

Scope of work for

Mapping Illicit Discharge Detection and Elimination (IDDE) Incident Data from Ecology's Environmental Report Tracking System (ERTS)

Prepared for Ecology and the City of Lakewood
Prepared by Cardno GS, Inc.
Draft 27 January 2015

This scope of work is for assembling and mapping illicit discharge detection and elimination (IDDE) data from Ecology's ERTS database. The data of IDDE incidents from ERTS is anticipated to be primarily spills of hazardous or regulated substances. The effort is limited to organizing the data into a simple database, creating GIS maps for the watersheds, and evaluating the usability of the ERTS data to support the NPDES permit and SIDIR program.

1 Task 1: Review and Compile Data, Create Database

- 1.1 Review data and create data quality objectives (DQO).
- 1.2 Develop method to transform qualitative data to be qualitative for use in mapping. Transform data and create final data set.
- 1.3 Create a spreadsheet database and import the ERTS final data set.

2 Task 2: Summarize and Evaluate Data

- 2.1 Evaluate data set for data gaps and compare data fields from ERTS to Ecology's online IDDE Incident Tracking Form.
- 2.2 Summarize and rank the data, including the numbers, types, and locations of IDDE incidents and frequency of incident occurrence by type and location.
- 2.3 Assess the usability of the data for providing supporting data to the SIDIR program and potential redundancy with NPDES annual reporting. Summarize the data usability and ranked data in technical memo.

3 Task 3: Prepare GIS Maps

- 3.1 Prepare maps using GIS of illicit discharges in watersheds where Status and Trends monitoring is occurring. Attribute data will include incident date, type of discharge, and other data as available and as budget allows.
- 3.2 Have maps reviewed by Ecology and prepare final maps based on comments on draft maps.

Deliverables and Anticipated Schedule

Deliverable	Target date
Obtain data from ERTS, review data and create DQOs.	4/24/15
Create database and transform qualitative data. Create and import final data set.	5/8/15
Summarize and evaluate data. Rank IDDE incidents and locations.	5/22/15

Prepare draft GIS maps.	6/5/15
Prepare final GIS maps after review by Ecology.	6/19/15
Prepare technical memo of data usability assessment and data rankings.	6/19/15

Assumptions:

- Ecology will arrange for data dump from ERTS and provide data in csv or spreadsheet format. Data range is expected to be concurrent with current NPDES permit and Status and Trends monitoring schedule.
- Proposed schedule assumes contracting will be completed and work will begin by April 6, 2015.
- Ecology will provide GIS base map images and data using a consistent datum (e.g. NAD83) and shapefiles of Status and Trends program monitoring stations and watersheds.
- Project management activities are not included in this scope. Rather, it is anticipated that this effort will be a task under another project scope, which will include PM activities.