CHATHAM COUNTY PURCHASING DEPARTMENT

ADDENDUM NO. 1 TO ITB # 17-0074-4

FOR: MEMORIAL STADIUM

Please note that the deadline for questions has been changed to Wednesday, September 6, 2017 at 1:00 p.m.

Please note that the basis of award has been changed. Also note clarifications to the bid documents.

Please find attached:

Asbestos and Hazardous Materials Report Limited Site investigation Changes to Project Drawings

BID DUE DATE REMAINS SEPTEMBER 14, 2017 AT 2:00 P.M.

MÁRGAREŻH. JOYNER PURCHASING DIRECTOR CHATHAM COUNTY

MEMORIAL STADIUM ITB #17-0074-4

ADDENDUM NO. 1

August 29, 2017

FROM: CHATHAM COUNTY PURCHASING & CONTRACTING DIVISION 1117 Eisenhower Drive, Suite C Savannah, GA 31406

TO: To All Prime Contract Bidders

This Addendum forms a part of the Contract Documents and modifies the original Invitation to Bid. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so shall subject Bidder to disqualification.

CHANGES TO THE INVITATION TO BID:

- 1. Last Day for written questions from Bidders is extended to Wednesday, September 6, 2017 at 1:00 pm.
- 2. Award of the construction contract shall be to the LOWEST RESPONSIVE, RESPONSIBLE BIDDER
 - a. **All references** related to the bid being awarded to the lowest responsive, responsible base Bidder shall be deleted.
 - b. Revision to Instruction To Bidders Section 1.18, replace Paragraph 2 with: The contract if awarded will be to the lowest responsive, responsible Bidder. Bidder shall be required to be responsive and responsible to all Alternates and Unit Prices.
 - c. Revision to Instruction to Bidders Section 1.19, replace with Basis of Contract Award: Award shall be made to the lowest responsible, responsive bidder.

CHANGES TO PROJECT MANUAL:

- 3. Please see attached for reference the *Asbestos and Hazardous Materials Report* from Terracon dated August 22, 2017. The report identifies a limited amount of suspect asbestos-containing material that will need to be removed by a State of Georgia licensed asbestos abatement contractor prior to building demolition. The report is provided for general information only. Contractors are to draw their own conclusions regarding any further investigation and remediation that may be necessary.
- 4. Please see attached for reference a *Limited Site Investigation* from Terracon dated August 24, 2017. The report includes an assessment of soil and shallow groundwater conditions in the vicinity of two (2) former aboveground storage tanks (ASTs) used for the storage and distribution of petroleum products in the east parking lot. For bidding purposes, Contractors shall include in their bids the costs to excavate 200 CF (approximately 10 tons) of unsuitable soil at the location of the existing fuel tank and

dispose of the soils at a Subtitle D landfill. Contractors shall backfill with suitable subbase material for the parking lot and compact.

- Revision to SECTION 102800 TOILET AND BATH ACCESSORIES: Revise paragraph 2.3.A to include the following additional manufacturers: "9. Dyson (AirBlade V Electric Hand Dryer) 10. Saniflow Corporation (Speedflow Model No. M06ACS-UL)"
- 6. Revision to SECTION 321813 SYNTHETIC TURF PLAYING FIELD SYSTEM: Revise paragraph 2.3.C.6.c to read "Astroturf: ZeoFill CoolCap"

CHANGES TO PROJECT DRAWINGS:

- 7. Drawing A-301: Revise drawing to include four (4) electric hand dryers in the team toilet rooms according to supplemental drawing A-301_Rev 01 issued with this addendum.
- 8. Drawing A-701: Revise drawing to include four (4) electric hand dryers in the team toilet rooms according to supplemental drawing A-701_Rev 01 issued with this addendum.
- 9. Drawing E1.1: Revise drawing to include Area of Refuge Lights in Second Floor Lighting Plan according to supplemental drawing E1.1_Rev 01 issued with this addendum.
- 10. Drawing E2.1: Revise drawing to include power for electric hand dryers according to supplemental drawing E2.1_Rev 01 issued with this addendum.
- 11. Drawing E3.1: Revise drawing according to supplemental drawing E3.1_Rev 01 issued with this addendum.
- 12. Drawing E4.1: Revise drawing according to supplemental drawing E4.1_Rev 01 issued with this addendum.
- 13. Drawing E4.2: Revise drawing according to supplemental drawing E4.2 _Rev 01 issued with this addendum.
- 14. Drawing T1.1: Revise drawing to include Area of Refuge call system according to supplemental drawing T1.1_Rev 01 issued with this addendum.

CLARIFICATIONS:

- 15. <u>Question</u>: The drawings indicate CCTV cameras, but I am unable to locate any specifications for the CCTV system in the project specifications. Where may I find the CCTV system specifications? <u>Answer</u>: The cameras and associated electronics are to be provided by Chatham County. The cabling system is the responsibility of the contractor and is specified in Division 27 – Communications of the Project Manual and in the Project Drawings.
- 16. <u>Question</u>: I have a question regarding the non infill synthetic turf shown on the drawings. Can you please provide specifications for that scope of work? I didn't see any specs in the package.

<u>Answer</u>: The specifications for the short-pile, non-infill synthetic turf are provided in the Project Drawings in Detail 5 of Drawing SR605.

ATTACHED DOCUMENTS:

Asbestos and Hazardous Materials Report by Terracon Limited Site Investigation report by Terracon Drawing A-301_Rev 01 Drawing E1.1_Rev 01 Drawing E2.1_Rev 01 Drawing E3.1_Rev 01 Drawing E4.1_Rev 01 Drawing E4.2_Rev 01 Drawing T1.1_Rev 01

END OF ADDENDUM NO. 1

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Asbestos and Hazardous Materials Report

Memorial Stadium 101 Scott Drive Savannah, Chatham County, Georgia

> August 22, 2017 Terracon Project No. ES177225



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> Prepared for: Chatham County Department of Engineering Savannah, Georgia

Prepared by:

Terracon Consultants, Inc. Savannah, Georgia



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August 22, 2017

Chatham County Department of Engineering Post Office Box 8161 Savannah, Georgia 31412

Attn: Ms. Parveez Yousuf, Senior Construction Project Manager E: pyousuf@chathamcounty.org

Re: Asbestos and Hazardous Materials Report Memorial Stadium 101 Scott Drive Savannah, Chatham County, Georgia Terracon Project No. ES177225

Dear Ms. Yousuf:

Terracon Consultants, Inc. (Terracon) is pleased to submit this asbestos and hazardous materials report for the above-referenced site located in Savannah, Georgia. The site inspection and sampling were performed on August 11 and August 18, 2017 for the planned demolition of the site structures.

Suspect asbestos-containing materials (ACMs) were identified and sampled by certified asbestos building inspector, Philip Kucera of Terracon. Asbestos was detected at greater than 1% in exterior window frame caulk located on the two locker room buildings. Other items visually identified which may contain potentially hazardous materials included: electrical transformers, light fixtures, fluorescent light tubes and ballasts, and refrigeration and air conditioning equipment.

Please refer to the attached report for details.

Sincerely, Terracon Consultants, Inc.

Thilp Lucer

Philp Kucera AHERA Accredited Asbestos Building Inspector Certificate No. 0712.301-15, Expires 7/11/2018

William S. Anderson, III, PE Senior Principal

Terracon Consultants, Inc. 2201 Rowland Avenue Savannah, Georgia 31404 P (912) 629 4000 F (912) 629 4001 terracon.com/offices/savannah

Facilities

Geotechnical

Materials

TABLE OF CONTENTS

Page No. Section INTRODUCTION......1 1.0 1.1 1.2 1.3 2.0 3.0 4.0 5.0 6.0 7.0 Asbestos6 7.1 7.2

APPENDICES

APPENDIX A	Figures
APPENDIX B	Tables
APPENDIX C	Laboratory Analytical Results
APPENDIX D	Asbestos Inspector Certification

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ASBESTOS and HAZARDOUS MATERIALS REPORT

Memorial Stadium 101 Scott Drive Savannah, Chatham County, Georgia

Terracon Project No. ES177225 August 22, 2017

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) is pleased to submit this report to the Chatham County Department of Engineering documenting the hazardous materials survey of the buildings and structures scheduled for demolition at 101 Scott Drive in Savannah, Georgia. The inspection and sampling were performed on August 11 and August 18, 2017.

Interior and exterior building materials were surveyed, with homogeneous areas of suspect asbestos containing materials (ACMs) visually identified, documented, and sampled for laboratory analysis. Suspect ACM samples were collected in general accordance with the sampling protocols outlined in EPA regulation 40 CFR 763, Asbestos Hazard Emergency Response Act (AHERA). Samples were delivered under Chain of Custody to an accredited laboratory for analysis by Polarized Light Microscopy (PLM).

Other items which may contain potentially hazardous materials were visually surveyed including thermostats, exit signs, light fixtures, cooling/refrigeration equipment, and electrical equipment as applicable to the site. This report was prepared to document the observations, analytical results, and findings from the inspection.

Although reasonable efforts were made to identify and sample all accessible suspect ACMs, additional suspect materials could have been located behind walls, above ceilings, in voids or in other concealed areas. Our conclusions and recommendations, with respect to abatement and/or demolition of these structures, were based on the available analytical data.

1.1 **Project Objective**

We understand that this hazardous material survey was requested because of the planned demolition of the structures. EPA regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), prohibits the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAP requires that potentially regulated

Asbestos and Hazardous Materials Report Memorial Stadium & Savannah, Chatham County, Georgia August 22, 2017 & Terracon Project No. ES177225

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asbestos-containing building materials (ACBMs) be identified, classified and quantified prior to planned disturbances or demolition activities.

1.2 Standard of Care

This investigation was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions, and recommendations expressed in this report are based on conditions observed during our investigation. Consequently, the information contained herein should not be relied upon to represent conditions that existed prior to or after this investigation. Terracon does not warrant the services of regulatory agencies, laboratories, or other third parties supplying information that may have been used in the preparation of this report.

1.3 Reliance

This report was prepared for the exclusive use and reliance of the Chatham County Engineering Department, the Client, as well as their respective affiliates, and prospective contractors. Use or reliance by any other party is prohibited without the written authorization of the Client and Terracon. Reliance on this report by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal and/or Terracon's Agreement for Services. The limitation of liability defined in the Agreement for Services is the aggregate limit of Terracon's liability to the client and all relying parties.

This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. No warranty, expressed or implied is made.

2.0 ASBESTOS REGULATORY OVERVIEW

The asbestos National Emissions Standard for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61, Subpart M regulates asbestos fiber emissions and asbestos waste disposal practices. Under the NESHAP regulations, asbestos-containing building materials are classified as either Friable, Category I Non-Friable, or Category II Non-Friable ACM. Friable materials are those that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure. Category I Non-Friable ACM include packings, gaskets, resilient floor coverings and asphalt roofing products containing greater than 1% asbestos. Category II Non-Friable ACM are any materials other than Category I materials that contain more than 1% asbestos.

A Friable ACM, Category I and Category II Non-Friable ACM which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading, and

Asbestos and Hazardous Materials Report Memorial Stadium z Savannah, Chatham County, Georgia August 22, 2017 # Terracon Project No. ES177225

which could be crushed or pulverized during anticipated renovation or demolition activities is considered regulated ACM (RACM). RACM must be removed (abated) prior to renovation or demolition activities which will disturb the material. If the amount of RACM exceeds 10 linear feet or 10 square feet, the owner or operator must provide the State of Georgia with written notification of planned removal activities at least 10 working days prior to the commencement of asbestos abatement activities. Removal of RACM must be conducted by an appropriately accredited and licensed asbestos abatement contractor.

The Occupational Safety and Health (OSHA) asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires that employee exposure to airborne asbestos fibers be maintained below 0.1 asbestos fibers per cubic centimeter of air (f/cc). The OSHA standard classifies construction and maintenance activities which could disturb ACM, and specifies work practices and precautions which employers must follow when engaging in each class of regulated work.

BUILDING DESCRIPTION 3.0

The Memorial Stadium site located at 101 Scott Drive in Savannah, Georgia consists of several structures and buildings including: the concrete stadium structure, a 2-story enclosed press box, locker rooms, restrooms, concessions buildings, storage buildings, ticket booths, an electrical equipment room, and a maintenance shop and equipment storage. The stadium structure is constructed of steel-reinforced concrete. The restroom and locker room walls are painted CMU (concrete masonry unit) block walls with metal ceiling structural members.

The roofing materials over most of the structures are a rolled asphalt membrane over a built-up fiber layer. The two concession stand buildings have layered felt, tar, and gravel over wood decking. The ceilings of most of the building are open steel structures. The referee room ceiling is clad with gypsum wallboard, which is finished with a trowel-applied surfacing material. The flooring materials on site include concrete, glued-down carpet in the press box, and an epoxytype coating in the restrooms.

FIELD ACTIVITIES 4.0

The field activities were conducted on August 11 and August 18, 2017 by Philip Kucera, an AHERA accredited asbestos building inspector. A copy of Mr. Kucera's asbestos building inspector certificate is provided in Appendix D.

The buildings were visually inspected to identify interior and exterior homogeneous areas of suspect asbestos containing materials (ACM). A homogeneous area consists of building

3

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Asbestos and Hazardous Materials Report Memorial Stadium # Savannah, Chatham County, Georgia August 22, 2017 # Terracon Project No. ES177225

materials that appear similar throughout in terms of color, texture, date of application, and general appearance. Materials identified as concrete, glass, wood, masonry, metal or rubber were not considered suspect ACM.

There were 42 samples representing 18 homogeneous areas collected from the building. The materials sampled included:

- Caulk and expansion joint filler,
- Window glazing,
- Wallboard, joint tape, joint compound, and surface texture material,
- Roofing materials,
- Carpet glue, and
- Exterior paint.

Samples of the suspect materials were shipped via FedEx, under chain of custody, to the contract laboratory, EMSL Analytical, Inc. (EMSL) in Kernersville, North Carolina for asbestos content analysis.

5.0 LABORATORY RESULTS

Bulk samples of suspect asbestos-containing materials were analyzed by EMSL using polarized light microscopy (PLM) with dispersion staining techniques, per the Environmental Protection Agency (EPA) Method for the Determination of Asbestos in Bulk Building Materials (600/R-93/116). Some of the collected samples included layers. The layers were analyzed individually resulting in 73 individual sample analyses. The items which had greater than 1% asbestos content, and therefore designated as asbestos containing materials (ACMs), were:

Samples M-CA1-1, 2: The exterior window frame caulk found on the locker rooms (building portions extending about 32 feet to the north and south from beneath the east stadium structure) contained 3% to 5% Chrysotile asbestos. This caulk was rigid/brittle and located between the metal window frame and CMU walls. Note, the flexible caulk, located around window frames on the restroom and maintenance buildings was sampled and asbestos was not detected.

Figure 1 in Appendix A shows the site plan and asbestos sample locations. Table 1 in Appendix B lists the samples collected, their descriptions, locations, and asbestos contents. The laboratory analytical report from EMSL, National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 102104-0, and chain of custody form are included in Appendix C.

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Asbestos and Hazardous Materials Report Memorial Stadium & Savannah, Chatham County, Georgia August 22, 2017 & Terracon Project No. ES177225

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6.0 OTHER HAZARDOUS MATERIALS VISUAL SURVEY

Additional materials with potentially hazardous components were visually surveyed and the findings are summarized as follows:

Fluorescent Light Tubes

The buildings on site have at least 35 fixtures containing two, 4-foot long light tubes, 7 fixtures containing four, 4-foot long tubes, and 4 fixtures containing two, 8-foot long tubes. Some types of fluorescent light tubes may contain enough mercury and/or lead to be RCRA hazardous waste based on a Toxicity Characteristic Leaching Procedure (TCLP) test.

It is not known if the fluorescent light tubes in service at Memorial Stadium contain mercury or lead, but that may be determined by contacting the manufacturer(s) with the model number printed on the tubes. Regardless of the hazardous waste status, the tubes should not be discarded or thrown in a waste collection dumpster or broken. They should be reused at another location or packaged and picked up for recycling by one of the light tube recycling companies that service the area. Batteries Plus located at 7170 Hodgson Memorial Drive in Savannah may also recycle the tubes; they can be contacted at 912-352-0650 for more information.

Fluorescent Light Tube Ballasts

The fluorescent light tube fixtures contain ballasts which can contain polychlorinated biphenyls (PCBs) if they were manufactured before July 1, 1979. Ballasts manufactured between July 1, 1978 and July 1, 1998 that do not contain PCBs are labeled "**NO PCBs**". Ballasts manufactured after 1998 are not required to be labeled "**NO PCBs**". The types of ballasts present in the building can be determined by disassembling and examining the ballast labels and/or obtaining confirmation that they were manufactured after July 1, 1979.

Sodium Vapor Lights

The light fixtures mounted on the underside of the concrete stadium bleacher structures appear to be sodium vapor type lamps. There are at least 30 of these lamps which may contain xenon gas and trace amounts of mercury. These lamps should not be disposed by breaking and/or throwing them into a dumpster to be landfilled. Mercury and mercury vapors are listed as hazardous components even at low quantities and concentrations. It is recommended that these lamps be reused or recycled, and a website such as *lamprecycle.org* identifies facilities and locations that may accept such materials.

Transformers

Mounted on 8 of the stadium concrete bleacher columns are 10 electrical transformers. The transformers are part of the Memorial Stadium property, but it is not known if the transformers

Asbestos and Hazardous Materials Report Memorial Stadium
Savannah, Chatham County, Georgia August 22, 2017
Terracon Project No. ES177225



contain PCBs. Chatham County management personnel Lorenzo, phone number (912) 660-4741, was researching the type of transformers that are on site, but he has not provided a response at the issuance of this report.

There are 3 pole-mounted transformers located outside the northeast corner of the stadium in a fenced enclosure labelled as property of the Georgia Power Company. There are also pad-mounted electrical enclosures with at least one transformer located outside the north end of the stadium near Scott Drive. The cabinets are utility company property and PCB contents were not labeled or determined.

Electrical Switches

The wall-mounted switch fixtures located in the electrical room at the north end beneath the east stadium structure are labeled as oil-filled. These items should not be discarded as waste to be landfilled, but recycled by removing the oil and separating it from the metal components to be recycled.

Cooling and Refrigeration Equipment

Located throughout the site are several portable electric air conditioner window units. These units contain hydrofluorocarbon gases which are EPA-regulated materials that are not to be vented to the atmosphere. These units should be recycled or reused, but not discarded as waste which would result in a release of the compressed gases.

Located in the two concession buildings were several refrigerators and ice-making machines. These units contain oils and compressed refrigerant gases. These units should be recycled or reused, but not discarded as waste which would result in a release of the compressed gases and oils.

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 Asbestos

The State of Georgia requires removal and disposal of Category I non-friable ACM, Category II non-friable ACM, and RACM prior to demolition activities. Therefore, Terracon recommends that the window frame caulk identified in Section 5.1 of this report be removed by a State of Georgia licensed asbestos abatement contractor prior to building demolition (in accordance with all Federal and State regulations, including notification requirements described in Section 2.0 of this report).

Waste materials containing asbestos which are removed during abatement activities cannot be disposed in a regular municipal or inert materials landfill. All such waste materials must be

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Asbestos and Hazardous Materials Report Memorial Stadium
Savannah, Chatham County, Georgia August 22, 2017
Terracon Project No. ES177225



collected in properly sealed containers and disposed of at a facility which is permitted to accept asbestos containing materials.

Although reasonable efforts were made to identify and sample all accessible suspect materials, additional suspect materials could have been located behind walls, above ceilings, in voids or in other concealed areas. Should suspect materials, other than those which were identified in this survey, be uncovered prior to, or during the demolition process, those materials should be assumed to contain asbestos until sampling and analysis can confirm (or deny) the asbestos content.

7.2 Other Potentially Hazardous Materials

As described in Section 6.0 of this report, items such as the stadium-mounted electrical transformers and fluorescent light tube ballasts, need additional investigation to qualify the extent of potential hazards that are present. Recommendations for determining the hazards and handling the subject materials were also stated in Section 6.0. The objective for all of the identified materials is to reuse them at another site, if possible. Another option is to recycle the materials, which may require separating or removing individual constituents. Discarding the identified materials as wastes to be directly landfilled is not an acceptable action based on the contents of the items described.

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APPENDIX A

Figures





APPENDIX B Tables

Memorial Stadium

Savannah, Chatham County, Georgia

Terracon Project No. ES177225

	42 Samples (Include Layers) - 73 Individual Laboratory Analyses								
Sample ID	HA	Туре	Material Sampled	Description	Room/Area	Asbestos Results			
M-WB1-1	1	F	Wallboard, Tape, JC, Texture	White/Gray	Ref Room Ceiling	ND			
M-WB1-2	1	F	Wallboard, Tape, JC, Texture	White/Gray	Ref Room Ceiling	ND			
M-WB1-3	1	F	Wallboard, Tape, JC, Texture	White/Gray	Ref Room Ceiling	ND			
M-MG7-1	2	NF	Carpet Glue, Floor Paint	Tan Glue, Gray Paint	Lower Press Box Floor	ND			
M-MG7-2	2	NF	Carpet Glue, Floor Paint	Tan Glue, Gray Paint	Lower Press Box Floor	ND			
M-MG7-3	3	NF	Carpet Glue, Floor Paint	Tan Glue, Gray Paint	Ref Room Floor	ND			
M-MG7-4	3	NF	Carpet Glue, Floor Paint	Tan Glue, Gray Paint	Ref Room Floor	ND			
M-SC3-1	4	NF	Exterior Paint	Green	Press Box Exterior	ND			
M-SC3-2	4	NF	Exterior Paint	Green	Press Box Steps	ND			
M-FC2-1	5	NF	Floor Covering	Beige	SW Mens Room	ND			
M-FC2-2	5	NF	Floor Covering	Beige	NE Mens Room	ND			
M-CA1-1	6	NF	Expansion Joint Caulk	Gray	West Bleachers	ND			
M-CA1-2	6	NF	Expansion Joint Caulk	Gray	West Bleachers	ND			
M-CA1-3	7	NF	Window Frame Caulk	White, Flexible	Maintenance Room	ND			
M-CA1-4	7	NF	Window Frame Caulk	White, Flexible	NW Bathrooms	ND			

HA = Homogenous Area

ND = None Detected

NF = Non-Friable

JC = Joint Compound

F = Friable (When dry, may be crumbled, pulverized, or reduced to powder by hand pressure.)

Memorial Stadium

Savannah, Chatham County, Georgia

Terracon Project No. ES177225

	42 Samples (Include Layers) - 73 Individual Laboratory Analyses							
Sample ID	HA	Туре	Material Sampled	Description	Room/Area	Asbestos Results		
M-CA1-5	8	NF	Window Frame Caulk	White, Brittle	South Locker Room	5% Chrysotile		
M-CA1-6	8	NF	Window Frame Caulk	White, Brittle	North Locker Room	3% Chrysotile		
M-CA1-7	9	NF	Column Flashing Caulk	Brown	NW Bathroom Roof	ND		
M-CA1-8	9	NF	Column Flashing Caulk	Brown	NE Bathroom Roof	ND		
M-SC1-1	10	NF	Window Glazing	Gray	South Locker Room	ND		
M-SC1-2	10	NF	Window Glazing	Gray	North Locker Room	ND		
M-RF1-1	11	NF	Roof Flashing Tar	Black	NE Bathrooms	ND		
M-RF1-2	11	NF	Roof Flashing Tar	Black	NE Bathrooms	ND		
M-RF1-3	11	NF	Roof Flashing Tar	Black	NW Bathrooms	ND		
M-RF3-1	12	NF	Roof Shingle, Felt Underlayment	Black	NW Shed Roof	ND		
M-RF3-2	12	NF	Roof Shingle, Felt Underlayment	Black	NW Shed Roof	ND		
M-RF3-3	13	NF	Roof Shingle, Felt Underlayment	Black, Green	Maintenance Porch	ND		
M-RF3-4	13	NF	Roof Shingle, Felt Underlayment	Black, Green	Maintenance Porch	ND		
M-RF3-5	14	NF	Rolled Roof	Black, Gray	West Concession Stand	ND		
M-RF3-6	14	NF	Rolled Roof	Black, Gray	East Concession Stand	ND		
	14	NF	Rolled Roof	Black, Gray	West Concession Stand	ND		

HA = Homogenous Area

F = Friable (When dry, may be crumbled, pulverized, or reduced to powder by hand pressure.) NF = Non-Friable

ND = None Detected

Memorial Stadium

Savannah, Chatham County, Georgia

Terracon Project No. ES177225

Constant Section	42 Samples (Include Layers) - 73 Individual Laboratory Analyses							
Sample ID	НА	Туре	Material Sampled	Description	Room/Area	Asbestos Results		
M-RF5-1	15	NF	Felt Layers, Roof Tar, Rock	Black	West Store Room Roof	ND		
M-RF5-2	15	NF	Felt Layers, Roof Tar, Rock	Black	West Store Room Roof	ND		
M-RF5-3	15	NF	Felt Layers, Roof Tar, Rock	Black	East Store Room Roof	ND		
M-RF5-4	16	NF	Rolled Roof, Seam Tar, Fiber Fill	Black Roof, Brown Fiber	SW Bathrooms	ND		
M-RF5-5	16	NF	Rolled Roof, Seam Tar, Fiber Fill	Black Roof, Brown Fiber	SE Bathrooms	ND		
M-RF5-6	16	NF	Rolled Roof, Seam Tar, Fiber Fill	Black Roof, Brown Fiber	NE Bathrooms	ND		
M-RF5-7	16	NF	Rolled Roof, Seam Tar, Fiber Fill	Black Roof, Brown Fiber	NW Bathrooms	ND		
M-RF5-8	17	NF	Roof Sealant	Black, Gray	East Ticket Booth	ND		
M-RF5-9	17	NF	Roof Sealant	Black, Gray	West Ticket Booth	ND		
M-RF2-1	18	NF	Roof Felt	Black	NE Temp Walk Roof	ND		
M-RF2-2	18	NF	Roof Felt	Black	NW Temp Walk Roof	ND		

HA = Homogenous Area

NF = Non-Friable

F = Friable (When dry, may be crumbled, pulverized, or reduced to powder by hand pressure.)

ND = None Detected

APPENDIX C

Laboratory Analytical Results

EMSL Order: 021705023 **EMSL** Analytical, Inc. Customer ID: WPCE93 706 Gralin Street Kernersville, NC 27284 IME Customer PO: ES177225 Tel/Fax: (336) 992-1025 / (336) 992-4175 Project ID: http://www.EMSL.com / greensborolab@emsl.com Attention: Philip Kucera Phone: (912) 220-0985 WPC - A Terracon Company Fax: (912) 629-4001 2201 Rowland Ave, Received Date: 08/14/2017 9:00 AM Savannah, GA 31404 Analysis Date: 08/16/2017 - 08/17/2017 Collected Date: 08/11/2017

Project: Memorial Stadium / ES177225

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
M-WB1-1-Wallboard	Ref Room Ceiling - Wallboard, Tape, JC, Texture	Brown/Gray Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
			HA: 1		
M-WB1-1-Joint Compound	Ref Room Ceiling - Wallboard, Tape, JC, Texture	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
021705023-0001A			HA: 1		
M-WB1-1-Tape	Ref Room Ceiling -	Beige	100% Cellulose		None Detected
021705023-0001B	Texture	Homogeneous	HA: 1		
M-WB1-1-Texture	Ref Room Ceiling -	White	101.1	30% Ca Carbonate	None Detected
021705023-0001C	vvaliboard, Tape, JC, Texture	Non-Fibrous Homogeneous		70% Non-fibrous (Other)	
M-WB1-2-Wallboard	Ref Room Ceiling -	Brown/Gray	15% Cellulose	85% Non-fibrous (Other)	None Detected
021705023-0002	Texture	Fibrous Homogeneous	HA-1		
M-WB1-2-Joint	Ref Room Ceiling -	White		30% Ca Carbonato	Nono Detected
Compound	Wallboard, Tape, JC, Texture	Non-Fibrous Homogeneous		70% Non-fibrous (Other)	None Detected
021705023-0002A			HA: 1		
M-WB1-2-Tape	Ref Room Ceiling - Wallboard, Tape, JC,	Beige Fibrous	100% Cellulose		None Detected
021705023-0002B	Texture	Homogeneous	HA: 1		
M-WB1-2-Texture	Ref Room Ceiling -	White Non Eibrous		30% Ca Carbonate	None Detected
021705023-0002C	Texture	Homogeneous	LA- 1	70% Non-fibrous (Other)	
M-WB1-3-Wallboard	Ref Room Ceiling -	Brown/Gray	30% Cellulose	70% Non-fibrous (Other)	None Detected
021705023-0003	Wallboard, Tape, JC, Texture	Fibrous Heterogeneous			
			HA: 1		
VI-VVB1-3-Joint Compound	Ref Room Ceiling - Wallboard, Tape, JC, Texture	White Non-Fibrous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected
021705023-0003A	Textule	nomogeneous	Ha- 1		
M-WB1 3 Tape	Ref Room Ceiling -	Beige	100% Cellulose		None Detected
021705023-0003B	vvaliooard, Tape, JC, Texture	Fibrous Homogeneous			
A WR1 3 Toyturo	Pol Poom Calling	\A/bito	HA 1		
921705023-0003C	Rei Room Ceiling - Wallboard, Tape, JC, Texture	vvhite Non-Fibrous Homogeneous	<1% Cellulose	30% Ca Carbonate 70% Non-fibrous (Other)	None Detected

Report amended: 08/17/2017 13:03:13 Replaces initial report from: 08/16/2017 15:41:25 Reason Code: Client-Additional Analysis

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EMSL Order: 021705023 Customer ID: WPCE93

Customer PO: ES177225

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
		14.50	HA: 1		MER II - DEC
M-MG7-1-Mastic	Lower Press Box Floor - Carpet Glue,	Tan Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021705023-0004	Floor Paint	Homogeneous	HA: 2		an in 18
M-MG7-1-Paint	Lower Press Box Floor - Carpet Glue,	Gray/Green Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021705023-0004A	Floor Paint	Homogeneous	HA: 2		
M-MG7-2-Mastic	Lower Press Box Floor - Carpet Glue,	Tan Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021705023-0005	Floor Paint	Homogeneous	HA: 2		
M-MG7-2-Paint	Lower Press Box Floor - Carpet Glue.	Gray/Green Non-Fibrous		100% Non-fibrous (Other)	None Detected
021705023-0005A	Floor Paint	Homogeneous	HA: 2		
M-MG7-3-Mastic	Ref Room Floor - Carpet Glue, Floor	Tan Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021705023-0006	Paint	Homogeneous	HA: 3		
M-MG7-3-Paint	Ref Room Floor - Carpet Glue, Floor	Gray Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021705023-0006A	Paint	Homogeneous	HA: 3		
M-MG7-4-Mastic	Ref Room Floor - Carpet Glue, Floor	Tan/Orange Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021705023-0007	Paint	Homogeneous	HA: 3		
M-MG7-4-Paint	Ref Room Floor - Carpet Glue, Floor	Gray/Blue Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021705023-0007A	Paint	Homogeneous	HA: 3	den vitimen i	1 81 M
M-SC3-1	Press Box Exterior - Exterior Paint	Brown/Green Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021705023-0008		Homogeneous	HA: 4	10-11 (1990)	1 M
M-SC3-2	Press Box Steps - Exterior Paint	Brown/Green/Rust Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021705023-0009		Heterogeneous	HA: 4		
M-FC2-1	SW Mens Room - Floor Covering	Black/Green/Beige Non-Fibrous		65% Quartz 35% Non-fibrous (Other)	None Detected
021705023-0010		Homogeneous	HA: 5		
M-FC2-2	NE Mens Room -	Gray/Green/Beige	<1% Cellulose	70% Quartz 30% Non-fibrous (Other)	None Detected
021705023-0011	Floor Covering	Heterogeneous	HA: 5		
M-CA1-1	West Bleachers -	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
021705023-0012		Homogeneous	HA: 6		
M-CA1-2	West Bleachers -	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
021705023-0013	_npan_tri cont count	Homogeneous	HA: 6		

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			Non-Asbesto	<u>s</u>	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
M-CA1-3 021705023-0014	Maintenance Room - Window Frame Caulk	White/Beige Non-Fibrous Homogeneous	<1% Fibrous (Other)	100% Non-fibrous (Other)	None Detected
 M-CA1-4	NW Bathrooms -	Tan/M/hite	HA: 7	100% Non fibrous (Other)	Alexa Datastad
021705023-0015	Window Frame Caulk	Non-Fibrous	<1% Cendlose	Too % Non-horous (Other)	None Detected
		Heterogeneous	HA: 7		
M-CA1-5	SW Bathrooms - Window Frame Caulk	Beige Fibrous		95% Non-fibrous (Other)	5% Chrysotile
021705023-0016		Homogeneous	HA: 8		
M-CA1-6	North Locker Room -	Gray/Tan/Beige	<1% Cellulose	10% Ca Carbonate	3% Chrysotile
021705023-0017	Window Frame Cault	Homogeneous		87% Non-fibrous (Other)	
			HA: 8		-
M-CA1-7	NW Bathroom Roof - Column Flashing	Gray Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
021705023-0018	Caulk	Homogeneous	HA: 9		
M-CA1-8	NE Bathroom Roof -	Brown Non Fibrous	<1% Cellulose	100% Non-fibrous (Olher)	None Detected
021705023-0019	Caulk	Homogeneous	144-0		
 M-SC1-1	South Locker Room -	Gray	<1% Fibrous (Other)	100% Non-fibrous (Other)	None Detected
021705023-0020	Window Glazing	Non-Fibrous Homogeneous			
			HA: 10	444.2 AGE IT	
M-SC1-2	North Locker Room - Window Glazing	Tan/Beige Non-Fibrous	<1% Cellulose <1% Fibrous (Other)	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
		riomogeneous	HA: 10		
M-RF1-1	NE Bathrooms - Roof Flashing Tar	Black	8% Cellulose	92% Non-fibrous (Other)	None Detected
021705023-0022	r laoning rai	Homogeneous	san ber 11 e i		
M-RF1-2	NE Bathrooms - Roof	Brown/Black	10% Cellulose	90% Non-fibrous (Other)	None Detected
021705023-0023	Flashing Tar	Fibrous Homogeneous			
			HA: 11	Annual	
M-RF1-3	NW Bathrooms - Roof Flashing Tar	Brown/Gray/Black Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
521103023-0024		Homogeneous	HA: 11		
M-RF3-1-Shingle	NW Shed Roof - Roof	Brown/Black/Beige	5% Glass	95% Non-fibrous (Other)	None Detected
021705023-0025	Underlayment	Fibrous Homogeneous			
M-RE3-1-Felt	NW Shed Roof - Roof	Black	HA: 12	25% Non Shroup (Other)	News Detected
21705023-00254	Shingle, Felt	ningle, Felt Fibrous	Sons Cendlose		NOTE Defected
	ondenayment	nomogeneous	HA: 12		
M-RF3-2-Shingle	NW Shed Roof - Roof Shingle, Felt	Brown/Tan/Black Fibrous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
121705023-0026	Underlayment	Heterogeneous	HA: 12		

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			Non-Asbes	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
M-RF3-2-Felt	NW Shed Roof - Roof Shingle, Felt	Black Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected
021705023-0026A	Underlayment	Homogeneous	114.40		
	M-internet Death	Data internet	HA: 12		Nees Detected
M-RF3-3-Sningle	Roof Shingle, Felt	Fibrous	5% Glass	95% Non-fibrous (Other)	None Detected
021705023-0027	Underlayment	Homogeneous	HA: 13		
M-RF3-3-Felt	Maintenance Porch -	Black	65% Cellulose	35% Non-fibrous (Other)	None Detected
201705000 0007A	Roof Shingle, Felt	Fibrous			
021705023-0027A	Underlayment	Homogeneous	HA: 13		
M-RF3-4-Shinale	Maintenance Porch -	Black/Green	<1% Cellulose	95% Non-fibrous (Other)	None Detected
	Roof Shingle, Felt	Fibrous	5% Glass		
021705023-0028	Underlayment	Heterogeneous	HA: 13		
M-RE3-4-Felt	Maintenance Porch -	Black	70% Cellulose	30% Non-fibrous (Other)	None Detected
	Roof Shingle, Felt	Fibrous	1010 0010000		
021705023-0028A	Underlayment	Homogeneous	HA· 13		
 M_RE3_5	West Concession	Grav/Black	25% Cellulose	75% Non-fibrous (Other)	None Detected
W-10 5-5	Stand - Rolled Roof	Fibrous	2070 00000000	1070 Hon-Indious (Other)	Hone Deteoled
021705023-0029		Homogeneous			
	Fact Conservation	Oraci /Dia ali	HA: 14		Nees Detected
WI-RF3-0	Stand - Rolled Roof	Non-Fibrous	25% Cellulose	75% Non-fibrous (Other)	None Detected
021705023-0030		Homogeneous			
			HA: 14		the Alter Resident
M-RF3-7	West Concession Stand - Rolled Roof	Gray/White/Black	25% Cellulose	75% Non-fibrous (Other)	None Detected
021705023-0031		Heterogeneous			
the second start.		1.000 MIC.	HA: 14	the state of the second second	
M-RF5-1-Tar/Rock	West Store Room	Gray/Black	<1% Cellulose	100% Non-fibrous (Other)	None Detected
Layer	Roof Tar, Rock	Homogeneous			
021705023-0032					
		Diado	HA: 15		Nees Detected
IN-RF5-1-Layered lar/Fe	Roof - Felt Lavers.	Fibrous	<1% Synthetic	60% Non-fibrous (Other)	None Detected
number of the second	Roof Tar, Rock	Homogeneous			
021705023-0032A			HA [,] 15		
M-RF5-1-Felt	West Store Room	Black	65% Cellulose	35% Non-fibrous (Other)	None Detected
and and	Roof - Felt Layers,	Fibrous			
021705023-0032B	Roof Tar, Rock	Homogeneous	HA: 15		
M-RE5-2-Tar/Rock	West Store Room	Grav/Black		100% Non-fibrous (Other)	None Detected
Layer	Roof - Felt Layers,	Fibrous			
	Roof Tar, Rock	Homogeneous			
021705023-0033			HA: 15		
M-RF5-2-LayeredTar/Fe	West Store Room	Black	40% Cellulose	60% Non-fibrous (Other)	None Detected
lt	Roof - Felt Layers,	Fibrous			
021705023-0033A	ROOT Iar, Rock	Homogeneous			
			HA: 15		
M-RF5-2-Felt	West Store Room	Black	65% Cellulose	35% Non-fibrous (Other)	None Detected
021705023-0033B	Roof - Felt Layers, Roof Tar, Rock	Fibrous Homogeneous			



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			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
-	u	dan ser des d	HA: 15		- Water
M-RF5-3-Tar/Rock Layer	East Store Room Roof - Felt Layers, Roof Tar, Rock	Gray/Black Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021705023-0034	$\alpha = I$	Gur"	HA: 15	and the second	entre i de la contra
M-RF5-3-Layered Tar/Felt	East Store Room Roof - Felt Layers, Roof Tar, Rock	Black Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
021705023-0034A			HA: 15		
M-RF5-3-Felt	East Store Room Roof - Felt Layers, Roof Tar, Rock	Black Fibrous	70% Cellulose <1% Synthetic	30% Non-fibrous (Other)	None Detected
021703023-00345	Root lat, Rock	Homogeneous	HA: 15		
M-RF5-4-Roofing	SW Bathrooms - Rolled Roof, Seam	Gray/Black Fibrous	8% Synthetic 1% Glass	91% Non-fibrous (Other)	None Detected
021705023-0035	Tar, Fiber Fill	Homogeneous	HA: 16		
M-RF5-4-Tar	SW Bathrooms - Rolled Roof, Seam	Gray/Black Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected
021705023-0035A	Tar, Fiber Fill	Homogeneous	HA: 16		
M-RF5-4-Insulation	SW Bathrooms -	Brown	97% Cellulose	2% Perlite	None Detected
021705023-0035B	Tar, Fiber Fill	Homogeneous	HA: 16	1% Non-hbrous (Other)	
M-RF5-5-Roofing	SE Bathrooms - Rolled Roof, Seam Tar, Fiber Fill	Gray/Black Fibrous	8% Synthetic 2% Glass	90% Non-fibrous (Other)	None Detected
	idi, Hiber Hir	Homogeneous	HA: 16		
M-RF5-5-Tar	SE Balhrooms - Rolled Roof, Seam	Gray/Black Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected
021705023-0036A	Tar, Fiber Fill	Homogeneous	HA: 16		
M-RF5-5-Insulation	SE Bathrooms - Rolled Roof, Seam	Brown Fibrous	97% Cellulose	2% Perlite 1% Non-fibrous (Other)	None Detected
021705023-0036B	Tar, Fiber Fill	Homogeneous	HA: 16		
M-RF5-6-Roofing	NE Bathrooms - Rolled Roof, Seam	Gray/Black Fibrous	5% Synthetic 1% Glass	94% Non-fibrous (Other)	None Detected
021705023-0037	Tar, Fiber Fill	Homogeneous	HA: 16		
M-RF5-6-Tar	NE Bathrooms - Rolled Roof, Seam	Gray/Black Non-Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected
021705023-0037A	Tar, Fiber Fill	Homogeneous	HA: 16		
M-RF5-6-Insulation	NE Bathrooms - Rolled Roof, Seam	Brown Fibrous	97% Cellulose	2% Perlite 1% Non-fibrous (Other)	None Detected
021705023-0037B	Tar, Fiber Fill	Homogeneous	HA: 16		
M-RF5-7-Roofing	NW Bathrooms - Rolled Roof, Seam	White/Black Fibrous	1% Cellulose 5% Synthetic	94% Non-fibrous (Other)	None Detected
021705023-0038	Tar, Fiber Fill	Heterogeneous	HA: 16		
M-RF5-7-Tar	NW Bathrooms -	Brown/Black	1% Cellulose	98% Non-fibrous (Other)	None Detected
021705023-0038A	Tar, Fiber Fill	Homogeneous	1% Synthetic		

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			Non-Asi	bestos	Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
			HA: 16			
M-RF5-7-Insulation	NW Bathrooms -	Gray/Tan/White	95% Cellulose	4% Perlite	None Detected	
021705023.00388	Rolled Root, Seam	Fibrous		1% Non-fibrous (Other)		
027703023-00305	rar, riber rill	Homogeneous	HA: 16	and the state of the		
M-RF5-8	East Ticket Booth - Roof Sealant	Black/Silver Non-Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected	
021705023-0039		Homogeneous				
		10.00 M. P	HA: 17			
M-RF5-9	West Ticket Booth - Roof Sealant	Black/Silver Non-Fibrous	2% Cellulose	98% Non-fibrous (Other)	None Detected	
021705023-0040		Heterogeneous				
	1.781	in the local states in	HA: 17			
M-RF2-1	NE Temp Walk Roof - Roof Felt	Brown/Black Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected	
021705023-0041		Homogeneous				
	1		HA: 18		1	
M-RF2-2	NW Temp Walk Roof - Roof Felt	Brown/Black Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected	
021705023-0042		Homogeneous	he the set			
			MA: 18			

Analyst(s) Kristie Elikott (16) Scott Combs (27)			
Analyst(s) Kristie Elliott (46) Scott Combs (27)			
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Kristie Elliott (46) Stephen Bennett, Laboratory Manager Scott Combs (27) or Other Approved Signatory	Analyst(s)	Stiphen Ben	nett
	Kristie Elliott (46) Scott Combs (27)	Stephen Bennett, Laboratory or Other Approved Signa	Manager atory
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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0. CA ELAP 2689, Virginia 3333-000228. West Virginia LT000321

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OrderID: 021705023

EMED	Asbestos Cha EMSL Order Nur	nber (Lab Use Only):		
EMEL ANALYTICAL, INC.	(50	23)	PHON FA	E: X:
Company Name: Terro	C = 10	ENEL Customer ID	W/PCE 93	entities and the second and the second s
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Parad Ta Ala P 214		Telephone #: 7/2-62	-7-7000 Fax #: 970	2-629-7001
Report to (Name): [hilip	Fucera	Please Provide Result	is: Fax Email	
Email Address: MJ Kucera	@ Terracon. com	Purchase Order:	6	ES17722
U.S. State Samples Taken:	Stadium/ES17725	EMSL Project ID (Inter	nal Use Only):	
EMSL-B	II to: Same Different	If Bill to Is Different note Instru	nercial/ laxable Ke	sidential/Tax Exemp
	Third Party Billing requires w	ritten authorization from thin	d party	
	Turnaround Time (TA	F) Options* – Please Ch	eck	
For TEM Air 3 br through 6 br, please call a	24 Hour 48 Hour	72 Hour	96 Hour 1 Wee	k 2 Week
an authorization form for this service.	Analysis completed in accordan	nce with EMSL's Terms and Co	onditions located in the Anal	you will be asked to sign ytical Price Guide.
PCM - Air Check if samples are fr	om NY TEM - Air 4-	4.5hr TAT (AHERA only)	TEM- Dust	
NIOSH 7400	AHERA 40 C	FR, Part 763	Microvac - ASTM	D 5755
W/OSHA Bhr. TWA	NIOSH 7402		Wipe - ASTM D64	80
PLM_Bulk (reporting limit)	EPA Level II		Carpet Sonication	(EPA 600/J-93/167)
PLM EPA 600/R-93/116 (<1%)	SO 10312		Soil/Rock/Vermiculi	te*
PLM EPA NOB (<1%)	TEM - Bulk		PLM CARB 435 - ,	A (0.25% sensitivity)
		В	PLM CARB 435 - 1	B (0.1% sensitivity)
400 (<0.25%) 1000 (<0.1%)	NYS NOB 198	3.4 (non-friable-NY)	TEM CARB 435 - 1	B (0.1% sensitivity)
400 (<0.25%) 1000 (<0.1%)	Chatheld SOP	numin EDA 600 con 2 E	TEM CARB 435 - 1	C (0.01% sensitivity)
NYS 198 1 (friable in NY)	TEM Water EF	alysis-EFA 000 sec. 2.0	TEM Qual, via Filt	p-Mount Technique
NYS 198 6 NOB (non-friable NY)	Fibers >10um		Can not accept New York State	Loose Fill Vermiculite Samples
			<u>Other:</u>	
NIOSH 9002 (<1%)	All Fiber Sizes	Waste Drinking		
> For results > 4	70	T		
Check For Positive Stop - Clearly	Identify Homogenous Gr	oup Filter Pore Size (Air Samples): 0.8	µm 🛄 0.45µm
Samplers Name; The	1 Kucera	Samplers Signature:	like b	lucera
Sample #	Sample Descriptio	n	Volume/Area (Air) HA # (Bulk)	Date/ Fime Sampled
See (-	Hached	Table 1	<u> -</u>	8-11-17
	an a			
			 	
,				
Client Sample # (s):			Total # of Samples	42
Relinquished (Client): P Kur	cera Date:	8-11-17	Time	: 1600
Received (Lab):	Date	8114/17	Time	. 9pm
Comments/Special Instructions:			THIC	·
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TABLE 1 : ASBESTOS SAMPLE SUMMARY

Memorial Stadium

Savannah, Chatham County, Georgia

Terracon Project No. ES177225

42 Samples (Include Layers) Individual Laboratory Analyses						
Sample ID	НА	Туре	Material Sampled	Description	Room/Area	Asbestos Results
M-WB1-1	1	F	Wallboard, Tape, JC, Texture	White/Gray	Ref Room Ceiling	
M-WB1-2	1	F	Wallboard, Tape, JC, Texture	White/Gray	Ref Room Ceiling	
M-WB1-3	1	F	Wallboard, Tape, JC, Texture	White/Gray	Ref Room Ceiling	
M-MG7-1	2	NF	Carpet Glue, Floor Paint	Tan Glue, Gray Paint	Lower Press Box Floor	
M-MG7-2	2	NF	Carpet Glue, Floor Paint	Tan Glue, Gray Paint	Lower Press Box Floor	
M-MG7-3	3	NF	Carpet Glue, Floor Paint	Tan Glue, Gray Paint	Ref Room Floor	
M-MG7-4	3	NF	Carpet Glue, Floor Paint	Tan Glue, Gray Paint	Ref Room Floor	
M-SC3-1	4	NF	Exterior Paint	Green	Press Box Exterior	
M-SC3-2	4	NF	Exterior Paint	Green	Press Box Steps	
M-FC2-1	5	NF	Floor Covering	Beige	SW Mens Room	
M-FC2-2	5	NF	Floor Covering	Beige	NE Mens Room	
M-CA1-1	6	NF	Expansion Joint Caulk	Gray	West Bleachers	
M-CA1-2	6	NF	Expansion Joint Caulk	Gray	West Bleachers	
M-CA1-3	7	NF	Window Frame Caulk	White, Flexible	Maintenance Room	
M-CA1-4	7	NF	Window Frame Caulk	White, Flexible	NW Bathrooms	

HA = Homogenous Area

F = Friable (When dry, may be crumbled, pulverized, or reduced to powder by hand pressure.)

ND = None Detected

NF = Non-Friable

JC = Joint Compound

4

Memorial Stadium

Savannah, Chatham County, Georgia

Terracon Project No. ES177225

42 Samples (Include Layers) Individual Laboratory Analyses						
Sample ID HA Type		Туре	Material Sampled	Description	Room/Area	Asbestos Results
M-CA1-5	8	NF	Window Frame Caulk	White, Brittle	SW Bathrooms	
M-CA1-6	8	NF	Window Frame Caulk	White, Brittle	North Locker Room	
M-CA1-7	9	NF	Column Flashing Caulk	Brown	NW Bathroom Roof	
M-CA1-8	9	NF	Column Flashing Caulk	Brown	NE Bathroom Roof	
M-SC1-1	10	NF	Window Glazing	Gray	South Locker Room	
M-SC1-2	10	NF	Window Glazing	Gray	North Locker Room	
M-RF1-1	11	NF	Roof Flashing Tar	Black	NE Bathrooms	
M-RF1-2	11	NF	Roof Flashing Tar	Black	NE Bathrooms	
M-RF1-3	11	NF	Roof Flashing Tar	Black	NW Bathrooms	
M-RF3-1	12	NF	Roof Shingle, Felt Underlayment	Black	NW Shed Roof	
M-RF3-2	12	NF	Roof Shingle, Felt Underlayment	Black	NW Shed Roof	and the second
M-RF3-3	13	NF	Roof Shingle, Felt Underlayment	Black, Green	Maintenance Porch	
M-RF3-4	13	NF	Roof Shingle, Felt Underlayment	Black, Green	Maintenance Porch	
M-RF3-5	14	NF	Rolled Roof	Black, Gray	West Concession Stand	
M-RF3-6	14	NF	Rolled Roof	Black, Gray	East Concession Stand	
M-RF3-7	14	NF	Rolled Roof	Black, Gray	West Concession Stand	

HA = Homogenous Area

F = Friable (When dry, may be crumbled, pulverized, or reduced to powder by hand pressure.)

ND = None Detected

NF = Non-Friable

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Memorial Stadium

Savannah, Chatham County, Georgia

Terracon Project No. ES177225

42 Samples (Include Layers) Individual Laboratory Analyses						
Sample ID	НА	Туре	Material Sampled	Description	Room/Area	Asbestos Results
M-RF5-1	15	NF	Felt Layers, Roof Tar, Rock	Black	West Store Room Roof	
M-RF5-2	15	NF	Felt Layers, Roof Tar, Rock	Black	West Store Room Roof	
M-RF5-3	15	NF	Felt Layers, Roof Tar, Rock	Black	East Store Room Roof	
M-RF5-4	16	NF	Rolled Roof, Seam Tar, Fiber Fill	Black Roof, Brown Fiber	SW Bathrooms	
M-RF5-5	16	NF	Rolled Roof, Seam Tar, Fiber Fill	Black Roof, Brown Fiber	SE Bathrooms	
M-RF5-6	16	NF	Rolled Roof, Seam Tar, Fiber Fill	Black Roof, Brown Fiber	NE Bathrooms	
M-RF5-7	16	NF	Rolled Roof, Seam Tar, Fiber Fill	Black Roof, Brown Fiber	NW Bathrooms	
M-RF5-8	17	NF	Roof Sealant	Black, Gray	East Ticket Booth	
M-RF5-9	17	NF	Roof Sealant	Black, Gray	West Ticket Booth	
M-RF2-1	18	NF	Roof Felt	Black	NE Temp Walk Roof	
M-RF2-2	18	NF	Roof Felt	Black	NW Temp Walk Roof	

HA = Homogenous Area

F = Friable (When dry, may be crumbled, pulverized, or reduced to powder by hand pressure.)

ND = None Detected

NF = Non-Friable

4

APPENDIX D

Asbestos Inspector Certification

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1450 Fifth Street, West North Charleston, South Carolina 29405 843-277-8405

Philip Kucera

SSN xxx-xx-1233

This is to certify that the above named student has completed the requisite training for asbestos accreditation under Title II of Section 206 of the Toxic Substances Control Act (15 U.S.C.A. Section 2646) and has met the requirements of and passed the examination for:

AHERA Asbestos Inspector Refresher

Course Location:

July 12, 2017

Start Date:	July 12, 2017
Exam Date:	July 12, 2017
2-7	>

North Charleston, SC

Certificate Number:	20170712.301-15
End Date:	July 12, 2017
Expiration Date:	July 11, 2018

07/12/2017

Date

T.A. Rowland III, CIH - Principal Instructor/Training Administrator

LIMITED SITE INVESTIGATION

Memorial Stadium 101 John J. Scott Drive Savannah, Chatham County, Georgia

August 24, 2017 Terracon Project No. ES177225

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> Prepared for: Chatham County Department of Engineering Savannah, Georgia

> > Prepared by:

Terracon Consultants, Inc. Savannah, Georgia



August 24, 2017

Chatham County Department of Engineering P.O. Box 8161 Savannah, Georgia 31412

Attn: Ms. Parveez Yousuf, Senior Construction Project Manager E: pyousuf@chathamcounty.org

Re: Limited Site Investigation Memorial Stadium 101 John J. Scott Drive Savannah, Chatham County, Georgia Terracon Project No. ES177225

Dear Ms. Yousuf:

Terracon Consultants, Inc. (Terracon) has completed a Limited Site Investigation (LSI) for the above-referenced property. The purpose of the LSI was to assess soil and shallow groundwater conditions in the vicinity of two (2) former aboveground storage tanks (ASTs) used for the storage and distribution of petroleum products. This LSI was completed in accordance with Terracon Proposal No. PES177225, dated July 21, 2017.

We appreciate the opportunity to be of service to you on this project. If you have any questions regarding this report, please do not hesitate to contact us at your earliest convenience.

Sincerely, Terracon Consultants, Inc.

Courtney Hudson Field Scientist

William S. Anderson, III, P.E. Senior Principal / Office Manager

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Justin J. Johnson, PG Senior Geologist

Terracon Consultants, Inc. 2201 Rowland Avenue Savannah, Georgia 31404 P (912) 629 4000 F (912) 629 4001 terracon.com/savannah

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TABLE OF CONTENTS

Sectio	n			Pa	age No.
EXECU	ITIVE SU	IMMARY			i
1.0	INTROD 1.1 \$ 1.2 \$	Site Description Sicope of Work			1 1
2.0	FIELD A 2.1 4 2.2 5 2.3 5 2.4 4 2.5 6 2.6 6	ACTIVITIES Underground Utility Clearance Soil Boring Advancement Soil Sampling Hydrogeology Groundwater Sampling Bore Hole Abandonment	n vez me	996.c. 5.2000	1 1 2 2 3 3 3 3 3
3.0	DATA E 3.1 3 3.2 0	VALUATION Soil Analytical Results Groundwater Analytical Results			
4.0	CONCLU 4.1 (4.2 F	USIONS AND RECOMMENDATIONS Conclusions Recommendations			4 4
5.0	LIMITAT 5.1 \$ 5.2 /	FIONS Standard of Care Additional Scope Limitations Reliance			5 5 5
APPENDICES

APPENDIX A FIGURES Figure 1: Site Location / Vicinity Map Figure 2: Site Diagram Figure 3: Sample Location Map

APPENDIX B SOIL BORING LOGS

APPENDIX C LABORATORY ANALYTICAL DATA

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EXECUTIVE SUMMARY

This Limited Site Investigation (LSI) Report was completed to document recent subsurface investigation activities completed at the Memorial Stadium located at 101 John J. Scott Drive in Savannah, Chatham County, Georgia. The purpose of the LSI was to assess soil and shallow groundwater conditions in the vicinity of two (2) former aboveground storage tanks (ASTs) used for the storage and distribution of petroleum products. A brief summary of our activities and findings is provided below.

It should be recognized that details are not included or fully developed in this section, and **the report must be read in its entirety** for a comprehensive understanding of the items contained herein.

Soil Sampling

Terracon advanced four (4) soil borings (TW-1 through TW-4) in the vicinity of the former aboveground storage tanks (ASTs). Soil samples were collected from the ground surface to eight (8) feet below ground surface (bgs) and field-screened for volatile organic vapors with a Photolonization Detector (PID). One (1) soil sample was selected from each boring for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAHs). No BTEXs or PAHs constituents were detected above laboratory reporting limits in the four (4) soil samples submitted for analysis. However, the surface soil sample (0 – 1 ft bgs) collected from TW-3 exhibited an elevated PID reading and conspicuous odor.

Groundwater Sampling

Groundwater samples were collected from the four (4) borings using a stainless-steel Geoprobe[®] screen point sampler and analyzed for BTEX and PAHs. No BTEXs or PAHs constituents were detected at concentrations above the laboratory reporting limits in the four (4) groundwater samples submitted for analysis.

Conclusions and Recommendations

Terracon recommends the excavation and removal of impacted surface soil for off-site disposal as non-hazardous waste at a Subtitle D Landfill (e.g., Republic Services – Savannah Regional Industrial Landfill). The soil excavation should extend both horizontally and vertically until the odor is no longer present and PID readings are consistently below 10 ppm. Therefore, Terracon recommends that we oversee the excavation and monitor soil conditions with a PID. Based on the LSI findings, we estimate the extent of the excavation will be approximately 100 square feet around TW-3 to an approximate depth of 2 feet bgs. This would result in the disposal of approximately 10 tons of impacted soil. Prior to disposal, the laboratory results should be submitted to the selected landfill for the purpose of establishing a waste profile.

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NUTRAL STREET

LIMITED SITE INVESTIGATION

Memorial Stadium 101 John J. Scott Drive Savannah, Chatham County, Georgia

Terracon Project No. ES177225 August 24, 2017

1.0 INTRODUCTION

1.1 Site Description

This Limited Site Investigation (LSI) Report was completed to document recent subsurface investigation activities completed at Memorial Stadium located at 101 John J. Scott Drive in Savannah, Chatham County, Georgia (Parcel ID No. 2-0429-01-062). The site location is depicted on Figure 1 in Appendix A.

The purpose of the LSI was to assess soil and shallow groundwater conditions in the vicinity of two (2) former aboveground storage tanks (ASTs) used for the storage and distribution of petroleum products. The site configuration and former AST area are shown on Figure 2 in Appendix A. A brief summary of our activities and findings is provided below.

1.2 Scope of Work

The LSI included the completion of four (4) direct push borings (denoted as TW-1 through TW-4) in the vicinity of the ASTs. One (1) soil sample was collected from each boring for the purpose of laboratory analysis. Following the completion of soil sampling activities, one (1) groundwater sample was collected from each borehole for the purpose of laboratory analysis. The soil boring locations are shown on Figure 3 in Appendix A.

2.0 FIELD ACTIVITIES

2.1 Underground Utility Clearance

Prior to conducting the soil boring activities on-site, Terracon requested a utility locate through Georgia Utility Protection Center (Georgia 811) as required by the Georgia Utility Facility Protection Act (GUFPA). On July 31, 2017 Georgia 811 issued utility ticket #07317-220-088 to cover the LSI boring locations. Terracon verified that all affected members had responded to the locate request before initiating any subsurface activities.

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2.2 Soil Boring Advancement

Terracon personnel mobilized to the subject site on August 7, 2017 and advanced four (4) soil borings (denoted as TW-1 through TW-4) in the vicinity of the former ASTs. The boring locations were selected based on the subject site and surrounding area's topography, proximity to the former AST locations, and site conditions encountered during the field work.

Each boring location was initially advanced with a stainless steel hand auger to approximately 5 feet below ground surface (bgs) in order to verify underground utility clearance. Once cleared, the borings were advanced to an approximate depth of 8 feet bgs using a truck-mounted GeoProbe[®] 5411DT direct push rig.

Downhole equipment and sampling utensils were decontaminated in general accordance to ASTM D 5088 - 15 "Decontamination of Field Equipment Used at Waste Sites". The downhole sampling equipment was cleaned using Alconox soap and water before arrival at the site, before introduction into the subsurface, between each sampling, between each borehole location, and before leaving the site. New disposable gloves were also utilized between each sample to minimize the possibility of cross contamination.

2.3 Soil Sampling

While hand auguring to verify utility clearance, soil samples from ground surface to 5 feet bgs were generally collected from 1 to 2 foot intervals. From 5 feet to the total boring depth at each location, soils were retrieved by advancing a stainless steel sampling sleeve equipped with an inner 4-foot long, disposable sampling tube. Soil samples were generally collected at 2-foot intervals for screening purposes and further classification based on lithologic and/or saturated zone changes.

Soil samples were placed in a sealed container upon removal from the boring. The soils were visually classified in general accordance with ASTM D-2488 - 09a *"Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)"* and field-screened for volatile organic vapors with a MiniRae[™] 3000 Photo-Ionization Detector (PID) with a 10.6 eV lamp source. The soil sample exhibiting the highest PID reading above the saturated zone was selected from each soil boring and submitted for laboratory analysis.

The surface soil sample (0 - 1 ft bgs) collected from TW-3 exhibited an elevated PID reading and conspicuous odor. No other indications of impacts were observed during the field screening of the soil samples collected from the four (4) borings. Soil boring logs including PID readings are attached in Appendix B.

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Limited Site Investigation Memorial Stadium & Savannah, Chatham County, Georgia August 24, 2017 B Terracon Project No. ES177225

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Following collection, the soil samples were logged on the chain of custody and placed in an insulated cooler with ice. The cooler was sealed and hand delivered to Avery Laboratories and Environmental Services, LLC (NELAC No. E87941) in Savannah, Georgia. The four (4) soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEXs) by United States Environmental Protection Agency (USEPA) Method 8260B and polycyclic aromatic hydrocarbons (PAHs) by USEPA Method 8270.

2.4 Hydrogeology

The lithology of the subsurface soils encountered at the site generally consisted of 0 to 8 feet of silty sand. Saturated soil conditions were generally noted at approximately 5 feet bgs. Soil boring logs are provided in Appendix B.

2.5 Groundwater Sampling

Upon completion of the soil sampling activities, groundwater samples were collected from the four (4) soil borings using a stainless-steel Geoprobe[®] screen point sampler in general accordance with procedures described in the US EPA Region 4, Science and Ecosystem Support Division guidance document titled *Design and Installation of Monitoring Wells* (SESDGUID-101-R1, effective date January 29, 2013).

The screen points were developed with a GeoTech[®] peristaltic pump and new disposable Teflon tubing to restore the natural hydraulic conductivity of the surficial aquifer. Following the completion of development activities, the screen points were purged and sampled in general accordance with the low-flow sampling protocol *EPA Region 4, SESD Groundwater Sampling Operating Procedure (SESDPROC-301-R3), March 2013.* The pump intake (Teflon tubing) was maintained within the mid-point of the submerged screened interval during the purging and sampling of the wells. Field water quality parameters, including pH, specific conductance, temperature, oxidation reduction potential (ORP), and dissolved oxygen were monitored during the purging of the wells.

Following the stabilization of field parameters, laboratory-supplied containers were filled with groundwater. The groundwater samples were logged on the chain of custody and placed in an insulated cooler with ice. The cooler was sealed and hand delivered to Avery Laboratories and Environmental Services, LLC (NELAC No. E87941) in Savannah, Georgia. The four (4) groundwater samples were analyzed for BTEX by USEPA Method 8260B and PAHs by EPA Method 8270.

2.6 Bore Hole Abandonment

Following the completion of soil and groundwater sampling activities, each bore hole was abandoned in general accordance with the procedures described in the US EPA Region 4, Science and



Ecosystem Support Division guidance document titled *Design and Installation of Monitoring Wells* (*SESDGUID-101-R1, dated January 29, 2013*). The four (4) bore holes were backfilled from total depth to surface with bentonite.

3.0 DATA EVALUATION

3.1 Soil Analytical Results

No BTEX or PAHs were detected above laboratory reporting limits in the four (4) soil samples submitted for analysis. Copies of the laboratory data sheets are included in Appendix C.

3.2 Groundwater Analytical Results

No BTEX or PAHs were detected above laboratory reporting limits in the four (4) groundwater samples submitted for analysis. Copies of the laboratory data sheets are included in Appendix C.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

The historical operation of the ASTs did not result in detectable levels of BTEX or PAHs in the soil or shallow groundwater at the subject site. However, indications of surface soil impacts were noted in the vicinity of TW-3, including an elevated PID reading and conspicuous odor.

4.2 Recommendations

Terracon recommends the excavation and removal of impacted surface soil for off-site disposal as non-hazardous waste at a Subtitle D Landfill (e.g., Republic Services – Savannah Regional Industrial Landfill). The soil excavation should extend both horizontally and vertically until the odor is no longer present and PID readings are consistently below 10 ppm. Therefore, Terracon recommends that we oversee the excavation and monitor soil conditions with a PID. Based on the LSI findings, we estimate the extent of the excavation will be approximately 100 square feet around TW-3 to an approximate depth of 2 feet bgs. This would result in the disposal of approximately 10 tons of impacted soil. Prior to disposal, the laboratory results should be submitted to the selected landfill for the purpose of establishing a waste profile.

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Limited Site Investigation Memorial Stadium a Savannah, Chatham County, Georgia August 24, 2017 # Terracon Project No. ES177225

5.0 LIMITATIONS

5.1 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. Terracon makes no warranties, either express or implied, regarding the findings, conclusions or recommendations.

Please note that Terracon does not warrant the work of laboratories, regulatory agencies or other third parties supplying information used in the preparation of the report. These environmental services were performed in accordance with the scope of work agreed with you, our client, and were not bound by ASTM E1903-97.

5.2 Additional Scope Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information may be subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, non-detectable or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this investigation.

Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations or exploratory services. Sample locations and analytical test methods were limited. The data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the agreed upon scope of services. Neither a vapor encroachment assessment nor a methane gas assessment was proposed or conducted as part of this limited subsurface investigation.

5.3 Reliance

This report has been prepared for the exclusive use of Chatham County Department of Engineering (the Client). Any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Chatham County Department of Engineering and Terracon Consultants, Inc. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, this report, and the Agreement for Services between Terracon and Chatham County Department of Engineering.

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APPENDIX A

FIGURES







APPENDIX B

Soil Boring Logs

Memorial Stadium

101 John J. Scott Drive Savananh, Chatham County, Georgia Georgia USTMP Facility ID No.: N/A

TABLE 1: SUMMARY OF SOIL ANALYTICAL RESULTS

Sample ID	Depth (ft)	Date Sampled	Benzene (mg/kg)	Toluëne (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total PAHs (mg/kg)
TVV-1-5	5 - 6	8/7/2017	BRL	BRL	BRL	BRL	BRL
TW-2-4	4 - 5	8/7/2017	BRL	BRL	BRL	BRL	BRL
TVV-3-1	1 - 2	8/7/2017	BRL	BRL	BRL	BRL	BRL
TW-4-4	4 - 5	8/7/2017	BRL	BRL	BRL	BRL	BRL
	Applicable Standard	*	0.005	0.400	0.370	20.00	N/A

Prepared By: Justin Johnson, PG Reviewed By: Stewart Dixon, PG Date: 8/22/2017 Date: 8/23/2017

NOTES:

mg/kg = milligrams per kilogram, or parts per million (ppm)

* = Georgia UST Soil Thresholds for Average or Higher Groundwater Pollution Susceptibility Area

(based on the most stringent scenario of less than 500 ft to withdrawal point)

BRL = Below Reporing Limit

PAHs = Polycyclic aromatic hyrdorcarbons

N/A = No Applicable Standard

Memorial Stadium

101 John J. Scott Drive Savannah, Chatham County, Georgia Georgia USTMP Facility ID No.: N/A

TABLE 2: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total PAHs (µg/L)
TW-1	8/7/2017	BRL	BRL	BRL	BRL	BRL
TW-2	8/7/2017	BRL	BRL	BRL	BRL	BRL
TW-3	8/7/2017	BRL	BRL	BRL	BRL	BRL
TW-4	8/7/2017	BRL	BRL	BRL	BRL	BRL
Applicable	Standard *	5	1,000	700	10,000	N/A

Prepared By: Justin Johnson, PG Reviewed By: Stewart Dixon, PG Date: 8/22/2017 Date: 8/24/2017

NOTES:

µg/L = micrograms per liter, or parts per billion (ppb)

* = USEPA Maximum Contaminant Levels (MCLs) for Drinking Water

BRL = Below Reporting Limit

N/A = No Applicable Standard

PAHs = Polycyclic aromatic hyrdorcarbons

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Soil Boring Log

Project:	N	1emorial	Stadi	um LSI	Project Number:	ES177228	Boring/Well:	τv	N-1	
Data Ctat	tadi		Lotiture			Well Con	struction Data			
	.ed: 8/7	/17	Latitud	e: 31,9937		6 I.				
_ogged By	y: CE	Н	Longitu	ude: -81.078807	NOTES:					
Drilling Co	o.: Vei	°CO	Driller:	Jason Chiorazzi	*Soil sample sul	bmitted for a	nalysis.			
Method:	Direct	Push	Equipm	nent: Geoprobe 5411	No well was con	structed at t	his boring locat	ion.		
3oring De	pth (ft.):	0	Saturat	ted Zone: Date: 8/7/2017	Groundwater sa	mpled using	a stainless-stee	el screen poin	nt.	
3oring Dia	ameter (in)	5	Static V	Vater Level: Date:	Borehole aband	oned followi	ng sample colle	ction.		
_ U	U 2.2	25		4.50 0///2017						
Depth Sampl	Sampl ID	(mqq)	Litholog		Descri	otion			Danth	
				SILTY SAND (SM), dark br	own, fine grained		2			
	1	0.7							-	
	2	0.3		As above, light brown		i ii		-	-	
2	3	0.0		As above, dark brown				5	- 2	
	4	0.3		As above, light brown					_	
4	*5*	*0.5*							- 4	
6 -	6	0.3		As above, dark brown, sati	urated				- 6	
								-	_	
8 -			- Fili	Borehole terminated at 8 fe	eet				- 8	
			83							
				Terra 2201 Rowland Avenue, Sa Phone: 912-629-4000,	con avannah, Georgia 31404 Fax: 912-629-4001					

Terracon

Soil Boring Log

Proje	ct:	10201	ineni 1	89 T L	en en		Project Number: ES177	225 Borin	g/Well:	Т	W-2			
		Ν	lemorial	Stadi	um LSI		Well	Constructio	n Data					
Date	Starte	ed: 8/7	/17	Latituc	le: 31	.993747	1 th set it		(ce					
Logg	ed By	CE	EH	Longit	ude: -8	1.078781	NOTES:	1	da l	16.1				
Drillir	ng Co.	: Ve	rco	Driller:	Jaso	n Chiorazzi	*Soil sample submitted for	or analysis.	5.5					
Meth	od:	Direct	Push	Equipr	nent: Geo	probe 5411	No well was constructed at this boring location.							
Borin	g Dep	oth (ft.): 8	.0	Satura ⊈	ted Zone: 5.00	Date: 8/7/2017	Groundwater sampled us	ing a stainl	ess-steel	screen poi	nt.			
Borin	g Día	meter (in) 2.	: 25	Static	Water Level 5.00	Date: 8/7/2017	Borehole abandoned follo	owing samp	ole collec	tion.				
Depth	Sample	Sample ID	(mqq) QIq	-ithology	tour t		Description	{)}			Depth			
	X	1	0.0		SILTY SA	<u>ND</u> (SM), dark bi	rown, fine grained	201	, <i>p</i>	14	-			
-	\square	2	0.3		As above,	light brown		510	5					
2		3	0.3								- 2			
-	\square	*4*	*0.2*								-			
4	\square	5	0.0		As above,	light brown to d	ark brown, damp							
6		6	0.3		As above,	dark brown, sat	turated				- 6			
8					Borehole	erminated at 8 f	feet				8			
				÷	220	Terr 11 Rowland Avenue, S Phone: 912-629-400	acon Savannah, Georgia 31404 0, Fax: 912-629-4001							

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Soil Boring Log

Proje	ect:	Ν	A			R(1-1)	Project Number: ES1772	25 Boring/Wel	li;	-W-3
		1465	lemoria	Stad	ium LSI		Well C	onstruction Dat	а	
Date	Starte	ed: 8/7	?/17	Latitud	le: 31	1.993713	1.120 A			
Logg	ed By	': CI	EH	Longit	ude: -8	1.078735	NOTES:	2115		
Drillir	ng Co	.: Ve	rco	Driller	Jaso	n Chiorazzi	*Soil sample submitted for	analysis.	1.0	
Meth	od:	Direct	t Push	Equip	ment: Geol	probe 5411	No well was constructed at	t this boring loc	ation.	
Borin	ng Dep	oth (ft.): 5	.0	Satura 文	ited Zone: 5.00	Date: 8/7/2017	Groundwater sampled usin	ng a stainless-st	teel screen poi	nt.
Borin	ig Dia	meter (in) 2.	: 25	Static ⊈	Water Level 4.50	Date: 8/7/2017	Borehole abandoned follow	ving sample col	llection.	
Depth	Sample	Sample ID	(mdd) Old	Lithology	cap unoi		Description	: : :		Depth
	\mathbf{X}	*1*	*214*		SILTY SAM	<u>VD</u> (SM), light br	own, fine grained, odor	1 × 3		-
_	\square	2	75.8		As above,	dark brown				-
2	X	3	4.8		As above,	light brown				2
-	\mathbf{X}	4	5.2		As above,	damp				-
4	\square	5	7.5		As above,	dark brown, sat	urated			4 _ <u>1</u>
_					Borehole t	erminated at 5 fe	eet			<u> </u>
					2201 F	Terra I Rowland Avenue, Sa Phone: 912-629-4000	con avannah. Georgia 31404 . Fax: 912-629-4001			-

Terracon

Soil Boring Log

Project:	M	emorial	Stadium	LSI		Project Number: ES177225	Boring/Well:	TW-4			
Date Start	ed:		Latitude:			Well Cons	truction Data				
Logged By	8/7 <i>1′</i> /:	17	Longitude:	31	.993671	NOTES:					
Drilling Co	CEI	H	Driller:	-81	.078748	*Soil sample submitted for ana	lysis.				
Method:	Verd		Equipment	Jasoi	n Chiorazzi	No well was constructed at this	s boring location.				
Boring Dep	oth (ft.):	Push	Saturated 2	Geor Zone:	Date:	Groundwater sampled using a stainless-steel screen point.					
Boring Dia	meter (in):	, 	Static Wate	er Level:	Date:	Borehole abandoned following	sample collection.				
)epth ample		DID (mdd	hology	4.00	8/1/2017	Description		Depth			
	ഗ് 1	0.0	II SII	LTY SAN	<u>₩D</u> (SM), líght br	own, fine grained					
	2	0.0	Ās	above,	light brown to d	ark brown					
	3	0.2									
	4	*0.3*	As	s above, light brown, damp							
	5	0.1	As	above,	dark brown, sat	turated					
				220	Terr 1 Rowland Avenue, S Phone: 912-629-400	acon Savannah, Georgia 31404 0, Fax: 912-629-4001					

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APPENDIX C

Laboratory Analytical Data

	1		Serial Number:
Avery Loboratories & Environmental Services, LLC	Ship To: 2720 Greg T 912 9	gory St. , Unit 200 Savannah, Ga. 31404 944-3748 F 912 234-9294	76913 LAB NUMBER
	email	: pgrimm@averylab.com	17080802
Client Information	Page of	Project Name: Memorial Studium	Subcontract Laboratory
Customer: Triviaron Consultants	Sampler: CEH	Project Number: ES177275 State where work originated:	Name / Address/ Phone
City/State/Zin: Sectored L.N. 771110	24 Bours		2
Contact: 1050 tobasion	48 Hours		A
Phone: 912-629-4000	72 Hours		
Email: Offeriaron. Com	5 Working Days		
Purchase Order #: P5 7722-3	7 Working Days		P
TUSTA John Son	Other:		
Sample Identification	Date Time Matrix # of Container	13	Remarks
TW-1-5	81711711:00 5 5	XX	1.1.2
TW-1	\$7171110 W 5		
TIA- 7-4	×1017		
	01/11/11/20 3 3		
111.7	8711/12:15 N 5		
TW-3-1	8/7/17/13:00 5 5		
TW-Z	×12/17/3:10 2 5		
TW-4-4	\$17117 13:50 S 5		
TW-4	87117 1440 W 5	XX	
	<u> </u>		
Matrix Type: A - Air W = Water S= Solid	N = Nonaqueous (solvent, acid, etc.)	Preservative: 1= None 2 = H2SO4 3 = HN03 4 = HCL 5 = MeOH 8 = Sodium Bisulfate 9 = Other	6 = NAHSO4 7 = Water
Instructions or Special Requirements:	5 9 7 8 C V		
Temperature: 15:102 with	Custody Seals: Yes No	Custody Seals Intact: Ves No	
Relinquished by: Winthey Man	Date/Time: 8/2/1 > 15:20	Received by:	Date/Time: 3/1/17 1520
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time;	Received by:	Date/Time:

RP17082102

LABORATORY ANALYSIS REPORT

Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

📾 2720 Gregory St. Unit 200 🗟 Savannah, Georgia 31404 📓 Tel: (912) 944-3748 🗟 Fax: (912) 234-9294 📓

Client Project ID : Memorial Stadium

Report To : Client Name: Terracon Client Address: 2201 Rowland Ave. City, State, Zip: Savannah, GA, 31404 Attn: Justin Johnson P.O.#.:

Dear Justin Johnson

The following test results meet all NELAC requirements for analytes for which certification is available. Any deviations from these quality systems will be noted in this case narrative. All analyses performed by Avery Laboratories & Environmental Services, LLC unless noted. Parameters not performed by Avery Laboratories will be listed in the case narrative section of this report.

This report shall not be reproduced, except in its entirety, without the written approval of Avery Laboratories. The test results in this report relate only to the samples analyzed.

For questions regarding this report, contact Robert Paul Grimm at (912)944-3748.

Sincerely,

Robert Paul Grimm, Technical Director pgrimm@averylab.com



This Laboratory is NELAP accredited.

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

Date: 08/21/2017 15:47

Primary Accreditation State and Number: Florida E87941

Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

2720 Gregory St. Unit 200 Savannah, Georgia 31404 Tel: (912) 944-3748 Fax: (912) 234-9294

Client Name Project ID:	e: Terracon Memorial Stadium						Attn: Justin Johnson Date: 08/21/2017	Ciefy Présig
Job ID : Client Samp Job Sample Other Infor	17080802 ole ID: TW-1-5 1D: 17080802.01 mation:	nigen 18 - 18 Tanati				Sample Matr Date Collect Time Collect	ix: Soil ed: 08/07/2017 ed: 11:00	
Test Metho	d Parameter		Result	Units	DF	RL	Q Date/Time Analyzed	Analyst
SM2540b	% Moisture							6.000
	% Moisture		15.3	%	1		08/10/2017 12:00	EB
SW-846 8	260B Volatile Organic	Compound	s-Soil					
94 I.C	Benzene		BRL	mg/kg dw	1.81	0.0110	08/14/2017 18:37	RPG
10 i i i i	Ethylbenzene		BRL	mg/kg dw	1.81	0.0110	08/14/2017 18:37	RPG
0.4 no	Toluene		BRL	mg/kg dw	1,81	0.0110	08/14/2017 18:37	RPG
93) - Di	xylene-o		BRL	mg/kg dw	1.81	0.0110	08/14/2017 18:37	RPG
$\gamma p = -0$	xylenes (m&P)		BRL	mg/kg dw	1.81	0.0210	08/14/2017 18:37	RPG
1	Dibromofluoromethane(surr)		86.2	%	1.81	61.2-143	08/14/2017 18:37	RPG
	p-Bromofluorobenzene(surr)		123.0	%	1.81	69.4-143	08/14/2017 18:37	RPG
	Toluene-d8(surr)		98.3	%	1.81	62.3-146	08/14/2017 18:37	RPG
SW-846 8	270D Semivolatile Org	anic Comp	ounds - S	Soils				
	1-Methylnaphthalene		BRL	mg/kg dw	0.990	0.389	08/20/2017 16:51	RPG
	2-Methylnaphthalene		BRL	mg/kg dw	0.990	0.389	08/20/2017 16:51	RPG
	Acenaphthene		BRL	mg/kg dw	0.990	0.389	08/20/2017 16:51	RPG
	Acenaphthylene		BRL	mg/kg dw	0.990	0.389	08/20/2017 16:51	RPG
	Anthracene		BRL	mg/kg dw	0.990	0.389	08/20/2017 16:51	RPG
	Benzo(a)anthracene		BRL	mg/kg dw	0.990	0.389	08/20/2017 16:51	RPG
	Benzo(a)pyrene		BRL	mg/kg dw	0.990	0.389	08/20/2017 16:51	RPG
	Benzo(b)fluoranthene		BRL	mg/kg dw	0.990	0.389	08/20/2017 16:51	RPG
	Benzo(g,h,i)perylene		BRL	mg/kg dw	0.990	0.389	08/20/2017 16:51	RPG
	Benzo(k)fluoranthene		BRL	mg/kg dw	0.990	0.389	08/20/2017 16:51	RPG
	Chrysene		BRL	mg/kg dw	0.990	0.389	08/20/2017 16:51	RPG
	Dibenzo(a,h)anthracene		BRL	mg/kg dw	0.990	0.389	08/20/2017 16:51	RPG
	Fluoranthene		BRL	mg/kg dw	0.990	0.389	08/20/2017 16:51	RPG
	Fluorene		BRL	mg/kg dw	0.990	0.389	08/20/2017 16:51	RPG
	Indeno(1,2,3-cd)pyrene		BRL	mg/kg dw	0.990	0.389	08/20/2017 16:51	RPG
	Naphthalene		BRL	mg/kg dw	0.990	0.389	08/20/2017 16:51	RPG

Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

🔤 2720 Gregory St. Unit 200 🔤 Savannah, Georgia 31404 🔳 Tel: (912) 944-3748 🔤 Fax: (912) 234-9294 🖼

Client Name: Terracon						Attn:	Justin Johnson	Mail
Project ID: Memorial Stadium						Date:	08/21/2017	Period .
Job ID : 17080802					Sample Ma	trix:	Soil	
Client Sample ID: TW-1-5					Date Collec	ted:	08/07/2017	
Job Sample ID: 17080802.01					Time Collec	cted:	11:00	
Other Information:								
Test Method Parameter	1971 (S	Result	Units	DF	RL	Q	Date/Time Analyzed	Analyst
SW-846 8270D Semivolatile Org	anic Com	pounds - Soils						ê tire.
Phenanthrene		BRL	mg/kg dw	0.990	0.389		08/20/2017 16:51	RPG
Pyrene		BRL	mg/kg dw	0.990	0.389		08/20/2017 16:51	RPG
2,4,6-Tribromophenol(surr)		83.3	%	0.990	49.3-138		08/20/2017 16:51	RPG
2-Fluorobiphenyl(surr)		68.8	%	0.990	41.4-111		08/20/2017 16:51	RPG
2-Fluorophenol(surr)		63.6	%	0.990	37.1-101		08/20/2017 16:51	RPG
Nitrobenzene-d5(surr)		77.4	%	0.990	35.2-104		08/20/2017 16:51	RPG
Phenol-d5(surr)		58.1	%	0.990	36.1-96.7		08/20/2017 16:51	RPG
p-Terphenyl-d14(surr)		106	%	0.990	54.9-118		08/20/2017 16:51	RPG

Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

■ 2720 Gregory St. Unit 200 Savannah, Georgia 31404 Tel: (912) 944-3748 Fax: (912) 234-9294

Client Name: Terracon Project ID: Memorial Stadium					Attn: Justin Johnson Date: 08/21/2017	
Job ID :17080802Client Sample ID:TW-1Job Sample ID:17080802.02Other Information:				Sample Matr Date Collect Time Collect	ix: Aqueous ed: 08/07/2017 ed: 11:10	
Test Method Parameter	Result	Units	DF	RL	Q Date/Time Analyzed	Analyst
SW-846 8260B Volatile Organic Compoun	ds-Aqueous	Iliden hi	a altau			n wej
Benzene	BRL	ug/L	1	1	08/15/2017 17:40	RPG
Ethylbenzene	BRL	ug/L	1	1	08/15/2017 17:40	RPG
Toluene	BRL	ug/L	1	1	08/15/2017 17:40	RPG
xylene-o	BRL	ug/L	1	1	08/15/2017 17:40	RPG
xylenes (m&P)	BRL	ug/L	1	2.00	08/15/2017 17:40	RPG
Dibromofluoromethane(surr)	93.0	%	1	56.9-151	08/15/2017 17:40	RPG
p-Bromofluorobenzene(surr)	129.0	%	1	84.4-152	08/15/2017 17:40	RPG
Toluene-d8(surr)	105.0	%	1	77.8-140	08/15/2017 17:40	RPG
SW-846 8270D Semivolatile Organic Com	pounds-Aqueo	ous				
1-Methylnaphthalene	BRL	ug/L	1	10	08/15/2017 14:04	RPG
2-Methylnaphthalene	BRL	ug/L	1	10	08/15/2017 14:04	RPG
Acenaphthene	BRL	ug/L	1	10	08/15/2017 14:04	RPG
Acenaphthylene	BRL	ug/L	1	10	08/15/2017 14:04	RPG
Anthracene	BRL	ug/L	1	10	08/15/2017 14:04	RPG
Benzo(a)anthracene	BRL	ug/L	1	10	08/15/2017 14:04	RPG
Benzo(a)pyrene	BRL	ug/L	1	10	08/15/2017 14:04	RPG
Benzo(b)fluoranthene	BRL	ug/L	1	10	08/15/2017 14:04	RPG
Benzo(g,h,i)perylene	BRL	ug/L	1	10	08/15/2017 14:04	RPG
Benzo(k)fluoranthene	BRL	ug/L	1	10	08/15/2017 14:04	RPG
Chrysene	BRL	ug/L	1	10	08/15/2017 14:04	RPG
Dibenzo(a,h)anthracene	BRL	ug/L	1	10	08/15/2017 14:04	RPG
Fluoranthene	BRL	ug/L	1	10	08/15/2017 14:04	RPG
Fluorene	BRL	ug/L	1	10	08/15/2017 14:04	RPG
Indeno(1,2,3-cd)pyrene	BRL	ug/L	1	10	08/15/2017 14:04	RPG
Naphthalene	BRL	ug/L	1	10	08/15/2017 14:04	RPG
Phenanthrene	BRL	ug/L	1	10	08/15/2017 14:04	RPG
Pyrene	BRL	ug/L	1	10	08/15/2017 14:04	RPG

Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

🔤 2720 Gregory St. Unit 200 🖻 Savannah, Georgia 31404 📓 Tel: (912) 944-3748 🗟 Fax: (912) 234-9294 🗟

Client Name: Terracon							Attn:	Justin Johnson	
Project ID: Memorial Stadium	1.2		đ.				Date:	08/21/2017	Pediat
Job ID : 17080802						Sample Mat	rix:	Aqueous	
Client Sample ID: TW-1						Date Collect	ed:	08/07/2017	
Job Sample ID: 17080802.02						Time Collec	ted:	11:10	
Other Information:									
Test Method Parameter		Result	N. P. Link	Units	DF	RL	Q	Date/Time Analyzed	Analyst
SW-846 8270D Semivolatile Org	anic Comp	ounds-Aq	ueous						
2,4,6-Tribromophenol(surr)		54.8		%	1	45.2-132		08/15/2017 14:04	RPG
2-Fluorobiphenyl(surr)		40.1		%	1	42.8-106	S	08/15/2017 14:04	RPG
2-Fluorophenol(surr)		31.3		%	1	14.1-74.7		08/15/2017 14:04	RPG
Nitrobenzene-d5(surr)		39.9		%	1	38.3-101		08/15/2017 14:04	RPG
Phenol-d5(surr)		26.7		%	1	7.07-52.7		08/15/2017 14:04	RPG
p-Terphenyl-d14(surr)		49.5		%	1	28.6-126		08/15/2017 14:04	RPG

Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

🔤 2720 Gregory St. Unit 200 🔤 Savannah, Georgia 31404 🗟 Tel: (912) 944-3748 🔤 Fax: (912) 234-9294 📓

Client Name Project ID:	e: Terracon Memorial Stadium					Na manana	Attn:	Justin Johnson	i verij Ierijat
Job ID : Client Samp Job Sample Other Infor	17080802 ble ID: TW-2-4 e ID: 17080802.03 mation:	(* 6. j. 2 1* 2. j. 4 1. j. 50				Soil 08/07/2017 11:50			
Test Metho	d Parameter	32	Result	Units	DF	RL	Q	Date/Time Analyzed	Analyst
SM2540b	% Moisture			zh p					
P	% Moisture		19.7	%	1			08/10/2017 12:00	EB
SW-846 8	260B Volatile Organic	Compound	ls-Soil						
5.5	Benzene		BRL	mg/kg dw	0.945	0.00600		08/14/2017 19:02	RPG
	Ethylbenzene		BRL	mg/kg dw	0.945	0.00600		08/14/2017 19:02	RPG
2.1	Toluene		BRL	mg/kg dw	0.945	0.00600		08/14/2017 19:02	RPG
a	xylene-o		BRL	mg/kg dw	0.945	0.00600		08/14/2017 19:02	RPG
87 - Li	xylenes (m&P)		BRL	mg/kg dw	0,945	0.0120		08/14/2017 19:02	RPG
19 I.	Dibromofluoromethane(surr)		86.8	%	0.945	61.2-143		08/14/2017 19:02	RPG
	p-Bromofluorobenzene(surr)		127.0	%	0.945	69.4-143		08/14/2017 19:02	RPG
	Toluene-d8(surr)		99.5	%	0.945	62.3-146		08/14/2017 19:02	RPG
SW-846 8	270D Semivolatile Org	ganic Comp	ounds - Soils						
	1-Methylnaphthalene		BRL	mg/kg dw	0.982	0.407		08/20/2017 17:17	RPG
	2-Methylnaphthalene		BRL	mg/kg dw	0.982	0.407		08/20/2017 17:17	RPG
	Acenaphthene		BRL	mg/kg dw	0.982	0,407		08/20/2017 17:17	RPG
	Acenaphthylene		BRL	mg/kg dw	0.982	0.407		08/20/2017 17:17	RPG
	Anthracene		BRL	mg/kg dw	0.982	0.407		08/20/2017 17:17	RPG
	Benzo(a)anthracene		BRL	mg/kg dw	0.982	0.407		08/20/2017 17:17	RPG
	Benzo(a)pyrene		BRL	mg/kg dw	0.982	0.407		08/20/2017 17:17	RPG
	Benzo(b)fluoranthene		BRL	mg/kg dw	0.982	0.407		08/20/2017 17:17	RPG
	Benzo(g,h,i)perylene		BRL	mg/kg dw	0.982	0,407		08/20/2017 17:17	RPG
	Benzo(k)fluoranthene		BRL	mg/kg dw	0.982	0.407		08/20/2017 17:17	RPG
	Chrysene		BRL	mg/kg dw	0.982	0.407		08/20/2017 17:17	RPG
	Dibenzo(a,h)anthracene		BRL	mg/kg dw	0.982	0.407		08/20/2017 17:17	RPG
	Fluoranthene		BRL	mg/kg dw	0.982	0.407		08/20/2017 17:17	RPG
	Fluorene		BRL	mg/kg dw	0.982	0.407		08/20/2017 17:17	RPG
	Indeno(1,2,3-cd)pyrene		BRL	mg/kg dw	0.982	0.407		08/20/2017 17:17	RPG
	Naphthalene		BRL	mg/kg dw	0.982	0.407		08/20/2017 17:17	RPG

Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

🔤 2720 Gregory St. Unit 200 🖾 Savannah, Georgia 31404 📓 Tel: (912) 944-3748 🖾 Fax: (912) 234-9294 📓

Client Name: Terracon	· · · · · ·				Attn:	Justin Johnson	Sec.
Project ID: Memorial Stadium					Date:	08/21/2017	allow .
Job ID : 17080802				Sample Ma	trix:	Soil	
Client Sample ID: TW-2-4				Date Collec	ted:	08/07/2017	
Job Sample ID: 17080802.03				Time Collec	cted:	11:50	
Other Information:							
Test Method Parameter	Result	Units	DF	RL	Q	Date/Time Analyzed	Analyst
SW-846 8270D Semivolatile Organic Con	npounds - Soil	s					81962
Phenanthrene	BRL.	mg/kg dw	0.982	0.407		08/20/2017 17:17	RPG
Pyrene	BRL	mg/kg dw	0.982	0.407		08/20/2017 17:17	RPG
2,4,6-Tribromophenol(surr)	94.4	%	0.982	49.3-138		08/20/2017 17:17	RPG
2-Fluorobiphenyl(surr)	76	%	0.982	41.4-111		08/20/2017 17:17	RPG
2-Fluorophenol(surr)	76.5	%	0,982	37.1-101		08/20/2017 17:17	RPG
Nitrobenzene-d5(surr)	84.7	%	0,982	35.2-104		08/20/2017 17:17	RPG
Phenol-d5(surr)	81.6	%	0.982	36.1-96.7		08/20/2017 17:17	RPG
p-Terphenyl-d14(surr)	97.7	%	0.982	54.9~118		08/20/2017 17:17	RPG

Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

🖾 2720 Gregory St. Unit 200 🖾 Savannah, Georgia 31404 📓 Tel: (912) 944-3748 🗟 Fax: (912) 234-9294 🗟

Client Name: Terracon Project ID: Memorial Stadium					Attn: Date:	Justin Johnson 08/21/2017	talon talon
Job ID :17080802Client Sample ID:TW-2Job Sample ID:17080802.04Other Information:				Sample Ma Date Collec Time Collec	atrix: cted: cted:	Aqueous 08/07/2017 12:15	
Test Method Parameter	Result	Units	DF	RL	Q	Date/Time Analyzed	Analyst
SW-846 8260B Volatile Organic Compoun	nds-Aqueous	2-03					511 84
Benzene	BRL	ug/L	1	1		08/15/2017 18:04	RPG
Ethylbenzene	BRL	ug/L	1	1		08/15/2017 18:04	RPG
Toluene	BRL	ug/L	1	1		08/15/2017 18:04	RPG
xylene-o	BRL	ug/L	1	1		08/15/2017 18:04	RPG
xylenes (m&P)	BRL	ug/L	1	2.00		08/15/2017 18:04	RPG
Dibromofluoromethane(surr)	91.6	%	1	56,9-151		08/15/2017 18:04	RPG
p-Bromofluorobenzene(surr)	131.0	%	1	84.4-152		08/15/2017 18:04	RPG
Toluene-d8(surr)	105.0	%	1	77.8-140		08/15/2017 18:04	RPG
SW-846 8270D Semivolatile Organic Com	ipounds-Aqu	eous					
1-Methylnaphthalene	BRL	ug/L	1	10		08/15/2017 14:57	RPG
2-Methylnaphthalene	BRL	ug/L	1	10		08/15/2017 14:57	RPG
Acenaphthene	BRL	ug/L	1	10		08/15/2017 14:57	RPG
Acenaphthylene	BRL	ug/L	1	10		08/15/2017 14:57	RPG
Anthracene	BRL	ug/L	1	10		08/15/2017 14:57	RPG
Benzo(a)anthracene	BRL	ug/L	1	10		08/15/2017 14:57	RPG
Benzo(a)pyrene	BRL	ug/L	1	10		08/15/2017 14:57	RPG
Benzo(b)fluoranthene	BRL	ug/L	1	10		08/15/2017 14:57	RPG
Benzo(g,h,i)perylene	BRL	ug/L	1	10		08/15/2017 14:57	RPG
Benzo(k)fluoranthene	BRL	ug/L	1	10		08/15/2017 14:57	RPG
Chrysene	BRL	ug/L	1	10		08/15/2017 14:57	RPG
Dibenzo(a,h)anthracene	BRL	ug/L	1	10		08/15/2017 14:57	RPG
Fluoranthene	BRL	ug/L	1	10		08/15/2017 14:57	RPG
Fluorene	BRL	ug/L	1	10		08/15/2017 14:57	RPG
Indeno(1,2,3-cd)pyrene	BRL	ug/L	1	10		08/15/2017 14:57	RPG
Naphthalene	BRL	ug/L	1	10		08/15/2017 14:57	RPG
Phenanthrene	BRL	ug/L	1	10		08/15/2017 14:57	RPG
Pyrene	BRL	ug/L	1	10		08/15/2017 14:57	RPG

Job ID: 17080802

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Client Name: Terracon					Attn:	Justin Johnson	A magn
Project ID: Memorial Stadium					Date:	08/21/2017	0000
Job ID : 17080802					Sample Matrix:	Aqueous	
Client Sample ID: TW-2					Date Collected:	08/07/2017	
Job Sample ID: 17080802.04					Time Collected:	12:15	
Other Information:							
Test Method Parameter	15	Result	Units	DF	RL Q	Date/Time Analyzed	Analyst
SW-846 8270D Semivolatile Orga	anic Comp	oounds-Aq	ueous				101 202
2,4,6-Tribromophenol(surr)		76.4	%	1	45.2-132	08/15/2017 14:57	RPG
2-Fluorobiphenyl(surr)		54.1	%	1	42.8-106	08/15/2017 14:57	RPG
2-Fluorophenol(surr)		48.7	%	1	14.1-74.7	08/15/2017 14:57	RPG
Nitrobenzene-d5(surr)		60.3	%	1	38.3-101	08/15/2017 14:57	RPG
Phenol-d5(surr)		40.3	%	1	7.07-52.7	08/15/2017 14:57	RPG
p-Terphenyl-d14(surr)		62.5	%	1	28.6-126	08/15/2017 14:57	RPG

Job ID: 17080802

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Client Name Project ID:	e: Terracon Memorial Stadium							Attn: Date:	Justin Johnson 08/21/2017	tanes) tastant
Job ID : Client Samj Job Sample Other Infor	17080802 ple ID: TW-3-1 2 ID: 17080802.05 rmation:						Sample Mat Date Collect Time Collect	rix: ted: ted:	Soil 08/07/2017 13:00	
Test Metho	d Parameter		Result	2.14 AN	Units	DF	RL	Q	Date/Time Analyzed	Analyst
SM2540b	% Moisture				the	Sectors	านเรียงเรา	n stini		18. 195
97 L.	% Moisture		7.37		%	1			08/10/2017 12:00	EB
SW-846 8	260B Volatile Organic C	ompounds	-Soil							
21 E	Benzene		BRL		mg/kg dw	1.08	0.00600		08/14/2017 15:53	RPG
fier a	Ethylbenzene		BRL		mg/kg dw	1.08	0.00600		08/14/2017 15:53	RPG
105 0	Toluene		BRL		mg/kg dw	1.08	0.00600		08/14/2017 15:53	RPG
116 11	xylene-o		BRL		mg/kg dw	1.08	0.00600		08/14/2017 15:53	RPG
(***) (***	xylenes (m&P)		BRL		mg/kg dw	1.08	0.0120		08/14/2017 15:53	RPG
214	Dibromofluoromethane(surr)		96.3		%	1.08	61.2-143		08/14/2017 15:53	RPG
	p-Bromofluorobenzene(surr)		183.0		%	1.08	69.4-143	S	08/14/2017 15:53	RPG
5	Toluene-d8(surr)		83.3		%	1.08	62.3-146		08/14/2017 15:53	RPG
SW-846 8	270D Semivolatile Orga	nic Compo	unds - :	Soils						
	1-Methylnaphthalene		BRL		mg/kg dw	0.987	0.355		08/20/2017 17:43	RPG
	2-Methylnaphthalene		BRL		mg/kg dw	0.987	0.355		08/20/2017 17:43	RPG
	Acenaphthene		BRL		mg/kg dw	0.987	0.355		08/20/2017 17:43	RPG
	Acenaphthylene		BRL		mg/kg dw	0.987	0.355		08/20/2017 17:43	RPG
	Anthracene		BRL		mg/kg dw	0.987	0.355		08/20/2017 17:43	RPG
	Benzo(a)anthracene		BRL		mg/kg dw	0.987	0.355		08/20/2017 17:43	RPG
	Benzo(a)pyrene		BRL		mg/kg dw	0.987	0.355		08/20/2017 17:43	RPG
	Benzo(b)fluoranthene		BRL		mg/kg dw	0,987	0.355		08/20/2017 17:43	RPG
	Benzo(g,h,i)perylene		BRL		mg/kg dw	0.987	0.355		08/20/2017 17:43	RPG
	Benzo(k)fluoranthene		BRL		mg/kg dw	0.987	0.355		08/20/2017 17:43	RPG
	Chrysene		BRL		mg/kg dw	0.987	0.355		08/20/2017 17:43	RPG
	Dibenzo(a,h)anthracene		BRL		mg/kg dw	0.987	0.355		08/20/2017 17:43	RPG
	Fluoranthene		BRL		mg/kg dw	0.987	0.355		08/20/2017 17:43	RPG
	Fluorene		BRL		mg/kg dw	0.987	0.355		08/20/2017 17:43	RPG
	Indeno(1,2,3-cd)pyrene		BRL		mg/kg dw	0,987	0.355		08/20/2017 17:43	RPG
	Naphthalene		BRL		mg/kg dw	0.987	0.355		08/20/2017 17:43	RPG

Job ID: 17080802

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Client Name:	Terracon						Attn:	Justin Johnson	1 finals
Project ID:	Memorial Stadium						Date:	08/21/2017	beore .
Job ID :	17080802					Sample Ma	trix:	Soil	
Client Sample	ID: TW-3-1					Date Collec	ted:	08/07/2017	
Job Sample II	D: 17080802.05					Time Collec	cted:	13:00	
Other Informa	ation:								
Test Method	Parameter		Result	Units	DF	RL	Q	Date/Time Analyzed	Analyst
SW-846 827	0D Semivolatile Org	janic Comp	oounds - S	Soils				1.00 No. 100	and.
i P	Phenanthrene		BRL	mg/kg dw	0.987	0.355		08/20/2017 17:43	RPG
P	Pyrene		BRL	mg/kg dw	0,987	0.355		08/20/2017 17:43	RPG
- 2	2,4,6-Tribromophenol(surr)		65	%	0.987	49.3-138		08/20/2017 17:43	RPG
2	2-Fluorobiphenyl(surr)		152	%	0.987	41.4-111	S	08/20/2017 17:43	RPG
2	P-Fluorophenol(surr)		70.1	%	0.987	37.1-101		08/20/2017 17:43	RPG
Ν	litrobenzene-d5(surr)		101	%	0.987	35,2-104		08/20/2017 17:43	RPG
P	henol-d5(surr)		82.7	%	0.987	36.1-96.7		08/20/2017 17:43	RPG
p	-Terphenyl-d14(surr)		79.7	%	0.987	54.9-118		08/20/2017 17:43	RPG

Job ID: 17080802

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Client Name: Terracon Project ID: Memorial Stadium			зГ.		Attn:Justin JohnsonDate:08/21/2017	aaro 19
Job ID :17080802Client Sample ID:TW-3Job Sample ID:17080802.06Other Information:				Sample Mat Date Collect Time Collect	rix: Aqueous ted: 08/07/2017 ted: 13:10	
Test Method Parameter	Result	Units	DF	RL	Q Date/Time Analyzed	Analyst
SW-846 8260B Volatile Organic Compound	ds-Aqueous					5.02
Benzene	BRL	ug/L	1	1	08/15/2017 18:29	RPG
Ethylbenzene	BRL	ug/L	1	1	08/15/2017 18:29	RPG
Toluene	BRL	ug/L	1	1	08/15/2017 18:29	RPG
xylene-o	BRL	ug/L	1	1	08/15/2017 18:29	RPG
xylenes (m&P)	BRL	ug/L	1	2.00	08/15/2017 18:29	RPG
Dibromofluoromethane(surr)	93.2	%	1	56.9-151	08/15/2017 18:29	RPG
p-Bromofluorobenzene(surr)	132.0	%	1	84.4-152	08/15/2017 18:29	RPG
Toluene-d8(surr)	106,0	%	1	77.8-140	08/15/2017 18:29	RPG
SW-846 8270D Semivolatile Organic Com	pounds-Aqu	eous				
1-Methylnaphthalene	BRL	ug/L	1	10	08/15/2017 15:24	RPG
2-Methylnaphthalene	BRL	ug/L	1	10	08/15/2017 15:24	RPG
Acenaphthene	BRL	ug/L	1	10	08/15/2017 15:24	RPG
Acenaphthylene	BRL	ug/L	1	10	08/15/2017 15:24	RPG
Anthracene	BRL	ug/L	1	10	08/15/2017 15:24	RPG
Benzo(a)anthracene	BRL	ug/L	1	10	08/15/2017 15:24	RPG
Benzo(a)pyrene	BRL	ug/L	1	10	08/15/2017 15:24	RPG
Benzo(b)fluoranthene	BRL	ug/L	1	10	08/15/2017 15:24	RPG
Benzo(g,h,i)perylene	BRL	ug/L	1	10	08/15/2017 15:24	RPG
Benzo(k)fluoranthene	BRL	ug/L	1	10	08/15/2017 15:24	RPG
Chrysene	BRL	ug/L	1	10	08/15/2017 15:24	RPG
Dibenzo(a,h)anthracene	BRL	ug/L	1	10	08/15/2017 15:24	RPG
Fluoranthene	BRL	ug/L	1	10	08/15/2017 15:24	RPG
Fluorene	BRL	ug/L	1	10	08/15/2017 15:24	RPG
Indeno(1,2,3-cd)pyrene	BRL	ug/L	1	10	08/15/2017 15:24	RPG
Naphthalene	BRL	ug/L	1	10	08/15/2017 15:24	RPG
Phenanthrene	BRL	ug/L	1	10	08/15/2017 15:24	RPG
Pyrene	BRL	ug/L	1	10	08/15/2017 15:24	RPG

Job ID: 17080802

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Fax: (912) 234-9294

Client Name: Ter	racon					Contraction of the second second	Attn:	Justin Johnson	
Project ID: Mer	morial Stadium		1	1212			08/21/2017	20000	
Job ID : Client Sample ID: Job Sample ID:	17080802 TW-3 17080802.06					Sample Mat Date Collect Time Collec	rix: :ed: ted:	Aqueous 08/07/2017 13:10	- 114 - 114 - 114
Test Method	Parameter	Result		Units	DF	RL	Q	Date/Time Analyzed	Analyst
SW-846 8270D	Semivolatile Organic Cor	npounds-Aq	ueous	2		he working to the	-	Prove District A	
2,4,6-T	ribromophenol(surr)	67.8		⁰⁄₀	1	45.2-132		08/15/2017 15:24	RPG
2-Fluor	obiphenyl(surr)	50.0		%	1	42.8-106		08/15/2017 15:24	RPG
2-Fluor	ophenol(surr)	37.3		%	1	14.1-74.7		08/15/2017 15:24	RPG
Nitrobe	nzene-d5(surr)	54.8		%	1	38.3-101		08/15/2017 15:24	RPG
Phenol-	-d5(surr)	31.6		%	1	7.07-52.7		08/15/2017 15:24	RPG
p-Terpł	nenyl-d14(surr)	55.4		%	1	28.6-126		08/15/2017 15:24	RPG

Job ID: 17080802

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Client Name	e: Terracon		and the					Attn:	Justin Johnson	SHOLD
Project ID:	Memorial Stadium							Date:	08/21/2017	a other particular
Job ID : Client Samp Job Sample Other Infor	17080802 ple ID: TW-4-4 e ID: 17080802.07 mation:						Sample Ma Date Colle Time Colle	atrix: cted: cted:	Soil 08/07/2017 13:50	
Test Metho	d Parameter	N dH -	Result		Units	DF	RL	Q	Date/Time Analyzed	Analyst
SM2540b	% Moisture				http://		and the state	of a Develo	aliment (1970) 34	201
1	% Moisture		17.4		%	1			08/10/2017 12:00	EB
SW-846 8	260B Volatile Organic	Compound	ls-Soil	interity		5.4				
Star and	Benzene	out a re	BRL		mg/kg dw	1.19	0.00700		08/14/2017 16:34	RPG
99 m.	Ethylbenzene		BRL		mg/kg dw	1.19	0.00700		08/14/2017 16:34	RPG
se e	Toluene		BRL		mg/kg dw	1,19	0.00700		08/14/2017 16:34	RPG
91) - Pa	xylene-o		BRL		mg/kg dw	1.19	0.00700		08/14/2017 16:34	RPG
din i i i	xylenes (m&P)		BRL		mg/kg dw	1.19	0.0140		08/14/2017 16:34	RPG
198	Dibromofluoromethane(surr)		84.0		%	1.19	61.2-143		08/14/2017 16:34	RPG
	p-Bromofluorobenzene(surr)	10	126.0		%	1.19	69.4-143		08/14/2017 16:34	RPG
	Toluene-d8(surr)		99.2		%	1.19	62.3-146		08/14/2017 16:34	RPG
SW-846 8	270D Semivolatile Org	anic Comp	ounds - S	oils						
	1-Methylnaphthalene		BRL		mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG
	2-Methylnaphthalene		BRL		mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG
	Acenaphthene		BRL		mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG
	Acenaphthylene		BRL		mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG
	Anthracene		BRŁ		mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG
	Benzo(a)anthracene		BRL		mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG
	Benzo(a)pyrene		BRL		mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG
	Benzo(b)fluoranthene		BRL		mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG
	Benzo(g,h,i)perylene		BRL		mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG
	Benzo(k)fluoranthene		BRL		mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG
	Chrysene		BRL		mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG
	Dibenzo(a,h)anthracene		BRL		mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG
	Fluoranthene		BRL		mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG
	Fluorene		BRL		mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG
	Indeno(1,2,3-cd)pyrene		BRL		mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG
	Naphthalene		BRL		mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG

Job ID: 17080802

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Client Name: Ter	rracon					and the second	Attn:	Justin Johnson	CILARS
Project ID: Me	morial Stadium						Date:	08/21/2017	Project
Job ID :	17080802					Sample Ma	trix:	Soil	
Client Sample ID:	TW-4-4					Date Collec	ted:	08/07/2017	
Job Sample ID:	17080802.07					Time Collec	ted:	13:50	
Other Information:									
Test Method	Parameter		Result	Units	DF	RL	Q	Date/Time Analyzed	Analyst
SW-846 8270D	Semivolatile Orga	nic Com	ounds - Se	oils					testing 1
Phena	nthrene		BRL	mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG
Pyrene	5		BRL	mg/kg dw	0.986	0.397		08/20/2017 18:09	RPG
2,4,6-7	Tribromophenol(surr)		87.3	%	0.986	49.3-138		08/20/2017 18:09	RPG
2-Fluo	robiphenyl(surr)		69.8	%	0.986	41.4-111		08/20/2017 18:09	RPG
2-Fluor	rophenol(surr)		70.6	%	0.986	37.1-101		08/20/2017 18:09	RPG
Nitrobe	enzene-d5(surr)		78.9	%	0.986	35.2-104		08/20/2017 18:09	RPG
Phenol	-d5(surr)		75.6	%	0.986	36.1-96.7		08/20/2017 18:09	RPG
p-Terp	henyl-d14(surr)		91.4	%	0.986	54.9-118		08/20/2017 18:09	RPG

Job ID: 17080802

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Client Name Project ID:	e: Terracon Memorial Stadium						Attn: Ju Date: 08	istin Johnson 3/21/2017	13915 Data9
Job ID : Client Samp Job Sample Other Infor	17080802 ple ID: TW-4 e ID: 17080802.08 mation:					Sample Ma Date Collec Time Collec	trix: A ted: C ted: I	Aqueous)8/07/2017 14:40	
Test Metho	d Parameter		Result	Units	DF	RL	Q	Date/Time Analyzed	Analyst
SW-846 8	260B Volatile Organic	Compound	s-Aqueous						194-194
÷.	Benzene		BRL	ug/L	1	1		08/15/2017 18:53	RPG
83 - E	Ethylbenzene		BRL	ug/L	1	1		08/15/2017 18:53	RPG
	Toluene		BRL	ug/L	1	1		08/15/2017 18:53	RPG
- V)	xylene-o		BRL	ug/L	1	1		08/15/2017 18:53	RPG
	xylenes (m&P)		BRL	ug/L	1	2.00		08/15/2017 18:53	RPG
<u>e</u>	Dibromofluoromethane(surr)		96.0	%	1	56.9-151		08/15/2017 18:53	RPG
	p-Bromofluorobenzene(surr)		135.0	%	1	84.4-152		08/15/2017 18:53	RPG
	Toluene-d8(surr)		106.0	%	1	77.8-140		08/15/2017 18:53	RPG
SW-846 8	270D Semivolatile Org	janic Comp	ounds-Aqu	eous					
	1-Methylnaphthalene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
	2-Methylnaphthalene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
	Acenaphthene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
	Acenaphthylene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
	Anthracene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
	Benzo(a)anthracene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
	Benzo(a)pyrene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
	Benzo(b)fluoranthene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
	Benzo(g,h,i)perylene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
	Benzo(k)fluoranthene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
	Chrysene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
	Dibenzo(a,h)anthracene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
	Fluoranthene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
	Fluorene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
	Indeno(1,2,3-cd)pyrene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
	Naphthalene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
	Phenanthrene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
	Pyrene		BRL	ug/L	1	10		08/15/2017 16:17	RPG
CLIENT SAMPLE RESULTS

Job ID: 17080802

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Client Nar	me: Terracon			Attn:	Justin Johnson	Shelford.							
Project IC	D: Memorial Stadium						Date: 08/21/2017						
Job ID :	17080802					Sample M	atrix:	Aqueous					
Client Sar	mple ID: TW-4					Date Colle	cted:	08/07/2017					
Job Samp	ble ID: 17080802.08		Time Colle	Time Collected: 14:40									
Other Inf	formation:												
Test Meth	nod Parameter	- <u>j</u> i	Result	Un	its DF	RL	Q	Date/Time Analyzed	Analyst				
SW-846	8270D Semivolatile Org	anic Comj	ounds-Aq	ueous									
	2,4,6-Tribromophenol(surr)		58.5		% 1	45.2-132		08/15/2017 16:17	RPG				
	2-Fluorobiphenyl(surr)		39.6		% 1	42.8-106	S	08/15/2017 16:17	RPG				
	2-Fluorophenol(surr)		30.5	1.0	% 1	14.1-74.7		08/15/2017 16:17	RPG				
	Nitrobenzene-d5(surr)		40.5	=	% 1	38.3-101		08/15/2017 16:17	RPG				
	Phenol-d5(surr)		28.0		% 1	7.07-52.7		08/15/2017 16:17	RPG				
	p-Terphenyl-d14(surr)	01107	50.0		% 1	28.6-126	att line and	08/15/2017 16:17	RPG				

Job ID: 17080802

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Analysis: Semivolatile	Organic Compounds - Soils		Method: SW	/-846 8270D	Reporting Units	mg/kg dw
QC Batch ID: Qb170817	/03	and pro-	Created Date:	08/17/2017 15:12	Created By: P	Grimm
Samples in this QC Bate	h: 17080802,01,03,05,07				n nora sp	aliti o a betaliti
Extraction	PB17081704	SW3550c				PGrimm

OC Type: Me	thod Blank	BU-BA	deal dist	A 204			and the second	
	si da lega i cor i							
1 201.45	Parameter	CAS	Result	Units	DF	RL	MDL	Qual
Method Blank	1-Methylnaphthalene	90-12-0	BRL	mg/kg dw	1	.333	8	
Method Blank	2-Methylnaphthalene	91-57-6	BRL	mg/kg dw	1	.333		
Method Blank	Acenaphthene	83-32-9	BRL	mg/kg dw	1	.333		
Method Blank	Acenaphthylene	208-96-8	BRL	mg/kg dw	1	.333		
Method Blank	Anthracene	120-12-7	BRL	mg/kg dw	1	.333	n r for	
Method Blank	Benzo(a)anthracene	56-55-3	BRL	mg/kg dw	1	.333		1.1
Method Blank	Benzo(a)pyrene	50-32-8	BRL	mg/kg dw	1	,333		1.1.1
Method Blank	Benzo(b)fluoranthene	205-99-2	BRL	mg/kg dw	1	.333	1	
Method Blank	Benzo(g,h,i)perylene	191-24-2	BRL	mg/kg dw	1	,333	same to de-	
Method Blank	Benzo(k)fluoranthene	207-08-9	BRL	mg/kg dw	1	.333	1	r = r
Method Blank	Chrysene	218-01-9	BRL	mg/kg dw	1	.333	in the second	hand
Method Blank	Dibenzo(a,h)anthracene	53-70-3	BRL	mg/kg dw	1	.333	6.45.84	1.00
Method Blank	Fluoranthene	206-44-0	BRL	mg/kg dw	1	.333	sch heine	
Method Blank	Fluorene	86-73-7	BRL	mg/kg dw	1	.333		⁻
Method Blank	Indeno(1,2,3-cd)pyrene	193-39-5	BRL	mg/kg dw	1	.333		
Method Blank	Naphthalene	91-20-3	BRL	mg/kg dw	1	.333	ou /goi rail/	1.254
Method Blank	Phenanthrene	85-01-8	BRL	mg/kg dw	1	.333		
Method Blank	Pyrene	129-00-0	BRL	mg/kg dw	1	.333	The second	
Method Blank	2,4,6-Tribromophenol (Surr)	118-79-6	85	1.00	1		1.0000	
Method Blank	2-Fluorobiphenyl (Surr)	132-60-8	65		1	bhirsh du	and a start of the	1.12
Method Blank	2-Fluorophenol (Surr)	367-12-4	65.5		1	er off 10	- 10 M	
Method Blank	Nitrobenzene-d5 (Surr)	4165-60-0	73.5		1	persa. Line		
Method Blank	Phenol-d5 (Surr)		78.5		1	10 S. 10	10 10000	
Method Blank	p-Terphenyl-d14 (Surr)	1718-51-0	79.2		1	1.4	Second State	1926

QC Type: LCS/LCSD	-05 S - (34)	1 798-1	1 592	186 1	0.1 PG			to A. B. States	N = Higher	11700802	194
241-8123		LCS Spk		LCS %	LCSD Spk	LCSD			RPD	% Rec	
Parameter	194.6	Amt	LCS Result	Rec	Amt	Result	LCS % Rec	RPD	CtrlLimit	CtrlLimit	Qual
1-Methylnaphthalene		1.67	1.36	81.4	1.67	1.31	78.4	3.80	40	41.8-129	
2-Methylnaphthalene		1.67	1.51	90.4	1.67	1.42	85.0	6.10	40	52.9-114	
Acenaphthene		1.67	1.31	78.4	1.67	1.29	77.2	1.50	40	50.1-117	
Acenaphthylene		1.67	1.37	82.0	1.67	1.32	79.0	3.70	40	42.9-117	
Anthracene		1.67	1.57	94.0	1.67	1.46	87.4	7.30	40	60.4-122	
Benzo(a)anthracene		1.67	1.52	91.0	1.67	1.42	85.0	6.80	40	64.7-124	
Benzo(a)pyrene		1.67	1.49	89.2	1.67	1.43	85.6	4.10	40	56-118	
Benzo(b)fluoranthene		1,67	1,61	96.4	1.67	1.49	89.2	7.70	40	56.9-122	
Benzo(g,h,i)perylene		1.67	1.58	94.6	1.67	1.48	88.6	6.50	40	32.9-150	

Avery Laboratories & Environmental Services, LLC

🖾 2720 Gregory St. Unit 200 🖾 Savannah, Georgia 31404 🖾 Tel: (912) 944-3748 🖾 Fax: (912) 234-9294 🛄

Analysis: Semivolatile Orga	nic Compounds - Soils	 Method: S	W-846 8270D	Reporting Units: mg/kg dw			
QC Batch ID: Qb17081703	Created Date	e: 08/17/2017 15:12	Created By:	PGrimm			
Samples in this QC Batch:	17080802,01,03,05,07						

QC Type: LCS/LCSD										
in the second	LCS Spk		LCS %	LCSD Spk	LCSD			RPD	% Rec	
Parameter	Amt	LCS Result	Rec	Amt	Result	LCS % Rec	RPD	CtrlLimit	CtrlLimit	Qual
Benzo(k)fluoranthene	1.67	1.59	95.2	1.67	1.49	89.2	6.50	40	47.8-122	
Chrysene	1.67	1.41	84.4	1.67	1.33	79.6	5.80	40	58-128	-
Dibenzo(a,h)anthracene	1.67	1.34	80.2	1.67	1.33	79.6	0.80	40	25.9-174	11.10
Fluoranthene	1.67	1.67	100.0	1.67	1.54	92.2	8.10	40	46.8-137	- 61
Fluorene	1.67	1.38	82.6	1.67	1.36	81.4	1.50	40	48.1-123	0.00
Indeno(1,2,3-cd)pyrene	1.67	1.50	89.8	1.67	1.44	86.2	4.10	40	30-158	- 10 L
Naphthalene	1.67	1.29	77.2	1.67	1.20	71.9	7.20	40	52.8-108	1152
Phenanthrene	1.67	1.52	91.0	1.67	1.40	83.8	8.20	40	59.3-122	D-01
Pyrene	1.67	1.50	89.8	1.67	1.39	83.2	7.60	40	58.8-117	1.4.1
2,4,6-Tribromophenol (Surr)	2.0	1.70	85.0	2.0	1.60	80.0		10 Parts	49.3-138	1990. P
2-Fluorobiphenyl (Surr)	1.3	0.851	65.5	1.3	0.845	65.0		The second	41.4-111	
2-Fluorophenol (Surr)	2.0	1.38	69.0	2.0	1.32	66.0		1.1.1	37.1-101	
Nitrobenzene-d5 (Surr)	1.3	0.907	69.8	1.3	0.915	70.4		Hite	35.2-104	
Phenol-d5 (Surr)	2.0	1.50	75.0	2.0	1.49	74.5		and the second second	36.1-96.7	
p-Terphenyl-d14 (Surr)	1.3	1.18	90.8	1.3	1.18	90.8			54.9-118	

QC T	ype: MS/MSD												
	QC Sample ID	Parameter	Sample Result	MS Spk Amt	MS Result	MS % Rec	MS Spk Amt	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	% Rec CtrlLimit	Qual
MS	17080802.01	1-Methylnaphthalene	BRL	1.64	1.38	84.1	1.66	1.31	78.9	5.20	40	41.8-129	
MS	17080802.01	2-Methylnaphthalene	BRL	1.64	1.50	91.2	1.66	1.37	82.3	9.10	40	52.9-114	1.1
MS	17080802.01	Acenaphthene	BRL	1.64	1.35	82.3	1.66	1.25	75.3	7.70	40	50.1-117	
MS	17080802.01	Acenaphthylene	BRL	1.64	1.37	83.5	1.66	1.30	78.3	5.20	40	42.9-117	1.1
MS	17080802.01	Anthracene	BRL	1.64	1.51	91.8	1.66	1.42	85.3	6.10	40	60.4-122	
MS	17080802.01	Benzo(a)anthracene	BRL	1.64	1.49	90.4	1.66	1.36	81.5	9.10	40	64.7-124	
MS	17080802.01	Benzo(a)pyrene	BRL	1.64	1.45	88.0	1.66	1.34	80.3	7.90	40	56-118	
MS	17080802.01	Benzo(b)fluoranthene	BRL	1.64	1.62	98.3	1.66	1.55	92.9	4.40	40	56.9-122	
MS	17080802.01	Benzo(g,h,i)perylene	BRL	1.64	1.44	87,6	1.66	1.40	84.1	2.80	40	32.9-150	Left 1
MS	17080802.01	Benzo(k)fluoranthene	BRL	1.64	1,48	89.9	1.66	1.32	79.2	11.40	40	47.8-122	
MS	17080802.01	Chrysene	BRL	1.64	1.34	81.5	1.66	1.28	76.9	4.60	40	58-128	
MS	17080802.01	Dibenzo(a,h)anthracene	BRL	1.64	1.32	80.2	1.66	1.39	83.5	5.20	40	25.9-174	1.1
MS	17080802.01	Fluoranthene	BRL	1.64	1.59	96.7	1.66	1.50	90.1	5.80	40	46.8-137	
MS	17080802.01	Fluorene	BRL	1.64	1.32	80,5	1.66	1.26	75.9	4.70	40	48.1-123	
MS	17080802.01	Indeno(1,2,3-cd)pyrene	BRL	1.64	1.38	83.9	1.66	1.34	80.5	2.90	40	30-158	and and a second
MS	17080802.01	Naphthalene	BRL	1.64	1.37	82.9	1.66	1.22	72.9	11.60	40	52.8-108	
MS	17080802.01	Phenanthrene	BRL	1.64	1.47	89.3	1.66	1.33	79.8	10.00	40	59.3-122	
MS	17080802.01	Pyrene	BRL	1.64	1.44	87.6	1.66	1.30	78.1	10.20	40	58.8-117	
MS	17080802.01	2,4,6-Tribromophenol (Surr)		1.97	1.70	85	1.99	1.54	77			49,3-138	
MS	17080802.01	2-Fluorobiphenyl (Surr)		1.31	0.909	68.3	1.32	0.857	64.6			41,4-111	

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Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

📓 2720 Gregory St. Unit 200 📓 Savannah, Georgia 31404 📓 Tel: (912) 944-3748 📓 Fax: (912) 234-9294 🚳

 Analysis:
 Semivolatile Organic Compounds - Soils
 Method:
 SW-846 8270D
 Reporting Units:
 mg/kg dw

 QC Batch ID:
 Qb17081703
 Created Date:
 08/17/2017 15:12
 Created By:
 PGrimm

 Samples in this QC Batch:
 17080802,01,03,05,07
 17080802,01,03,05,07
 Image: Samples in this QC Batch:
 17080802,01,03,05,07

QC Ty	pe: MS/MSD												
1990			Sample	MS Spk	MS	MS %	MS Spk	MSD	MSD %		RPD	% Rec	
	QC Sample ID	Parameter	Result	Amt	Result	Rec	Amt	Result	Rec	RPD	CtrlLimit	CtrlLimit	Qual
MS	17080802.01	2-Fluorophenol (Surr)		1.97	1.42	71	1.99	1.37	68.5			37.1-101	
MS	17080802.01	Nitrobenzene-d5 (Surr)	- 143	1.31	0.975	73.3	1.32	0.910	68.6		2.2.1	35.2-104	
MS	17080802.01	Phenol-d5 (Surr)	1964	1.97	1.56	78	1.99	1.49	74.5		1.000	36.1-96.7	
MS	17080802.01	p-Terphenyl-d14 (Surr)	1 12	1.31	1.22	91.7	1.32	1.13	85.2			54.9-118	

Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

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Analysis: Volatile Organic Compounds-Soil	Method: SW-	-846 8260B	Reporting Uni	its: mg/kg dw
QC Batch ID: Qb17081705	Created Date:	08/17/2017 16:31	Created By:	PGrimm
Samples in this QC Batch: 17080802,01,03,05,07			t dest	denden i refere fo
Sample Preparation PB17081706 SW5035				PGrimm

QC Type: Me	thod Blank		a la com		goog.S		1942 (M. 1997)	1
	Parameter	CAS	Result	Units	DF	RL	MDL	Oual
Method Blank	Benzene	71-43-2	BRL	mg/kg dw	1	0.0050		
Method Blank	Ethylbenzene	100-41-4	BRL	mg/kg dw	1	0.0050	0.000	1.1
Method Blank	Naphthalene	91-20-3	BRL	mg/kg dw	1	0.0050		
Method Blank	Toluene	108-88-3	BRL	mg/kg dw	1	0.0050		
Method Blank	xylene-o	95-47-6	BRL	mg/kg dw	1	0.0050		
Method Blank	xylenes (m&P)	108-38-3&106-42-3	BRL	mg/kg dw	1	0.010		
Method Blank	Dibromofluoromethane (Surr)	1868-53-7	88.0		1			
Method Blank	p-Bromofluorobenzene (Surr)	460-00-4	124.0		1			
Method Blank	Toluene-d8 (Surr)	2037-26-5	100.0		1			

QC Type: LCS/LCSD				-			1 and the			
Parameter	LCS Spk	LCC Docult	LCS %	LCSD Spk	LCSD		0.00	RPD	% Rec	
	Anne	LCS Result	Rec	Ant	Result	LCS % Rec	KPD	CtriLimit	CtriLimit	Qual
Benzene	0.05	0.0390	78.0	0.05	0.0410	82.0	5.00	30	57.3-122	
Ethylbenzene	0.05	0.0540	108.0	0.05	0.0570	114.0	5.40	30	56.3-139	
Toluene	0.05	0,0430	86.0	0.05	0.0470	94.0	8.90	30	67.3-133	
xylene-o	0.05	0.0540	108.0	0.05	0.0580	116.0	7.10	30	51.4-144	
xylenes (m&P)	0.1	0.111	111.0	0.1	0.117	117.0	5.30	30	53.7-146	
Dibromofluoromethane (Surr)	0.05	0.0440	88.0	0.05	0.0450	90.0			61.2-143	
p-Bromofluorobenzene (Surr)	0.05	0.0640	128.0	0.05	0.0630	126.0			69.4-143	
Toluene-d8 (Surr)	0.05	0.0500	100.0	0.05	0.0510	102.0			62.3-146	

QC Type: MS/MSD													
	00.000	D	Sample	MS Spk	MS	MS %	MS Spk	MSD	MSD %		RPD	% Rec	
-	QC Sample ID	Parameter	Result	Amt	Result	Rec	Amt	Result	Rec	RPD	CtrlLimit	CtrlLimit	Qual
MS	17080306.01	Benzene	BRL	0.05	0.0400	77.6		0.0400				57.3-122	
MS	17080306.01	Ethylbenzene	0.00810	0.05	0.0580	99.8		0.0580				56.3-139	
MS	17080306.01	Toluene	BRL	0.05	0.0410	77.6		0.0410				67.3-133	
MS	17080306.01	xylene-o	BRL	0.05	0.0640	120.0		0.0640				51.4-144	
MS	17080306.01	xylenes (m&P)	BRL	0.1	0.125	119.0		0.125				53.7-146	
MS	17080306.01	Dibromofluoromethane (Surr)	_	0.05	0.0440	88.0			_			61.2-143	
MS	17080306.01	p-Bromofluorobenzene (Surr)		0.05	0.0600	120.0						69.4-143	
MS	17080306.01	Toluene-d8 (Surr)		0.05	0.0460	92.0						62.3-146	

Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

🏼 2720 Gregory St. Unit 200 🔳 Savannah, Georgia 31404 🔳 Tel: (912) 944-3748 🔳 Fax: (912) 234-9294 🔳

Analysis: volatile Organ	ic compounds	-3011	 metho	u. 3W	-040 0200		.porting onits.	ing/ing dw
QC Batch ID: Qb1708170	5		Create	d Date:	08/17/20)17 16:31 Cr	eated By: PC	Grimm
Samples in this QC Batch:	17080802,	01,03,05,07					nin se line. Ni se line	AND IN THE A
				W.S.				

Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

🖀 2720 Gregory St. Unit 200 🗬 Savannah, Georgia 31404 📾 Tel: (912) 944-3748 📾 Fax: (912) 234-9294 📾

Analysis: Volatile Org	janic Compounds-Aqueous	and suggest	Method: SW-	-846 8260B	Reporting Un	iits: ug/L
QC Batch ID: Qb17082	2101		Created Date:	08/21/2017 10:38	Created By:	PGrimm
Samples in this QC Bat	:ch: 17080802,02,04,06,08					
Sample Preparation	PB17082101	SW5030b				PGrimm

QC Type: Me	thod Blank							
	Parameter	CAS	Result	Units	DF	RL	MDL	Oual
Method Blank	Benzene	71-43-2	BRL	ug/L	1	1.0		- quei
Method Blank	Ethylbenzene	100-41-4	BRL	ug/L	1	1.0		
Method Blank	Toluene	108-88-3	BRL	ug/L	1	1.0		
Method Blank	xylene-o	95-47-6	BRL	ug/L	1	1.0		
Method Blank	xylenes (m&P)	108-38-3&106-42-3	BRL	ug/L	1	2.0		
Method Blank	Dibromofluoromethane (Surr)	1868-53-7	94.2	5,	1			
Method Blank	Toluene-d8 (Surr)	2037-26-5	106.0		1			
Method Blank	p-Bromofluorobenzene (Surr)	460-00-4	135.0		1			

QC Type: LCS/LCSD										
Parameter	LCS Spk Amt	LCS Result	LCS % Rec	LCSD Spk Amt	LCSD Result	LCS % Rec	RPD	RPD CtrlLimit	% Rec CtrlLimit	Oual
Benzene	50	41.2	82.4	50	50.3	101.0	19.90	30	69.4-137	
Ethylbenzene	50	39.3	78.6	50	49.5	99.0	23,00	30	54.9-155	
Toluene	50	39.7	79.4	50	49.3	98.6	21.60	30	79.6-130	
xylene-o	50	46.4	92.8	50	59.6	119.0	24,90	30	74-134	
xylenes (m&P)	100	77.8	77.8	100	98.5	98.5	23.50	30	77.7-132	
Dibromofluoromethane (Surr)	50	46.3	92.6	50	46.6	93.2			56.9-151	
Toluene-d8 (Surr)	50	52.9	106.0	50	53	106.0			77.8-140	
p-Bromofluorobenzene (Surr)	50	69.7	139.0	50	68.8	138.0			84.4-152	

Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

2720 Gregory St. Unit 200 Savannah, Georgia 31404 Tel: (912) 944-3748 Fax: (912) 234-9294

Analysis: Semivo	latile Orga	anic Compounds-Aqueou	us	Method: SW-	-846 8270D	Reporting Un	its: ug/L
QC Batch ID: Qb1	7082102			Created Date:	08/21/2017 11:09	Created By:	PGrimm
Samples in this QC	Batch:	17080802,02,04,06,08			an 177 - 6416853	2.4bed	agaan ee salaa sa
Extraction	PB17	082102	SW3510c				PGrimm

QC Type: Me	thod Blank							
	e di la cale substanti a fantati s		8.44 8	WC 109-001	0.5	51		-
State Parts	Parameter	CAS	Result	Units	DF	RL	MDL	Qua
Method Blank	1-Methylnaphthalene	90-12-0	BRL	ug/L	1	10	CONTRACTOR INCOME.	1913
Method Blank	2-Methylnaphthalene	91-57-6	BRL	ug/L	1	10	6.57	- 11
Method Blank	Acenaphthene	83-32-9	BRL	ug/L	1	10		11
Method Blank	Acenaphthylene	208-96-8	BRL	ug/L	1	10	1.1110	1.1
Method Blank	Anthracene	120-12-7	BRL	ug/L	1	10	- amin's	1
Method Blank	Benzo(a)anthracene	56-55-3	BRL	ug/L	1	10	- 10 M T	100
Method Blank	Benzo(a)pyrene	50-32-8	BRL	ug/L	1	10		5.11
Method Blank	Benzo(b)fluoranthene	205-99-2	BRL	ug/L	1	10	Contractor and	1.
Method Blank	Benzo(g,h,i)perylene	191-24-2	BRL	ug/L	1	10	1-1-1-1-1-1	
Method Blank	Benzo(k)fluoranthene	207-08-9	BRL	ug/L	1	10		1.1
Method Blank	Chrysene	218-01-9	BRL	ug/L	1	10		
Method Blank	Dibenzo(a,h)anthracene	53-70-3	BRL	ug/L	1	10	increasing.	
Method Blank	Fluoranthene	206-44-0	BRL	ug/L	1	10	to the market	
Method Blank	Fluorene	86-73-7	BRL	ug/L	1	10		
Method Blank	Indeno(1,2,3-cd)pyrene	193-39-5	BRL	ug/L	1	10		-
Method Blank	Naphthalene	91-20-3	BRL	ug/L	1	10	M (RM of it)	0.22
ethod Blank	Phenanthrene	85-01-8	BRL	ug/L	1	10		
ethod Blank	Pyrene	129-00-0	BRL	ug/L	1	10	0.002.32	
ethod Blank	2-Fluorophenol (Surr)	367-12-4	42.3		1		of Sheer Li	1.00
Method Blank	Phenol-d5 (Surr)	1 = 5.6 [1 + 93] [1 + 10]	36.3	1.1.1.1	1		Sec. 1.	- 694
Aethod Blank	Nitrobenzene-d5 (Surr)	4165-60-0	60.5		1	6001° . 343	- cading	1.1
1ethod Blank	2-Eluorobiphenyl (Surr)	132-60-8	55.4		1	anar, ré	1.88	
Aethod Blank	2.4.6-Tribromophenol (Surr)	118-79-6	72.2		1	pitram a traini	schediker.	
Method Blank	p-Terphenyl-d14 (Surr)	1718-51-0	59.6		111	and see 10	Acrochent	

QC Type: LCS/LCSD										
	LCS Spk		LCS %	LCSD Spk	LCSD			RPD	% Rec	
Parameter	Amt	LCS Result	Rec	Amt	Result	LCS % Rec	RPD	CtrlLimit	CtrlLimit	Qual
1-Methylnaphthalene	100	67.3	67.3	100	63.3	63.3	6.10	40	42.9-101	
2-Methylnaphthalene	100	70.9	70.9	100	68.5	68.5	3.40	40	46.8-102	
Acenaphthene	100	66.5	66.5	100	63.4	63.4	4.80	40	44.5-109	
Acenaphthylene	100	69.5	69.5	100	66.8	66.8	4.00	40	42.3-104	
Anthracene	100	73.2	73.2	100	71.4	71.4	2.50	40	62.2-106	100
Benzo(a)anthracene	100	70.7	70.7	100	64.4	64.4	9.30	40	62.2-110	
Benzo(a)pyrene	100	68.6	68.6	100	66.6	66.6	2.80	40	58.9-115	
Benzo(b)fluoranthene	100	75.6	75.6	100	66.8	66.8	12.40	40	51.9-111	
Benzo(g,h,i)perylene	100	67.3	67.3	100	66.8	66.8	0.70	40	35.8-132	

Avery Laboratories & Environmental Services, LLC

🔲 2720 Gregory St. Unit 200 🗌 Savannah, Georgia 31404 🗐 Tel: (912) 944-3748 🗐 Fax: (912) 234-9294 🗐

Analysis: Semivolatile Orga	anic Compounds-Aqueous	s poil	Method:	sw-	846 8270D	Reporting Un	its: ug/L
QC Batch ID: Qb17082102			Created D	ate:	08/21/2017 11:09	Created By:	PGrimm
Samples in this QC Batch:	17080802,02,04,06,08						

QC Type: LCS/LCSD										
	LCS Spk		LCS %	LCSD Spk	LCSD			RPD	% Rec	
Parameter	Amt	LCS Result	Rec	Amt	Result	LCS % Rec	RPD	CtrlLimit	CtrlLimit	Qual
Benzo(k)fluoranthene	100	74.8	74.8	100	71.3	71.3	4.80	40	44.4-134	
Chrysene	100	62.7	62.7	100	62.4	62.4	0.50	40	52.2-123	
Dibenzo(a,h)anthracene	100	52.6	52.6	100	54	54.0	2.60	40	17,2-161	0.992
Fluoranthene	100	76.3	76.3	100	74.6	74.6	2.30	40	46.7-130	1.1.1
Fluorene	100	67.3	67.3	100	64.8	64.8	3.80	40	44.2-113	150
Indeno(1,2,3-cd)pyrene	100	64.1	64.1	100	62,3	62.3	2.80	40	47.5-126	tion hit
Naphthalene	100	63.2	63.2	100	58,6	58.6	7.60	40	45.7-96.1	ugain -
Phenanthrene	100	69.1	69.1	100	68,4	68.4	1.00	40	61.7-104	
Pyrene	100	70.3	70.3	100	65.7	65.7	6.80	40	48.4-100	
2-Fluorophenol (Surr)	120	55.8	46.5	120	48.1	40.1		1.1.1.1.1.1.1.1	14.1-74.7	
Phenol-d5 (Surr)	120	48.7	40.6	120	43.1	35.9			7.07-52.7	
Nitrobenzene-d5 (Surr)	80	51.4	64.3	80	42.6	53.3		10.0	38.3-101	
2-Fluorobiphenyl (Surr)	80	48.6	60.8	80	40.8	51.0		1.1.6	42.8-106	
2,4,6-Tribromophenol (Surr)	120	90.2	75.2	120	80.3	66.9		861	45.2-132	1. S.
p-Terphenyl-d14 (Surr)	80	52.9	66.1	80	46.2	57.8			28.6-126	

QC T	ype: MS/MSD												
	QC Sample ID	Parameter	Sample Result	MS Spk Amt	MS Result	MS % Rec	MS Spk Amt	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	% Rec CtrlLimit	Qual
MS	17080802.08	1-Methylnaphthalene	BRL	100	59.8	59.8		59.8				42.9-101	
MS	17080802.08	2-Methylnaphthalene	BRL	100	64.1	63.9		64.1				46.8-102	
MS	17080802.08	Acenaphthene	BRL	100	59.1	59.1		59.1				44.5-109	1
MS	17080802.08	Acenaphthylene	BRL	100	63.6	63,6		63.6				42.3-104	
MS	17080802.08	Anthracene	BRL	100	66.5	66.5		66.5				62.2-106	Lue 1
MS	17080802.08	Benzo(a)anthracene	BRL	100	64.1	63.8		64.1		òr il		62.2-110	
MS	17080802.08	Benzo(a)pyrene	BRL	100	61	60.8		61				58.9-115	
MS	17080802.08	Benzo(b)fluoranthene	BRL	100	67.6	67.6		67.6				51.9-111	
MS	17080802,08	Benzo(g,h,i)perylene	BRL	100	61.7	61.7		61.7				35.8-132	100
MS	17080802.08	Benzo(k)fluoranthene	BRL	100	61.1	61.1		61.1				44.4-134	
MS	17080802.08	Chrysene	BRL	100	59.6	59.3		59.6	· · · ·			52.2-123	
MS	17080802.08	Dibenzo(a,h)anthracene	BRL	100	48.9	48.9		48.9				17.2-161	
MS	17080802.08	Fluoranthene	BRL	100	72.8	72.8	1.00	72.8				46.7-130	
MS	17080802.08	Fluorene	BRL	100	61.2	61.2		61.2				44.2-113	
MS	17080802.08	Indeno(1,2,3-cd)pyrene	BRL	100	58.9	58.9		58.9			1 1	47.5-126	and a
MS	17080802.08	Naphthalene	BRL	100	56.2	55.6		56.2	1			45.7-96.1	Cool 1
MS	17080802.08	Phenanthrene	BRL	100	61.5	61.3	1 C	61.5				61.7-104	М
MS	17080802.08	Pyrene	BRL	100	65.1	65.1		65.1				48.4-100	
MS	17080802.08	2-Fluorophenol (Surr)		120	43.5	36.3						14,1-74,7	
MS	17080802.08	Phenol-d5 (Surr)		120	40.1	33.4					1	7.07-52.7	





Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

📓 2720 Gregory St. Unit 200 📓 Savannah, Georgia 31404 📓 Tel: (912) 944-3748 📓 Fax: (912) 234-9294 📓

Analysis: Semivolatile Orga	nic Compounds-Aqueous	ф Т. I	Method:	SW-	846 8270D	Reporting Uni	ts: ug/L
QC Batch ID: Qb17082102			Created D	ate:	08/21/2017 11:09	Created By:	PGrimm
Samples in this QC Batch:	17080802,02,04,06,08						

QC T	/pe: MS/MSD												
- NHT	QC Sample ID	Parameter	Sample Result	MS Spk Amt	MS Result	MS % Rec	MS Spk Amt	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	% Rec CtrlLimit	Qual
MS	17080802.08	Nitrobenzene-d5 (Surr)	1011046	80	41.3	51.6		11-21	a manufacture of		an esseri	38.3-101	
MS	17080802.08	2-Fluorobiphenyl (Surr)		80	40.8	51.0		1 - 1 - 1	ber und	i sati	anorrai	42.8-106	
MS	17080802.08	2,4,6-Tribromophenol (Surr)		120	75.3	62.8						45.2-132	
MS	17080802.08	p-Terphenyl-d14 (Surr)		80	41.8	52.3						28.6-126	

CASE NARRATIVE

Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

2720 Gregory St. Unit 200 Savannah, Georgia 31404 Tel: (912) 944-3748 Fax: (912) 234-9294

Client Name:	Terracon	nia0 haism2	-16-10-1	201000100 July 001000 005
Project ID:	Memorial Stadium			
Date Received:	08/07/2017			
Collected By:	CEH			

Matrix Spikes Liquid

Method SW8270d: The matrix spike/ matrix spike duplicate recoveries were outside the established laboratory control limits for several analytes. The lab spike recoveries were inside acceptable limits, so the data was reported. The matrix spikes have been qualified accordingly.

SW8270d: Several surrogates were outside the established laboratory control limits for "TW-1", "TW-3-1", and "TW-4". The data has been qualified correctly.

SW8260b: Several surrogates were outside the established laboratory control limits for "TW-3-1". The data has been qualified correctly.

Released By: PGrimm

Title: Technical Director

RP17082102

TERM AND QUALIFIER DEFINITION

Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

🖾 2720 Gregory St. Unit 200 🖾 Savannah, Georgia 31404 🖾 Tel: (912) 944-3748 🖾 Fax: (912) 234-9294 🖾

General Term De	finition	A MARKED PHILIPPEN A		
Conc.	Concentration			
DF	Dilution Factor - the factor applied to the r	eported data due to s	ample preparation, dilution, or mo	isture content
ND	Non Detect - Not Detected at or above adj	usted reporting limit		
J	Estimated concentration above the adjuste	d method detection li	mit and below the adjusted report	ing limit
RL	adjusted Reporting Limit (QL – Quantificati	ion Limit)		
MDL	adjusted Method Detection Limit (LOD – Li	mit of Detection)		
RegLimit	Regulatory Limit			
mg/l	Milligrams per Liter			
mg/kg	Milligrams per Kilogram			
ppm	Parts per Million			
µg/L	Micrograms per Liter			
µg/g	Micrograms per Gram			
ppb	Parts per Billion			
gr/gal	Grains per Gallon			
SU	Standard Units			
CCU	Cobalt Color Units			
NTU	Nephelometric Turbidity Units			
µS/cm	Microsiemens per cm at 25C			
P/A	Presence/Absence			
CFU	Colony Forming Units			
MPN	Most Probable Number			
RB	Reagent Blank			
MB	Method Blank			
LCS	Laboratory Control Sample			
LCSD	Laboratory Control Sample Duplicate			
LFM	Laboratory Fortified Matrix (MS – Matrix Sp	pike)		
LFMD	Laboratory Fortified Matrix Duplicate (MSD	– Matrix Spike Duplic	cate)	
DUP	Sample Duplicate			
RPD	Relative Percent Difference			
%Rec	Percent Recovery			
TNTC	Too numerous to count			
NC	Not Calculable			
SG	Silica Gel - Clean-Up			
BRL	Below Reporting Limit			
BDL	Below Detection Limit			
Qualifier Definitio	n			
М	Estimated value-The reported value fa	iled the established	quality control criteria for accur	acy and /or precision.
S	The surrogate recovery was outside th	e established labora	atory recovery limit.	

SAMPLE SUMMARY

Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

📓 2720 Gregory St. Unit 200 📓 Savannah, Georgia 31404 📓 Tel: (912) 944-3748 📓 Fax: (912) 234-9294 📓

			Client Project ID Memorial Stadium	1			
Report To :	Client Name: Client Address: City, State, Zip:	Terracon 2201 Rowland Ave. Savannah, GA, 31404	stradio socializzaria estrucción de la colo 1 de la coloridad Estado de la coloridad Estado de la coloridad	Attn: 2 P.O.#.:	lustin Johnson		
The laboratory has	analyzed the follow	ving samples:	10 - 12 - 12 - 12 - 1	No. Market Street			
Client Sa	mple ID	Matrix	Sample ID	Date Received	Date Collected	Collec	ted by
TW-1-5		Soil	17080802.01	8/7/2017 15:20	8/7/2017 11:00	CEH	
TW-1		Aqueous	17080802.02	8/7/2017 15:20	8/7/2017 11:10	CEH	
TW-2-4		Soil	17080802.03	8/7/2017 15:20	8/7/2017 11:50	CEH	
TW-2		Aqueous	17080802.04	8/7/2017 15:20	8/7/2017 12:15	CEH	
TW-3-1		Soil	17080802.05	8/7/2017 15:20	8/7/2017 13:00	CEH	
TW-3		Aqueous	17080802.06	8/7/2017 15:20	8/7/2017 13:10	CEH	
TW-4-4		Soil	17080802.07	8/7/2017 15:20	8/7/2017 13:50	CEH	
TW-4		Aqueous	17080802.08	8/7/2017 15:20	8/7/2017 14:40	CEH	

RP17082102

SAMPLE PREPARATION INFORMATION

Job ID: 17080802



📓 2720 Gregory St. Unit 200 🖗 Savannah, Georgia 31404 📓 Tel: (912) 944-3748 📓 Fax: (912) 234-9294 📓

Client Name:	Terracon			Attn: Justir	n Johnson
Project Name:	Memorial Stadium	Date: 08/21	1/2017		
Sample ID	Test	Prep Method	Date Prepared	Analyst	Prep Batch ID
17080802.01	% Moisture	SM2540b	08/09/2017 12:00	ebrunner	PB17081401
17080802.01	SVOA-Terracon Soil	SW3550c	08/17/2017 10:39	PGrimm	PB17081704
17080802.01	VOC-Terracon Soil	SW5035	08/14/2017 08:29	PGrimm	PB17081706
17080802.02	SVOC	SW3510c	08/14/2017 08:08	PGrimm	PB17082102
17080802.02	VOC	SW5030b	08/15/2017 08:38	PGrimm	PB17082101
17080802.03	% Moisture	SM2540b	08/09/2017 12:00	ebrunner	PB17081401
17080802.03	SVOA-Terracon Soil	SW3550c	08/17/2017 10:39	PGrimm	PB17081704
17080802.03	VOC-Terracon Soil	SW5035	08/14/2017 08:29	PGrimm	PB17081706
17080802.04	SVOC	SW3510c	08/14/2017 08:08	PGrimm	PB17082102
17080802.04	VOC	SW5030b	08/15/2017 08:38	PGrimm	PB17082101
17080802.05	% Moisture	SM2540b	08/09/2017 12:00	ebrunner	PB17081401
17080802.05	SVOA-Terracon Soil	SW3550c	08/17/2017 10:39	PGrimm	PB17081704
17080802.05	VOC-Terracon Soil	SW5035	08/14/2017 08:29	PGrimm	PB17081706
17080802.06	SVOC	SW3510c	08/14/2017 08:08	PGrimm	PB17082102
17080802.06	VOC	SW5030b	08/15/2017 08:38	PGrimm	PB17082101
17080802.07	% Moisture	SM2540b	08/09/2017 12:00	ebrunner	PB17081401
17080802.07	SVOA-Terracon Soil	SW3550c	08/17/2017 10:39	PGrimm	PB17081704
17080802.07	VOC-Terracon Soil	SW5035	08/14/2017 08:29	PGrimm	PB17081706
17080802.08	SVOC	SW3510c	08/14/2017 08:08	PGrimm	PB17082102
17080802.08	VOC	SW5030b	08/15/2017 08:38	PGrimm	PB17082101

SAMPLE CONDITION CHECKLIST

Job ID: 17080802

Avery Laboratories & Environmental Services, LLC

2720 Gregory St. Unit 200 Savannah, Georgia 31404 Tel: (912) 944-3748 Fax: (912) 234-9294

Client Name : Terracon		Contact : Justin Johnson
Client Address : 2201 Rowland A	ve.	Contact Phone: 912-662-8481
JobID: 17080802	Date Received : 08/07/2017	Time Received : 03:20 PM
Temperature: 15.8	Sample pH : OK	11.0
ThermometerID: 170145743	pHPaperID: HC687572, HC573059	

On ice

	Check Points	Yes	No	N/A
1	All samples were logged or labeled.	~		
2	Bottle count on C-O-C matches bottle found.	~		
3	C-O-C signed and dated.	~		
4	Cooler seal present and signed.	~		
5	If requested, sample(s) received with signed sample custody seal		. 11.	~
6	Sample amount is sufficient for analyses requested	V		
7	Sample containers arrived in tact. (if no, comment)	~		
8	Sample ID lables Match C-O-C ID's	~		
9	Sample received at 6°C or Less		V	
10	Sample(s) in a cooler.	~		
11	Sample(s) were received at the proper pH.	~		
12	Sample(s) were received in appropriate contatiner. (If no, comment)	~		
13	Samples accepted.	~		
14	Samples received within holding time for analysis requested	~		
15	Zero headspace in liquid VOA vials	~		

CheckIn By :

Elizabeth Grimm

CheckIn Date : 08/08/2017

COMMERCIAL LABORATORY STIPULATION

Georgia Rules for Commercial Environmental Laboratory Accreditation

Chapter 391-3-26

Job ID : 17080802



📓 2720 Gregory St. Unit 200 📓 Savannah, Georgia 31404 📓 Tel: (912) 944-3748 📓 Fax: (912) 234-9294 📓

Laboratory:	Avery Laboratories and Environmental Services	s, LLC
Accreditor:	NELAC: State of Florida, Department of Health	, Bureau of Laboratories
Accreditation ID:	E87941	
Scope:	NON-POTABLE WATER - EXTRACTABLE ORGA GENERAL CHEMISTRY, NON-POTABLE WATER - PESTICIDES-HERBICIDES-PCB'S, NON-POTA ORGANICS, SOLID AND CHEMICAL MATERIAL SOLID AND CHEMICAL MATERIALS - GENERAL CHEMICAL MATERIALS - METALS, SOLID AND VOLATILE ORGANICS	NICS, NON-POTABLE WATER - - METALS, NON-POTABLE WATER BLE WATER - VOLATILE S - EXTRACTABLE ORGANICS, - CHEMISTRY, SOLID AND CHEMICAL MATERIALS -
Effective Date:	July 1, 2016	Expiration Date: July 1, 2017

As per the Georgia EPD Rules and Regulations for Commercial Laboratories, Avery Laboratories and Environmental Services - Savannah is accredited by the Florida Department of Health under the National Environmental Laboratory Approval Program (NELAP). If you have any further questions regarding accreditation status for Avery Laboratories and Environmental Services, please contact: Paul Grimm.

Avery Laboratories and Environmental Services, LLC 2720 Gregory St. Unit 200 Savannah, GA 31404 Phone: (912) 944-3748 Fax: (912) 234-9294







NOTES: 1. PROVIDE CHAIN KIT WITH FIXTURES TO HANG BELOW DUCTWORK AS INCLESSARY.

E1.1





MAD	NSC	_	500A MB			-	-	MIG	SURFACE		+-
VCI	TAGE		125/25eV	PHASE	3	WHE	4	ATC	42.000	+	+-
	DEVK	E	BRANCH CIRCUIT		PHA	SE LOAL	(A-US)		BRANCH CIRCUIT	0	EVIC
100	TRA	POLE	DESIGNATION	V.A.	A	8	C	N.V.	DESIGNATION	PDU	e TP
	20		SUMP PUMP	120	620	1		500	EF-19	1	11
3	15		CIRCULATION PUMP	1,220		2.640	-	1.440	NATH RECEPTACLES WEST	1	12
. 5	20	1	LIGHT & EF & T	507		1	1.500	1,000	TIME GLOCK	1	12
7	20.	1	CONCESSION W RECEPT	t 43D	2 700	1	-	1.265	BATH RECEPTACLES EAST	11	12
2	20		RECEPTACLES	1.080	-	2,080		1.000	IT ROOM RECEPTACLES	1	13
11	25		SPORT MED RECENT	900	-	1	1 900	0001	IT FOOM RECEPTACLES	11	12
12	25		UCHING & EF-1.2	\$00	1.000			5/0/1	ELECTRICAL BY RECEPT	1 1	12
15	20		CONCESSION E RECEPT	1.445	1	1.940		500	ELEVATOR PIT	1 1	12
17	20	-	RECEPTACLES	T GAD	1	1	4 050	3.000	OHP 10	12	13
-6			SPARE		1				SPARE	11	13
21	20	1	SPARE		1	-		1	SPARE	10	+5
15	12	-	SPARE					-	SPARE	1.1	15
25	27		TEAM CHANGE & RECEPT	1.080	1.3.560			1.082	TEAM CHANGE & RECEPT	1.	15
22	-5	1	P045.1	450		1 250		950	TEAM CHANCE & RECEPT	1	tē
25	21		TEAM CHANCE A NECENT	100	-	11.222	1100	1.005	FACP	1	1.
31	21	+1	TRAINING ROOM ICE MAKER	1 400	3 000			1.505	FREEZER (CONCESSIONS)	1	15
31	381		SOMP PORP	+30	-	5.10		440	PRACE 3	1 2	+3
36	-						1.536	1.500	FREE 25 IN ICONCESSIONS!	1	13
51	31	1	END 1	2.370	3 (975)	t - 1		1.605	CONCESSIONS REFINGERATOR	1	÷
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41				3 3/50	+		2 3 3 3		SOARC	-	16
12	15	10	1447 1A 18 10	402	2.002			2.100	16 BP (.)	1	13
15				100		2.000		1.500	CONCESSIONS DEED/CERATOR	1	15
6/	56.1	121	148° JA 38 30	500	1	-	650	111100	CPANT	1	13
21	-			500	1 5/17			1.000	CONDITIONS TRAFT		1
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1.0			and the second second second second	1.000	1.000				Transfer		+
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++			20.08		1 045		10.00	1.996	100000		+-
10	28	1	66 M		1.356				COVER 190		4.
19	2.85			54.1	1	200	64.5	-	10 Barrier	1	12
161	-		(PAD)	- 32	-		300		P BARR	1	15
	36		SPADE						so and		13
81	24		SPADE		-	-			dp and	1	13
-			Of Mark						Brand	1	1.5
			GONNECTED		24 850	37.110	45 600	TTL.	117.120		111
			DEMAND		31 035	33 453	41.040	311	105 588		î
										-	t
2.1	WNED	3144	LL BE 2-SECTION TYPE DAVID	E CIRCU	IT'S EVEN	LYBET	VEEN D	E TWO S	ECTIONS BOTH SECTIONS SHALL	RE	-
	HE S	AME	PHYSICAL SIZE		-				10 0 0 0		-

11.4	NS		121A MLO			1		MIG	SURFACE	-		-
VO)	TAGE		1202/WV	EPHASE .	3	WHE-	4	ALC	10,003	-		t
	NEVE	÷F.	ARANCH CIRCUT	1	PHA	PHASE LOAD			BRANCH CIRCUIT	0	EVICE	Ê.
NO	107	POLE	DESIGNATION	V.A.	A	D	I c	V-A DESIGNATION		POLC	THEP	INC
.+	20	100	LIGHTING & EF 6.7.8	500	1.940		-	1,447	OFFICE RECEPTACLES	1	20	13
2	20.	1	COMPUTER OM RECEPT	1.080		1.960	-	980	OFFICE RECEPTACLES	1	20	4
6	20	.1	COMPUTER RM RECEIPT	1.080		1	056.1	505	OFFICE RECEPTACLES	1	20	6
7	12		NECLPIACLES	1,645	2,345	1	-	9400	OFFICE PECEPTACLES	1	20	1.0
.9	22.	1	OTTICE RECEPTINGLES	900		1.600	-	900	OFFICE RECEPTACIES		-20	110
11	20		OFFICE RECEPTACLES	1,280			2 169	100	OFFICE RECEPTACLES	1	10	10
12	20	1	MULTIPUPOSE RECEPT	1.445	2.940	-	-	1.500	PRINTER	1	20	12
15	20	1.1	MULTI PUPOSE RECEPT	1.442		2,440		1.000	IT CLOSET RECEPTACLES	T	20	10
17	25	1.	FOOD WARNER	1.505	1	-	2.600	1.000	IT CLOSET RECEPTACLES	1	20	18
10	20		SPARE		1,000			1.000	IT CLOSET RECEPTACLES	11	20	20
	25		SPARE			-			SPARE	1 1	20	22
22	21	1	SPARE	-					SPARE	1	30	34
25	25	1	SPARE	1					SPARE	1	20	26
	15	2	HP.5	630		1600	-		SPARE	1	20	28
25				6.30			400	-	SPARE	11	20	20
	15	2	897.10	605	603			1	SPARE	1	20	32
				600		9.00			SPACE	3	-	54
35		7	\$40.11	0.92			500			-	-	30
				200	EUO			1		-	-	26
35	15		H0.03	5,50		- 920			SPACE	1.2	-	Vin
NT.				500			500			-	-	42
-		-	CONNECTED	4	0.420	0.920	8.340	TR	25.640	-	-	-
-	-		DEMANC		1.635	6.330	6.672	171	20 584	-	-	-

	1.	225A MB					MITG	SURFACE			+
/DLTAG	8	120/208V	PHASE	3	WIRE	4	AIC .	10.000	-	-	t
DEV	GE	BRANCH CIRCI	JIT	PHA	E LOAD	(V-4)	1	BRANCH CIRCUIT	0	EVIC	ŧ-
VO TRIP	POLE	DESIGNATION	A-V	A	8	Ç	N-V	DESIGNATION	POL	TREE	-NC
1 20*	1	WATER COOLER	900	1,850		1.000	800	WATER COOLER	1	20*	ta
3 20'	1	WATER COOLER	930		1,800		900	WATER COOLER	1	20*	17
5 20'	1	WATER COOLEH	000			1,802	900	WATER COOLER	1	20*	1
7 20*	1.1	WATER COOLER	1 900	1 800	1	1	000	WATER COOLER	1	20*	Ħ
6 20'	3	WATER COOLER	900	1	1 800	1	. 900	WATER COOLER	1	20*	t
11 20*	T.	WATER COOLER	935		1	T,800	000	WATER COOLER	1	20*	ta
	T.	HAND DRYER	1,500	3.900	-		1.500	HAND DRYER	1	20	h
15 20	T	HAND DRYER	1,500		1000		1 500	HAND DRYER	1	20	ħ
17 20	T	HAND DRYER	1 500			3,000	1.500	HAND DRYER	1	20	ts
19 20	. 1	HAND DRYER	1.500	3.000		-	1.500	HAND DRYER	1	20	15
21 20	1	HAND DRIVER	1.500	1.000	3,000		1.500	HAND DRIVER		20	13
23 1 20	1	HAND DIVISION	1.500			3.000	1,500	HAND DRIVER	1	20	÷
25 20	1.	HAND DRIVER	1.505	2.000			1.500	HAND DRYER	1	20	ł5
27 20	T	HAND DRYER	1.596	-	3 000		1.500	HAND DRYER	1.4	30	H
29 20	1	HAND DRYER	1.500			1 3 000	1.500	HAND DRYER		20	H
25 26	1	HAND DRYER	1.500	3.000		1.000	1.600	HAND DOVER		100	E
11 20	1	HAND DRYER	1.657		3.005		1.500	HAND DRYER	1.1	20	H
35 20	1	HAND DRYER	1.500	-		1 000	1.800	HAND DOVED	14	10	Ę
37 20	1	HAND DRYER	1.600	1.000		0.000	1.500	WAND DRYER	1.1	10	H
59 . 211	1	HAND DOVED	1.107	612.00	3 104		1.400	HANG FRUER		419	1
47 20	1	FLUSH/SEW VALVE	1.200		1.001	2.455	1 3 200	STUDIED DRIVEN			H
43 20	1	FITTERPORT VALUE	1.542	1.400			1,200	FURNING ON OF		20	H
45 211	1	ETTENDER VALUE	1.54	1	7 401		1,200	The second second second		20	17
47 20	1	FILISHISBN VALUE	1.34			2 400	1,200	CURPERSING VALUE		14	÷
10 26	1	ELLPLATER AND LEATING	1 355	7.000		1.0.000	7,850	Fildenber unter		100	12
11 20	1	FILLING TIME LOLINE	1.35*	4,000	2.402	1	1,200	PLUSTON VALVE		20	12
11.70		ELLIP MERINA MALLAR	1 205		A. 100.4		1 700	PLUSHISHN, VALUE		20	12
18 1 - 2.00		icounc	1,214			2,000	1,400	LEVER OWN ANTAG	-	20	12
12 . 20	-	CUADE			-			Sharte	1	-00	12
1		COLOE		-	-	-		SPARE	1	-20	34
11 30	-	UNLOS	-					SPARE	-	50	0
11 20	-	NO. A COL	-	-				DPANE	1	-20	19
10 20		anne.						SPARE	1	20	14
10 20	1	OF ANE	_					SPARE	1	20	12
SF 20	1	SPARE				-		SPARE	1	20	6
14 20	-	CD4/CE	-	-		-		SPARE	1	-20	17
1		den en el	-	-	-		-	DPAGE	1	20	17
14	-	anace.		-	-	-		SPACE	1	20	17
1	1	annut.	-	-			-	SHACE	1	20	12
14	1	ar muc	-	-	-	-		BRAGE	1	20	17
2	-	DPACE.			-			SPACE	1	20	18
11	1	SPACE	-					SPACE	1	20	18
13 1	1	5PACE		-				SPACE	1	20	1.8
		CONNECTED		23.400	23.400	22 800	TTL	69 500	-	-	F
		DEMANO		15.720	18.720	18 240	TTL	55 580	-	-	-
											-

AGE	60 12 DLE	0A MB 10/208V BRANCH CIRCUIT	PHASE	1	-		14717	In INFLOR	-	-	-
304	12 DLE	BRANCH CROUT	PHASE	13			100.00	COLOR MARKE			1.1
tip pr	DLE .	BRANCH CHOUT	1181-111	13	WIRE	4	JAIC .	10.000	-	-	+
inp pr	DLE .		PHASE LOAD (V-A)		BRANCH CIR		OUT	DEVICE	1	-	
16		DESIGNATION	V-A	A	8	G	V-A	DESKINATION	POLE	TRIP	NO
	1 11	ECEPTACIES	1.030	2.090	-		1.000	SPORT LTG CONTROLS	1	20	12
20	1. TC	CKET BOOTH RECEPT.	900	-	2.450		1 500	PLAY CLOCK - SOUTH	1	20	4
20	1 P(OLE CANERA	300			800	500	EF-18	1	15	0
20	t P(OLE CAMERIA	300	1,800			1.500	700.2	2	20	t a
20	1 51	PARE	-		5	-	5	SPARE	1	20	35
22	1 54	РАЛЕ						SPARE	1	20	12
26	1 157	PARE		-	-	-		SPARE	1	20	74
13	1 54	PARE			-			SPARE	3	20	16
	3 54	PACE				-		SPACE	1	20	18
							-	SPACE	1	20	20
	-		-		-			SPACE	1	20	22
	1 51	PACE						SPACE	1	20	24
D.	-			2.860	2.405	800	772	7.085	-	-	F
2				2,104	1,924	640	TTL	5,660	-		
	000000000000000000000000000000000000000	0 1 T 0 5 P 0 7 P 0 7 S 0	0 1. DOCKET BOOTH RECEPT 1 POLE CAMERA 0 POLE CAMERA 1 SPARE 1 SPARE 3 SPARE	0 8 TOKETBOOM RECEPT 800 5 POLE CANERIA 300 5 POLE CANERIA 300 5 POLE CANERA 300 5 POLE CANERA 300 7 POLE CANERA 1 SPARE 2 SPACE 1 SPARE 2 SPACE 1 SPARE 2 SPACE 1 SPARE 2 SPACE	0 5 TOST BOOTH RECEPT 000 5 PPOLE CAMPAN 300 5 PPOLE CAMPAN 300 5 SPANE 1 SPANE 1 SPANE 2 SPANE 1 SPANE 2 SPANE	0 1 TUSKI BOOTH 46CEFT 800 2.440 5 POLC CAMERA 0 POLC CAMERA 1 SPARE 1 SPARE 3 SPACE 7 SPACE 2 SPACE 2 SPACE 2 SPACE 2 SPACE 3 SPACE 2 SPACE 3 SPACE 3 SPACE 4 SPACE 5	0 1 TUSET BOOTH RECEPT 000 24400 5 POLE CAMERIA 200 1600 6 POLE CAMERIA 200 1600 7 POLE CAMERIA 200 16	1 10.227 (20)/04 (8/C) (27) 200 2.400 15.00 1 2001 (2006) 200 1.800 500 500 1 2002 (2006) 200 1.800 50 1.800 1 2004 (2006) 200 1.800 5 5 1 2004 (2006) 200 1.800 5 5 1 2004 (2006) 200 1.800 5 5 2 3 304ARE 200 2.800 200 2 3 304ARE 200 2.800 2.800 2 2 1 304ARE 200 2.800 2.800 2 2 1 304ARE 2.800 2.800 2.800 2 7 1 304ARE 2.800 2.800 2 7 7 1 304ARE 2.800 2.800 7 7 7	N TOCKET BOUTH RECEPT 300 2.429 1.50 PLAY CAUCH SOCIAL I POLIC CAURAL 300 1.00 PLAY 1.50 PLAY CAUCH SOCIAL I POLIC CAURAL 300 1.00 PLAY 1.50 PLAY I POLIC CAURAL 300 1.00 PLAY 1.50 PLAY I PLAY SARAE SARAE SARAE SARAE I SARAE SARAE SARAE SARAE SARAE SARAE I SARAE SARAE SARAE SARAE SARAE SARAE I SARAE SARAE SARAE SARAE SARAE SARAE SARAE SARAE </td <td>N TOSCRET BOOM RECEPT DOC 2.400 1.500 PLACE CALCULATION T 1 POLE CALCULATION 1 POLE CALCULATION 1 1 1 POLE CALCULATION 200 1.000 400 500 67.000 1 1 1 SAMAE 200 1.000 400 500 67.000 1 1 1 SAMAE 200 1.000 400 500 67.000 1</td> <td>1 TOSCET BODTH RECEPT 3000 2.439 1.500 FLVP CLOPCN SEQUENT 4 2 1 PROLE CARAGESA 300 1.000 FLVP CLOPCN SEQUENT 1 15 1 PROLE CARAGESA 300 1.000 FLVP CLOPCN SEQUENT 1 15 1 PROLE CARAGESA 300 1.000 FLVP CLOPCN SEQUENT 2 2 1 PROLE CARAGESA 300 1.000 FLVP CLOPCN SEQUENT 3 3 1 PROLE CARAGESA 2 2 2 3</td>	N TOSCRET BOOM RECEPT DOC 2.400 1.500 PLACE CALCULATION T 1 POLE CALCULATION 1 POLE CALCULATION 1 1 1 POLE CALCULATION 200 1.000 400 500 67.000 1 1 1 SAMAE 200 1.000 400 500 67.000 1 1 1 SAMAE 200 1.000 400 500 67.000 1	1 TOSCET BODTH RECEPT 3000 2.439 1.500 FLVP CLOPCN SEQUENT 4 2 1 PROLE CARAGESA 300 1.000 FLVP CLOPCN SEQUENT 1 15 1 PROLE CARAGESA 300 1.000 FLVP CLOPCN SEQUENT 1 15 1 PROLE CARAGESA 300 1.000 FLVP CLOPCN SEQUENT 2 2 1 PROLE CARAGESA 300 1.000 FLVP CLOPCN SEQUENT 3 3 1 PROLE CARAGESA 2 2 2 3

				-						-		-
MA	NS:		125A M8			1		MTG	SURFACE			1.5
YOU	TAGE	(120/208V	PHASE	ja	WIRE	4	AIC.	10,000		1	1
	DÉVI	:E	BRANCH CIRCUIT		PHA	SE LOAD	(V-A)		BRANCH CIRCUIT	D	EVICE	6
NO	TRIP	POLE	DESIGNATION	A.V	A	15	C	VA	DESIGNATION	POLE	TRIP	NO
1	NG	3	PANEL LC1	7,800	8,030			230	DFFICE UGHTS	1	20	2
2				3,000		4,080		1,080	TICKET BOOTH RECEPT	1	20	4
5				3,500			4,000	500	ELEVATOR PIT	1	20	6
1	20	10	RECEPTACLES	720	1,260			540	RECEPTACLES	.4	20	8
0	20	1	COMMUNICATION RECEPT	500	1	1.000	1.000	500	BATH GFI	1	20	10
11	20	1	RECEPTACLE	602		-	1.000	500	PUMP RECEPTACLE	1	20	12
13	20	1	SPARE	-	1,500	-		1,500	PLAY CLOCK - NORTH	1	20	14
15	20	1	SPARE					1	SPARE		20	16
17		3	SPACE				-		SPACE	1.2	-	18
19		-						-		1		20
25							-					
20		2	SPACE	1					SPAGE -	1		24
25												25
27										-	-	126
29		1	SPACE			1			SPACE	1		10
31	20	1.	SUMP PUMP	120	1.020		-	900	CIRCULATION PUMP		15	32
	75	1	EF-16.6.17	500		522		22			-	34
36	20	2	TW-1	1,500			3.000	1,500	TVV-2	2	25	36
37				1.500	3.000			1.500				38
19	40	1	OHP-13	3,000		4,500		1.500	TW-3	1	26	43
41		-		2,000	-	1	4,500	1.500		1000		41
-	-		CONNECTED		14 815	10.402	10.000	-		-	-	
-			CONTRACTION OF CONTRACT OF CONTRACT.		14,810	10.102	14.390	171	12.402	-	_	-

		-	0	PANELE	OAR	D SC	HEDU	JLE N	1A1		-	-
WA)	NS	-	125 A M E	-	-	-	-	WTG	SURFACE - 3R ENCLOSURE		-	ŀ
VOL	TACI	£.()	208/120	PHASE	1	IVIRE	3	AIC	10,000	-		
	DEVN	GE .	BRANCH CIRO.	JIT .	PHA	SELOA	D (V-4)		BRANCH CIRCUIT	04	VICE	ê
NG	TRP	POLE	DESIGNATION	V-A	PH 1	T	PH 2	A-V	DESIGNATION	POLE	THE	ŝ
1	20	2	OHP-2/HP-2	1,500	4.500	-	1	3.000	OHP-9	2	40	13
	1.10			1,500	1		4,500	3.000			-	F
5		2	SPACE		3.000	-		3.600	014010	2	40	6
7					-	-	3,000	1,000			-	-
9					D				SPACE	3	-	10
11		2	SPACE		-	-	0					TC.
12		-			0			1				14
15			100 100 100 100 100 100 100 100 100 100				0		SPACE	4		14
	-	-	CONNECTED		7.500		7,500	TTL.	15.000			P
_			DEMAND		7,500	-	7,500	TIL	15.000			-
					-					-	-	-

	_			PANELE	OAR	D SC	HEDL	LE N	1A2			
MAJ	NS .	-	175 A M.B	-	-	-	-	MTG.	SURFACE - JR ENCLOSURE	-	-	-
9/01	TAGE	1		PHASE	1	WIRE:	3	AIC	10 000		1	T.
-	DEVE	30	BRANCH CIRCI	UT.	PHA	SE LOAD	(A-V)	-	BRANCH CRICLIT	0	EVIC	E
NQ	1100	POLE	DESIGNATION	V-A	PH 1		PH 2	V.E.	DESIGNATION	POLE	TRIP	INC
1	15	2	OHP-14/0HP-14	1,920	4,800			3,000	OHP-11	2	1 40	1 2
				1.600			4,600	3,000		1	1	Î
5	25	2	DHP-478-P-4	1.500	4,500			3.000	OHP-12	2	40	16
			the set of the design of the set	1,500	-		4,500	2.000				1
2		3	SPACE		1,600		Contra Contra	1,600	OHP-15/HP-15	2	115	19
11.				-	-		5 900	1.600		-		
13					2,100	-	-	2,100	CHP-6HP-6	17	25	te
15		3	SPACE	-			2.100	2,100		-	-	t
17		-	1						SPACE	3		1.1
19						-	3	-				2
21		2	SPACE		0	1					-	1.22
23	-		CONTRACTOR OF THE OWNER OF		-		0		SPACE	1	-	124
-	-		CONNECTED	-	12.850		12,800	12	25.650	1	-	t
		-	DEMAND		12,800		12,800	171	25,600		-	t
								-		-	-	

UA3			125A MLO					MTG	SUBFACE		-	+
viói	TAG		125/258V	PHASE	13	WRE	14	610	15.000			-
	DEVI	22	BRANCH CROUT		PHA	SE LOAD	(V-A)		BRANCH CIRCUT		evice.	÷
140	THE	POLE	DESIGNATION	V.A.	A	8	C	V.A.	DECIONATION	100	THE	i.
1	20	3	HOME RECEPTACLE	1,400	2.800	1	-	1.400	PRESS RECEPTACLE	1.1	20	f5
3	20	. 1	PA/SOBRD RECEPTACLE	1,400	-	2,850	-	1,400.	PRESS RECEPTACLE	1.	20	ti
5	20	1	RADIO	1,400			2.800	1,400	VISITOR RECEPTACLE		20	tr,
7	25	1	EXTRA RECEPTACLE	1,400	2,900			1.500	UGHTING	1	20	1 1
9	25	3	SPARE				-		SPARE	1	20	10
11	-	3	SPACE			-		-	SPACE	3		12
13	20		PA CLOSET RECEPTACLE	1,400	1,400	-			1000.00	-	-	1.
15				-		-					-	15
37	15	2	HP13 . 1.7.3.4.5.6	700			750		SPACE	3	1	16
τ¥				700	750		-	-				ts
21	15	1	ERV-3	200		200				1	-	2
23		+	SPACE.						SPACE	. +		29
-	-		CONNECTED		7 100	3 000	1 1.500	TTL	14.302		-	-
			DEMAND		6.240	2 400	2 500	TTL	11.442	1 1		+



HUSSEY GAY BELL

 \frown



THE MEMORIAL STADIUM COMPLEX CHATHAM COUNTY SAVANNAH, GEORGIA

 Tel:
 Function Provide
 March
 March

ELECTRICAL PANEL & EQUIPMENT SCHEDULES

edgeet Bry Dia vin Ny, Checked B Wes, 1925 UWS, 1995 Insue Davis Project Bis, 2004 Entwerds Nis, Eddy, 1

PANELBOARD	SCHEDULE	HA - END ZONE BUILDING
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(44)	NS		WAT MR	1		1		MTG	ISUMPACE			
VOL	TAGE	-	480.217V	PHASE	5	WRE	4	ATC	47 000			
	BEVY	2	BRANCH GROUT		PHA	E LOAD	(V-A)		BRANCH CIRCUIT	D	evice	
NU.	THP	POLE	DEDIGNATION	4.9	A,	8	C	V-A	DESIGNATION	POLE	TRP	NO
1	500	1	PAR4=1 + 61	34.650	38.603			4.250	CHP-1	3	30	2
3				37.170		41,420		4.257				-4
5	· · · ·	C		45,600	1		49.858	a 250	1			4
2	10	3	E= 4	900	4.750		1000	4.250	OH5 J	3	30	1
2				508.		4.250	C. 1	4.250	1	-	1	1
11				566			4.750	4.250				1,
	15	3	EF 5	500	7 000			2.501	049-5	3	15	14
15				500		3,000		2.503				16
	1			503	S		3,000	2,500			· · · ·	18
15	th	1	ET.A.	500	5.800	1.00.00		5,300	CHP/7	2	25	20
21				500		5,800		5 300				22
53				100			5,800	5,593				24
25	10	7	PANEL MAIL	7.500	12.000			5.300	OHP &	3	25	26
27	1.1			7,500		12,800	£	5.300				28
79	100	-2	PANEL MA2	12.000	in the second		78 100	5,300				33
31		1.0	Sector Street Street	12,800	15,995			2,103	UH61	1	15	32
23	12	T.	WHIT WALL HEATERI	2,000		5.100		2,100	04-2	1	括	24
	15	1	WHO IWALL HEATER	7.000			5.100	3,100	UH-3	1	15	31
37	15	τ.	WHU WALL HEATERI	2.003	5.100			3,100	UH-4	1	15	3.1
20	15	1	WHA IWALL HEATER	2.000		5 :00		3,165	UHS	1	15	4
41	35	1	WITH WALL HEATER!	2.009			3.260	1,3/50	EXTEMOR LIGHTING	1.1	20	4,
£)	220	1	200 GAL WATER HEATER	40,000	42.533	10000		2,573	LIGHTS (WEST SIDE)	1.	20	4
45				43.000		42.217		2,317	LIGHTS (EAST SIDE)	1	30	-
87				40.000	1		42.542	2.542		1	20	4
47)	80	3	ELEVATOR	11,100	11,225			125	RE-Q	1	15	55
51				11,100		13,180		2.000	WH 5	1.1	15	54
63.				10,000	i war	1.1.1	11 100	in	erecence	ee.	er.	B
82.					23,430	in the same		23,400	PANELLATA	3	125	12
67						23,400	1. 3	23.400				51
- 0						1.1	72 800	22,800			1.1	0
110						-		000	ARABAN COCO		-20-	19
05									SPARE	1	20	1.94
69									SPACE	3	_	0
67.	-	10	ISPACI,							-		4
12				-		-	-			1	-	1.5
52								-	SPACE	0	-	174
12		2	SPACE		1		-					124
32					1							12
2	_			-		-			21.4CF	- 3	-	122
12		100	SPACE				-			-	-	15
51	-			-	-		-			+ -	-	12
25	-				1				Secole		-	1.04
			CONNECTED	-	1453.308	156 787	1946.402	112	488,497			1
			DEMANE		130.649	125 430	133 122	TT	349,158			1

MAI	NS :		403A MLO					MTG	SURFACE			
võ.	TAGE		480/277V	PHASE	3	WIRE	4	A.I.C.	42.000		-	
	DEVK	22	BRANCH CIRCUIT	f.	PHA	SE LOAC	(N-A)		BRANCH CIRCUIT	D	VICE	_
NO	TRP	POLE	DESIGNATION	44	A	15	C	A-V	DESIGNATION	PCLE	THE	NO
3	-25	3	PANELLB	3.8953	5,782			1,002	CONCOURSE LIGHT NORTH	1	20	2
		-		2.405		5.024		2.619	CONDOURSE LIGHT SOUTH	1	20	4
-		1	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	800	-		1,802	1,000	ENTRY LIGHTS	1	20	.6
7.	20	1	INVERTER (INV-1)	2.200	2,200				SPARE	1	20	- 8
4	20	1	SPARE						SPARE	1	20	10
11	20	. 1	BALLFIELD LIGHT POLE 1	6.000	-		12.000	8,000	BALLFIELD LIGHT POLE 3	3	20	12
13	20	2		6.000	12.000			6.000			20	14
15				6.000		12,000		6.000		-		
17	20	1	SPARE						SPARE	1	20	
10	30	3	BALLFIELD LIGHT POLE 2	6.000	12,000			8,000	BALLFIELD LIGHT POLE 4	3	30	20
21				6.000		12.000		6,000				
23			· · · · · · · · · · · · · · · · · · ·	6.000			12.000	8,000				
25	15	-3	BALLFIELD LIGHT POLE 1	2.680	4.000			2,000	BALLFIELD LIGHT POLE 3	3	15	26
27				2.000		4,000		2.000				
29			and the second s	2,000			4,000	2,000	1			
31	15	3	BALLFELD LIGHT POLE 2	2.000	4.000			2,000	BALLFIELD LIGHT FOLE 4	3	15	32
23		-	100400 1000 00 00 10 00 00 00 00 00 00 00 00	2.000		4,000		2.000				
-	_	_		2,000			4,000	2.000	1		-	
37	20	. 1	SPARE	-	-	-			SPACE	3	-	38
	20	2	INVERTER	2,000		3,000						40
				3,000			3,000					42
-	-	-	CONNECTED		39.962	40.024	36.800	TTL:	115,805	-	-	-
-			DEMAND		30.982	40.024	36 800	TTL :	116.805			-

			PANELBOAR	D SC	HEDU	LE HO	- W	EST C	ONCOURSE			
17.4.1	10	-	2354 MD		-			MTG	SUBFACE		-	
VIDE	Táci		481/2774	BMARE:	1	WIEF.	4	410	42.000			
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THE MEMORIAL STADIUM COMPLEX CHATHAM COUNTY SAVANNAH, GEORGIA

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Lamon Lamon <th< td=""><td>OHP-9</td><td>208</td><td>1</td><td>29</td><td>-</td><td></td><td>29.0</td><td>39.0</td><td>40</td><td>-</td><td>[60/2/3R</td><td>TIC/W/3 NO 8.5 1 NO 10/01</td></th<>	OHP-9	208	1	29	-		29.0	39.0	40	-	[60/2/3R	TIC/W/3 NO 8.5 1 NO 10/01
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Control Control <t< td=""><td>1,2,3,4,5,5,7,6)</td><td>- 617</td><td>1</td><td></td><td></td><td>0.05</td><td>1.2</td><td>4.0</td><td>15</td><td>-</td><td>Dies.</td><td>1/201 00/2 M2 12 8 1 M2 12 /00</td></t<>	1,2,3,4,5,5,7,6)	- 617	1			0.05	1.2	4.0	15	-	Dies.	1/201 00/2 M2 12 8 1 M2 12 /00
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EVEX. EVEX. I	22.5	377	-	-	-	0.016	10	10	15	-	E.m.	1/222 MU 2 NO 12 & 1 NO 12 (5)
Enricition (14/16) Total Total <td>CHU.N</td> <td>100</td> <td>1</td> <td>15</td> <td></td> <td>- ward</td> <td>1.5</td> <td>20</td> <td>15</td> <td>-</td> <td>NOTE S</td> <td>1/2°C W/2 NO 12 & 1 NO 12 (0)</td>	CHU.N	100	1	15		- ward	1.5	20	15	-	NOTE S	1/2°C W/2 NO 12 & 1 NO 12 (0)
District Tuber Distrin Tuber District Tuber District	FF-16 17 18 19	120	11	1	-	-	10	10	15	-	See	1/2°C W 2 NO 12 & 1 NO 12 (G)
SIREDUXTOR/FUNED 100 1 172	SUMP PLMP	120	1	85	-	-	85	110	20	-	Set	1/2°C W/2 NO 12 & 1 NO 12 (G)
NOTES: 1. RECEIPTO SECTION X01/35 FOR THE COORDINATION AFF DAVIT THAT MUST BE SUBMITTED AND APPROVED BEFORE MATERIALS MAY BE ORDERED. 2. INCREESS DASED OF SHOLE POOR CONCENTION TO AN ELEVANCE TO ADMILIANCE DESCRIPTION OF THE DESCRIPTION OF	CROULATION PUMP(2)	120	1	72	-	-	7.2	10.0	15		Sm	1.2°C W/2 NO. 12, 5 1 NO. 12 (G)
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2: THE DESKIT & BASED ON SHALE POWT COMMENTIONS TO ALL BOWTHAIT, LAKESS HOTE DOTERVINGE DUVINEES EXTRATES REQUIRED BY DV XI, IT & SHOWN AS SIZE 1 ETC ALL STATTERS HALL BE COUBINATION TYPE UNLESS HOLATED OTHERWISE. DISCOME BHOWN AS 3001, ETC - THE BADORI HERCINSE POWD WITH THE OLITIODU UNIT FROME'S SHALL STATTERS HOLD TOOLS BWOTH ON LIKE SHOLATED OTHERWISE. DISCOME I FOR COMMENTION FROM THE COUSED UNIT FROM THE SHOWD AS UNIT FROM THE SHALL STATTERS FOR THOM THE SHOW OF THE SHOW OF THE RADORI HERCINSE POWD WITH THE OLITIODU UNIT FROM THE SHALE SHOW OF THE SHOW OF THE SHOW OF THE SHOW OF THE RADORI HERCINSE POWD WITH THE OLITIODU UNIT FROM THE SHALE SHOW OF THE SHOW OF THE SHOW OF THE SHOW OF THE SHOW OF SHOW OF THE SHOW OF THE SHO	1 - REFER TO SECTION 260	20 FOR 7	HE COOR	DINATION	AFFIDA	THAT	MUST DE	SUBMITTE	O AND API	PROVED	EFORE M	ATERIALS MAY BE ORDERED
If the cost of subcontrance have been contractioner for a cost of the subcontraction of the cost of t	1 - REFER TO SECTION 260	120 FOR T	HE COOR	DINATION ONINE CTV	AFFIDA	TAHT THAT	MUST BE	SUBMITTE	D AND API	PROVED 8	BEFORE W.	ATERIALS MAY BE ORDERED
ANOTATI AS 2001; STD. In the ASSOCIATION AS 2001; STD. In the ASSOCIATION RELEASED AND ASSOCIATION AS A SECTION AS A SEC	A MALERC STARTER - OF	DI ROED AV	1 00/ 34	IT IS SUM	ANN AT 1	CITE 4 FT	TC ALL FY	AUTTERF 4	MALL RE 1	OMBINA'	YON TYPE	IN ESS INDICATED OTHERWISE DISCOMMENT
1. THE MOOD NUM BECINES POMER FIGURE FOUND OLIT FROME IS AND 3 POLE TOOCE SWITCH ON USE DE OF ADOREUME REFER TO LANT CURS INCOMECTION EXEMPLETES TO SWITCH AND ALCONDOL IN SUPPORT OF A LAND ALCONDENDER AND INSTALLATOR S BASIS OF DESIGN IS PLUS COMMECTED TO RECEPTAGLE LOCATE RECEPTAGLE IN ACCESSIBLE AREA WITHIN REACH OF COMO 5 COMPLETE MULTIPLE INF TO SAME BRANCH CHILT AS LUE DO RE VALES DIRECTORY OF DUP IN SPACE SWITCH AD INSTALLATOR 5 COMPLETE MULTIPLE INF TO SAME BRANCH CHILT AS LUE DO RE VALES DIRECTORY OF DUP IN SPACE SWITCH AD INSTALLATOR 5 COMPLETE MULTIPLE INF TO SAME BRANCH CHILT AS LUE DO RE VALES. DIRECTORY OF DUP IN SPACE SWITCH AD INSTALLATOR 5 COMPLETE MULTIPLE INF TO SAME BRANCH CHILT AS LUE DO RE VALES. DIRECTORY OF DUP IN SPACE SWITCH AD INSTALLATOR 5 COMPLETE MULTIPLE INF TO SAME BRANCH CHILT AS LUE DO RE VALES. DIRECTORY OF DUP IN SPACE SWITCH AD INSTALLATOR 5 COMPLETE MULTIPLE INF TO SAME BRANCH CHILT AS LUE DO RE VALES. DIRECTORY OF DUP IN SPACE SWITCH AD INSTALLATOR 5 COMPLETE MULTIPLE INF TO SAME BRANCH CHILT AS LUE DO RE VALES. DIRECTORY OF DUP IN SPACE SWITCH AD INSTALLATOR 5 COMPLETE MULTIPLE INF TO SAME BRANCH CHILT AS LUE DO RE VALES AND AD INSTALLE SMIT FAN 5 COMPLETE MULTIPLE TO TO RECENT AD LIVE DO REALES. DIRECTORY OF DUP IN SPACE SWITCH AD INSTALLATOR 5 COMPLETE MULTIPLE TO TO RECENT AND ADDRESS AND AD INSTALLES AND FAN 5 COMPLETE MULTIPLE TO TO RECENT AD LIVE DO RECENT AD ADDRESS AND AD INSTALLES AND FAN 5 COMPLETE MULTIPLE AD TO TO RECENT AD LIVE AD ADDRESS AND AD INSTALLES ANT FAN 5 COMPLETE AD TO RECENT AD DRESS AND AD ADDRESS AD INSTALLES ANT FAN 5 COMPLETE AD ADDRESS ADDRESS AD ADDRESS ADDRESS AD ADDRESS AD ADDRESS ADDRESS ADDRESS AD ADDRESS ADDRESS ADDRESS AD ADDRESS ADDRE	SHOWN AS 30/3/1, ETC.	JOHED 8	DIA 20	11 19 540	raid 1923	MAE 1 E	IC REL SI	PHICHS S	MACC BE C	Jone of INAL	MA ITPE	UNLESS MUNICIPALITY OF MERINDE DISCONNECT
LINE CONTRACTOR DECEMBER AND ADDRESS AND ADDRE ADDRESS AND ADDRESS	4 - THE INDOOR UNIT RECE	NES POW	ER FROM	THE OUT	TOOOR I	INT PRO	OVIDE 30 A	MP. 3 PO	E TOGGLE	SWITCH	ON LINE S	IDE OF INDOOR UNIT REFER TO UNIT OUT-SHEE
S - CONNECT MULTIPLE INP TO SAME BRANCH CREDIT AS USTED ON PAREL SCHEDULE PROVIDE 30 AMP. 3 POLE SWITCH AS OSCONNECTING FOR EACH HP T - CONNECT EXHLUST VAN TO THE LIGHTING CHEDIT IN SAME SPACE. TURKING ON OF LIGHT IN SPACE SHALL START FAX.	E BASK OF DESIGN IS BUT	VS CONNE	CTED TO	HE/CEPT.	LOIN I	OCATE E	IFCEPTAC	IF IN ACC	FROM F 4	OFA WITH	IN REACH	DE COBD
7 - CONNECT EXHAUST FAN TO THE LIGHTING CHCUIT IN SAME SPACE. TURNING ON OF LIGHT IN SPACE SHALL START FAN	6 - CONNECT MULTIPLE IND	TO SAME	BRAN	CREUT	ASLIST	ED ON PA	ANEL SCH	DARE P	ROVIDE 10	AMP 3P	CLE SWIT	CHAS DISCONNECTING FOR EACH HP
	7 - CONNECT EXHAUST FAN	TO THE L	KIHTING	CHCLET #	SAME	SPACE	TURNING I	ON OF LIG	HT IN SPA	CE SHALL	STARTEA	N
15 - PHOVIDE SAME SIZED ENGLOSED CRIGUT BREAKER, WITH SHUNT THP MODULE, IN ELEVATOR MACHINE ROOM IN ADDITION TO BREAKER IN PANEL. CONFIRM ELEV	S - PHOVIDE SAME SUZED F	NCLOSED	CIRCUIT	BREAKER	R WITH	SHUNT T	REP MODUL	E. IN ELE	VATOR MA	CHINE RC	OM IN AD	OTION TO BREAKER IN PANEL CONFIRM ELEVA!
HORSEPOWER, RATING, WITH CUTSHEETS PROR TO ELECTIVICAL GEAR BHOP, DRAWING SUBMITTAL	HORSEPOWER RATING WO	HOUTSH	IT IS PRO	OR TO FL	COUTO3	LGEAR	SHOP DRU	WING SU	INTUME.			

MAIN SWITCHBOARD SCHEDULE AM edit acct: 80440 edit acct: 11504 edit acc IPHASE 2 WITE 4 ATC 85,000 UT PHASE LOAD (V.A) 11 13 225 3 PANEL HC 15 CONVECTED DEWAND

	-								DISCO	INNECT	
ITEM	VOLT	PH	AMPS	ΗΡ	LW	TTL AMPS	MCA	NOCP	BY DIV 23	BY DIV 26	CIRCUIT REQUIREMENTS
CELECTRIC CHARGEROLER (2)	208		28			26.6	35.0	26		20:2/1	3/4"C W/ 3 NO & 4 1 NO 10 (G)
OTE 1	208		68		52	64.0	100 0	100		1(2)001	1-14°C W 5 NO 3 & 1 NO 8 (S)
CONCESSIONS FEE (2) 0. CONCESSIONS FREEZER (3) CONCESSIONS FOR MAKER (2)	129 120 120	1 	12			12.0 15.0 15.0	11.0 12:0	20 15		REC REC REC	12°G W 2NO 12.4 1 NO 12.6 13°C W 2NO 12.4 1 NO 12.6 13°C W 2NO 12.4 1 NO 12.6 13°C W 2NO 12.6 1 NO 12.6
NOTES:									1		

