0	< 0.6	< 0.6	< 0.6	< 0.6
Chloroethane	µg/L	< 0.9	< 0.9	< 0.9	< 0.9	Note 2	< 0.9
2-Chloroethylvinyl Ether	µg/L	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Chloroform	µg/L	1.6	< 0.3	2.3	0.45	0.37	< 0.3
Chloromethane	µg/L	< 0.8	< 0.8	< 0.8	< 0.8	Note 2	< 0.8
Chlorodibromomethane	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichlorobenzene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dichlorobenzene	µg/L	3.3	1.8	4.3	2.0	< 0.7	< 0.7
Dichlorodifluoromethane	µg/L	0.7	1.0	< 0.9	0.96	< 0.9	< 0.9
1,1-Dichloroethane	µg/L	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,2-Dichloroethane	µg/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	µg/L	< 0.3	< 0.3	< 0.3	< 0.3	Note 2	< 0.3
trans-1,2-Dichloroethene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.76
1,2-Dichloropropane	µg/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.65
cis-1,3-Dichloropropene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,3-Dichloropropene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethyl Benzene	µg/L	Note 2	Note 2	< 0.3	< 0.3	Note 2	< 0.3
Methylene Chloride	µg/L	2.0	6.4	< 0.3	12.0	< 0.4	< 0.4
1,1,2,2-Tetrachloroethane	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethylene	µg/L	3.4	0.62	< 0.6	< 0.6	< 0.6	< 0.6
Toluene	µg/L	1.5	< 0.3	< 0.3	< 0.3	Note 2	< 0.3
1,1,1-Trichloroethane	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethylene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	µg/L	< 0.4	< 0.4	< 0.4	< 0.4	Note 2	< 0.4
Vinyl Chloride	µg/L	< 0.9	< 0.9	< 0.9	< 0.9	Note 2	< 0.9

SAMPLE RESULTS - SANITARY SEWER SYSTEM

PARAMETER	SITE 030 GRAB/1200 1 AUG 90	SITE 030 GRAB/1530 1 AUG 90	SITE 030 COMPOSITE 1 AUG 90	SITE 030 COMPOSITE 2 AUG 90	SITE 031 COMPOSITE 1 AUG 90	SITE 031 COMPOSITE 2 AUG 90
UNITS						
Aluminum	---	< 100.0	183.0	< 100.0	140.0	Note 1
Arsenic	---	< 100.0	< 100.0	< 100.0	< 100.0	Note 1
Barium	---	< 100.0	101.0	< 100.0	< 100.0	Note 1
Beryllium	---	< 100.0	< 100.0	< 100.0	< 100.0	Note 1
Bromide	---	4.7	---	1.9	---	---
Cadmium	---	< 100.0	< 100.0	< 100.0	< 100.0	Note 1
Calcium	---	22.3	25.2	23.8	25.2	Note 1
Chemical Oxygen Demand	135.0	180.0	200.0	100.0	350.0	110.0
Chromium	---	< 100.0	< 100.0	< 100.0	< 100.0	Note 1
Cobalt	---	< 100.0	< 100.0	< 100.0	< 100.0	Note 1
Copper	---	< 100.0	< 100.0	< 100.0	< 100.0	Note 1
Cyanide	---	---	---	---	---	---
Hydrocarbons, Total	---	2.3	2.9	< 1.0	13.1	< 1.0
Iron	---	1,741.0	1,691.0	1,681.0	742.0	Note 1
Magnesium	---	14.6	15.9	15.8	12.9	Note 1
Manganese	---	< 100.0	< 100.0	< 100.0	< 100.0	Note 1
Mercury	---	< 1.0	< 1.0	< 1.0	< 1.0	Note 1
Molybdenum	---	< 100.0	< 100.0	< 100.0	< 100.0	Note 1
Nickel	---	< 100.0	< 100.0	< 100.0	< 100.0	Note 1
Nitrogen, Kjeldahl	19.5	18.0	25.0	20.5	44.0	26.5
Oil & Grease	---	7.2	11.4	1.1	35.2	9.6
Organic Carbon, Total	38.0	27.0	42.0	34.0	63.0	29.0
pH (Hydrogen Ion)	8.43	7.90	7.80	7.44	8.33	7.74
Phenol	---	14.0	12.0	12.0	215.0	< 10.0
Phosphorus, Total	6.1	3.15	3.2	2.6	12.0	2.6
Residue, Nonfilterable	---	3.0	6.0	18.0	60.0	174.0
Silver	---	---	10.0	---	---	---
Specific Conductance	---	515	595	485	708	591
Surfactants (MBAS)	---	0.4	8.0	0.1	0.4	0.5
Titanium	---	< 100.0	< 100.0	< 100.0	< 100.0	Note 1
Vanadium	---	< 100.0	< 100.0	< 100.0	< 100.0	Note 1
Zinc	---	< 100.0	< 100.0	245.0	170.0	Note 1

PARAMETER	UNITS	SITE 030		SITE 030		SITE 030		SITE 030		SITE 031		SITE 031	
		GRAB/1200	GRAB/1530	1 AUG 90	1 AUG 90	1 AUG 90	1 AUG 90	2 AUG 90	2 AUG 90	1 AUG 90	1 AUG 90	2 AUG 90	2 AUG 90
Benzene	µg/L	---	Note 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	µg/L	---	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Bromoform	µg/L	---	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Bromomethane	µg/L	---	< 0.9	Note 2	Note 2	Note 2	Note 2	< 0.9	Note 2	Note 2	Note 2	< 0.9	< 0.9
Carbon Tetrachloride	µg/L	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	µg/L	---	< 0.6	0.89	0.89	0.89	0.89	< 0.6	< 0.6	< 0.6	< 0.6	< 0.65	< 0.65
Chloroethane	µg/L	---	< 0.9	Note 2	Note 2	Note 2	Note 2	< 0.9	Note 2	Note 2	Note 2	< 0.9	< 0.9
1-Chloroethylvinyl Ether	µg/L	---	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Chloroform	µg/L	---	0.74	2.8	2.8	2.8	2.8	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Chloromethane	µg/L	---	< 0.8	Note 2	Note 2	Note 2	Note 2	< 0.8	Note 2	Note 2	Note 2	< 0.8	< 0.8
Chlorodibromomethane	µg/L	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichlorobenzene	µg/L	---	3.7	1.7	1.7	1.7	1.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	---	< 0.5	5.8	5.8	5.8	5.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dichlorobenzene	µg/L	---	3.1	4.2	4.2	4.2	4.2	< 0.7	< 0.7	3.4	3.4	3.5	3.5
Dichlorodifluoromethane	µg/L	---	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	5.4	5.4	Note 2	Note 2	1.4	1.4
1,1-Dichloroethane	µg/L	---	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	1.1	1.1	1.0	1.0	< 0.4	< 0.4
1,2-Dichloroethane	µg/L	---	< 0.3	0.83	0.83	0.83	0.83	19.0	19.0	< 0.3	< 0.3	< 0.38	< 0.38
1,1-Dichloroethene	µg/L	---	< 0.3	Note 2	Note 2	Note 2	Note 2	< 0.3	< 0.3	Note 2	Note 2	0.51	0.51
trans-1,2-Dichloroethene	µg/L	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.53	0.53
1,1-Dichloropropane	µg/L	---	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	1.5	1.5	< 0.3	< 0.3	< 0.3	< 0.3
cis-1,3-Dichloropropene	µg/L	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,3-Dichloropropene	µg/L	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethyl Benzene	µg/L	---	Note 2	Note 2	Note 2	Note 2	Note 2	< 0.3	< 0.3	Note 2	Note 2	Note 2	Note 2
Methylene Chloride	µg/L	---	3.8	4.5	4.5	4.5	4.5	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,1,2,2-Tetrachloroethane	µg/L	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethylene	µg/L	---	< 0.6	0.5	0.5	0.5	0.5	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Toluene	µg/L	---	Note 2	2.3	2.3	2.3	2.3	< 0.3	< 0.3	Note 2	Note 2	Note 2	Note 2
1,1,1-Trichloroethane	µg/L	---	0.43	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	µg/L	---	< 0.5	0.92	0.92	0.92	0.92	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethylene	µg/L	---	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.4	1.4	< 0.5	< 0.5	4.1	4.1
Trichlorofluoromethane	µg/L	---	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	Note 2	Note 2	3.6	3.6
Vinyl Chloride	µg/L	---	< 0.9	Note 2	Note 2	Note 2	Note 2	< 0.9	< 0.9	Note 2	Note 2	< 0.9	< 0.9

SAMPLE RESULTS - SANITARY SEWER SYSTEM

<u>PARAMETER</u>	<u>UNITS</u>	<u>SITE 032</u> <u>COMPOSITE</u> <u>1 AUG 90</u>	<u>SITE 032</u> <u>COMPOSITE</u> <u>1 AUG 90</u>	<u>SITE 033</u> <u>COMPOSITE</u> <u>1 AUG 90</u>	<u>SITE 033</u> <u>COMPOSITE</u> <u>2 AUG 90</u>	<u>SITE 034</u> <u>COMPOSITE</u> <u>6 AUG 90</u>	<u>SITE 034</u> <u>COMPOSITE</u> <u>7 AUG 90</u>
Aluminum	µg/L	198.0	237.0	176.0	118.0	< 100.0	414.0
Arsenic	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Barium	µg/L	< 100.0	< 100.0	101.0	< 100.0	< 100.0	< 100.0
Beryllium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Bromide	mg/L	---	---	---	---	---	---
Cadmium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Calcium	mg/L	26.6	27.3	24.8	< 0.1	18.4	28.6
Chemical Oxygen Demand	mg/L	135.0	225.0	345.0	215.0	140.0	240.0
Chromium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Cobalt	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Copper	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	137.0	< 100.0
Cyanide	mg/L	---	---	---	---	---	---
Hydrocarbons, Total	mg/L	7.2	1.4	56.6	2.8	< 1.0	2.1
Iron	µg/L	1,046.0	1,040.0	972.0	881.0	363.0	1,950.0
Magnesium	mg/L	15.9	16.0	15.8	14.6	13.6	15.8
Manganese	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Mercury	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Molybdenum	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Nickel	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Nitrogen, Kjeldahl	mg/L	26.0	27.5	18.0	20.0	53.0	91.0
Oil & Grease	mg/L	48.0	5.4	156.0	8.7	1.4	20.0
Organic Carbon, Total	mg/L	36.0	43.0	56.6	59.0	67.0	126.0
pH (Hydrogen Ion)	Units	8.40	7.43	7.11	7.45	7.75	7.54
Phenol	µg/L	117.0	830.0	1,225.0	1,470.0	76.0	125.0
Phosphorus, Total	mg/L	4.25	3.9	3.2	3.5	5.0	7.0
Residue, Nonfilterable	mg/L	108.0	7.0	84.0	11.0	20.0	6.0
Silver	µg/L	---	---	---	---	---	---
Specific Conductance	µmhos	572	382	382	265	947	1,190
Surfactants (MBAS)	mg/L	1.9	11.0	39.0	4.6	< 0.1	< 0.1
Titanium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Vanadium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Zinc	µg/L	340.0	286.0	187.0	190.0	< 100.0	404.0

PARAMETER	UNITS	SITE 032 COMPOSITE 1 AUG 90	SITE 032 COMPOSITE 1 AUG 90	SITE 033 COMPOSITE 1 AUG 90	SITE 033 COMPOSITE 2 AUG 90	SITE 034 COMPOSITE 6 AUG 90	SITE 034 COMPOSITE 7 AUG 90
Benzene	ug/L	< 0.5	< 0.5	Note 2	< 0.5	< 0.5	< 0.5
Bromodichloromethane	ug/L	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Bromoform	ug/L	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Bromomethane	ug/L	Note 2	Note 2	Note 2	< 0.9	< 0.9	< 0.9
Carbon Tetrachloride	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	ug/L	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Chloroethane	ug/L	Note 2	Note 2	Note 2	< 0.9	< 0.9	< 0.9
2-Chloroethylvinyl Ether	ug/L	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Chloroform	ug/L	< 0.3	< 0.3	< 0.3	0.4	< 0.3	8.8
Chloromethane	ug/L	Note 2	< 0.8	Note 2	Note 2	< 0.8	< 0.8
Chlorodibromomethane	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichlorobenzene	ug/L	< 1.0	< 1.0	11.6	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	ug/L	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5
1,4-Dichlorobenzene	ug/L	< 0.7	1.3	3.0	< 0.7	< 0.7	< 0.7
Dichlorodifluoromethane	ug/L	Note 2	< 0.9	Note 2	< 0.9	< 0.9	< 0.9
1,1-Dichloroethane	ug/L	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,2-Dichloroethane	ug/L	< 0.3	11.0	< 0.3	11.0	< 0.3	< 0.3
1,1-Dichloroethene	ug/L	< 0.3	Note 2	Note 2	< 0.3	< 0.3	< 0.3
trans-1,2-Dichloroethene	ug/L	1.3	< 0.5	7.1	< 0.5	< 0.5	< 0.5
1,2-Dichloropropane	ug/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
cis-1,3-Dichloropropene	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,3-Dichloropropene	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethyl Benzene	ug/L	Note 2	Note 2	5.2	Note 2	< 0.3	< 0.3
Methylene Chloride	ug/L	5.0	95.0	< 0.4	< 0.4	< 0.4	< 0.4
1,1,2,2-Tetrachloroethane	ug/L	0.67	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethylene	ug/L	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Toluene	ug/L	11.0	Note 2	Note 2	Note 2	< 0.3	< 0.3
1,1,1-Trichloroethane	ug/L	0.62	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethylene	ug/L	1.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	ug/L	Note 2	Note 2	Note 2	< 0.4	< 0.4	< 0.4
Vinyl Chloride	ug/L	Note 2	Note 2	Note 2	< 0.9	< 0.9	< 0.9

SAMPLE RESULTS - SANITARY SEWER SYSTEM

PARAMETER	UNITS	SITE 036 COMPOSITE 1 AUG 90	SITE 036 COMPOSITE 2 AUG 90	SITE 036 GRAB/1210 7 AUG 90	SITE 037 COMPOSITE 1 AUG 90	SITE 037 COMPOSITE 2 AUG 90	SITE 037 COMPOSITE 6 AUG 90
Alumirum	µg/L	338.0	337.0	714.0	208.0	103.0	< 100.0
Arsenic	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Barium	µg/L	< 100.0	< 100.0	132.0	< 100.0	< 100.0	< 100.0
Beryllium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Bromide	mg/L	---	---	---	---	---	---
Cadmium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Calcium	mg/L	23.8	22.6	27.6	20.0	20.9	18.4
Chemical Oxygen Demand	mg/L	210.0	70.0	120.0	100.0	20.0	25.0
Chromium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Cobalt	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Copper	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	137.0	< 100.0
Cyanide	mg/L	---	---	---	---	---	---
Hydrocarbons, Total	mg/L	< 1.0	5.3	2.0	< 1.0	< 1.0	< 1.0
Iron	µg/L	658.0	706.0	1,580.0	214.0	189.0	< 100.0
Magnesium	mg/L	13.6	13.1	13.2	11.3	12.5	11.3
Manganese	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Mercury	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Molybdenum	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Nickel	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Nitrogen, Kjeldahl	mg/L	19.5	21.5	20.5	5.5	6.6	3.2
Oil & Grease	mg/L	12.6	53.6	44.8	< 0.3	< 0.3	0.5
Organic Carbon, Total	mg/L	44.0	46.0	36.0	12.0	7.0	5.0
pH (Hydrogen Ion)	Units	7.70	7.54	7.42	7.71	7.70	7.57
Phenol	µg/L	< 10.0	10.0	32.0	< 10.0	10.0	12.0
Phosphorus, Total	mg/L	5.9	5.0	8.2	2.5	2.4	1.85
Residue, Nonfilterable	mg/L	44.0	220.0	202.0	< 1.0	< 1.0	< 1.0
Silver	µg/L	---	---	---	---	---	---
Specific Conductance	µmhos	635	615	612	480	487	489
Surfactants (MBAS)	mg/L	6.6	4.4	0.2	0.1	0.2	0.1
Titanium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Vanadium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Zinc	µg/L	250.0	163.0	361.0	< 100.0	< 100.0	< 100.0

PARAMETER	UNITS	SITE 036 COMPOSITE 1 AUG 90	SITE 036 COMPOSITE 2 AUG 90	SITE 036 GRAB/1210 7 AUG 90	SITE 037 COMPOSITE 1 AUG 90	SITE 037 COMPOSITE 2 AUG 90	SITE 037 COMPOSITE 6 AUG 90
Benzene	µg/L	< 0.5	< 0.5	< 0.5	Note 4	< 0.5	Note 4
Bromodichloromethane	µg/L	< 0.4	< 0.4	< 0.4	Note 4	< 0.4	Note 4
Bromoform	µg/L	< 0.7	< 0.7	< 0.7	Note 4	< 0.7	Note 4
Bromomethane	µg/L	Note 2	Note 2	< 0.9	Note 4	Note 2	Note 4
Carbon Tetrachloride	µg/L	< 0.5	< 0.5	< 0.5	Note 4	< 0.5	Note 4
Chlorobenzene	µg/L	< 0.6	25.0	< 0.6	Note 4	< 0.6	Note 4
Chloroethane	µg/L	Note 2	Note 2	< 0.9	Note 4	Note 2	Note 4
2-Chloroethylvinyl Ether	µg/L	< 0.9	< 0.9	< 0.9	Note 4	< 0.9	Note 4
Chloroform	µg/L	< 0.3	< 0.3	0.7	Note 4	< 0.3	Note 4
Chloromethane	µg/L	Note 2	Note 2	< 0.8	Note 4	Note 2	Note 4
Chlorodibromomethane	µg/L	< 0.5	< 0.5	< 0.5	Note 4	< 0.5	Note 4
1,2-Dichlorobenzene	µg/L	< 1.0	< 1.0	< 1.0	Note 4	< 1.0	Note 4
1,3-Dichlorobenzene	µg/L	< 0.5	< 0.5	< 0.5	Note 4	< 0.5	Note 4
1,4-Dichlorobenzene	µg/L	< 0.7	8.7	1.7	Note 4	1.8	Note 4
Dichlorodifluoromethane	µg/L	Note 2	< 0.9	< 0.9	Note 4	< 0.9	Note 4
1,1-Dichloroethane	µg/L	< 0.4	< 0.4	< 0.4	Note 4	< 0.4	Note 4
1,2-Dichloroethane	µg/L	4.8	7.9	< 0.3	Note 4	2.2	Note 4
1,1-Dichloroethene	µg/L	< 0.3	Note 2	< 0.3	Note 4	Note 2	Note 4
trans-1,2-Dichloroethene	µg/L	< 0.5	< 0.5	< 0.5	Note 4	< 0.5	Note 4
1,2-Dichloropropane	µg/L	< 0.3	< 0.3	< 0.3	Note 4	< 0.58	Note 4
cis-1,3-Dichloropropene	µg/L	< 0.5	< 0.5	< 0.5	Note 4	< 0.5	Note 4
trans-1,3-Dichloropropene	µg/L	< 0.5	< 0.5	< 0.5	Note 4	< 0.5	Note 4
Ethyl Benzene	µg/L	Note 2	18.0	< 0.3	Note 4	Note 2	Note 4
Methylene Chloride	µg/L	< 0.4	< 0.4	< 0.4	Note 4	< 0.4	Note 4
1,1,2,2-Tetrachloroethane	µg/L	< 0.5	< 0.5	< 0.5	Note 4	< 0.5	Note 4
Tetrachloroethylene	µg/L	< 0.6	< 0.6	< 0.6	Note 4	< 0.6	Note 4
Toluene	µg/L	Note 2	3.7	< 0.3	Note 4	Note 2	Note 4
1,1,1-Trichloroethane	µg/L	< 0.5	< 0.5	< 0.5	Note 4	< 0.5	Note 4
1,1,2-Trichloroethane	µg/L	< 0.5	< 0.5	< 0.5	Note 4	< 0.5	Note 4
Trichloroethylene	µg/L	< 0.5	< 0.5	< 0.5	Note 4	< 0.5	Note 4
Trichlorofluoromethane	µg/L	Note 2	Note 2	< 0.4	Note 4	Note 2	Note 4
Vinyl Chloride	µg/L	Note 2	Note 2	< 0.9	Note 4	Note 2	Note 4

SAMPLE RESULTS - SANITARY SEWER SYSTEM

PARAMETER	UNITS	SITE 039 COMPOSITE 1 AUG 90	SITE 039 COMPOSITE 2 AUG 90	SITE 039 COMPOSITE 6 AUG 90	SITE 058 GRAB/0950 6 AUG 90
Aluminum	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Arsenic	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Barium	µg/L	< 100.0	< 100.0	101.0	< 100.0
Beryllium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Bromide	mg/L	---	---	---	---
Cadmium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Calcium	mg/L	27.3	27.1	26.2	22.2
Chemical Oxygen Demand	mg/L	25.0	25.0	10.0	410.0
Chromium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Cobalt	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Copper	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Cyanide	mg/L	---	---	---	---
Hydrocarbons, Total	mg/L	< 1.0	< 1.0	< 1.0	2.1
Iron	µg/L	212.0	225.0	154.0	2,507.0
Magnesium	mg/L	15.2	15.4	14.7	14.4
Manganese	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Mercury	µg/L	< 1.0	< 1.0	< 1.0	< 1.0
Molybdenum	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Nickel	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Nitrogen, Kjeldahl	mg/L	2.2	2.4	1.9	2.5
Oil & Grease	mg/L	< 0.3	< 0.3	< 0.3	6.3
Organic Carbon, Total	mg/L	14.0	7.0	8.0	146.0
pH (Hydrogen Ion)	Units	7.50	7.50	7.23	6.79
Phenol	µg/L	< 10.0	< 10.0	< 10.0	97.0
Phosphorus, Total	mg/L	4.45	5.0	4.15	1.6
Residue, Nonfilterable	mg/L	8.0	9.0	< 1.0	34.0
Silver	µg/L	---	---	---	---
Specific Conductance	µmhos	502	518	472	313
Surfactants (MBAS)	mg/L	0.4	0.1	< 0.1	11.8
Titanium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Vanadium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Zinc	µg/L	146.0	112.0	< 100.0	271.0

PARAMETER	UNITS	SITE U39			SITE U37		
		COMPOSITE	COMPOSITE	COMPOSITE	COMPOSITE	COMPOSITE	GRAB/0950
		1 AUG 90	2 AUG 90	6 AUG 90	6 AUG 90	6 AUG 90	6 AUG 90
Benzene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	µg/L	1.8	< 0.4	< 0.4	1.2	< 0.4	< 0.4
Bromoform	µg/L	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Bromomethane	µg/L	Note 2	< 0.9	< 0.9	19.0	< 0.9	< 0.9
Carbon Tetrachloride	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	µg/L	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Chloroethane	µg/L	Note 2	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
2-Chloroethylvinyl Ether	µg/L	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Chloroform	µg/L	1.7	< 0.3	< 0.3	1.0	< 0.3	0.47
Chloromethane	µg/L	Note 2	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Chlorodibromomethane	µg/L	0.79	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichlorobenzene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	11.0
1,3-Dichlorobenzene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dichlorobenzene	µg/L	< 0.7	5.8	< 0.7	< 0.7	< 0.7	2.4
Dichlorodifluoromethane	µg/L	Note 2	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
1,1-Dichloroethane	µg/L	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,2-Dichloroethane	µg/L	< 0.3	10.0	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	µg/L	Note 2	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
trans-1,2-Dichloroethene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloropropane	µg/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
cis-1,3-Dichloropropene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,3-Dichloropropene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethyl Benzene	µg/L	< 0.3	Note 2	< 0.3	< 0.3	< 0.3	< 0.3
Methylene Chloride	µg/L	< 0.4	33.0	< 0.4	< 0.4	< 0.4	< 0.4
1,1,2,2-Tetrachloroethane	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethylene	µg/L	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Toluene	µg/L	< 0.3	Note 2	< 0.3	< 0.3	< 0.3	< 0.3
1,1,1-Trichloroethane	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethylene	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	µg/L	Note 2	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Vinyl Chloride	µg/L	Note 2	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9

SAMPLE RESULTS - SANITARY SEWER SYSTEM
Sludge Samples

<u>PARAMETER</u>	<u>UNITS</u>	<u>SITE 040 COMPOSITE 8 Aug 90</u>	<u>SITE 041 COMPOSITE 8 Aug 90</u>	<u>SITE 042 COMPOSITE 8 Aug 90</u>
Aluminum	µg/L	< 100.0	16,640.0	123.0
Arsenic	µg/L	< 100.0	< 100.0	< 100.0
Barium	µg/L	< 100.0	< 100.0	1,021.0
Beryllium	µg/L	< 100.0	< 100.0	< 100.0
Cadmium	µg/L	< 100.0	< 100.0	< 100.0
Calcium	mg/L	232.9	310.4	91.9
Chromium	µg/L	< 100.0	< 100.0	< 100.0
Cobalt	µg/L	< 100.0	< 100.0	< 100.0
Copper	µg/L	< 100.0	< 100.0	< 100.0
Iron	µg/L	102.0	1,974.0	4,983.0
Magnesium	mg/L	125.4	92.7	63.7
Manganese	µg/L	238.0	418.0	124.0
Mercury	µg/L	5.9	1.0	< 1.0
Molybdenum	µg/L	< 100.0	< 100.0	< 100.0
Nickel	µg/L	< 100.0	< 100.0	< 100.0
Titanium	µg/L	< 100.0	< 100.0	< 100.0
Vanadium	µg/L	< 100.0	< 100.0	< 100.0
Zinc	µg/L	1,190.0	9,195.0	< 100.0

SAMPLE NOTES

Note 1: Sample lost in transit.

Note 2: Interfering peak precluded accurate analysis.

Note 3: Analysis not performed due to formation of air bubble in sample.

Note 4: Data lost due to computer malfunction.

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APPENDIX K

Sampling Results -
Quality Assurance/Quality Control

SAMPLE RESULTS - QUALITY ASSURANCE/QUALITY CONTROL

<u>PARAMETER</u>	<u>UNITS</u>	<u>BLANK</u> <u>SAMPLE</u> <u>1 AUG 90</u>	<u>BLANK</u> <u>SAMPLE</u> <u>2 AUG 90</u>	<u>BLANK</u> <u>SAMPLE</u> <u>3 AUG 90</u>	<u>BLANK</u> <u>SAMPLE</u> <u>4 AUG 90</u>	<u>BLANK</u> <u>SAMPLE</u> <u>6 AUG 90</u>	<u>BLANK</u> <u>SAMPLE</u> <u>7 AUG 90</u>
Aluminum	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Arsenic	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Barium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Beryllium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Bromide	mg/L	< 0.1	---	---	---	---	---
Cadmium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Calcium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chemical Oxygen Demand	mg/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Chromium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Cobalt	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Copper	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Cyanide	mg/L	---	---	---	< 0.005	---	---
Hydrocarbons, Total	mg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Iron	µg/L	< 100.0	< 100.0	109.0	< 100.0	< 100.0	< 100.0
Magnesium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Manganese	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Mercury	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Molybdenum	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Nickel	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Nitrogen, Kjeldahl	mg/L	0.4	0.4	0.4	0.3	0.6	0.4
Oil & Grease	mg/L	0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Organic Carbon, Total	mg/L	< 1.0	2.0	1.0	< 1.0	1.0	3.0
pH (Hydrogen Ion)	Units	---	---	---	---	---	---
Phenol	µg/L	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Phosphorus, Total	mg/L	< 0.1	0.12	< 0.1	< 0.1	< 0.1	< 0.1
Residue, Nonfilterable	mg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Silver	µg/L	---	---	---	---	---	---
Specific Conductance	µmhos	2	2	2	3	2	2
Surfactants (MBAS)	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Titanium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Vanadium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0
Zinc	µg/L	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0	< 100.0

PARAMETER	UNITS	BLANK SAMPLE 1 AUG 90	BLANK SAMPLE 2 AUG 90	BLANK SAMPLE 3 AUG 90	BLANK SAMPLE 4 AUG 90	BLANK SAMPLE 6 AUG 90	BLANK SAMPLE 7 AUG 90
Benzene	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	Note 4
Bromodichloromethane	µg/L	< 0.4	< 0.4	< 0.4	---	< 0.4	Note 4
Bromoform	µg/L	< 0.7	< 0.7	< 0.7	---	< 0.7	Note 4
Bromomethane	µg/L	< 0.9	< 0.9	< 0.9	---	< 0.9	Note 4
Carbon Tetrachloride	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	Note 4
Chlorobenzene	µg/L	< 0.6	< 0.6	< 0.6	---	< 0.6	Note 4
Chloroethane	µg/L	< 0.9	< 0.9	< 0.9	---	< 0.9	Note 4
2-Chloroethylvinyl Ether	µg/L	< 0.9	< 0.9	< 0.9	---	< 0.9	Note 4
Chloroform	µg/L	< 0.3	< 0.3	0.59	---	< 0.3	Note 4
Chloromethane	µg/L	< 0.8	< 0.8	< 0.8	---	< 0.8	Note 4
Chlorodibromomethane	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	Note 4
1,2-Dichlorobenzene	µg/L	< 1.0	< 1.0	< 1.0	---	< 1.0	Note 4
1,3-Dichlorobenzene	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	Note 4
1,4-Dichlorobenzene	µg/L	< 0.7	< 0.7	< 0.7	---	< 0.7	Note 4
Dichlorodifluoromethane	µg/L	< 0.9	< 0.9	< 0.9	---	< 0.9	Note 4
1,1-Dichloroethane	µg/L	< 0.4	< 0.4	< 0.4	---	< 0.4	Note 4
1,2-Dichloroethane	µg/L	< 0.3	< 0.3	< 0.3	---	< 0.3	Note 4
1,1-Dichloroethene	µg/L	< 0.3	< 0.3	< 0.3	---	< 0.3	Note 4
trans-1,2-Dichloroethene	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	Note 4
1,2-Dichloropropane	µg/L	< 0.3	< 0.3	< 0.3	---	< 0.3	Note 4
cis-1,3-Dichloropropene	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	Note 4
trans-1,3-Dichloropropene	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	Note 4
Ethyl Benzene	µg/L	< 0.3	< 0.3	< 0.3	---	< 0.3	Note 4
Methylene Chloride	µg/L	< 0.4	< 0.4	< 0.4	---	< 0.4	Note 4
1,1,2,2-Tetrachloroethane	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	Note 4
Tetrachloroethylene	µg/L	< 0.6	< 0.6	< 0.6	---	< 0.6	Note 4
Toluene	µg/L	< 0.3	< 0.3	< 0.3	---	< 0.3	Note 4
1,1,1-Trichloroethane	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	Note 4
1,1,2-Trichloroethane	µg/L	< 0.5	< 0.5	< 0.5	---	< 0.5	Note 4
Trichloroethylene	µg/L	< 0.5	1.3	< 0.5	---	< 0.5	Note 4
Trichlorofluoromethane	µg/L	< 0.4	< 0.4	< 0.4	---	< 0.4	Note 4
Vinyl Chloride	µg/L	< 0.9	< 0.9	< 0.9	---	< 0.9	Note 4

SAMPLE RESULTS - QUALITY ASSURANCE/QUALITY CONTROL

<u>PARAMETER</u>	<u>UNITS</u>	<u>BLANK SAMPLE 8 AUG 90</u>	<u>SITE 045 CONTROL 4 AUG 90</u>	<u>SITE 045 CONTROL 7 AUG 90</u>	<u>CONTROL SAMPLE (RINSE WATER) 2 AUG 90</u>
Aluminum	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Arsenic	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Barium	µg/L	< 100.0	< 100.0	101.0	< 100.0
Beryllium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Bromide	mg/L	---	---	---	---
Cadmium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Calcium	mg/L	1.2	23.0	22.1	0.1
Chemical Oxygen Demand	mg/L	< 10.0	< 10.0	< 10.0	< 10.0
Chromium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Cobalt	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Copper	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Cyanide	mg/L	---	< 0.005	---	---
Hydrocarbons, Total	mg/L	< 1.0	< 1.0	< 1.0	< 1.0
Iron	µg/L	< 100.0	< 100.0	100.0	< 100.0
Magnesium	mg/L	0.9	14.5	14.2	< 0.1
Manganese	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Mercury	µg/L	< 1.0	< 1.0	< 1.0	< 1.0
Molybdenum	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Nickel	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Nitrogen, Kjeldahl	mg/L	0.5	0.5	0.4	0.5
Oil & Grease	mg/L	< 0.3	< 0.3	< 0.3	0.5
Organic Carbon, Total	mg/L	< 1.0	< 1.0	1.0	< 1.0
pH (Hydrogen Ion)	Units	---	---	---	---
Phenol	µg/L	< 10.0	< 10.0	< 10.0	10.0
Phosphorus, Total	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Residue, Nonfilterable	mg/L	< 1.0	< 1.0	< 1.0	2.0
Silver	µg/L	---	---	---	---
Specific Conductance	µmhos	34	253	244	3
Surfactants (MBAS)	mg/L	< 0.1	0.1	< 0.1	< 0.1
Titanium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Vanadium	µg/L	< 100.0	< 100.0	< 100.0	< 100.0
Zinc	µg/L	< 100.0	342.0	391.0	< 100.0

<u>PARAMETER</u>	<u>UNITS</u>	<u>BLANK SAMPLE 8 AUG 90</u>	<u>SITE 045 CONTROL 4 AUG 90</u>	<u>SITE 045 CONTROL 7 AUG 90</u>	<u>CONTROL SAMPLE (RINSE WATER) 2 AUG 90</u>
Benzene	µg/L	< 0.5	---	Note 4	---
Bromodichloromethane	µg/L	2.2	---	Note 4	---
Bromoform	µg/L	< 0.7	---	Note 4	---
Bromomethane	µg/L	< 0.9	---	Note 4	---
Carbon Tetrachloride	µg/L	< 0.5	---	Note 4	---
Chlorobenzene	µg/L	< 0.6	---	Note 4	---
Chloroethane	µg/L	< 0.9	---	Note 4	---
2-Chloroethylvinyl Ether	µg/L	< 0.9	---	Note 4	---
Chloroform	µg/L	2.3	---	Note 4	---
Chloromethane	µg/L	< 0.8	---	Note 4	---
Chlorodibromomethane	µg/L	2.3	---	Note 4	---
1,2-Dichlorobenzene	µg/L	< 1.0	---	Note 4	---
1,3-Dichlorobenzene	µg/L	< 0.5	---	Note 4	---
1,4-Dichlorobenzene	µg/L	< 0.7	---	Note 4	---
Dichlorodifluoromethane	µg/L	< 0.9	---	Note 4	---
1,1-Dichloroethane	µg/L	< 0.4	---	Note 4	---
1,2-Dichloroethane	µg/L	< 0.3	---	Note 4	---
1,1-Dichloroethene	µg/L	< 0.3	---	Note 4	---
trans-1,2-Dichloroethene	µg/L	< 0.5	---	Note 4	---
1,2-Dichloropropane	µg/L	< 0.3	---	Note 4	---
cis-1,3-Dichloropropene	µg/L	< 0.5	---	Note 4	---
trans-1,3-Dichloropropene	µg/L	< 0.5	---	Note 4	---
Ethyl Benzene	µg/L	< 0.3	---	Note 4	---
Methylene Chloride	µg/L	< 0.4	---	Note 4	---
1,1,2,2-Tetrachloroethane	µg/L	< 0.5	---	Note 4	---
Tetrachloroethylene	µg/L	< 0.6	---	Note 4	---
Toluene	µg/L	< 0.3	---	Note 4	---
1,1,1-Trichloroethane	µg/L	< 0.5	---	Note 4	---
1,1,2-Trichloroethane	µg/L	< 0.5	---	Note 4	---
Trichloroethylene	µg/L	< 0.5	---	Note 4	---
Trichlorofluoromethane	µg/L	< 0.4	---	Note 4	---
Vinyl Chloride	µg/L	< 0.4	---	Note 4	---

SAMPLE NOTES

Note 1: Sample lost in transit.

Note 2: Interfering peak precluded accurate analysis.

Note 3: Analysis not performed due to formation of air bubble in sample.

Note 4: Data lost due to computer malfunction.

APPENDIX L
Wastewater Characterization

**Wastewater Characterization
Storm Drainage System
Outfall to Tom's Bayou (Site 001A)**

SITE DESCRIPTION: Storm Drain 059 (Pipe), outfall into Tom's Bayou, located off Perimeter Road (Taxiway) between Bldg 947 (Ground Radio Transmitter Site) and Bldg 963 (Photo Optics Maintenance Facility).

TYPE SAMPLE: Grab

NUMBER OF SAMPLES: 1

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
pH (Hydrogen Ion)	Units	7.45	---	7.45
Specific Conductance	µmhos	506	---	506
Temperature	°C	26.0	---	26.0
Total Suspended Solids	mg/L	5,276.0	---	5,276.0
INORGANICS				
Bromide	mg/L	3.0	---	3.0
Nitrogen, Kjeldahl	mg/L	13.0	---	13.0
Phosphorus, Total	mg/L	2.45	---	2.4
METALS				
Calcium	mg/L	23.1	---	23.1
Iron	µg/L	818.0	---	818.0
Magnesium	mg/L	12.8	---	12.8
ORGANICS				
Chemical Oxygen Demand	mg/L	55.0	---	55.0
Organic Carbon, Total	mg/L	9.0	---	9.0
Phenol	µg/L	10.0	---	10.0
Surfactants (MBAS)	mg/L	0.2	---	0.2
VOLATILES				
None Detected	µg/L	---	---	---

**Wastewater Characterization
Storm Drainage System
Outfall to Tom's Bayou (Site 001B)**

SITE DESCRIPTION: Storm Drain 059 (Catchbasin), outfall into Tom's Bayou, located off Perimeter Road (Taxiway) between Bldg 947 (Ground Radio Transmitter Site) and Bldg 963 (Photo Optics Maintenance Facility).

TYPE SAMPLE: Grab

NUMBER OF SAMPLES: 4

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
Dissolved Oxygen	mg/L	8.2	---	8.2
pH (Hydrogen Ion)	Units	7.36	7.88	7.68
Specific Conductance	μmhos	393	674	561
Temperature	°C	28.0	30.5	29.5
Total Suspended Solids	mg/L	< 1.0	3,396.0	850.5
INORGANICS				
Bromide	mg/L	3.2	4.5	3.8
Cyanide	mg/L	0.45	29.0	14.7
Nitrogen, Kjeldahl	mg/L	6.6	19.0	14.0
Phosphorus, Total	mg/L	1.12	3.25	2.2
METALS				
Calcium	mg/L	28.9	31.4	29.9
Iron	μg/L	604.0	13,080.0	4,126.0
Magnesium	mg/L	13.1	18.5	16.6
Zinc	μg/L	< 100.0	150.0	90.0
ORGANICS				
Chemical Oxygen Demand	mg/L	45.0	90.0	64.0
Oil & Grease	mg/L	< 0.3	0.5	0.2
Organic Carbon, Total	mg/L	11.0	20.0	15.0
Phenol	μg/L	< 10.0	12.0	8.0
Surfactants (MBAS)	mg/L	0.2	0.3	0.2
VOLATILES				
1,1-Dichloroethane	μg/L	3.2	---	3.2
trans-1,2-Dichloroethene	μg/L	1.9	---	1.9

**Wastewater Characterization
Storm Drainage System
Outfall from Jack's Lake (Site 002)**

SITE DESCRIPTION: Storm drain outfall from Jack's Lake.

TYPE SAMPLE: Grab

NUMBER OF SAMPLES: 1

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
pH (Hydrogen Ion)	Units	---	---	---
Specific Conductance	μ mhos	1,256	---	1,256
Temperature	$^{\circ}$ C	---	---	---
Total Suspended Solids	mg/L	6.0	---	6.0
INORGANICS				
Nitrogen, Kjeldahl	mg/L	1.2	---	1.2
METALS				
Calcium	mg/L	17.9	---	17.9
Iron	μ g/L	2,993.0	---	2,993.0
Magnesium	mg/L	24.9	---	24.9
Mercury	μ g/L	4.0	---	4.0
ORGANICS				
Chemical Oxygen Demand	mg/L	35.0	---	35.0
Organic Carbon, Total	mg/L	8.0	---	8.0
Phenol	μ g/L	50.0	---	50.0
VOLATILES				
1,2-Dichloropropane	μ g/L	0.7	---	0.7

**Wastewater Characterization
Storm Drainage System
Outfall from Beaver Pond (Site 003)**

SITE DESCRIPTION: Storm drain outfall from Beaver Pond.

TYPE SAMPLE: Grab

NUMBER OF SAMPLES: 3

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
Dissolved Oxygen	mg/L	8.3	---	8.3
pH (Hydrogen Ion)	Units	7.15	7.40	7.25
Specific Conductance	μmhos	36	40	38
Temperature	°C	30.0	33.0	31.7
Total Suspended Solids	mg/L	< 1.0	1.0	0.7
INORGANICS				
Nitrogen, Kjeldahl	mg/L	0.5	0.6	0.5
METALS				
Calcium	mg/L	3.7	3.8	3.8
Iron	μg/L	245.0	275.0	265.0
Magnesium	mg/L	0.7	0.8	0.8
ORGANICS				
Oil & Grease	mg/L	< 0.3	0.5	0.3
Organic Carbon, Total	mg/L	3.0	9.0	5.3
VOLATILES				
1,2-Dichloroethane	μg/L	< 0.3	67.0	33.6
1,1-Dichloroethene	μg/L	< 0.3	0.77	0.5
trans-1,3-Dichloropropene	μg/L	< 0.5	2.1	1.2

**Wastewater Characterization
Storm Drainage System
Outfall from Lower Memorial Lake (Site 004)**

SITE DESCRIPTION: Overflow Pipe from Lower Memorial Lake.
Outfall flows into Choctawhatchee Bay.

TYPE SAMPLE: Grab

NUMBER OF SAMPLES: 3

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
Dissolved Oxygen	mg/L	8.3	---	8.3
pH (Hydrogen Ion)	Units	6.82	6.99	6.92
Specific Conductance	μmhos	66	68	67
Temperature	°C	29.2	31.8	30.7
Total Suspended Solids	mg/L	< 1.0	3.0	1.5
INORGANICS				
Nitrogen, Kjeldahl	mg/L	0.8	1.1	1.0
Phosphorus	mg/L	< 0.1	0.11	0.1
METALS				
Calcium	mg/L	6.4	7.4	6.9
Copper	μg/L	< 100.0	137.0	79.0
Iron	μg/L	541.0	627.0	590.0
Magnesium	mg/L	1.4	1.6	1.5
ORGANICS				
Chemical Oxygen Demand	mg/L	25.0	50.0	33.0
Oil & Grease	mg/L	< 0.3	0.5	0.3
Organic Carbon, Total	mg/L	1.0	7.0	4.3
VOLATILES				
Dichlorodifluoromethane	μg/L	< 0.9	1.8	1.2
1,1-Dichloroethene	μg/L	< 0.3	0.67	0.3
cis-1,3-Dichloropropene	μg/L	< 0.5	2.2	0.9
trans-1,3-Dichloropropene	μg/L	< 0.5	1.8	0.8

Wastewater Characterization
Storm Drainage System
Outfall to Weekly Bayou (Site 005)

SITE DESCRIPTION: Storm Drain 261, outfall into Weekly Bayou, located in wooded area near Fuel Storage Tanks and Bldg 721.

TYPE SAMPLE: Grab

NUMBER OF SAMPLES: 3

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
Dissolved Oxygen	mg/L	8.3	---	8.3
pH (Hydrogen Ion)	Units	6.58	6.92	6.80
Specific Conductance	µmhos	164	166	165
Temperature	°C	27.5	27.7	27.6
Total Suspended Solids	mg/L	7.0	108.0	66.0
INORGANICS				
Nitrogen, Kjeldahl	mg/L	0.4	0.6	0.5
METALS				
Aluminum	µg/L	135.0	155.0	143.0
Calcium	mg/L	18.2	19.1	18.7
Iron	µg/L	< 100.0	101.0	67.0
Magnesium	mg/L	4.8	5.3	5.1
ORGANICS				
Oil & Grease	mg/L	< 0.3	0.5	0.3
Organic Carbon, Total	mg/L	1.0	2.0	1.7
VOLATILES				
Chlorodibromomethane	µg/L	< 0.5	2.9	1.1
1,1-Dichloroethane	µg/L	< 0.4	1.5	0.6
1,1-Dichloroethene	µg/L	< 0.3	27.0	9.1
trans-1,3-Dichloropropene	µg/L	< 0.5	1.2	0.6

**Wastewater Characterization
Storm Drainage System
Storm Drain Near Old STP (Site 006)**

SITE DESCRIPTION: Storm drain near old Sewage Treatment Plant,
off Range Road, near Bldg 574.

TYPE SAMPLE: Grab

NUMBER OF SAMPLES: 2

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
pH (Hydrogen Ion)	Units	6.64	7.29	7.07
Specific Conductance	μmhos	119	224	165
Temperature	°C	24.9	32.0	27.6
Total Suspended Solids	mg/L	6.0	20.0	10.7
INORGANICS				
Nitrogen, Kjeldahl	mg/L	1.2	5.6	3.4
Phosphorus, Total	mg/L	0.2	3.7	2.0
METALS				
Aluminum	μg/L	< 100.0	1,801.0	926.0
Barium	μg/L	< 100.0	252.0	151.0
Calcium	mg/L	32.0	37.8	34.9
Copper	μg/L	< 100.0	121.0	86.0
Iron	μg/L	22,230.0	152,830.0	87,530.0
Magnesium	mg/L	5.6	5.7	5.6
Manganese	μg/L	302.0	16,250.0	8,276.0
Zinc	μg/L	255.0	404.0	330.0
ORGANICS				
Chemical Oxygen Demand	mg/L	65.0	130.0	98.0
Oil & Grease	mg/L	0.3	0.5	0.4
Organic Carbon, Total	mg/L	10.0	46.0	28.0
Surfactants (MBAS)	mg/L	< 0.1	0.1	0.1
VOLATILES				
1,2-Dichloroethane	μg/L	3.0	---	3.0

**Wastewater Characterization
Storm Drainage System
Storm Drain 533 (Site 007)**

SITE DESCRIPTION: Storm Drain 533 between Second Street and Eglin Boulevard near Bldg 455.

TYPE SAMPLE: Grab

NUMBER OF SAMPLES: 2

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
pH (Hydrogen Ion)	Units	6.84	6.85	6.84
Specific Conductance	μmhos	231	264	248
Temperature	°C	30.9	32.0	31.4
Total Suspended Solids	mg/L	< 1.0	10.0	5.2
INORGANICS				
Nitrogen, Kjeldahl	mg/L	1.6	1.7	1.6
METALS				
Aluminum	μg/L	234.0	448.0	341.0
Calcium	mg/L	37.4	47.8	42.6
Iron	μg/L	474.0	960.0	717.0
Magnesium	mg/L	3.4	3.9	3.6
Manganese	μg/L	< 100.0	142.0	96.0
Zinc	μg/L	224.0	448.0	336.0
ORGANICS				
Chemical Oxygen Demand	mg/L	120.0	225.0	172.0
Oil & Grease	mg/L	< 0.3	0.3	0.2
Organic Carbon, Total	mg/L	52.0	86.0	69.0
Phenols	μg/L	10.0	19.0	14.5
Surfactants (MBAS)	mg/L	0.9	2.0	1.4
VOLATILES				
Data Not Available	μg/L	---	---	---

Wastewater Characterization
Storm Drainage System
Outfall from Trout Lake (Site 008)

SITE DESCRIPTION: Storm drain outfall from Trout Lake.

TYPE SAMPLE: Grab

NUMBER OF SAMPLES: 1

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
pH (Hydrogen Ion)	Units	---	---	---
Specific Conductance	μ mhos	70	---	70
Temperature	$^{\circ}$ C	---	---	---
INORGANICS				
Nitrogen, Kjeldahl	mg/L	0.7	---	0.7
METALS				
Barium	μ g/L	101.0	---	101.0
Calcium	mg/L	5.7	---	5.7
Iron	μ g/L	385.0	---	385.0
Magnesium	mg/L	2.1	---	2.1
ORGANICS				
Chemical Oxygen Demand	mg/L	40.0	---	40.0
Organic Carbon, Total	mg/L	5.0	---	5.0
VOLATILES				
None Detected	μ g/L	---	---	---
PESTICIDES				
None Detected	μ g/L	---	---	---

**Wastewater Characterization
Sanitary Sewer System
Manhole 16 (Site 023)**

SITE DESCRIPTION: Sanitary Sewer System Manhole 16, on Eglin Boulevard between Seventh and Eighth Streets near Bldg 17 and Bldg 20.

TYPE SAMPLE: Composite

NUMBER OF SAMPLES: 2

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
Dissolved Oxygen	mg/L	7.8	7.9	7.8
pH (Hydrogen Ion)	Units	8.91	8.95	8.93
Specific Conductance	μ mhos	709	4,300	2,504
Temperature	$^{\circ}$ C	29.0	---	29.0
Total Suspended Solids	mg/L	40.5	396.0	218.0
INORGANICS				
Nitrogen, Kjeldahl	mg/L	22.0	34.0	28.0
Phosphorus, Total	mg/L	4.1	4.5	4.3
METALS				
Aluminum	μ g/L	< 100.0	164.0	107.0
Calcium	mg/L	22.5	193.5	108.0
Iron	μ g/L	283.0	300.0	292.0
Magnesium	mg/L	14.1	16.2	15.2
Zinc	μ g/L	272.0	277.0	274.5
ORGANICS				
Chemical Oxygen Demand	mg/L	220.0	290.0	255.0
Hydrocarbons, Total	mg/L	7.2	126.0	66.6
Oil & Grease	mg/L	23.8	158.0	95.9
Organic Carbon, Total	mg/L	52.0	60.0	56.0
Phenol	μ g/L	26.0	120.0	73.0
VOLATILES				
Bromodichloromethane	μ g/L	< 0.4	0.96	0.6
Chlorobenzene	μ g/L	< 0.6	25.0	12.6
1,3-Dichlorobenzene	μ g/L	< 0.5	20.0	10.1
1,4-Dichlorobenzene	μ g/L	2.2	8.7	5.4
Dichlorodifluoromethane	μ g/L	---	32.0	32.0
1,2-Dichloroethane	μ g/L	1.5	4.4	3.0
1,1-Dichloroethene	μ g/L	---	1.1	1.1
trans-1,2-Dichloroethene	μ g/L	< 0.5	1.1	0.7
Ethyl Benzene	μ g/L	11.0	18.0	14.5
Tetrachloroethylene	μ g/L	< 0.6	7.8	4.0
Toluene	μ g/L	---	3.7	3.7
Trichloroethylene	μ g/L	12.0	38.0	25.0

**Wastewater Characterization
Sanitary Sewer System
Manhole 24 (Site 024)**

SITE DESCRIPTION: Sanitary Sewer System Manhole 24, near Bldg 39 at the corner of Daytona Road and Eighth Street.

TYPE SAMPLE: Composite

NUMBER OF SAMPLES: 2

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
Dissolved Oxygen	mg/L	7.9	7.9	7.9
pH (Hydrogen Ion)	Units	10.18	11.14	10.66
Specific Conductance	μmhos	1,109	1,704	1,406
Temperature	°C	32.0	33.1	32.5
Total Suspended Solids	mg/L	26.0	110.0	68.0
INORGANICS				
Nitrogen, Kjeldahl	mg/L	9.4	13.5	11.4
Phosphorus, Total	mg/L	2.75	3.8	3.3
METALS				
Aluminum	μg/L	126.0	136.0	131.0
Barium	μg/L	< 100.0	213.0	131.5
Calcium	mg/L	15.2	19.0	17.1
Iron	μg/L	171.0	226.0	198.5
Magnesium	mg/L	8.7	13.8	22.5
Zinc	μg/L	< 100.0	139.0	94.5
ORGANICS				
Chemical Oxygen Demand	mg/L	260.0	470.0	365.0
Hydrocarbons, Total	mg/L	---	59.6	59.6
Oil & Grease	mg/L	---	107.2	107.2
Organic Carbon, Total	mg/L	68.0	79.0	73.5
Phenol	μg/L	28.0	28.0	28.0
VOLATILES				
1,2-Dichloroethane	μg/L	---	2.1	2.1
Ethyl Benzene	μg/L	---	47.0	47.0
Toluene	μg/L	---	1.3	1.3
Trichloroethylene	μg/L	---	1.4	1.4

**Wastewater Characterization
Sanitary Sewer System
Manhole 29 (Site 025)**

SITE DESCRIPTION: Sanitary Sewer System Manhole 29, in A-19 Area on Escambia Road near Bldg 886.

TYPE SAMPLE: Composite

NUMBER OF SAMPLES: 2

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
Dissolved Oxygen	mg/L	7.9	7.9	7.9
pH (Hydrogen Ion)	Units	7.48	7.63	7.56
Specific Conductance	µmhos	482	517	500
Temperature	°C	31.9	36.0	34.0
Total Suspended Solids	mg/L	22.0	72.0	47.0
INORGANICS				
Nitrogen, Kjeldahl	mg/L	28.0	29.5	28.8
Phosphorus, Total	mg/L	5.2	8.0	6.6
METALS				
Aluminum	µg/L	232.0	1,078.0	655.0
Calcium	mg/L	26.2	29.0	27.6
Chromium	µg/L	< 100.0	179.0	114.5
Iron	µg/L	581.0	1,019.0	800.0
Magnesium	mg/L	11.6	14.6	13.1
Zinc	µg/L	274.0	414.0	344.0
ORGANICS				
Chemical Oxygen Demand	mg/L	230.0	255.0	242.0
Hydrocarbons, Total	mg/L	---	2.2	2.2
Oil & Grease	mg/L	---	13.8	13.8
Organic Carbon, Total	mg/L	40.0	64.0	52.0
Phenol	µg/L	10.0	32.0	21.0
VOLATILES				
Bromodichloromethane	µg/L	< 0.4	2.1	1.5
1,4-Dichlorobenzene	µg/L	3.3	12.0	7.6
trans-1,2-Dichloroethene	µg/L	< 0.5	0.76	0.5

**Wastewater Characterization
Sanitary Sewer System
Manhole 188-A (Site 026)**

SITE DESCRIPTION: Sanitary Sewer System Manhole 188 (A), near old Sewage Treatment Plant on Range Road.

TYPE SAMPLE: Composite

NUMBER OF SAMPLES: 1

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
pH (Hydrogen Ion)	Units	8.23	---	8.23
Specific Conductance	μ mhos	673	---	673
Temperature	$^{\circ}$ C	31.0	---	31.0
Total Suspended Solids	mg/L	14.0	---	14.0
INORGANICS				
Nitrogen, Kjeldahl	mg/L	25.0	---	25.0
Phosphorus, Total	mg/L	7.4	---	7.4
METALS				
Aluminum	μ g/L	210.0	---	210.0
Calcium	mg/L	27.1	---	27.1
Iron	μ g/L	1,001.0	---	1,001.0
Magnesium	mg/L	15.4	---	15.4
ORGANICS				
Chemical Oxygen Demand	mg/L	345.0	---	345.0
Hydrocarbons	mg/L	9.9	---	9.9
Oil & Grease	mg/L	48.8	---	48.8
Organic Carbon, Total	mg/L	57.0	---	57.0
Phenol	μ g/L	32.0	---	32.0
Surfactants (MBAS)	mg/L	0.2	---	0.2
VOLATILES				
Chloroform	μ g/L	1.6	---	1.6
1,4-Dichlorobenzene	μ g/L	3.3	---	3.3
Dichlorodifluoromethane	μ g/L	0.7	---	0.7
Methylene Chloride	μ g/L	2.0	---	2.0
Tetrachloroethylene	μ g/L	3.4	---	3.4
Toluene	μ g/L	1.5	---	1.5

**Wastewater Characterization
Sanitary Sewer System
Manhole 188-B (Site 027)**

SITE DESCRIPTION: Sanitary Sewer System Manhole 188 (B), adjacent to Manhole 188 near old Sewage Treatment Plant on Range Road.

TYPE SAMPLE: Composite

NUMBER OF SAMPLES: 1

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
pH (Hydrogen Ion)	Units	6.02	---	6.02
Specific Conductance	μmhos	638	---	638
Temperature	$^{\circ}\text{C}$	31.0	---	31.0
Total Suspended Solids	mg/L	20.0	---	20.0
INORGANICS				
Nitrogen, Kjeldahl	mg/L	27.0	---	27.0
Phosphorus, Total	mg/L	5.3	---	5.3
METALS				
Calcium	mg/L	32.1	---	32.1
Iron	$\mu\text{g/L}$	5,562.0	---	5,562.0
Magnesium	mg/L	16.0	---	16.0
ORGANICS				
Chemical Oxygen Demand	mg/L	285.0	---	285.0
Hydrocarbons	mg/L	13.8	---	13.8
Oil & Grease	mg/L	92.0	---	92.0
Organic Carbon, Total	mg/L	84.0	---	84.0
Phenol	$\mu\text{g/L}$	28.0	---	28.0
Surfactants (MBAS)	mg/L	0.1	---	0.1
VOLATILES				
Chlorobenzene	$\mu\text{g/L}$	2.0	---	2.0
1,4-Dichlorobenzene	$\mu\text{g/L}$	1.8	---	1.8
Dichlorodifluoromethane	$\mu\text{g/L}$	1.0	---	1.0
Methylene Chloride	$\mu\text{g/L}$	6.4	---	6.4
Tetrachloroethylene	$\mu\text{g/L}$	0.62	---	0.6

**Wastewater Characterization
Sanitary Sewer System
Manhole 195 (Site 028)**

SITE DESCRIPTION: Sanitary Sewer System Manhole 195, near Bldg 562 at Transportation Road and Seventh Street.

TYPE SAMPLE: Composite

NUMBER OF SAMPLES: 2

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
pH (Hydrogen Ion)	Units	7.34	7.49	7.42
Specific Conductance	μ mhos	588	963	776
Temperature	$^{\circ}$ C	28.0	33.0	30.5
Total Suspended Solids	mg/L	37.0	130.0	83.5
INORGANICS				
Nitrogen, Kjeldahl	mg/L	29.0	50.0	39.5
Phosphorus, Total	mg/L	3.25	15.8	9.5
METALS				
Aluminum	μ g/L	< 100.0	724.0	387.0
Barium	μ g/L	< 100.0	101.0	76.0
Calcium	mg/L	28.3	35.9	32.1
Iron	μ g/L	979.0	11,180.0	6,080.0
Magnesium	mg/L	14.3	15.3	14.8
Mercury	μ g/L	< 1.0	1.0	0.8
ORGANICS				
Chemical Oxygen Demand	mg/L	225.0	235.0	230.0
Hydrocarbons	mg/L	3.3	6.3	4.8
Oil & Grease	mg/L	22.1	28.8	25.4
Organic Carbon, Total	mg/L	36.0	73.0	54.5
Phenol	μ g/L	< 10.0	70.0	38.0
Surfactants (MBAS)	mg/L	0.2	0.2	0.2
VOLATILES				
Chloroform	μ g/L	0.37	0.45	0.4
1,4-Dichlorobenzene	μ g/L	2.0	4.3	3.2
Dichlorodifluoromethane	μ g/L	< 0.9	0.96	0.7
Methylene Chloride	μ g/L	7.9	12.0	10.0

**Wastewater Characterization
Sanitary Sewer System
Manhole 201 (Site 029)**

SITE DESCRIPTION: Sanitary Sewer System Manhole 201, near Bldg 17 (Dormitory) on Eglin Boulevard between Seventh and Eighth Streets.

TYPE SAMPLE: Composite

NUMBER OF SAMPLES: 2

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
pH (Hydrogen Ion)	Units	7.88	8.27	8.08
Specific Conductance	μ mhos	550	706	628
Temperature	$^{\circ}$ C	25.3	31.0	28.2
Total Suspended Solids	mg/L	30.0	118.0	74.0
INORGANICS				
Nitrogen, Kjeldahl	mg/L	29.5	32.0	30.8
Phosphorus, Total	mg/L	4.4	4.5	4.4
METALS				
Aluminum	μ g/L	105.0	228.0	166.0
Calcium	mg/L	27.8	29.0	28.4
Iron	μ g/L	979.0	11,180.0	6,080.0
Magnesium	mg/L	14.6	17.9	16.2
Zinc	μ g/L	130.0	197.0	164.0
ORGANICS				
Chemical Oxygen Demand	mg/L	150.0	170.0	160.0
Hydrocarbons	mg/L	1.0	8.5	4.8
Oil & Grease	mg/L	10.7	35.2	23.0
Organic Carbon, Total	mg/L	41.0	50.0	45.5
Phenol	μ g/L	10.0	54.0	32.0
Surfactants (MBAS)	mg/L	0.6	2.2	1.4
VOLATILES				
Chloroform	μ g/L	< 0.3	0.37	0.3
trans-1,2-Dichloroethene	μ g/L	< 0.5	0.76	0.5
1,2-Dichloropropane	μ g/L	< 0.3	0.65	0.4

**Wastewater Characterization
Sanitary Sewer System
Manhole 215 (Site 030)**

SITE DESCRIPTION: Sanitary Sewer System Manhole 215, in aircraft maintenance area near Bldg 71 on Choctawhatchee Avenue.

TYPE SAMPLE: Composite

NUMBER OF SAMPLES: 2

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
Dissolved Oxygen	mg/L	7.8	7.8	7.8
pH (Hydrogen Ion)	Units	7.44	8.43	7.94
Specific Conductance	µmhos	485	595	540
Temperature	°C	30.0	31.9	31.0
Total Suspended Solids	mg/L	6.0	18.0	12.0
INORGANICS				
Bromide	mg/L	1.9	---	1.9
Nitrogen, Kjeldahl	mg/L	20.5	25.0	22.8
Phosphorus, Total	mg/L	2.6	3.2	2.9
METALS				
Aluminum	µg/L	< 100.0	183.0	116.5
Calcium	mg/L	23.8	25.2	24.5
Iron	µg/L	1,681.0	1,691.0	1,686.0
Magnesium	mg/L	15.8	15.9	15.8
Silver	µg/L	10.0	---	10.0
Zinc	µg/L	< 100.0	245.0	147.5
ORGANICS				
Chemical Oxygen Demand	mg/L	100.0	200.0	150.0
Hydrocarbons, Total	mg/L	< 1.0	2.9	1.7
Oil & Grease	mg/L	1.1	11.4	6.2
Organic Carbon, Total	mg/L	34.0	42.0	38.0
Phenol	µg/L	12.0	12.0	12.0
Surfactants (MBAS)	mg/L	0.1	8.0	4.0
VOLATILES				
Chlorobenzene	µg/L	< 0.6	0.89	0.6
Chloroform	µg/L	< 0.3	2.8	1.5
1,2-Dichlorobenzene	µg/L	< 1.0	1.7	1.1
1,3-Dichlorobenzene	µg/L	< 0.5	5.8	3.0
1,4-Dichlorobenzene	µg/L	< 0.7	4.2	2.3
Dichlorodifluoromethane	µg/L	< 0.9	5.4	2.9
1,1-Dichloroethane	µg/L	< 0.4	1.1	0.6
1,2-Dichloroethane	µg/L	0.83	19.0	9.9
1,2-Dichloropropane	µg/L	< 0.3	1.5	0.8
Methylene Chloride	µg/L	< 0.4	4.5	2.4
Tetrachloroethylene	µg/L	< 0.6	0.5	0.3
Toluene	µg/L	< 0.3	2.3	1.2
1,1,2-Trichloroethane	µg/L	< 0.5	0.92	0.6
Trichloroethylene	µg/L	< 0.5	1.4	0.8

**Wastewater Characterization
Sanitary Sewer System
Manhole 215 (Site 030)**

SITE DESCRIPTION: Sanitary Sewer System Manhole 215, in aircraft maintenance area near Bldg 71 on Choctawhatchee Avenue.

TYPE SAMPLE: Grab

NUMBER OF SAMPLES: 1

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
pH (Hydrogen Ion)	Units	7.90	8.43	8.16
Specific Conductance	μmhos	515	---	515
Temperature	°C	29.3	---	29.3
Total Suspended Solids	mg/L	3.0	---	3.0
INORGANICS				
Bromide	mg/L	4.7	---	4.7
Nitrogen, Kjeldahl	mg/L	18.0	19.5	18.8
Phosphorus, Total	mg/L	3.15	6.1	4.6
METALS				
Calcium	mg/L	22.3	---	22.3
Iron	μg/L	1,741.0	---	1,741.0
Magnesium	mg/L	14.6	---	14.6
ORGANICS				
Chemical Oxygen Demand	mg/L	135.0	180.0	158.0
Hydrocarbons, Total	mg/L	2.3	---	2.3
Oil & Grease	mg/L	7.2	---	7.2
Organic Carbon, Total	mg/L	27.0	38.0	32.5
Phenol	μg/L	14.0	---	14.0
Surfactants (MBAS)	mg/L	0.4	---	0.4
VOLATILES				
Chloroform	μg/L	0.74	---	0.7
1,2-Dichlorobenzene	μg/L	3.7	---	3.7
1,4-Dichlorobenzene	μg/L	3.1	---	3.1
Methylene Chloride	μg/L	3.8	---	3.8
1,1,1-Trichloroethane	μg/L	0.43	---	0.4

**Wastewater Characterization
Sanitary Sewer System
Manhole 251 (Site 031)**

SITE DESCRIPTION: Sanitary Sewer System Manhole 251, near parking lot at Bldg 300 off Eglin Boulevard between Fifth and Sixth Streets.

TYPE SAMPLE: Composite

NUMBER OF SAMPLES: 2

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
Dissolved Oxygen	mg/L	7.8	7.9	7.8
pH (Hydrogen Ion)	Units	7.74	8.33	8.04
Specific Conductance	µmhos	591	708	650
Temperature	°C	28.6	32.9	30.8
Total Suspended Solids	mg/L	60.0	174.0	117.0
INORGANICS				
Nitrogen, Kjeldahl	mg/L	26.5	44.0	33.2
Phosphorus, Total	mg/L	2.6	12.0	7.3
METALS				
Aluminum	µg/L	140.0	---	140.0
Calcium	mg/L	25.2	---	25.2
Iron	µg/L	742.0	---	742.0
Magnesium	mg/L	12.9	---	12.9
Zinc	µg/L	170.0	---	170.0
ORGANICS				
Chemical Oxygen Demand	mg/L	110.0	350.0	230.0
Hydrocarbons, Total	mg/L	< 1.0	13.1	6.8
Oil & Grease	mg/L	9.6	35.2	22.4
Organic Carbon, Total	mg/L	29.0	63.0	46.0
Phenol	µg/L	< 10.0	215.0	110.0
Surfactants (MBAS)	mg/L	0.4	0.5	0.4
VOLATILES				
Chlorobenzene	µg/L	< 0.6	0.65	0.5
1,4-Dichlorobenzene	µg/L	3.4	3.5	3.4
Dichlorodifluoromethane	µg/L	1.4	---	1.4
1,1-Dichloroethane	µg/L	< 0.4	1.0	0.6
1,2-Dichloroethane	µg/L	< 0.3	0.38	0.3
1,1-Dichloroethene	µg/L	0.51	---	0.5
trans-1,2-Dichloroethene	µg/L	< 0.5	0.53	0.4
Trichloroethylene	µg/L	< 0.5	4.1	2.2
Trichlorofluoromethane	µg/L	3.6	---	3.6

**Wastewater Characterization
Sanitary Sewer System
Manhole 391 (Site 032)**

SITE DESCRIPTION: Sanitary Sewer System Manhole 391, in TAC Area on West Side Road near the Kennels.

TYPE SAMPLE: Composite

NUMBER OF SAMPLES: 2

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
pH (Hydrogen Ion)	Units	7.43	8.40	7.92
Specific Conductance	µmhos	382	572	477
Temperature	°C	28.3	29.9	29.1
Total Suspended Solids	mg/L	7.0	108.0	62.5
INORGANICS				
Nitrogen, Kjeldahl	mg/L	26.0	27.5	26.8
Phosphorus, Total	mg/L	3.9	4.25	4.1
METALS				
Aluminum	µg/L	198.0	237.0	218.0
Calcium	mg/L	26.6	27.3	27.0
Iron	µg/L	1,040.0	1,046.0	1,043.0
Magnesium	mg/L	15.9	16.0	16.0
Zinc	µg/L	286.0	340.0	313.0
ORGANICS				
Chemical Oxygen Demand	mg/L	135.0	225.0	180.0
Hydrocarbons, Total	mg/L	1.4	7.2	4.3
Oil & Grease	mg/L	5.4	48.0	26.7
Organic Carbon, Total	mg/L	36.0	43.0	39.5
Phenol	µg/L	117.0	830.0	474.0
Surfactants (MBAS)	mg/L	1.9	11.0	6.4
VOLATILES				
1,4-Dichlorobenzene	µg/L	< 0.7	1.3	0.8
1,2-Dichloroethane	µg/L	< 0.3	11.0	5.6
trans-1,2-Dichloroethene	µg/L	< 0.5	1.3	0.8
Methylene Chloride	µg/L	5.0	95.0	50.0
1,1,2,2-Tetrachloroethane	µg/L	< 0.5	0.67	0.5
Toluene	µg/L	11.0	---	11.0
1,1,1-Trichloroethane	µg/L	< 0.5	0.62	0.4
Trichloroethylene	µg/L	< 0.5	1.9	1.1

**Wastewater Characterization
Sanitary Sewer System
Manhole 402 (Site 033)**

SITE DESCRIPTION: Sanitary Sewer System Manhole 402, in TAC Area on West Side Road between Bldg 1331 (Fire Department) and Bldg 1330.

TYPE SAMPLE: Composite

NUMBER OF SAMPLES: 2

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
pH (Hydrogen Ion)	Units	7.11	7.45	7.28
Specific Conductance	μ mhos	265	382	324
Temperature	$^{\circ}$ C	30.4	32.4	31.4
Total Suspended Solids	mg/L	11.0	84.0	47.5
INORGANICS				
Nitrogen, Kjeldahl	mg/L	18.0	20.0	19.0
Phosphorus, Total	mg/L	3.2	3.5	3.4
METALS				
Aluminum	μ g/L	118.0	176.0	147.0
Barium	μ g/L	< 100.0	101.0	76.0
Calcium	mg/L	< 0.1	24.8	12.4
Iron	μ g/L	881.0	972.0	926.0
Magnesium	mg/L	14.6	15.8	15.2
Zinc	μ g/L	187.0	190.0	188.0
ORGANICS				
Chemical Oxygen Demand	mg/L	215.0	345.0	280.0
Hydrocarbons, Total	mg/L	2.8	56.6	29.7
Oil & Grease	mg/L	8.7	156.0	82.4
Organic Carbon, Total	mg/L	56.6	59.0	57.8
Phenol	μ g/L	1,225.0	1,470.0	1,348.0
Surfactants (MBAS)	mg/L	4.6	39.0	21.8
VOLATILES				
1,2-Dichlorobenzene	μ g/L	< 1.0	11.6	6.0
1,3-Dichlorobenzene	μ g/L	< 0.5	0.6	0.4
1,4-Dichlorobenzene	μ g/L	< 0.7	3.0	1.7
1,2-Dichloroethane	μ g/L	< 0.3	11.0	5.6
trans-1,2-Dichloroethene	μ g/L	< 0.5	7.1	3.7
Ethyl Benzene	μ g/L	5.2	---	5.2

**Wastewater Characterization
Sanitary Sewer System
Manhole 1132 (Site 034)**

SITE DESCRIPTION: Sanitary Sewer System Manhole 1132, off Boatner Road on west side of Bldg 2825 (Hospital).

TYPE SAMPLE: Composite

NUMBER OF SAMPLES: 2

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
pH (Hydrogen Ion)	Units	7.54	7.75	7.64
Specific Conductance	μ mhos	947	1,190	1,068
Temperature	$^{\circ}$ C	29.0	32.0	30.5
Total Suspended Solids	mg/L	6.0	20.0	13.0
INORGANICS				
Nitrogen, Kjeldahl	mg/L	53.0	91.0	72.0
Phosphorus, Total	mg/L	5.0	7.0	6.0
METALS				
Aluminum	μ g/L	< 100.0	414.0	232.0
Calcium	mg/L	18.4	28.6	23.5
Iron	μ g/L	363.0	1,950.0	1,156.0
Magnesium	mg/L	13.6	15.8	14.7
Zinc	μ g/L	< 100.0	404.0	227.0
ORGANICS				
Chemical Oxygen Demand	mg/L	140.0	240.0	190.0
Hydrocarbons, Total	mg/L	< 1.0	2.1	1.3
Oil & Grease	mg/L	1.4	20.0	10.7
Organic Carbon, Total	mg/L	67.0	126.0	96.5
Phenol	μ g/L	76.0	125.0	100.0
VOLATILES				
Chloroform	μ g/L	< 0.3	8.8	4.5

**Wastewater Characterization
Sanitary Sewer System
Plew STP Influent (Site 036)**

SITE DESCRIPTION: Plew Sewage Treatment Plant Influent.

TYPE SAMPLE: Composite

NUMBER OF SAMPLES: 2

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
Dissolved Oxygen	mg/L	7.9	7.9	7.9
pH (Hydrogen Ion)	Units	7.54	7.70	7.62
Specific Conductance	μmhos	615	635	625
Temperature	°C	27.7	30.8	29.5
Total Suspended Solids	mg/L	44.0	220.0	132.0
INORGANICS				
Nitrogen, Kjeldahl	mg/L	19.5	21.5	20.5
Phosphorus, Total	mg/L	5.0	5.9	5.4
METALS				
Aluminum	μg/L	337.0	338.0	338.0
Calcium	mg/L	22.6	23.8	23.2
Iron	μg/L	658.0	706.0	682.0
Magnesium	mg/L	13.1	13.6	13.4
Zinc	μg/L	163.0	250.0	206.0
ORGANICS				
Chemical Oxygen Demand	mg/L	70.0	210.0	140.0
Hydrocarbons, Total	mg/L	< 1.0	5.3	2.9
Oil & Grease	mg/L	12.6	53.6	33.1
Organic Carbon, Total	mg/L	44.0	46.0	45.0
Phenol	μg/L	< 10.0	10.0	8.0
Surfactants (MBAS)	MG/L	4.4	6.6	5.5
VOLATILES				
Chlorobenzene	μg/L	< 0.6	25.0	12.6
1,4-Dichlorobenzene	μg/L	< 0.7	8.7	4.5
1,2-Dichloroethane	μg/L	4.8	7.9	6.4
Ethyl Benzene	μg/L	18.0	---	18.0
Toluene	μg/L	3.7	---	3.7

**Wastewater Characterization
Sanitary Sewer System
Plew STP Influent (Site 036)**

SITE DESCRIPTION: Plew Sewage Treatment Plant Influent.

TYPE SAMPLE: Grab

NUMBER OF SAMPLES: 1

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
pH (Hydrogen Ion)	Units	7.42	---	7.42
Specific Conductance	μ mhos	612	---	612
Temperature	$^{\circ}$ C	29.6	---	29.6
Total Suspended Solids	mg/L	202.0	---	202.0
INORGANICS				
Nitrogen, Kjeldahl	mg/L	20.5	---	20.5
Phosphorus, Total	mg/L	8.2	---	8.2
METALS				
Aluminum	μ g/L	714.0	---	714.0
Barium	μ g/L	132.0	---	132.0
Calcium	mg/L	27.6	---	27.6
Iron	μ g/L	1,580.0	---	1,580.0
Magnesium	mg/L	13.2	---	13.2
Zinc	μ g/L	261.0	---	261.0
ORGANICS				
Chemical Oxygen Demand	mg/L	120.0	---	120.0
Hydrocarbons, Total	mg/L	2.0	---	2.0
Oil & Grease	mg/L	44.8	---	44.8
Organic Carbon, Total	mg/L	36.0	---	36.0
Phenol	μ g/L	32.0	---	32.0
Surfactants (MBAS)	MG/L	0.2	---	0.2
VOLATILES				
Chloroform	μ g/L	0.7	---	0.7
1,4-Dichlorobenzene	μ g/L	1.7	---	1.7

**Wastewater Characterization
Sanitary Sewer System
Plew STP Effluent (Site 037)**

SITE DESCRIPTION: Plew Sewage Treatment Plant Effluent.

TYPE SAMPLE: Composite

NUMBER OF SAMPLES: 3

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
pH (Hydrogen Ion)	Units	7.57	7.70	7.66
Specific Conductance	μ mhos	480	489	485
Temperature	$^{\circ}$ C	23.5	31.0	26.1
INORGANICS				
Chlorine	ppm	0.0	0.3	0.2
Nitrogen, Kjeldahl	mg/L	3.2	6.6	5.1
Phosphorus, Total	mg/L	1.85	2.5	2.2
METALS				
Aluminum	μ g/L	< 100.0	208.0	120.0
Calcium	mg/L	18.4	20.9	19.8
Copper	μ g/L	< 100.0	137.0	79.0
Iron	μ g/L	< 100.0	214.0	151.0
Magnesium	mg/L	11.3	12.5	11.7
ORGANICS				
Chemical Oxygen Demand	mg/L	20.0	100.0	48.0
Oil & Grease	mg/L	< 0.3	0.5	0.3
Organic Carbon, Total	mg/L	5.0	12.0	8.0
Phenol	μ g/L	< 10.0	12.0	9.0
Surfactants (MBAS)	MG/L	0.1	0.2	0.1
VOLATILES				
1,4-Dichlorobenzene	μ g/L	1.8	---	1.8
1,2-Dichloroethane	μ g/L	2.2	---	2.2
1,2-Dichloropropane	μ g/L	0.58	---	0.6

**Wastewater Characterization
Sanitary Sewer System
Main Base STP Influent (Site 039)**

SITE DESCRIPTION: Main Base Sewage Treatment Plant Effluent (in TAC Area).

TYPE SAMPLE: Composite

NUMBER OF SAMPLES: 3

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
Dissolved Oxygen	mg/L	7.9	8.1	8.0
pH (Hydrogen Ion)	Units	7.23	7.50	7.41
Specific Conductance	µmhos	472	518	497
Temperature	°C	24.0	34.1	27.9
Total Suspended Solids	mg/L	< 1.0	9.0	5.8
INORGANICS				
Chlorine	ppm	0.3	0.4	0.3
Nitrogen, Kjeldahl	mg/L	1.9	2.4	2.2
Phosphorus, Total	mg/L	4.15	5.0	4.5
METALS				
Barium	µg/L	< 100.0	101.0	76.0
Calcium	mg/L	26.2	27.3	26.9
Iron	µg/L	154.0	225.0	197.0
Magnesium	mg/L	14.7	15.4	15.1
Zinc	µg/L	< 100.0	146.0	103.0
ORGANICS				
Chemical Oxygen Demand	mg/L	10.0	25.0	20.0
Organic Carbon, Total	mg/L	7.0	14.0	9.7
Surfactants (MBAS)	MG/L	< 0.1	4.0	0.2
VOLATILES				
Bromodichloromethane	µg/L	< 0.4	1.8	1.1
Bromomethane	µg/L	< 0.9	19.0	9.7
Chloroform	µg/L	< 0.3	1.7	1.0
Chlorodibromomethane	µg/L	< 0.5	0.79	0.4
1,4-Dichlorobenzene	µg/L	< 0.7	5.8	2.2
1,2-Dichloroethane	µg/L	< 0.3	10.0	3.4
Methylene Chloride	µg/L	< 0.4	33.0	11.1

**Wastewater Characterization
Potable Water Distribution System
Building 1533 (Site 045)**

SITE DESCRIPTION: Bldg 1533, Potable Water, from sink in Maintenance Shop at the Eglin Golf Course.

TYPE SAMPLE: Grab

NUMBER OF SAMPLES: 2

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
pH (Hydrogen Ion)	Units	---	---	---
Specific Conductance	μ mhos	244	253	248
Temperature	$^{\circ}$ C	---	---	---
INORGANICS				
Nitrogen, Kjeldahl	mg/L	0.4	0.5	0.4
METALS				
Barium	μ g/L	< 100.0	101.0	76.0
Calcium	mg/L	22.1	23.0	22.6
Magnesium	mg/L	14.2	14.5	14.4
Zinc	μ g/L	342.0	391.0	366.0
ORGANICS				
Organic Carbon, Total	mg/L	< 1.0	1.0	0.8
VOLATILES				
Data Not Available	μ g/L	---	---	---

**Wastewater Characterization
Industrial Wastewater System
Oil/Water Separator - Bldg 1313 (Site 058)**

SITE DESCRIPTION: Oil/Water Separator near Bldg 1313.

TYPE SAMPLE: Grab

NUMBER OF SAMPLES: 1

PARAMETERS	UNITS	LOW	HIGH	AVERAGE
PHYSICAL PARAMETERS				
pH (Hydrogen Ion)	Units	6.79	---	6.79
Specific Conductance	μ mhos	313	---	313
Temperature	$^{\circ}$ C	31.6	---	31.6
Total Suspended Solids	mg/L	34.0	---	34.0
INORGANICS				
Nitrogen, Kjeldahl	mg/L	2.5	---	2.5
Phosphorus, Total	mg/L	1.6	---	1.6
METALS				
Calcium	mg/L	22.2	---	22.2
Iron	μ g/L	2,507.0	---	2,507.0
Magnesium	mg/L	14.4	---	14.4
Zinc	μ g/L	271.0	---	271.0
ORGANICS				
Chemical Oxygen Demand	mg/L	410.0	---	410.0
Hydrocarbons, Total	mg/L	2.1	---	2.1
Oil & Grease	mg/L	6.3	---	6.3
Organic Carbon, Total	mg/L	146.0	---	146.0
Phenol	μ g/L	97.0	---	97.0
Surfactants (MBAS)	MG/L	11.8	---	11.8
VOLATILES				
Chloroform	μ g/L	0.47	---	0.5
1,2-Dichlorobenzene	μ g/L	11.0	---	11.0
1,4-Dichlorobenzene	μ g/L	2.4	---	2.4

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