



# Florida Department of Environmental Protection

## Petroleum Restoration Program

# O&M Performance

## 2017 PRP Workshop



# Let's Get Started



**Florida Department of Environmental Protection**





# RUNTIME

- What is System Runtime?
- The time the system ran, divided by the time it should have run.
- Must be  $\geq 80\%$  for full payment.



# Reporting Runtime

- O&M Report Tables 2, 3A, 3B and 3C.
- If <80%, Section 17 (O&M), 18 (system use), and 21-8 (PE oversight of O&M) are prorated.
- Example: AS running 65% and VE 90% = 65% proration.



# Do some figuring!



# Runtime Tables

**TABLE 3A: AIR SPARGING PERFORMANCE SUMMARY**

Facility Name:	DEP BMC	Startup Date:	2/12/2006	Code	Arrive	Depart
Facility ID#:	123456789			1	on	on
				2	off	on
				3	off	off
				4	on	off

Site	Days	Days	AS Compressor 1		AS Compressor 2		AS Compressor 3		Hours of Operation	Total Hours of Operation	Approved	Percent	Percent	Process
			Hour	Daily	Hour	Daily	Hour	Daily						
Visit	Between	Since	Meter	Designed Run	Meter	Designed Run	Meter	Designed Run	Period	Cumulative	(hours)	(period)	(cumulative)	
Date	Site Visits	Startup	Reading	Time (hours)	Reading	Time (hours)	Reading	Time (hours)						
01/01/08			100	12	100	12								
01/02/08	1	1	112	12	112	12			24	24		100.00%	100.00%	
01/03/08	1	2	123	12	123	12			22	46	1	95.83%	97.92%	



# Downtime – Approved?

- Downtime is entered into tables by the contractor and does not count against runtime.
- Approved downtime is: prior to sampling, severe weather (not lightning), conditions outside of control of contractor, if precautions were taken.
- Operating schedules <24/7 (e.g. pulsing) if preapproved by PRP. Only if we meant to run it < 24/7!



# We meant to do that





# Downtime – Approved?

- System failure is not approved downtime. Especially with rented systems, there are no excuses.
- Shutdown for exceeding discharge/emissions limits is not approved.
- Damage from lightning is not approved downtime.



# Downtime – Approved?

- If you don't know what it is, it is not approved!
- You can always question downtime in the table, and give the contractor a chance to justify it.



# Milestones

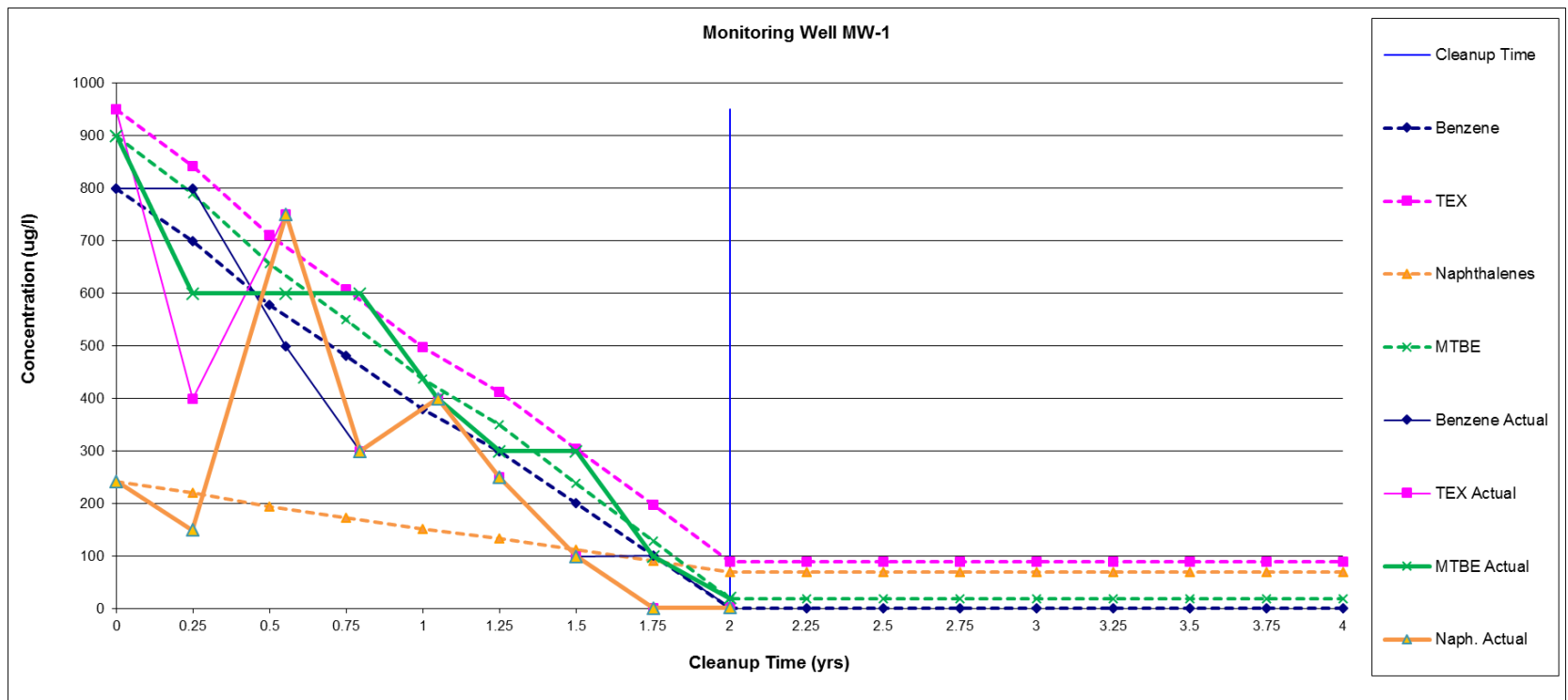
**TABLE 1B: SITE PERFORMANCE SUMMARY**

<b>Facility Name:</b>	DEP BMC	<b>Startup Date:</b>	2/12/2006
<b>Facility Address:</b>	2600 Blairstone Road, Tallahassee	<b>System Type:</b>	0
<b>FDEP FAC ID:</b>	123456789		

<b>Key Wells Meeting All Milestones (yes/no)</b>																
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16
MW-1																
MW-2																
MW-3																
MW-4																
MW-5																
MW-6																
MW-7																



# Milestones





# Other Performance

- Now that the system is running, is it working?
- Look at OVA, Emission Rate, and Mass Recovered, in Table 7, for example.
- Also, look at D.O., Vac/Press in Table 11.
- These parameters must be taken at the site, so the contractor has to mobilize at least once a month.
- Site visits are also necessary to optimize flow rates, etc.



# Vapor Analytical

**TABLE 7: VAPOR TREATMENT SYSTEM ANALYTICAL SUMMARY**

										If Non-Detect Use MDL "U"			
<b>Facility Name:</b>		DEP BMC				<b>Facility ID#:</b> 123456789				Not Sampled = NS			
										Analytical Results = mg/m <sup>3</sup>			
<b>Sample</b>		<b>Hour</b>	<b>System Vacuum</b>	<b>Flow Rate</b>	<b>OVA</b>			<b>Ethyl</b>	<b>Total</b>	<b>Total</b>	<b>Emission</b>		<b>Total Mass</b>
<b>Location</b>	<b>Date</b>	<b>Meter</b>	<b>(in of H2O)</b>	<b>(scfm)</b>	<b>(ppm)</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Benzene</b>	<b>Xylenes</b>	<b>VOA</b>	<b>TPH</b>	<b>Rate (lb/day)</b>	<b>Recovered (lbs)</b>



# System Influence

**TABLE 11: SYSTEM INFLUENCE MONITORING PARAMETERS**

TABLE 11: SYSTEM INFLUENCE MONITORING PARAMETERS																	
Facility Name:		DEP BMC				Facility ID#:		123456789				DTW = Feet		Vac/Press = in of H <sub>2</sub> O			
										D.O. - mg/l		Obs. - Visual Observations					
WELL NO.																	
WELL DEPTH																	
SCREEN INT.																	
DATE	DTW	D.O.	Vac/Press	Obs.	DTW	D.O.	Vac/Press	Obs.	DTW	D.O.	Vac/Press	Obs.	DTW	D.O.	Vac/Press	Obs.	



# Questions?

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# THE END