

Lillian Enterprises LLC

Compliance Intelligence — Methodology Overview

WHO WE ARE

A data analysis and research firm in Knoxville, Tennessee. We are not a law firm. Our work consists exclusively of the organization and cross-reference of publicly available federal and state compliance records. We do not draft legal documents, characterize any system's legal posture, or provide regulatory opinions. Our deliverable is a source-cited dataset; the reader draws their own conclusions.

WHAT WE PRODUCE

A cross-program compliance dataset covering every regulated U.S. public water system and co-located industrial facility. Each record is joined on the EPA Facility Registry Service (FRS) REGISTRY_ID — the common identifier EPA assigns every regulated site — allowing direct identity resolution between programs that otherwise report in isolation:

- **Safe Drinking Water Act (SDWIS):** violations, monitoring, treatment-technique, enforcement, and consent-decree milestones
- **NPDES:** facility-level wastewater discharge permits, effluent violations, DMR submissions
- **RCRA:** hazardous-waste handler registrations, inspection findings, corrective-action status
- **ICIS-AIR:** Clean Air Act stationary-source enforcement, penalty history, compliance posture
- **Federal infrastructure funding:** DWSRF, BIL/IIJA, USDA, HUD CDBG — by recipient system
- **Lead Service Line inventories:** coverage, replacement pace, revised LCR compliance
- **PFAS monitoring:** UCMR sampling, TRI water, CERCLA sites
- **Demographic/EJ overlays:** ECHO Demographics for environmental justice context

METHODOLOGY — IDENTITY RESOLUTION

We do not infer relationships. Every cross-program match is one of two deterministic classes: **(a) identity join** via FRS REGISTRY_ID — the same facility registered across multiple EPA programs; or **(b) geographic proximity** via FIPS-5 county or city+state shared with a regulated site. All raw data is pulled directly from EPA's published bulk download portal (SDWIS public download, ECHO Exporter, NPDES DMR Loads, RCRAInfo, ICIS-AIR Compliance and Enforcement, FRS Composite Daily, USAspending). No interpretation is added at any step of the pipeline; each output row retains its source-column lineage so every figure remains independently verifiable in EPA's own systems.

CURRENT SCOPE (APRIL 2026 PIPELINE)

Metric	Count
U.S. public water systems indexed	433,698
Systems with FRS direct-identity match to ≥1 non-SDWA EPA program	5,748
Systems with direct-identity matches across NPDES, RCRA, and ICIS-AIR simultaneously	695
Facility-level federal + state penalty dollars on convergent systems	\$575.8 million
Total population served by convergent systems	80.3 million

DELIVERABLE FORMATS

Single-facility dossier — 14-page compliance-intelligence document on one public water system (PWSID), covering every program tier above. Cover, executive summary, system profile, violation history with timeline, federal funding record, lead service line data, enforcement actions, peer comparison (percentile rank against state and national baseline), and source-citation appendix. Court-exhibit quality; every figure footnoted to its primary federal source.

County assessment — parallel methodology applied across every public water system in a single U.S. county, with cross-system comparative analysis.

Statewide analysis — every public water system in a single U.S. state, delivered as dataset (CSV + Parquet) plus narrative summary.

Recurring subscription (institutional tier) — full facility-level national dataset with quarterly refresh, change-log, and direct analyst Q&A on methodology; typical fit for ESG rating vendors, insurance underwriters, governance teams, and institutional research desks.

ENGAGEMENT WORKFLOW

1. Request scope letter (by email to msa@lillianenterprises.com). 2. Countersign engagement letter specifying the PWSID(s) or scope, fixed fee, and 10-business-day delivery timeline. 3. Payment in full (Stripe checkout or ACH); delivery via signed URL within 4 hours of payment confirmation for pre-built dossiers, or within 10 business days for custom scope. **Entire evaluation and activation runs by email.** No calls are required at any stage.

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