

ISABELLA AGUIRRE

Staff Professional

Education

ME – Environmental Engineering, Texas A&M University

BS – Environmental Engineering, Texas A&M University



Isabella Aguirre

Professional Experience

Ms. Aguirre is responsible for assisting with preparation of various engineering plans, calculations, surveys, and air compliance and permitting applications. She also has experience with Civil3D software to assist in CAD design.

Ms. Aguirre works with various permitting mechanisms, including New Source Review (NSR) permits, permits-by-rule (PBR), and standard permits. Experience includes multiple air permitting projects through the “standard permit” and PBR mechanisms; assisting with emissions calculations, preparing site layout maps, completing requisite forms, and regulatory compliance. Additional experience includes Title V operating permits and greenhouse gas reporting projects, as required by U.S. EPA rules. In this capacity, she has in-depth familiarity with the New Source Performance Standards (NSPS) and National Emissions Standards for Hazardous Air Pollutants (NESHAPS) program under 40 CFR 61 and 63; Title V compliance reporting; and emissions inventory reporting. She has assisted with several NSPS Tier 2 sampling and analysis reports.

Ms. Aguirre has performed site investigations for an enclosed structure over a closed municipal solid waste landfill (CMSWLF); preparation of Subchapter T Development permit applications and related support documents; hydraulic and hydrologic analysis of landfill drainage systems using such software as Hydrologic Engineering Center’s Hydrologic Modeling Systems (HEC-HMS) and Hydrologic Engineering Center’s River Analysis System (HEC-RAS); and assistance in development of construction plans and specifications. The following are representative of her project experience:

Solid Waste Facility Design and Permitting

Preparing Subchapter T Development permit applications, including preparing CAD drawings (plan views and details), and related support documents.

Permitting and design of a new landfill for the City of Waco, including drainage and floodplain analysis.

Developed surface water drainage plan, modeling the hydrology and hydraulics for surface water drainage system. The surface water drainage plan illustrates the pre- and post-development conditions of the proposed landfill. In addition, Developed a floodplain analysis study of the reservoir drainage area which demonstrated that the drainage system would not affect the floodplain. Technical responsibilities included using either the Rational Method, Synder Method, Technical Release – 55, HEC-HMS, HEC-RAS, etc. for pre- and post-development conditions.

Preparation of the Conditional Letter of Map Revision (CLOMR) for a City of Waco project. Technical responsibilities included culvert design using HEC-RAS and flood plain delineation.

Developed preliminary and concept drainage design for paving and grading plan for a private sector solid waste management company.

Solid Waste Studies and Gas Collection and Controls System Design

Preparation of site plans and specifications for truck wash facilities for the City of Copperas Cove. Technical responsibilities included design of drainage swale, site plans, and technical specifications.

Preparation of various construction plans and technical specifications for the expansion of landfill gas collection and control systems. Preparation of air permitting applications, such as New Source Performance Standards.

New Source Performance Standards Work (NSPS)

Performed semi-annual NSPS reports for several facilities in Texas and New Mexico, several of these reports are combined reports inclusive of SSM, NSPS, and Title V reporting.

Prepared several NSPS annual reports at facilities in Texas and New Mexico. Is familiar with the NSPS design process and necessary operational requirements.

Title V Operating Permit Work

Prepared semi-annual deviation reports and annual compliance certifications for approximately 20 facilities on an ongoing basis.

Prepared Title V General Operating Permit applications and revisions for over two dozen facilities in Texas.

Emissions Inventory Work

Prepared dozens of state and Federal-level emissions inventories. Prepared inventories on hard copy forms as well as on multiple state platforms (including STEERS in Texas).

Stormwater Compliance

Prepare stormwater pollution prevention plans (SWPPPs) for various types of facilities in different industrial sectors. Develop and implement stormwater sampling programs, as well as reporting consistent with the statewide general stormwater permit.

Prepare Spill Prevention, Control and Countermeasures (SPCC) Plans for various types of facilities for different industries, and assist clients with implementation.