

EPA Update

Al Garcia

Region 8 Pretreatment Conference

May 10, 2016

Final 2012 and Preliminary 2014 Effluent Limitation Guidelines Plan

Published for Public Comment
Sept 16, 2014

<http://www.gpo.gov/fdsys/pkg/FR-2014-09-16/pdf/2014-22062.pdf>

Final 2014 ELG Plan Overview

- Results of 2014 Annual Review of industrial wastewater discharges
- Preliminary 2014 ELG Plan (Studies)
 - Centralized Waste Treatment
 - Petroleum Refineries
 - Metal Finishing
 - Nanomaterials Manufacturing and Formulating
- Pesticide Chemicals Manufacturing, Formulating and Packaging
 - Investigate unregistered exported pesticides

Final 2014 ELG Plan Overview

- ELG Schedules:
 - Steam Electric Power Generation
 - Alaska Seafood Processing
 - Unconventional Oil and Gas Extraction
 - Dental Amalgam
- Continue to gather findings and publish updated findings on Industrial Wastewater Treatment Technology
- Nanomaterials Study – associated wastewater impacts

Shale Gas Extraction

- Workgroup Meetings
- Data Needed from Local Programs
 - Scope of development
 - Impacts from wastewater management
 - CWTs
 - Requests to discharge at POTW

Shale Gas Extraction

- No discharge of wastewater pollutants associated with production, field exploration, drilling, well completion, or well treatment for unconventional oil and gas extraction (e.g., drilling muds, drill cuttings, produced sand, produced water) into publicly owned treatment works.

Centralized Waste Treatment

- Study of CWTs that accept Oil and Gas wastewater
 - which CWT facilities accept such wastewater,
 - available treatment technologies (and their associated costs),
 - discharge characteristics,
 - financial characteristics of CWT facilities, and
 - environmental impacts of discharges from CWT facilities.

Petroleum Refineries

- Requesting data and information on the discharge of metals and dioxin from petroleum refineries
- Evaluation of Current Treatment Technologies

Metal Finishing

- Preliminary Category Review
- discharge and treatment of metals,
 - chromium, nickel, zinc, cadmium, copper, lead, silver to POTWs
- Call to NACWA in March 2016
- Metal Finishing Applicability to Zirconization memo –April 11, 2016

Steam Electric Power Generation

- Amends 40 CFR 423.16 (PSES) and 40 CFR 423.17 (PSNS)
- Final Rule – September 30, 2015
 - Last update in 1982 and rule did not address toxic metals
- Establishes limits on toxic metals discharged from coal-fired steam electric power plants
 - arsenic, lead, mercury, selenium, chromium, and cadmium

Steam Electric Power Generation

- New or additional requirements on wastewater streams from the following processes and byproducts:
 - flue gas desulfurization
 - fly ash
 - bottom ash
 - flue gas mercury control
 - gasification of fuels such as coal and petroleum coke

Dental Amalgam

- Signed by the EPA administrator on September 23, 2014
- Proposed rule in Federal Register – Oct 2014
- 60 day comment period
- 40 CFR Part 441

Dental Amalgam Rule

- Require Dentists to control Hg discharges to POTWs
 - Installing amalgam separators
 - Institute mandatory BMPs
- Amend 40 CFR Part 403 to streamline permitting and oversight requirements for the dental sector

Dental Amalgam BMPs

- Operation
- Maintenance
- Inspection
- Control of Mercury Discharge
 - Require non-bleach and neutral pH line cleaners
 - Prohibition of flushing scrap dental amalgam into any drain without an amalgam separator

Amendments to 40 CFR Part 403

- 403.3(v)(4) DIU – Dental Industrial User
 - Not subject to Control Authority oversight requirements
 - Permitting,
 - Inspection
 - Sampling
- 403.3(f)(2)(v)(D) – POTW must evaluate if the facility meets criteria of a DIU
 - Update ordinances
- Must meet monitoring/reporting requirements in 40 CFR part 441.60

DIU BMP Requirements

- Installation of an adequately sized amalgam separator
- Removal efficiency of 99.0%
- Receives all process amalgam wastewater
- Inspected 1/month
- Operated and maintained according to manufacturer's specifications
- Regularly maintained
- Recordkeeping
 - Reports
 - Inspections
 - Maintenance

Rules / Regulations

EPA Effluent Limitations Guidelines

<https://www.epa.gov/eg/industrial-effluent-guidelines>

Electronic CFR

<http://www.ecfr.gov/cgi-bin/ECFR?page=browse>

Electronic Reporting Rule

- Signed – September 24, 2015
- This final rule requires that NPDES regulated entities electronically submit the following permit and compliance monitoring information instead of using paper reports:
 - Discharge Monitoring Reports (DMRs);
 - Notices of Intent to discharge in compliance with a general permit; and
 - Program reports.

Electronic Reporting Rule

- Federal Register – October 22, 2015
- Final Rule-NPDES E-Reporting Rule-FR Vol 80, No 204-pp 64064-64158
- **Effective Date – December 21, 2015**
- Reduces burden of existing paper-based reporting from regulated facilities and reduces third-party data entry errors by instead requiring electronic data submissions;

Key Concepts

- Proposed regulation will require that NPDES permittees electronically submit most of the required NPDES data (e.g., DMRs, NOIs, program reports) directly to states or EPA.
 - Data submissions would meet EPA's current signatory and chain of custody requirements in Parts 3 (CROMERR) and 122 (NPDES Regs)
- Permittee electronic submissions will be supplemented by authorized state electronic submission:
 - Basic facility and permit data; and
 - Data originating from the states (e.g., inspections, violation determinations, enforcement actions).

NPDES Discharge Monitoring Reports

- These reports comprise the largest source of NPDES program data shared between permittees, states, and EPA.
- Under the proposed rule EPA would require all DMRs (major and non-majors) to be electronically submitted to states or EPA by permittees one year after the effective date of the rule (Phase 1).

Pretreatment Annual Reports

- Under the proposed rule EPA would require all pretreatment annual program reports to be electronically submitted to states or EPA two years after the effective date of the rule (Phase 2).

DMRs from CIUs in Non-Approved Programs

- In the absence of approved local pretreatment programs, EPA or the state functions as the Control Authority to oversee SIUs and categorical industrial users (CIUs).
- SIU/CIUs in municipalities without approved pretreatment programs would electronically submit required biannual reports to states or EPA, 2 years after effective date of the Rule (phase 2).

Electronic Reporting Tools

- EPA-developed:
 - Net DMR
 - NPDES Electronic Reporting Tool (NeT)
 - General Reports (NOIs)
- Developed by a state authorized to implement the NPDES program, or
- Third Party Vendor Reporting developed, if such tools meet the requirements of this proposed rule.

Pretreatment Guidance

- Controlling OG from Food Service Establishments Fact Sheet – Sept 2012
- IU Permitting Guidance Manual – Sept 2012
- Introduction to the Pretreatment Program – June 2011

Pretreatment Guidance-Development

- Hauled Waste Guidance
- Acceptance of Hauled Waste for Anaerobic Digester Enhancement
 - To be included in the Hauled Waste Guidance
- Combined Wastestream Formula
 - Appendix to the Industrial User Permitting Manual
- Enforcement Response Plan Guidance
- IU Inspection and Sampling Guidance
- Production-Based Standards
 - Appendix to the Industrial User Permitting Manual
- POTW Program Development Guidance

DEA National Take Back Programs

- Began in 2010
- Prescription Drug take back locations manned by law enforcement
- 4.1 million pounds
- 11th National Take Back – April 30, 2016

11th National Take Back Day: April 30, 2016

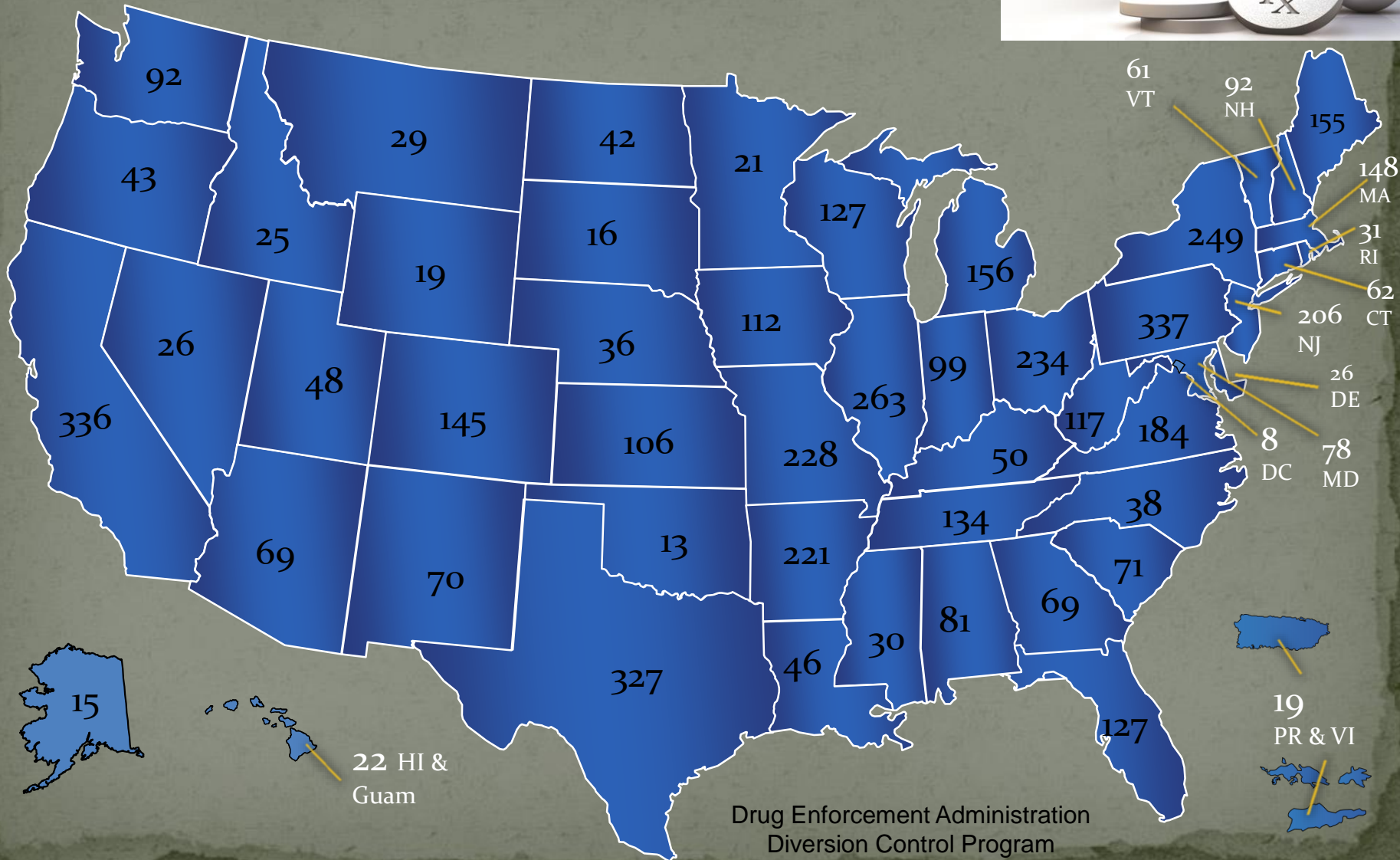
Total Law Enforcement Participation: 4,264



Drug Enforcement Administration
Diversion Control Program

11th National Take Back Day: April 30, 2016

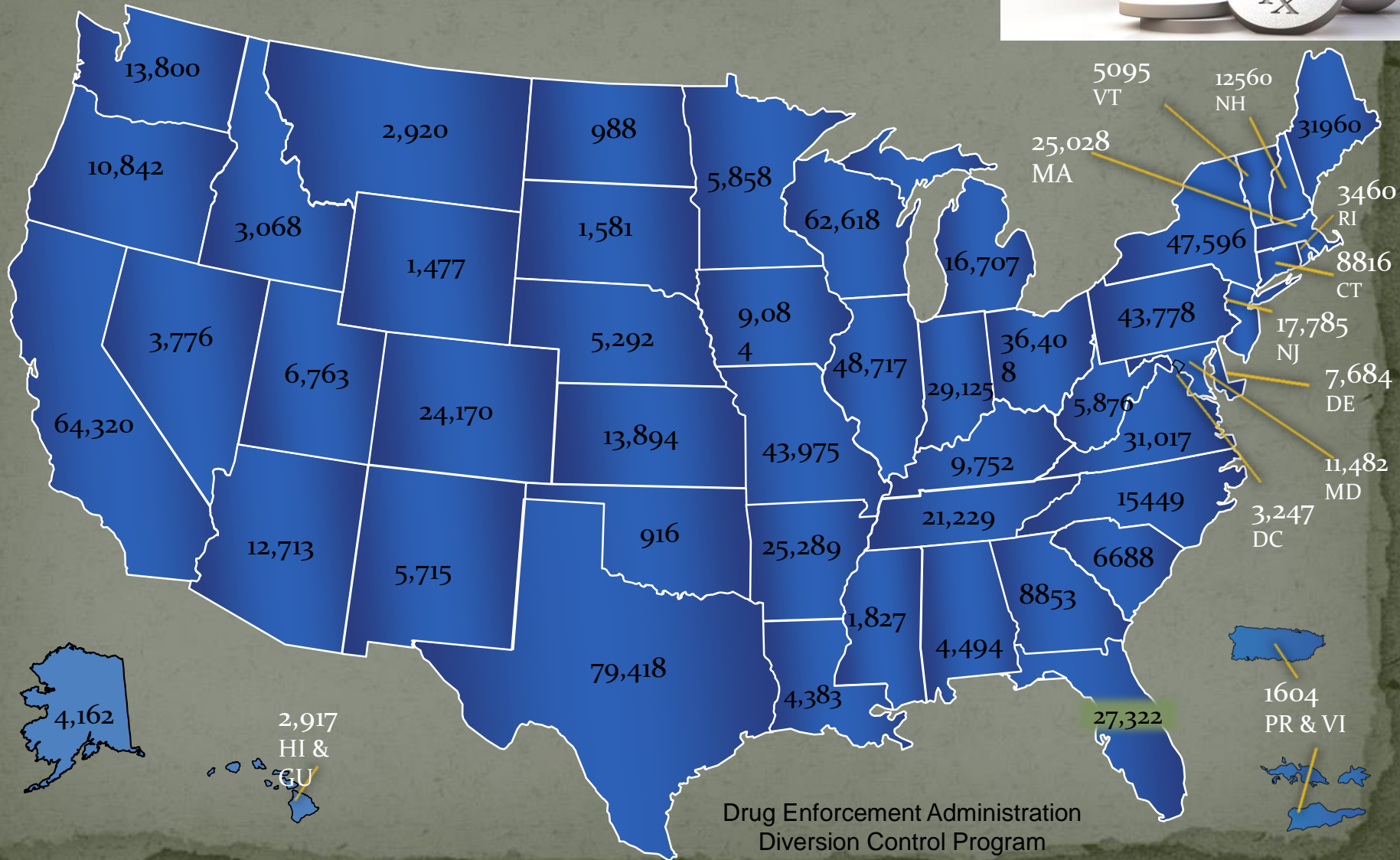
Total Collection Sites: 5,359



Drug Enforcement Administration
Diversion Control Program

11th National Take Back Day: April 30, 2016

Total Weight Collected (pounds): 893,498 (447 Tons)



Drug Enforcement Administration
Diversion Control Program

EPA Contact Info

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