

**SUPPLEMENTAL COMPREHENSIVE INVESTIGATION
SAMPLING AND ANALYSIS PLAN**

**FOR
THE ALABAMA ARMY NATIONAL GUARD (ANG)
ORGANIZATIONAL MAINTENANCE SHOP (OMS-28)
THE FORMER BROOKLEY AIR FORCE BASE
MOBILE, ALABAMA**

MARCH 2008

PREPARED FOR:



**U. S. ARMY CORPS OF ENGINEERS – MOBILE DISTRICT
MOBILE, ALABAMA
CONTRACT NO. W91278-06-D-0066
TASK ORDER 0015**

PREPARED BY:

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PREFACE

This Sampling and Analysis Plan (SAP) was prepared for the United States Army Corps of Engineers (USACE) Mobile District for the purpose of implementing a Supplemental Comprehensive Investigation (CI). The limited objective, along with the evolving knowledge of site conditions and chemical effects on the environment and health, must be considered when evaluating this plan.

This Plan was prepared by Aerostar Environmental Services, Inc. (AEROSTAR), for the Supplemental CI associated with the Alabama Army National Guard (AANG) Organizational Maintenance Shop 28, herein identified as OMS-28, as part of the former Brookley Air Force Base, Mobile, Alabama.

AEROSTAR is conducting the work under contract with the USACE, Mobile District, Mobile, Alabama. Ms. Melissa Shirley is the USACE Technical Manager (TM). The AEROSTAR Program Manager (PM) is Mr. Marshall Eschete.

This plan is prepared in two parts. Part I is the Field Sampling Plan (FSP) and Part II is the Quality Assurance Project Plan (QAPP).

The Sampling and Analysis Plan (SAP), which consists of a Field Sampling Plan (FSP) and a Quality Assurance Project Plan (QAPP), details the procedures and methods that will be taken to ensure that all field sampling activities and analytical methods are of sufficient quality to meet the intended data uses. The FSP, Part I of the SAP, presents the sampling objectives and rationale as well as the procedures and methods for conducting field activities; sample chain-of-custody, handling and shipment; field documentation; and corrective action planning. The QAPP, Part II of the SAP, presents the data quality objectives, sampling locations and procedures, and field analytical procedures (including calibration procedures and frequencies). In addition, the QAPP details acceptable laboratory procedures, sample holding time and preservation requirements, as well as internal quality control (QC) checks, performance and system audits, preventive maintenance, and data reduction, validation, and reporting.

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LIST OF ACRONYMS

AANG	Alabama Army National Guard
AEROSTAR	Aerostar Environmental Services, Inc
ADEM	Alabama Department of Environmental Management
AFB	Air Force Base
CI	Comprehensive Investigation
EISOPQAM	Environmental Investigations Standard Operating Procedures and Quality Assurance Manual
FSP	Field Sampling Plan
OMS	Organizational Maintenance Shop
PM	Project Manager
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
QC	Quality Control
SAP	Sampling and Analysis Plan
TM	Technical Manager
USACE	United States Army Corps of Engineers
WP	Work Plan

1.0 INTRODUCTION

This Sampling and Analysis Plan (SAP) for the Supplemental Comprehensive Investigation (CI) at the Alabama Army National Guard (AANG) Organizational Maintenance Shop 28 (OMS-28), located within the former Brookley Air Force Base (AFB), is based upon general information and conditions at the site as described in the Work Plan for Contract Number W91278-06-D-0066, Task Order 0015. The SAP was prepared to address all requirements specified in USACE guidance documents, Requirements for the Preparation of Sampling and Analysis Plans, EM-200-1-3, February 1, 2001. All activities will be performed in accordance with Alabama Department of Environmental Management (ADEM) requirements following the Alabama Environmental Investigation and Remediation Guidance, March 2002, Revised October 2002, Revised September 2005. Additionally, all activities will be performed in accordance with the United States Environmental Protection Agency, Region IV, Environmental Services Division, Environmental Investigations Standard Operating Procedures and Quality Assurance Manual, November, 2001 (EISOPQAM).

The SAP will ensure that field sampling procedures, analytical methods selected, and chemical analytical data are of sufficient quality to meet the intended data uses.

This SAP consists of a Field Sampling Plan (FSP) and a Quality Assurance Project Plan (QAPP) which are presented as Parts I and II, respectively. All referenced sections, figures, tables, and attachments can be found within the respective document, unless they are specifically referenced in other documents.

As specific conditions and additional information warrant, this SAP will be amended or revised to include additional site-specific Quality Assurance/Quality Control (QA/QC) procedures. Should additional phases of work be required, an addendum will be prepared to cover those activities.

At appropriate times, the USACE TM, or designated representative, may review the progress and technical adequacy of the work conducted by AEROSTAR. Such review will not relieve the AEROSTAR from performing all contract requirements, except as may be waived in writing by the USACE TM.

The AEROSTAR PM will notify the USACE TM at least five working days in advance or proposed site visits or immediately upon decision to visit the site. Confirmation of site visits will be made immediately prior to the site visit.

During field activities, AEROSTAR will complete Daily Quality Control Reports. The reports will be prepared and signed at the end of each day by an on-site professional, and reports will be mailed to the USACE TM at the end of each week. The reports will describe all work being performed by the AEROSTAR and any of its subcontractors. One copy, suitable for reproduction, will be submitted. If required, AEROSTAR will correct any errors or omissions in the reports.

Project description, background, organization, illustrations, tables and schedule are addressed or referenced in the Work Plan (WP) or other subplans unless otherwise included in this subplan.

PART I FIELD SAMPLING PLAN

The FSP, presents the background, sampling objectives and rational as well as the procedures and methods for conducting field activities; sample chain-of-custody, handling and shipment; field documentation; and corrective action planning.

PART II QUALITY ASSURANCE PROJECT PLAN

The QAPP presents the data quality objectives, sampling locations and procedures, and field analytical procedures (including calibration procedures and frequencies). In addition, the QAPP details acceptable laboratory procedures, sample holding time and preservation requirements, as well as internal quality control (QC) checks, performance and system audits, preventive maintenance, and data reduction, validation, and reporting.