Stormwater Management Program for:
MS4 Permit
Alabama Agricultural and Mechanical University

Operator:

Alabama Agricultural and Mechanical University
Normal, Alabama

BMPP Contact(s) / QCP:

GEO Solutions, LLC
Barbara R. Lehman, P.E.
7201 Opportunity Boulevard
Huntsville, Alabama 35810
(256) 837-6708

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BMPP APPENDICES

1.0 SITE INFORMATION

Alabama Agricultural and Mechanical University (AAMU) encompasses 2,300 acres. The campus includes roadways with underground storm sewer systems as well as open fields with drainage swales and ditches. The entire campus outfalls at one location at the southwest portion of the property. See Appendix A for the General Location Map.

The ultimate receiving water for Alabama Agricultural and Mechanical University MS4 is the Tennessee River (Region 06). The Subregion and Basin is Middle Tennessee Elk (06-03-00). The Subbasin is Wheeler Lake (06030002). The Watershed is Indian Creek (06030002-05) and the Subwatershed is Huntsville Spring Branch (060300020502). The onsite receiving water is Normal Branch which traverses the property from north to south.

Project/Site Name: Alabama Agricultural and Mechanical University
Latitude/Longitude of Facility Front Gate: 34.784190, 86.572255
Receiving Water: UT to Pinhook Creek 34.771011, 86.582422

The MS4 Permit was obtained July 7, 2017 and is filed under Alabama Agricultural and Mechanical University. The permit number is ALR040061.

Responsible Official: Mr. Brian Shipp, Facilities and Administrative
Responsible Official Phone Number: 256-382-4276

BMPP Contact:

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2.0 NATURE AND SEQUECE OF CONSTRUCTION ACTIVITY

The Alabama A&M Campus is constantly growing. In addition to the existing stormwater flow through the campus, there may also be active construction projects within the property boundaries. The construction will typically consist of the demolition of an existing building, clearing of debris, grading and construction of a new building and associated parking areas.

The existing storm sewer system includes curb inlets on paved roadways that lead to an underground storm sewer. The storm sewer system discharges into Normal Branch which traverses the property from north to south. In addition to the underground system, there are several drainage swales and ditches across the property that also lead to Normal Branch. See Appendix B for the Stormwater System Map.

During active construction and water testing, the underground lines may require flushing. These will be conducted in a controlled manner so as not to discharge sediment off site.

3.0 CONSTRUCTION ACTIVITY

The Alabama Department of Environmental Management (ADEM) currently requires a General National Pollutant Discharged Elimination System (NPDES) permit for land disturbance/construction activities one (1) acre or greater in size. This permit requires an Erosion Control Plan and a minimum of monthly inspections and reporting. In addition, the reports associated with NPDES compliance are to be submitted to ADEM with a Request for Termination at the close of the project. Prior to construction and land disturbance on the Alabama A&M Campus, a General Permit will be obtained. The inspections will be conducted by a representative of Alabama A&M to ensure that these sites remain compliant under the MS4 permit as well.

Final stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating or other earth disturbing activities have permanently ceased on any portion of the site. Temporary stabilization of disturbed areas must be initiated immediately whenever work toward project completion and final stabilization of any portion of the site has temporarily ceased on any portion of the site and will not resume for a period exceeding thirteen calendar days.

4.0 BEST MANAGEMENT PRACTICES IMPLEMENTED ON SITE

4.1 BMPs for New Construction

The Best Management Practices (BMPs) for new construction sites will be site specific. They will address controlling stormwater flow onto and through the project, stabilizing soils and slopes, protecting inlets and providing a perimeter controls to prevent the migration of sediment offsite. These BMPs will be inspected regularly according to the NPDES permit and repaired as needed.

13 Day Rule – Soil left undisturbed for more than 13 days will be stabilized with mulch for temporary cover and mulch and grass seed for permanent cover. If sediment reaches 50% capacity of the BMP, sediment will be removed. Sediment cleaned from these BMPs will be removed and disposed of properly. A designated sediment disposal location will be identified on the site. A suitable location will be on level ground and situated away from roads, water features including swales and streams, and storm sewer inlets.

4.2 BMPs for Existing Conditions

The Campus of Alabama A&M is active during the college semesters in the fall and spring. During holidays and summer, the campus is less active. Everyday activities will require that the roads and inlets are free of sediment and trash that would result in illicit discharges from the property. Measures should be taken to prevent the sediment and trash from entering the roads and drainage swales. All bare soils and unstable slopes should be stabilized with vegetation and proper grading to prevent further erosion.

Improvements to existing utilities or the installation of new utilities will require proper BMPs to prevent migration of sediment. These projects may be less than one acre and will not require a NPDES permit, however, BMPs must be installed.

4.3 Good Housekeeping BMPs

All vehicles kept on the site need to be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage.

Petroleum products will be stored in labeled tightly sealed containers. Any asphalt substances used on-site will be applied according to the manufacturer's recommendations.

No fueling, servicing, maintenance, or repair of equipment or machinery will be done within 50 feet of a stream, or within 100 feet of a stream classified for public water supply (PWS) or Outstanding Alabama Water (OAW), or designated as an Outstanding National Resource Water (ONRW) or a sinkhole.

Only designated entrances will be used for construction access to the site. Mud tracked from the site onto streets and roads will be cleaned on a daily basis if needed. Tracked mud and sediment will be removed with shovels, brooms and/or street sweeper. Removed mud and sediment will be disposed of properly.

Concrete trucks will be allowed to wash only in locations where discharge is directed to a sediment basin or an approved sediment barrier. It is not permissible to discharge concrete wash directly to streams or storm drains.

No fuels, oils, lubricants, solvents, or other hazardous materials can be disposed of on the site. All hazardous material must be properly disposed of in accordance with state law.

Solid waste will be disposed of in accordance with state law. Dumpsters or other collection facilities must be provided as needed.

Water for pressure testing sanitary sewers, flushing water lines, etc., may be discharged only in approved areas and to prevent discharging to surface waters. Discharge of hydrostatic test water may require additional permitting, particularly if chlorinated public water is used.

All materials stored on-site will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.

Products will be kept tightly sealed in their original containers with the original manufacturer's label.
Whenever possible, all of a product will be used up before disposing of the container.

Manufacturer's recommendations for proper use and disposal must be followed. See Material Safety Data Sheets for product of concern.

The site superintendent or a designated employee will inspect daily to ensure proper usage, storage and disposal of materials.

5.0 Corrective Action

Any poorly functioning erosion controls or sediment controls, non-compliant discharges, or any other deficiencies observed during the inspections shall be corrected as soon as possible, but not to exceed five days of the inspection unless prevented by unsafe weather conditions.

In the event of a breach of a sediment basin/pond temporary containment measures shall be taken within 24 hours after the inspection. Permanent corrective measures shall be implemented within five days of the inspection; however, if permanent corrective measures cannot be implemented within the timeframes provided herein the Permittee shall contact the Department.

The operator shall promptly take all reasonable steps to removed, to the maximum extent practical, pollutants deposited offsite or in any waterbody or stormwater conveyance structure.

6.0 CERTIFICATION AND NOTIFICATION

I certify under penalty of law that a comprehensive Construction Best Management Practices Plan (CBMPP) for the prevention and minimization of all sources of pollution in stormwater and authorized related process wastewater runoff has been prepared under my supervision for this site/activity, and associated regulated areas/activities. The CBMPP meets the requirements of this permit and if properly implemented and maintained by the operator, discharges of pollutants in stormwater runoff can reasonably be expected to be effectively minimized to the maximum extent practicable according to the requirements of ADEM Administrative Code Chapter 335-6-6-.23 and this Permit. The CBMPP describes the erosion and sediment control measures that must be fully implemented and regularly maintained as needed at the permitted site in accordance with sound sediment and erosion control practices to ensure the protection of water quality.

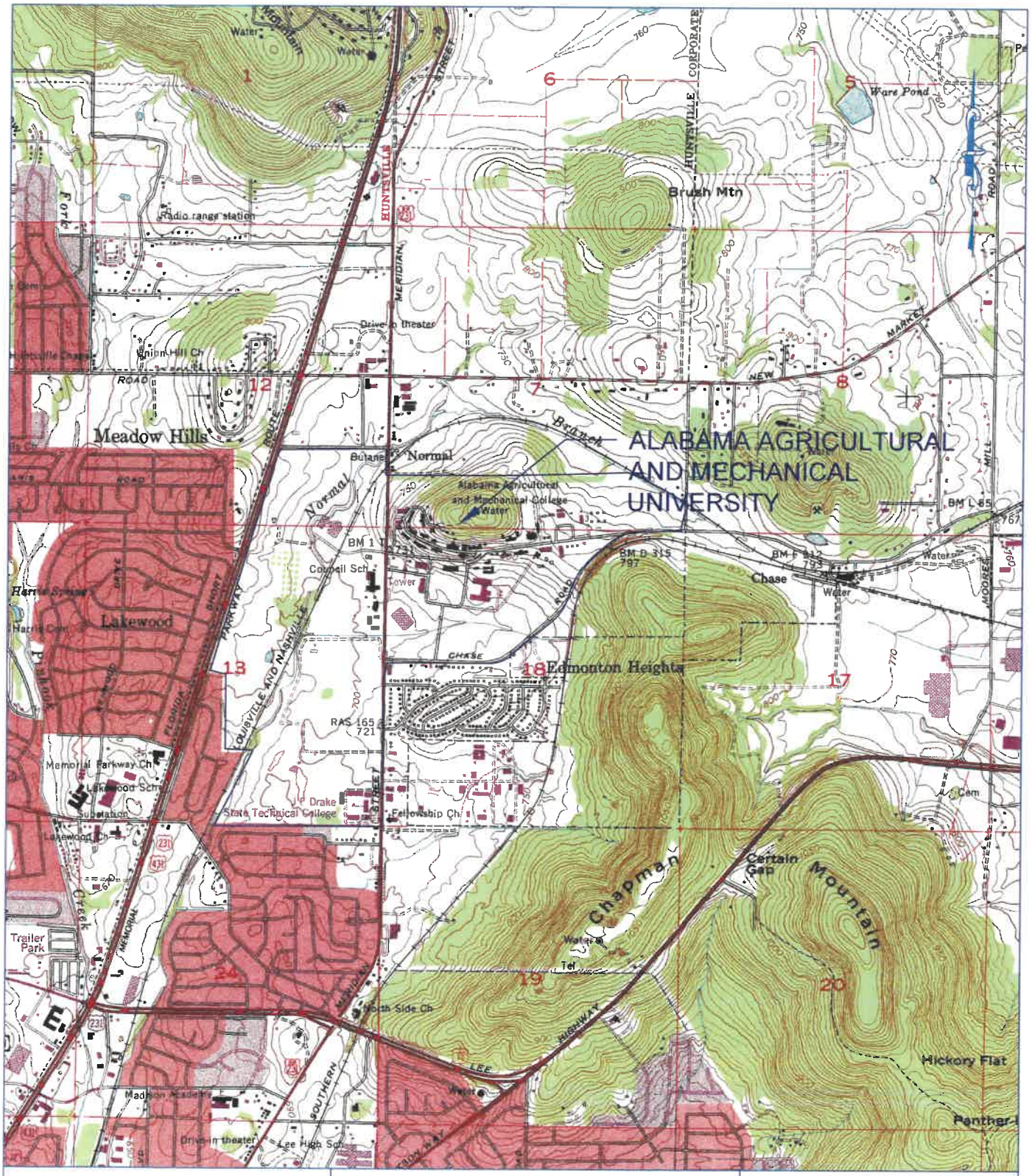
Name: Barbara R. Lehman, P.E. Title: Project Manager

QCP Designation/Description: Professional Engineer Registration/Certification: 32444

Address: 7201 Opportunity Blvd, Huntsville, AL Phone Number: 256-837-6708

Signature: Barbara Lehman Date: 7/30/19

Appendix A
General Location Map



ALABAMA AGRICULTURAL AND MECHANICAL UNIVERSITY
NORMAL, ALABAMA

FIGURE 1

SITE LOCATION PLAN

GEO SOLUTIONS, L.L.C.
Geotechnical Engineering and Materials Testing Services

7201 Opportunity Boulevard
Huntsville, Alabama 35810
PH (256)837-6708 FX (256)837-6702

SCALE:	1" = 2500'
PROJ:	17-0350
DATE:	5/25/2019
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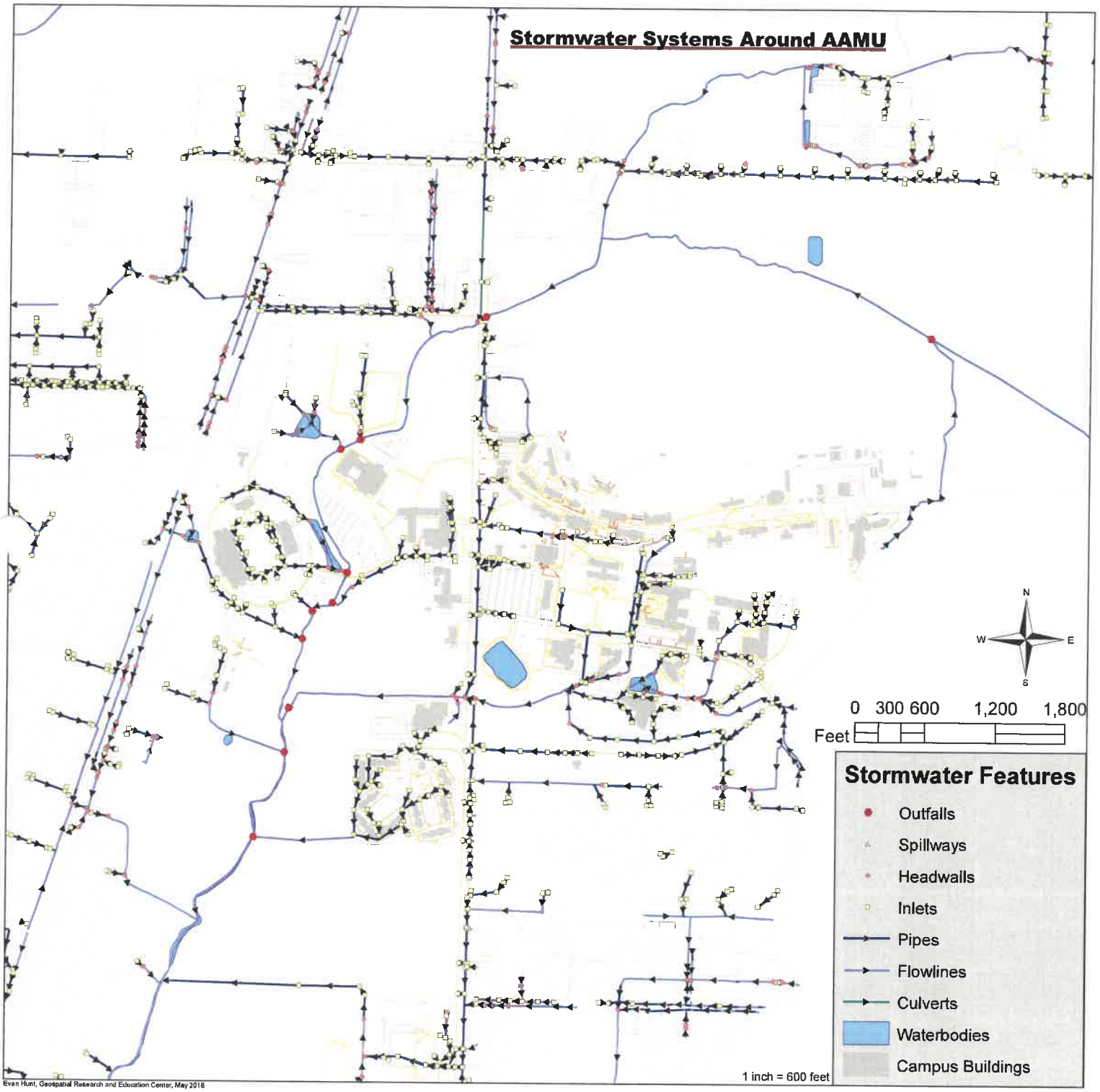
Appendix B
Stormwater System Map


Stormwater Systems Around AAMU
N
W
E
S
0 300 600 1,200 1,800
Feet
Stormwater Features
Outfalls
Spillways
Headwalls
Inlets
Pipes
Flowlines
Culverts
Waterbodies
Campus Buildings
1 inch = 600 feet
Evan Hunt, Geospatial Research and Education Center, May 2018