



Evolution of Electronic Reporting

Christopher Henninger, Supervisor
Surface Water Permits Unit
September, 2019



Electronic Reporting – A Journey

Where Have We Been



Where Are We Going



How best to implement electronic reporting?

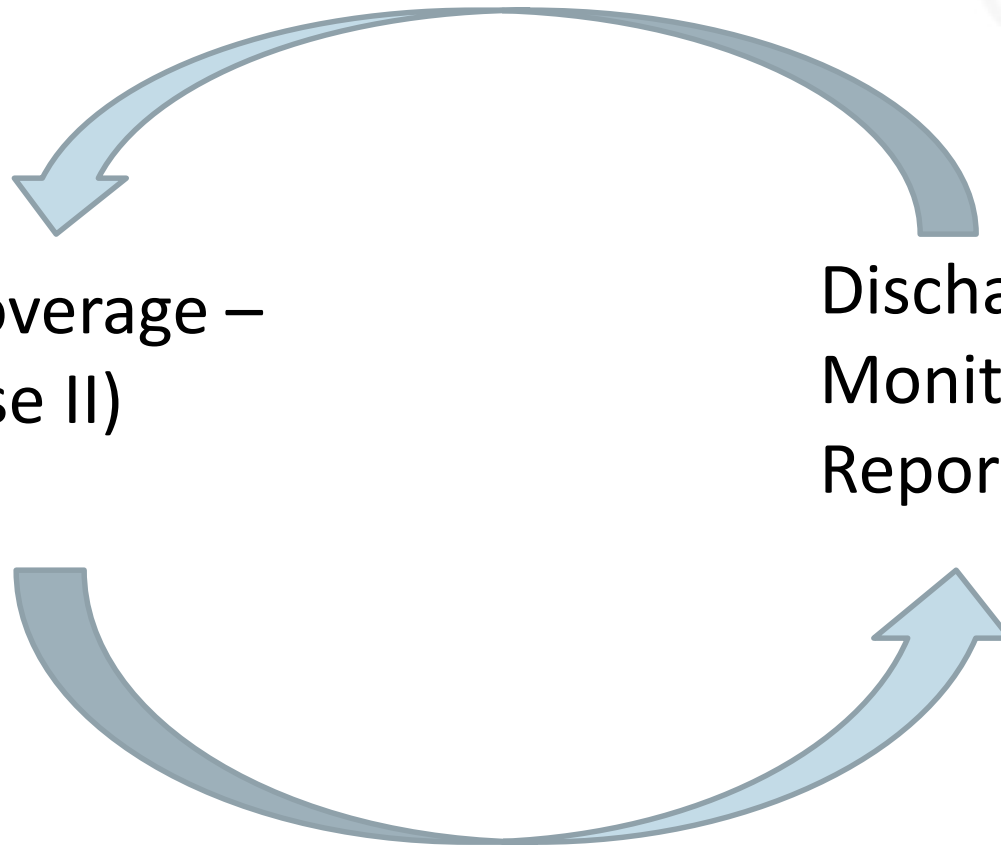


Which comes first...?



Permit Coverage –
NOI (Phase II)

Discharge
Monitoring
Report (Phase I)



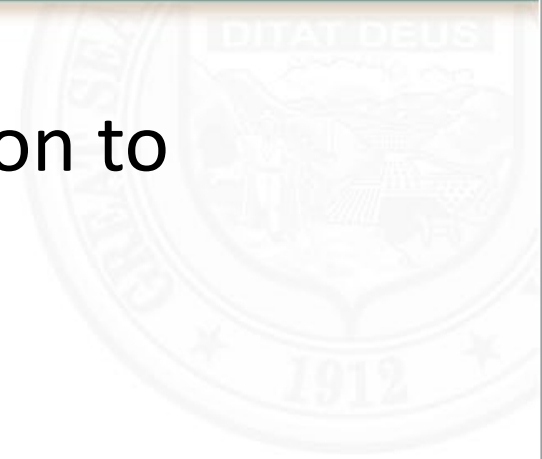
ADEQ's Approach:

- Negotiate e-reporting schedule with EPA
- Build permitting path as a complete product



The NOI path provides the information to develop the DMR:

- Customer information
- Monitoring parameters
- Triggers for monitoring
- Monitoring and reporting frequency



Benefits of E-Notice of Intent (NOI):

- Completeness (mandatory fields)
- Business rules to lead customer to permitting requirements (poka-yoke)
- Built in tools for more accurate information



Mapping Tool to Assist Customers with Accurately Locating their Site

Map Location

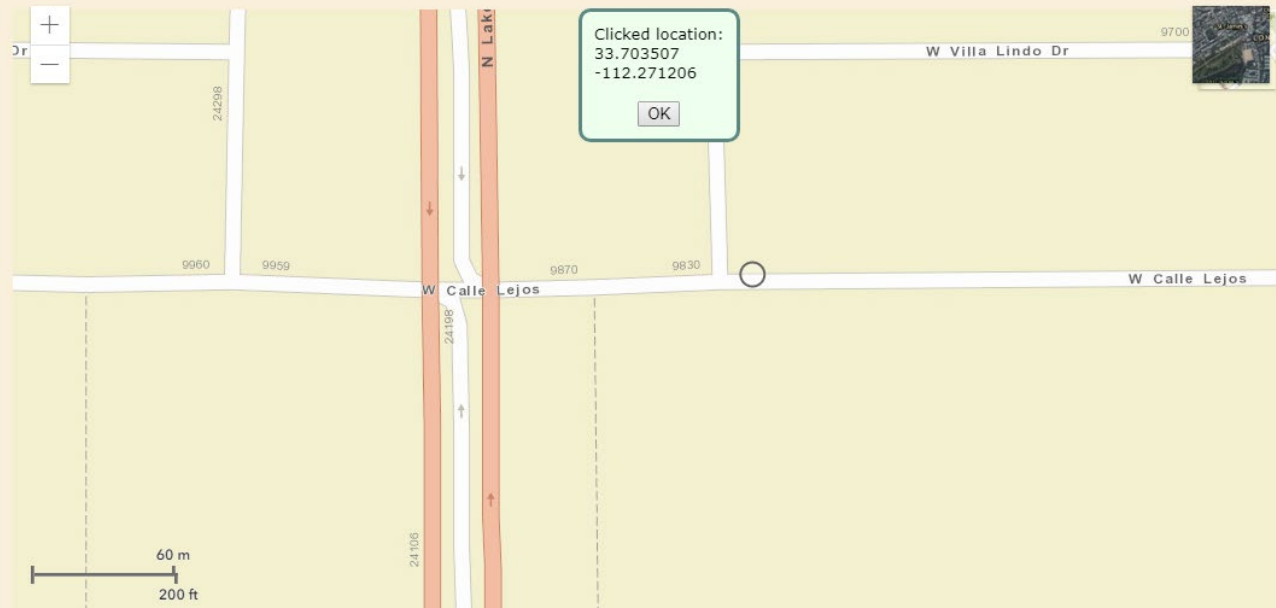
To refine map enter latitude & longitude or zip code information below, then click on MAP LOCATION to zoom into map location. Optional information.

Latitude: ex. 33.448371


Longitude: ex. -112.074037

Zip Code:

 MAP LOCATION >



Example from Industrial Stormwater Permitting Path to Identify Sector(s)



my DEQ
Arizona Department of Environmental Quality

[LOGOUT](#) | [mySTUFF](#) | [mySETTINGS](#)

Chris's Project

Lat: 33.700286 / Long: -112.285071

[NEED HELP ?](#) | [SAVE APPLICATION & EXIT >](#)

AZPDES STORMWATER MULTI-SECTOR GENERAL PERMIT (MSGP) | INDUSTRIAL

How many acres out of the 5 exposed to stormwater are being used for your primary industrial activity [?]?

Please verify your information, edit if needed and click CONTINUE.


Sector	Subsector	SIC/AC	# of Acres
G - METAL MINING (ORE MINING & DRESSING) ▼	G1 ▼	SELECT ONE ▼	

Do you have co-located industrial activities [?] ?

Select one, enter the following information (selecting ADD ROW if needed) and click CONTINUE.

- Yes
- No

Outfall Summary Table



Arizona Department of Environmental Quality

[LOGOUT](#) | [mySTUFF](#) | [mySETTINGS](#)




Chris's Project
Lat: 33.700286 / Long: -112.285071

NEED HELP ?
SAVE APPLICATION & EXIT >

AZPDES STORMWATER MULTI-SECTOR GENERAL PERMIT (MSGP) | INDUSTRIAL

What are the outfall location(s) [?] at your facility?

You can add more points of discharge using the MODIFY NOI option after you have received confirmation of permit coverage.

	Outfall Name	Latitude [?]	Longitude [?]	Verify on Map	Delete
	EXAMPLE- CENTRAL AVENUE LANDFILL	33.423644	-112.075894	Look Up on Map	
1	OUTFALL #1	33.700822	-112.297044	Look Up on Map	
2	Outfall #2	33.706070	-112.292882	Look Up on Map	

[+ Add Row](#)

[HELP/CONTACT](#)

Interactive Mapping Tool to Assist with Identifying Outfall Location(s)

The screenshot displays the myDEQ web application interface. At the top left, the myDEQ logo and "Arizona Department of Environmental Quality" are visible. On the top right, there are "LOGOUT" and "mySTUFF" links. The main header area shows "Chris's Project" on the left and "Lat: 33.700286 / Long: -112.285071" on the right. A browser window is overlaid on the map, showing the URL: gisweb.azdeq.gov/mydeq/map/?topic=waterbody&&zoom=10&latitude=33.700286&longitude=-112.285071. The map itself shows a topographic view of the Agua Fria River area. A popup window is open over a red 'X' mark on the map, displaying the coordinates: "Clicked location: 33.70607, -112.292882" with an "OK" button. The map includes various street names such as Happy Valley Pkwy, W Hatfield Rd, and N 107th Ave. A scale bar at the bottom left indicates 0.4 km and 0.2 mi. The bottom of the map features a footer with attribution: "City of Glendale, City of Phoenix, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, NGA, USGS | ADEQ: Arizona Department of Environmental Quality | Powered by Esri".

Monitoring Requirements Generated Based on Customer Input

Chris's Project

Lat: 33.700286 / Long: -112.285071

[NEED HELP ?](#)

[SAVE APPLICATION & EXIT >](#)

AZPDES STORMWATER MULTI-SECTOR GENERAL PERMIT (MSGP) | INDUSTRIAL

Based on the information you have entered, ADEQ has determined that a Discharge Monitoring Report (DMR) must be submitted on July 15, 2020 for your MSGP permit coverage.

Outfall Locations ▾	Monitoring Type ▾	Parameter Name ▾	Monitoring Frequency ▾
OUTFALL #1	BENCH MARK (BM)	SUSPENDED SOLIDS, TOTAL	4 times per year
OUTFALL #1	BENCH MARK (BM)	CHEMICAL OXYGEN DEMAND (COD)	4 times per year
OUTFALL #2	BENCH MARK (BM)	CHEMICAL OXYGEN DEMAND (COD)	4 times per year
OUTFALL #2	BENCH MARK (BM)	SUSPENDED SOLIDS, TOTAL	4 times per year

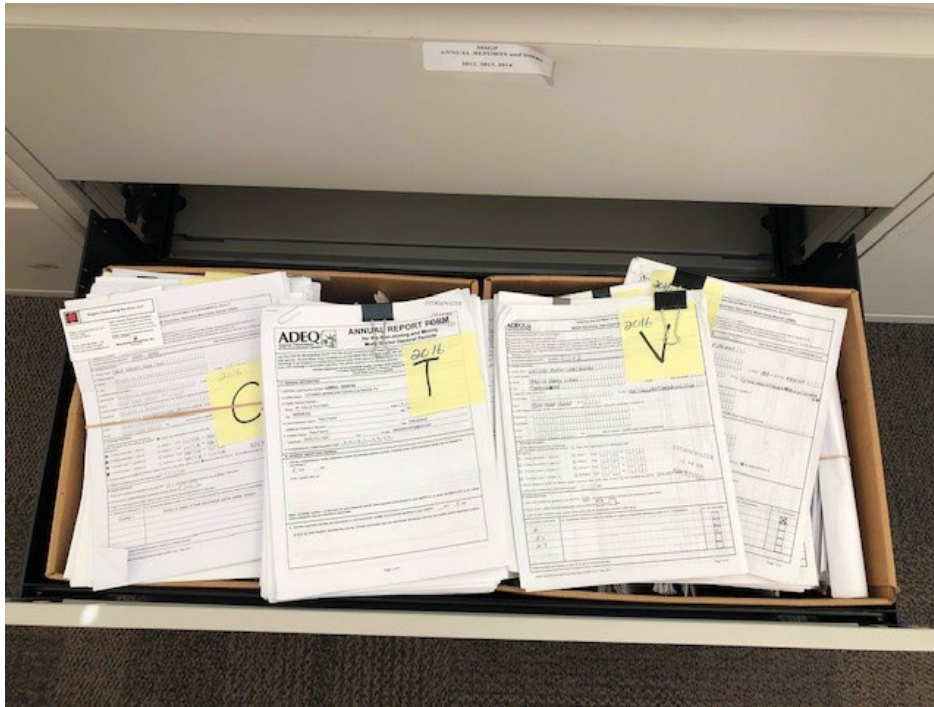
Do you agree to monitor stormwater discharge(s) from the Outfall(s) listed above, in accordance with MSGP monitoring terms, and submit an annual electronic Discharge Monitoring Report (e-DMR)?

Customer's Dashboard to Manage Permit Actions

The dashboard features the myDEQ logo (Arizona Department of Environmental Quality) in the top left. The top right navigation bar includes the user name 'MARY JANE', a 'LOGOUT' link, and buttons for 'mySTUFF', 'mySETTINGS', and a 'TAKE A TOUR' button. Below the navigation is a menu with three tabs: 'mySTUFF' (selected), 'myAPPLICATIONS', and 'myCOMPLIANCE'. A search bar with the placeholder 'Search Permit, Place, Dates, etc' and a 'SEARCH >' button is present, along with a 'Filter' icon. The main content area displays a table of permit actions.

View PDF	ID #	Company	Place Name	Type	Exp Date	Status	Actions
	77893	COMPANY1	CENTRAL BUCKEYE WASTEWATE ...	AZPDES CGP > 5 Acres	NA	ISSUED	Select An Action
	63219	COMPANY1	CENTRAL BUCKEYE WASTEWATE ...	APP Permit	NA	ISSUED	Select An Action
	63925	COMPANY1	CENTRAL BUCKEYE WASTEWATE ...	AZPDES Permit	03/26/2020	ISSUED	Select An Action

Historic Paper Filing and Management



Internal ADEQ Dashboard to Manage Permitted Universe



[LOGOUT](#)

PENDING APPROVED REJECTED TERMINATED REPORT

APPROVED PERMITS

TOTAL APPROVED: 4037

[Search >](#)

Date Applied	LTF #	Company Name	Facility Name	Application Type	View
09/06/2019	78351	DECCA MULTI-FAMILY BUILDERS, INC.	The Oasis at the Wells	AZPDES CGP > 5 Acres	
09/06/2019	78353	A TO Z AUTO PARTS, LLC	A to Z Auto Parts	NEC Waiver	
09/06/2019	78345	CREEKSIDE ENTERPRISES, LLC	80 Canyon Shadows Drive	AZPDES CGP 1-5 Acres	
09/06/2019	78352	JAMES A CAMPBELL CONSTRUCTION DBA CAMPBELL DEVELOPMENT	Dollar Storage Goodyear	AZPDES CGP > 5 Acres	
09/06/2019	78346	SUNDT CONSTRUCTION, INC.	SR 77 Gila River Bridge Replacement	AZPDES CGP 1-5 Acres	
09/05/2019	78337	RICHMOND AMERICAN HOMES OF ARIZONA, INC.	Enclave at Pinelake	AZPDES CGP > 5 Acres	
09/05/2019	78343	VISUS ENGINEERING CONSTRUCTION, INC.	Lincoln Drive	AZPDES CGP 1-5 Acres	
09/05/2019	78336	TINKER DEVELOPMENT LLC	Marlette Ave	AZPDES CGP < 1 Acre	
09/05/2019	78334	GARRETT WALKER HOMES, LLC	Mountain Views	AZPDES CGP > 5 Acres	
09/05/2019	78349	ARMSTRONG DEVELOPMENT PROPERTIES, INC.	O'Reilly Auto Parts	AZPDES CGP 1-5 Acres	
09/05/2019	78339	PCL CONSTRUCTION INC	Germann Rd Reservoir	AZPDES CGP > 5 Acres	

ADEQ Internal Manager - Permit Information



LOGOUT

[RETURN TO LIST](#)

LTF #: 78351

DATE APPLIED: 09/06/2019

Applicant Name: MICHAEL WAREING
 Email Address: HBLYTH@DECCABUILDERS.COM
 Is Government: -
 Category Code: -
 Organization Description: -
 LTF Issue Date: 09/06/2019
 LTF Expiry Date: -
 LTF Status: ISSUED
 Application Type: AZPDES CGP > 5 Acres

Company Name: DECCA MULTI-FAMILY BUILDERS, INC.
 Company CUST ID#: 95977
 Company Phone#: 480-609-3066
 Company Fax#: -
 Company Address: 16050 N 76TH STREET, SUITE 101
 SCOTTSDALE, AZ
 85260

Authorization No: AZCN78351

Construction Site and Facility Information:

Construction Site: THE OASIS AT THE WELLS
 33.040268/-112.013503
 Facility Name: The Oasis at the Wells
 Common Plan Total Acres: No
 Section Plan Total Acres: 5.12
 Start Date: 12/01/2019
 End Date: 01/30/2021
 Project Type: Commercial

Is this a request for new permit coverage? Yes

ADEQ Internal Manager – Pending Actions

PENDING APPROVED REJECTED TERMINATED REPORT

PENDING REQUESTS

TOTAL PENDING: 2

🔍 Search by First Name, Last Name, LTF#, Company Name or Facility Name Search >

Date Applied	Request Type	LTF #	Company Name	Facility Name	Application Type	Status	
09/03/2019	NEW	78196	MCDOT - CONSTRUCTION	Miller Road - Tonopah-Salome Hwy to Van Buren	AZPDES CGP > 5 Acres		
07/31/2019	NEW	77826	CARDERO COPPER (USA) LTD	Zonia Mine - Cardero Copper (USA) Ltd	AZPDES MSGP Mining	 	

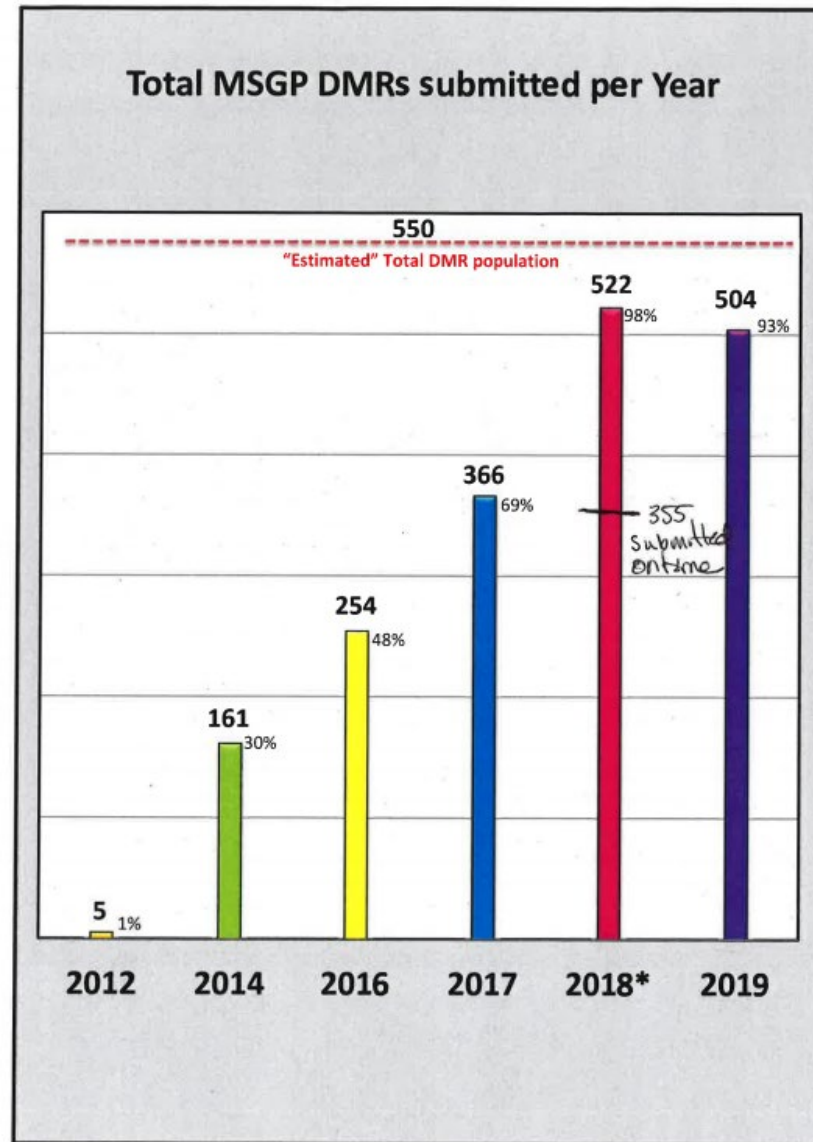
■ Action Needed
■ In-progress
■ Completed

Benefits to electronic reporting:

- Less paper to manage
- Increases completeness and accuracy
- Easier to manage customer information
- More efficient for customers and staff
- More accurate and timely response

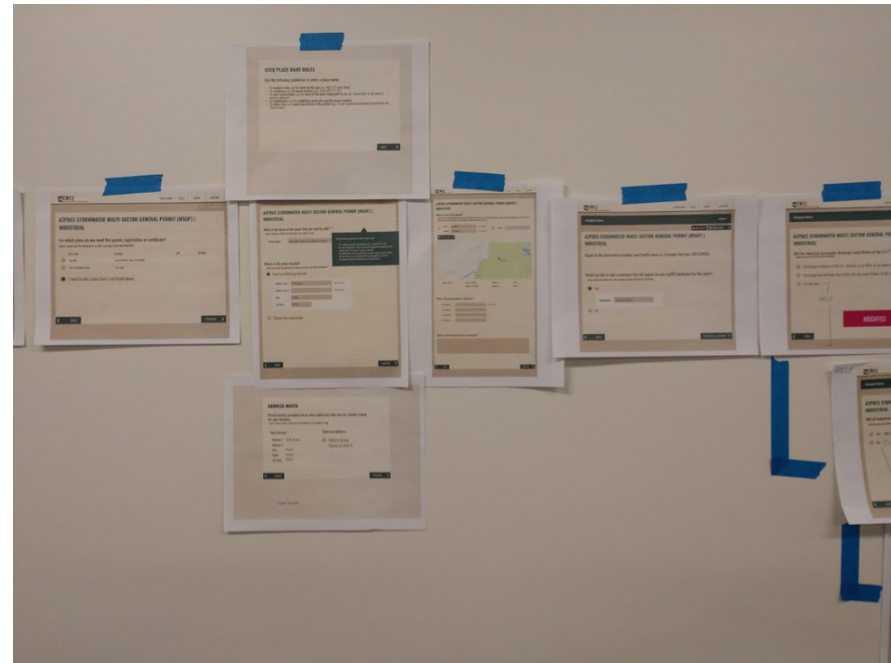
This all Equals More Mission Outcome!

Benefit of Electronic Data Submission



Important Considerations When Developing E-Reporting:

- Simplicity for customers and staff
- Obtain voice of customer (VoC) throughout all phases of development
- Wants v. Needs
- Cost



What is Next?

- Timeframes for other builds (2023)
- Other NPDES programs (biosolids, pretreatment, CAFO...)
- Waters of the U.S.



Questions

Contact

Christopher M. Henninger, Supervisor
Surface Water Permits Unit

Arizona Department of Environmental Quality
602-771-4508

Henninger.Christopher@azdeq.gov

