

# TOOLS OF THE ENVIRONMENTAL MANAGEMENT SYSTEM TRADE

Rebecca Godley, PE, AAAE  
City of Phoenix Aviation Department  
Presented at EPAZ March 4, 2025



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## ENVIRONMENTAL MANAGEMENT SYSTEM

# TOOLS OF THE TRADE

- Who
- What
- How
  - Tools of the Trade
- What's next



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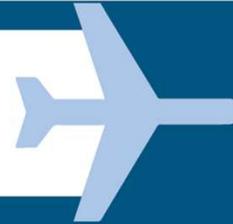


*Celebrating  
90 Years of Ownership  
by the City of Phoenix*



# A DAY AT PHOENIX SKY HARBOR INTERNATIONAL AIRPORT

2022 AVERAGES



**1,077**

Aircraft Arrive & Depart



**1,067**

Tons of Cargo Handled

**121,638**

Passengers Arrive & Depart



**4,548**

Rental Car Contracts

**\$19.3M**

Daily Visitor Spending



**PHX**

**\$77.9M**

Daily Direct Impact



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# PHOENIX DEER VALLEY AIRPORT ECONOMIC IMPACT

DVT is one of the busiest general aviation airports in the nation and had more than 275,000 operations in 2022.



**1,574**  
Regional  
Employment

**\$115.8M**



Labor  
Income

**\$309M**  
Output (sales)



Sources: Phoenix Aviation Department,  
Employer Interviews, MAG Data Base, U.S. BLS



# PHOENIX GOODYEAR AIRPORT ECONOMIC IMPACT

GYR is home to major overhaul facilities and quality FBO services.



1,286

Regional Employment

\$107.6M

Labor Income



\$369.3M

Output (sales)



Sources: Phoenix Aviation Department, Employer Interviews, MAG Data Base, U.S. BLS



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## **ENVIRONMENTAL STAFF:**

**4 EQS, 2 PROJ MGRS, 1 PLANNER III,  
2 PROG MGRS, 1 SUPERINTENDENT**

# WHAT WE MANAGE

- 40 regulatory programs
- 336 environmental permits
- 266 regulated assets



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# HOW WE MANAGE ENVIRONMENTAL PROGRAMS



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# 1) ENVIRONMENTAL COMPLIANCE TRACKING SYSTEM

- ECTS – Reference Manual and Files
- Spreadsheets Access databases Web-based database Web-based capital management program



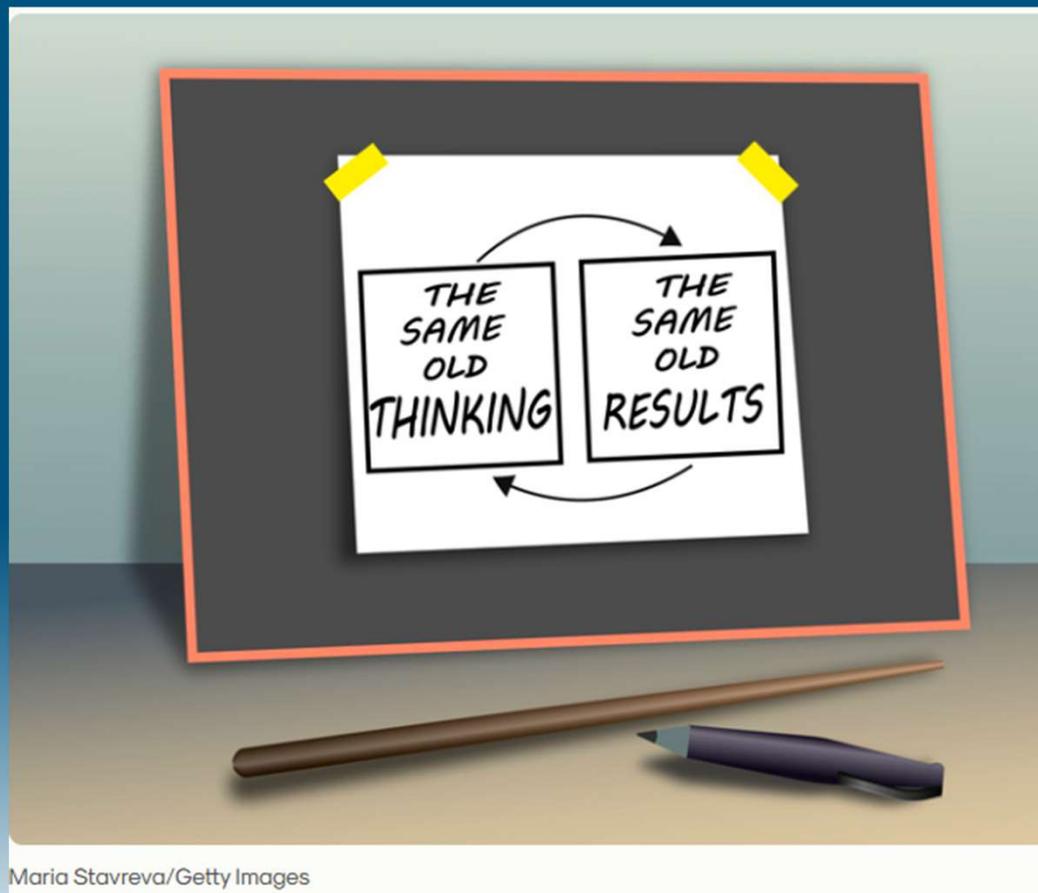
# 1) ENVIRONMENTAL COMPLIANCE TRACKING SYSTEM

- Pros: easy to update & no development costs
- Cons: not transparent, prone to damage or loss, cost of consultant for map books & data management, requires lots of staff training



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## 2) SPECIAL PURPOSE TOOLS

- GIS Map Books
  - storm drains
  - environmental due diligence reports
- Spill Tracer Tool
- GIS Environmental Hub



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## 2) SPECIAL PURPOSE TOOLS

- Pros: Hub is easy to update & transparent, useable on mobile device
- Cons: prone to damage or loss, cost of consultant for spill tracer & map books, map books is outdated technology



# 3) ENVIRONMENTAL MANAGEMENT INFORMATION SYSTEM

- EMIS
  - Incidents
  - Permits
  - Compliance Obligations
  - Inspections
  - Audits
  - Waste Management
  - Document Management
  - Dashboards



### 3) ENVIRONMENTAL MANAGEMENT INFORMATION SYSTEM

- Pros: easy to update, transparent, notifications, useable on mobile device, dashboards show real-time status
- Cons: user engagement, transparent, dashboards show real-time status





# EXAMPLES

# **PHX DVT GYR**

 CITY OF PHOENIX AVIATION DEPARTMENT

Planning & Environmental Division

Environmental Section

ENVIRONMENTAL SECTION

REFERENCE MANUAL

## ECTS

- Section 1 – Purpose, Need and Scope
- Section 2 – Project Roles and Responsibilities
- Section 3 – Current Environmental Compliance Tracking
  - Industrial Facility Permits
  - Construction Project Permits
  - Salt River Permits
- Section 4 – Reporting Requirements
- Section 5 – Future Environmental Management Information System



Map Series 100, Map Series 200, Map Series 300, Map Series 400

Sky Harbor Intl Airport

Property Index (Map ID and Property Address)

1	Residential 1310 E. Jefferson St	15	Former Parking Co America 2225 E. Buckeye Rd	42	Air Nat 1310 E
2	Residential 1434 E. Jefferson St	16	The Ramsey Company Lot south of 1205 S. 23 <sup>rd</sup>	43	181 <sup>st</sup> A 1310 E
3	Residential 1905 E. Madison St	17	Airport Realty Executive Inc	44	Archer Between
4	West Approach Land Acquisition West of Sky Harbor Airport	18	2315 E. Buckeye Rd 1224 South 23 <sup>rd</sup> Street	45	ADOT 3602 E
5	16 <sup>th</sup> & Grant 301 S. 16 <sup>th</sup> St	19	AVIS Rent-A-Car 1440 S. 23 <sup>rd</sup> St	46	Colma East of
6	Sky Harbor 16 <sup>th</sup> & Buckeye Rd Corner of 16 <sup>th</sup> St & Buckeye Rd	20	Former Budget Rent-A-Car 2114 Sky Harbor Cr	47	South Rtgh- 3441 E
7	Consolidated Rental Car Facility Sky Harbor Center	21	Hendy & Harman 2113 E. Mohave St	48	CNG V Sky Ha
8	1818 South 16 <sup>th</sup> Street 1818 S. 16 <sup>th</sup> St	22	Sawyer-Cassara Facility Sky Harbor Airport	49	AT-MS East of
9	Riverview Business Park 1215 E. Riverview Dr	23	Swift Aviation Lease Sites 4040 E. Madison St	50	Forme East of
10	Former Hertz Rental Car 500 S. 24 <sup>th</sup> St	24	Fixed Base Operations - OSE Sky Harbor Airport	51	East E East D
11	AVIS Future SW Corner of Sky Harbor Cr & 22 <sup>nd</sup> St	25	Former Terminal Radar Approach Control Facility Sky Harbor Airport	52	ADOT North e Airport South
12	Aero Pro 1020 S. 24 <sup>th</sup> St	26	TRACON 2400 E. Sky Harbor Blvd	53	
13	Vacant Lot	27	Hertz Airport Facility		

Click Here for Phoenix Goodyear Airport Properties

Click Here for Deer Valley Airport Properties

Click Here for Lake Mead Auxiliary Field Number 3 Properties

Click Here for East Washington WQARF Reports

11535002

11535033A

11536014B

11536016B

11536024

11536041

11537018

11537050A

11538018

11540026A

11540066A

# SPECIAL PURPOSE TOOLS

- GEO PDF for Env. Due Diligence





# SPECIAL PURPOSE TOOLS

- Well and Storm Drain Location Map Books





# SPECIAL PURPOSE TOOLS

- Spill Tracer



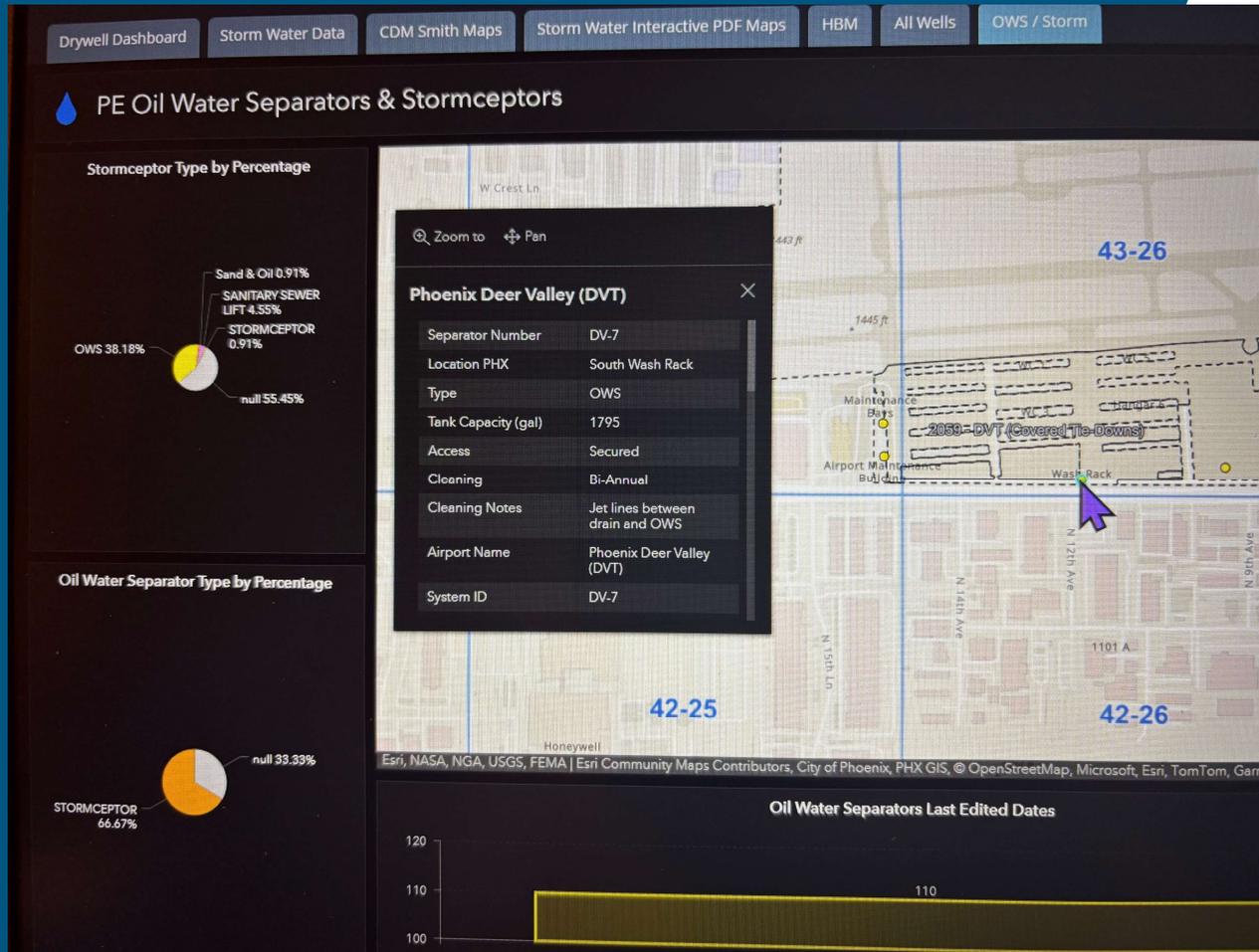




# SPECIAL PURPOSE TOOLS

- Environmental Hub
- Dry Wells and Groundwater Wells





# SPECIAL PURPOSE TOOLS

- Environmental Hub
- Oil Water Separators



# ENVIRONMENTAL MANAGEMENT INFORMATION SYSTEM

The screenshot displays the PHX 90 BYH EMIS dashboard. On the left is a navigation sidebar with a hamburger menu icon and the following items: Home, My Dashboards, My Tasks, Event Reports, Near Me, and Offline. The main content area is titled "Create New" and features a "New Event Report" button with a warning icon. Below this is a "Filter by" section with eight filterable categories: Questionnaire, Inspection, Action, Investigation (with a notification badge of 24), My Dashboards, Event Reports, and Offline.



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# ENVIRONMENTAL MANAGEMENT INFORMATION SYSTEM



Inspection  
Due: **11/30/2021**  
Complete Weekly COP Test 1 at SKY HARBOR  
Assigned To: Me  
Awaiting Responses



# ENVIRONMENTAL MANAGEMENT INFORMATION SYSTEM

In Progress **Previously Submitted**

Spill / Release  
Reported: 04/17/2023

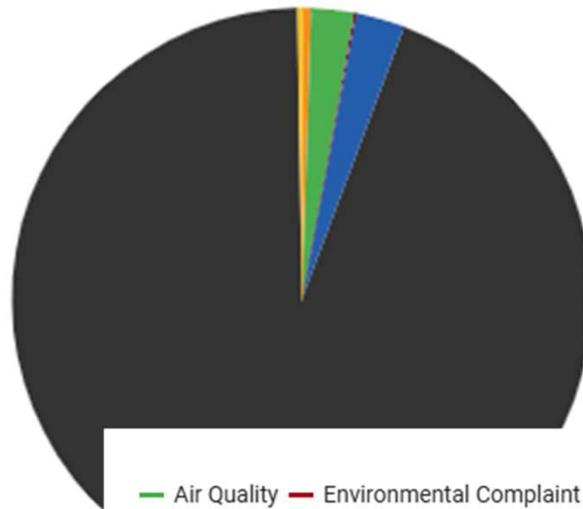
 What Happened: Gulf Stream aircraft was fueled for a flight. However, t causing a release of fuel on the apron and into the storm drain.



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# ENVIRONMENTAL MANAGEMENT INFORMATION SYSTEM



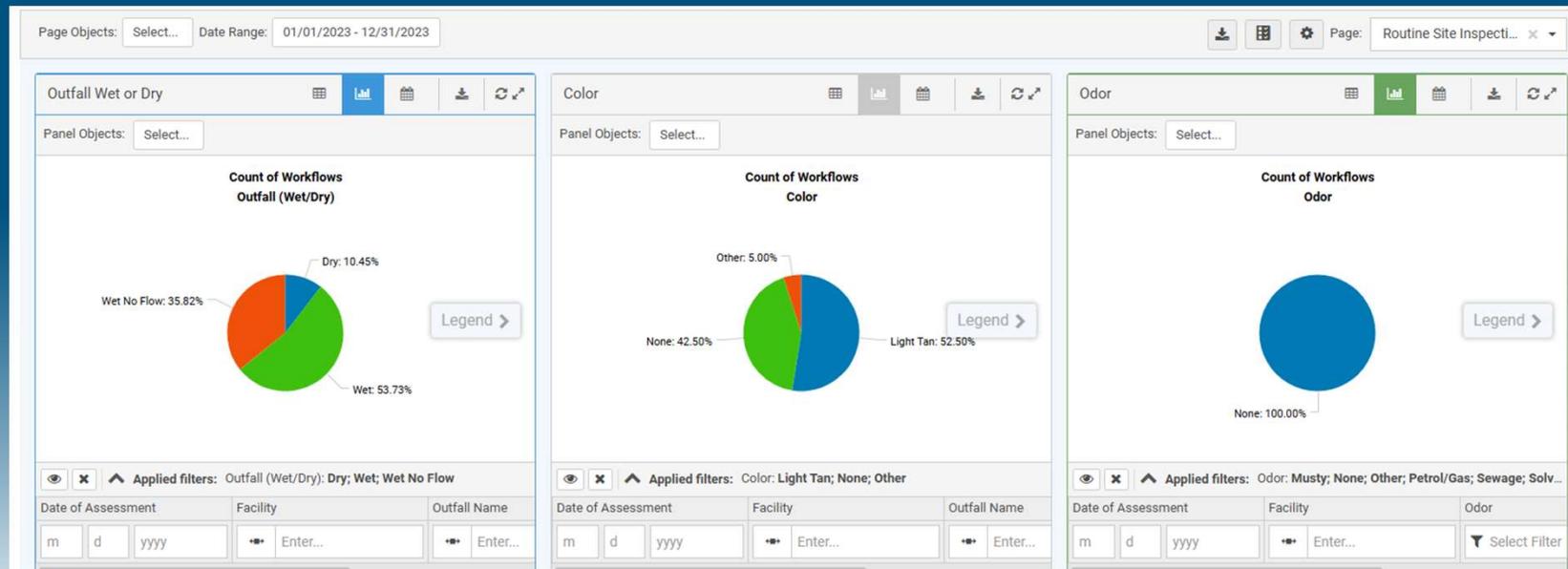
— Air Quality — Environmental Complaint — Permit Violation / NOV — Spill/Release  
— Waste container and/or pick up request



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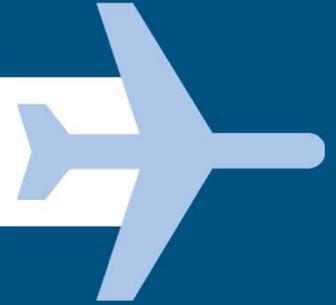
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**WHAT'S NEXT?**

**YOUR QUESTIONS! THANK YOU!**



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