

Stakeholders **Answering** Their Own **Questions**

Josh Cullum – Data Analyst

Beth Roberts – Data Analyst



Today's Objectives

Answering data questions:

- Has my data loaded?
- Is it complete?
- What does the data mean?

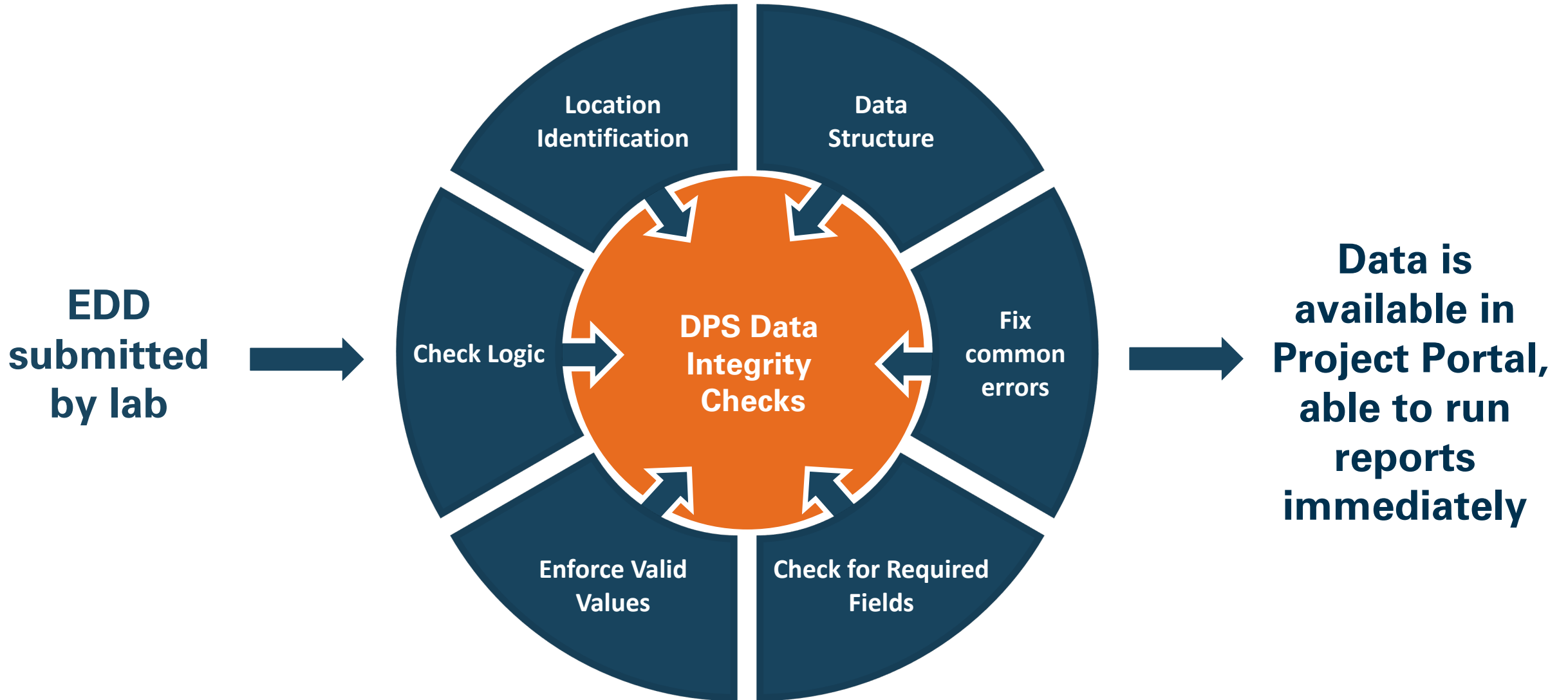
Project Portal Reporting Module

Has my data loaded?

- EDD Import Process
- SDG Summary Report Example
- Sample Summary Report Example



Has my data loaded?



Has my data loaded?



Report Module




Reports

[Add New Report](#)











Report Name	Report Description	Module	Run Report
..._Greenhouse Gas Emissions (ESG Exa	ESG Summary Report of Treatment System Greenhouse Gas Emissions		
... Data - Analytical (Compounds across tl	Data Table - Analytical results with Limits. Locations are in rows, Compounds are across		
... Data - Analytical (Locations across the	Data Table - Analytical results with Limits. Compounds are in rows, Locations are across		
... Data - Analytical By Groups	Data Table - Analytical results reported by Location Group and Parameter Group		
... Data - Analytical by SDG	Data Table - Analytical results reported by SDG		
... Data - Basic Database Stats	Data - Basic Project Portal database summary statistics		
... Data - Locations	Data Table - Overview of Location Information		
... Data - Locations Detailed	Data Table - Detailed Location Information		

Has my data loaded?

Lab EDD Summary Report

Upload 
 Upload 
 Laboratories: 

Start: End:



 of 2
 



 
 

 Find | Next



PetroIndustries, Inc. (Demo)

SDG	Source	# Results	# Distinct Locations	# Normal Samples	Max Sample Date	Laboratory	Upload Date
200-2301022-1	88880005-2301022-1.zip	126	5	4	1/15/2023	Test America	6/20/2023
2203333	88880005-2203333-1.zip	678	10	9	3/16/2022	Test America	6/29/2023
2209823	88880005-2209823-1.zip	678	10	9	9/17/2022	Test America	6/29/2023
2301017	88880005-2301017-1.zip	678	10	9	1/15/2023	Test America	6/29/2023
2304321	88880005-2304321-1.zip	678	10	9	6/15/2023	Test America	6/27/2023

Has my data loaded?

Sample Details Report part 1

Start Date	1/1/2023	End Date	8/31/2023	Location:	MH Wells
Include Field (d7EDD) EDDs	True	Sample Types	N and FD	Medium	Groundwater

|< < 1 of 4 > >|

 | Next



PetroIndustries, Inc. (Demo)

Sample Overview

Sample Location	Sample Count	N Samples	FD Samples	Record Count	Sample Types	Earliest Sample	Latest Sample
MH-209	2	2	0	147	N	1/15/2023	6/15/2023
MH-210	2	2	0	147	N	1/15/2023	6/15/2023
MH-211	2	2	0	147	N	1/15/2023	6/15/2023
MH-212	4	2	2	294	FD, N	1/15/2023	6/15/2023
MH-213	2	2	0	126	N	1/15/2023	6/15/2023
Totals	12	10	2	861	FD, N	1/15/2023	6/15/2023

Has my data loaded?

Sample Details Report part 2

Start Date: 1/1/2023 End Date: 8/31/2023 Location: MH Wells

 Include Field (d7EDD) EDDs: True Sample Types: N and FD Medium: Groundwater

2 of 4 100% Find | Next

Sample Details

Sample Location	Sample Date	Sample ID	Sample Type	Medium	Methods	Sources
MH-209	2023-01-15 08:30:00	MH-209-20230115	N	Groundwater	EPA 537 MOD, SM 4500-NH3-H, SW-846 6010D, SW-846 8260C	88880005-2301017-1.zip, 88880005-2301022-1.zip
MH-209	2023-06-15 09:40:00	MH-209-20230615	N	Groundwater	SM 4500-NH3-H, SW-846 6010D, SW-846 8260C	88880005-2304321-1.zip
MH-210	2023-01-15 10:30:00	MH-210-20230115	N	Groundwater	EPA 537 MOD, SM 4500-NH3-H, SW-846 6010D, SW-846 8260C	88880005-2301017-1.zip, 88880005-2301022-1.zip
MH-210	2023-06-15 10:15:00	MH-210-20230615	N	Groundwater	SM 4500-NH3-H, SW-846 6010D, SW-846 8260C	88880005-2304321-1.zip
MH-211	2023-01-15 11:00:00	MH-211-20230115	N	Groundwater	EPA 537 MOD, SM 4500-NH3-H, SW-846 6010D, SW-846 8260C	88880005-2301017-1.zip, 88880005-2301022-1.zip
MH-211	2023-06-15 10:30:00	MH-211-20230615	N	Groundwater	SM 4500-NH3-H, SW-846 6010D, SW-846 8260C	88880005-2304321-1.zip
MH-212	2023-01-15 12:30:00	DUP-2-20230115	FD	Groundwater	EPA 537 MOD, SM 4500-NH3-H, SW-846 6010D, SW-846 8260C	88880005-2301017-1.zip, 88880005-2301022-1.zip
MH-212	2023-01-15 12:30:00	MH-212-20230115	N	Groundwater	EPA 537 MOD, SM 4500-NH3-H, SW-846 6010D, SW-846 8260C	88880005-2301017-1.zip, 88880005-2301022-1.zip
MH-212	2023-06-15 11:30:00	DUP-2-20230615	FD	Groundwater	SM 4500-NH3-H, SW-846 6010D, SW-846 8260C	88880005-2304321-1.zip
MH-212	2023-06-15 11:30:00	MH-212-20230615	N	Groundwater	SM 4500-NH3-H, SW-846 6010D, SW-846 8260C	88880005-2304321-1.zip
MH-213	2023-01-15 12:10:00	MH-213-20230115	N	Groundwater	SM 4500-NH3-H, SW-846 6010D, SW-846 8260C	88880005-2301017-1.zip
MH-213	2023-06-15 12:10:00	MH-213-20230615	N	Groundwater	SM 4500-NH3-H, SW-846 6010D, SW-846 8260C	88880005-2304321-1.zip

Is my data complete?

- SDG Analytical Report Example
- Grouping based on Location, Method and Parameter



Is my data complete?

SDG Analytical

Bold face indicates a detected compound.

There is one row for each combination of parameter and units, so an additional row for the same compound will be added if there are different data units for the same compound.

Chemicals are grouped by Method Class (if available). If no Method Class is available, they are grouped by Analytic Method.

Qualifiers	Definition
U	Not detected above the reporting limit.

Report Parameters (data selections):

Report Name: Data_AnalyticalBySDG

Date Range: 1/1/2021 - 8/24/2023

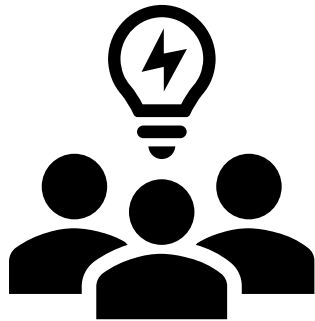
SDG: 2203333

Created on: 08/24/2023 02:15

Version note, 2/8/2023: Sort dissolved results to the end of the chemical group.

What does the data mean?

- Everyone is looking for something different!
- Data means different things to different people
- Analytical Crosstab Report with Action Limits Example
- Basic Stats Report Example



What does the data mean?

Analytical Crosstab – with Action Limits

Start Date: 1/1/2021 | End Date: 8/31/2023 | Samp Type List: N and FD
 Medium: Groundwater | Loc Groups: [All Sample Locations] | Tasks: (none), Sampling Q2 2023, System I
 Method Classes: Field, Metals, PAH, PFAS, Physical, SVO | SDGs: 2203333 | Regulations: (none), Tier I Groundwater, Tier I Indi

1 of 5 | 100% | Find | Next



PetroIndustries, Inc. (Demo)

Table for Groundwater				MH-209	MH-210	MH-211
Parameter	CAS	Units	Location	3/16/2022 7:30:00 AM	3/16/2022 9:00:00 AM	3/16/2022 10:15:00 AM
			Date	Tier I Groundwater		
			Sample ID	MH-209-20220315	MH-210-20220315	MH-211-20220315
			Task			
Parameter	CAS	Units	Groundwater	Groundwater	Groundwater	
Metals						
Arsenic	7440-38-2	mg/l	50 (ug/l)	0.857	0.0516	0.0489
Barium	7440-39-3	mg/l	2000 (ug/l)	0.0030 U	0.0030 U	0.0030 U
Beryllium	7440-41-7	mg/l	4 (ug/l)	0.0010 U	0.0010 U	0.0010 U
Copper	7440-50-8	mg/l	650 (ug/l)	0.0025 U	0.0025 U	0.0025 U
Lead	7439-92-1	mg/l	7.5 (ug/l)	0.0050 U	0.0050 U	0.0050 U
Nickel	7440-02-0	mg/l	100 (ug/l)	0.0010 U	0.0010 U	0.0010 U
Zinc	7440-66-6	mg/l	5000 (ug/l)	0.0045 U	0.0045 U	0.0045 U
Arsenic, Dissolved	7440-38-2	mg/l	50 (ug/l)	0.842	0.051	0.052

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PetroIndustries, Inc. (Demo)

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Parameter	CAS	Units	Location	3/16/2022 7:30:00 AM	3/16/2022 9:00:00 AM	3/16/2022 10:15:00 AM
			Date	Tier I Groundwater		
			Sample ID	MH-209-20220315	MH-210-20220315	MH-211-20220315
			Task			
Parameter	CAS	Units	Groundwater	Groundwater	Groundwater	
Metals						
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PROJECT PORTAL

PetroIndustries, Inc. (Demo)

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		Date		MH-209-20220315	MH-210-20220315	MH-211-20220315
		Sample ID		Groundwater	Groundwater	Groundwater
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Basic Stats Report



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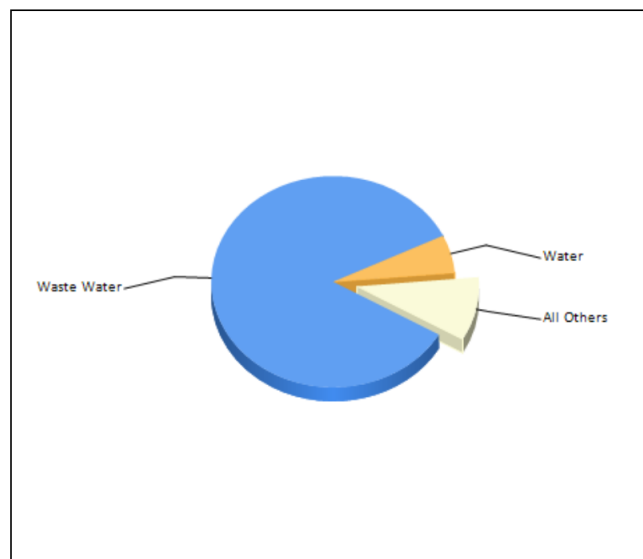
Basic Project Statistics

Summary Statistics

Number Of Locations	Locations With Results	Locations With Coordinates (East/North or Lat/Long)	Coordinate System (if Northing/Easting)
246	183	240	WGS84 Web Mercator

Total Number of Samples (Incl. QC)	Number of Results (Incl. QC)
90,292	152,940

Count of Analytical Results, by Medium (normal samples only)



Medium	Number Of Results	%Total	Date Range
Waste Water	128,439	84.48%	01/01/2018 - 06/11/2020
Water	8,818	5.80%	10/08/2014 - 09/29/2018
Groundwater	4,872	3.20%	05/15/2012 - Present
Process or Treated Water	4,320	2.84%	12/17/2004 - 06/05/2020
Vapor Extraction Effluent Gas	3,492	2.30%	10/08/2014 - 09/29/2018
Air	1,393	0.92%	10/08/2014 - 09/29/2018
Soil	565	0.37%	09/30/2003 - 09/14/2006
Does Not Apply	96	0.06%	02/01/2022 - 05/01/2023
Soil Vapor/Gas	37	0.02%	10/20/2006 - 10/20/2006
TOTALS:	152,032	100.00%	09/30/2003 - 09/26/2023

Pale yellow shading indicates a medium that contributes < 5% of the total.

Count of Samples per Year (Normal samples only)

Year	Number of Samples
2003	17
2004	58
2006	38
2007	4
2008	2
2009	6
2010	2

What does the data mean?

Basic Stats Report



PetroIndustries, Inc. (Demo)

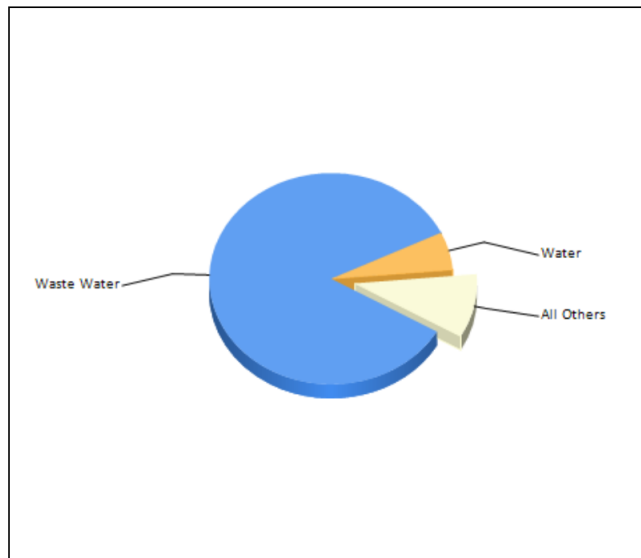
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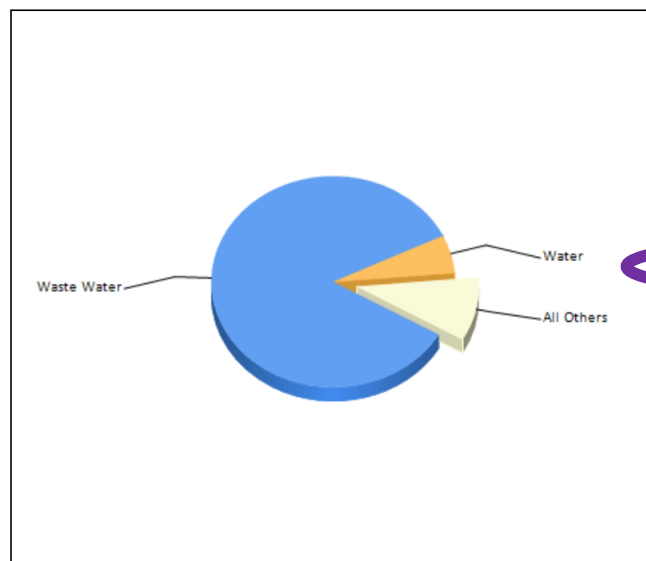
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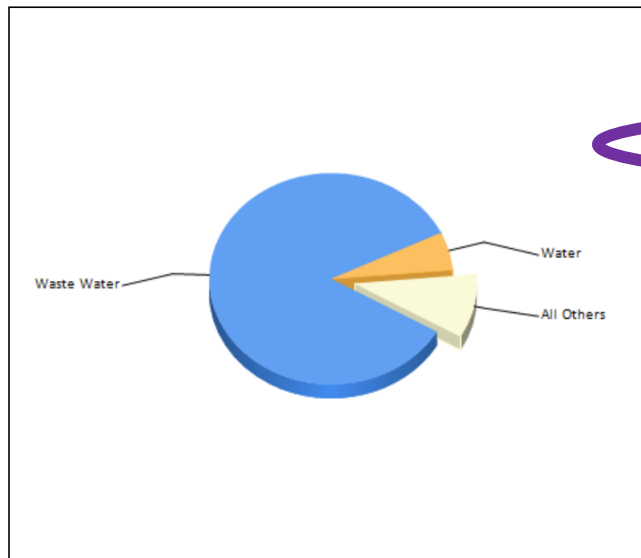
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Basic Stats Report



PetroIndustries, Inc. (Demo)

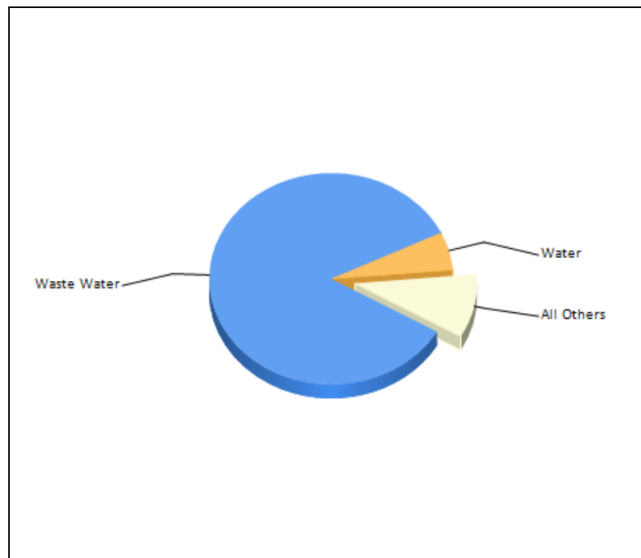
Basic Project Statistics

Summary Statistics

Number Of Locations	Locations With Results	Locations With Coordinates (East/North or Lat/Long)	Coordinate System (if Northing/Easting)
246	183	240	WGS84 Web Mercator

Total Number of Samples (Incl. QC)	Number of Results (Incl. QC)
90,292	152,940

Count of Analytical Results, by Medium (normal samples only)



Medium	Number Of Results	%Total	Date Range
Waste Water	128,439	84.48%	01/01/2018 - 06/11/2020
Water	8,818	5.80%	10/08/2014 - 09/29/2018
Groundwater	4,872	3.20%	05/15/2012 - Present
Process or Treated Water	4,320	2.84%	12/17/2004 - 06/05/2020
Vapor Extraction Effluent Gas	3,492	2.30%	10/08/2014 - 09/29/2018
Air	1,393	0.92%	10/08/2014 - 09/29/2018
Soil	565	0.37%	09/30/2003 - 09/14/2006
Does Not Apply	96	0.06%	02/01/2022 - 05/01/2023
Soil Vapor/Gas	37	0.02%	10/20/2006 - 10/20/2006
TOTALS:	152,032	100.00%	09/30/2003 - 09/26/2023

Pale yellow shading indicates a medium that contributes < 5% of the total.

Count of Samples per Year (Normal samples only)

Year	Number of Samples
2003	17
2004	58
2006	38
2007	4
2008	2
2009	6
2010	2

What does the data mean?

Basic Stats Report



PetroIndustries, Inc. (Demo)

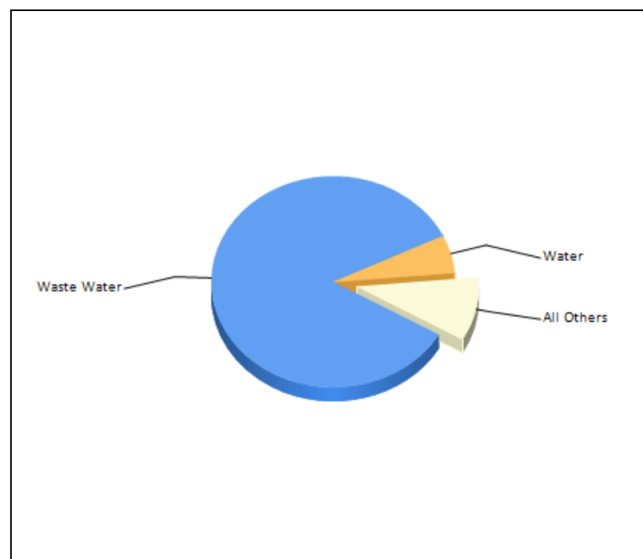
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Thank you!

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