

# Lake O' the Pines

## Total Maximum Daily Load for Dissolved Oxygen

### **TMDL I-Plan** (approved 2008 revised 2014)

- Point Source
  - WWTPs - *TPLA*
- Non Point Source
  - AFOs (Chicken, Dairy) *TSSWCB/Industry*
  - Non- AFOs (Grazing) *TSSWCB*
  - Forestry BMPs-*TFS/NRCS/Industry*
  - OSSF – *Counties and NETMWD*
  - Houseboat discharge (*TCEQ/TPWD*)
  - Wildlife

### **Total Phosphorus Load Agreement**

- Entities agree to 56% reduction of TP
- Self report data for flow and TP
- NETMWD compiles data
- Pilgrims improves WWTP to remove TP for all entities
- Other entities to pay per pound of excess TP removed on their behalf

# NETMWD OSSF PROGRAM

- Administers TCEQ's On Site Sewage Facilities (OSSF) programs for Marion, Morris, Cass and Upshur Counties
- Covers approximately 2500 square miles. (An area two and a half times the size of the State of Rhode Island) in 3 watersheds.
- Permitted **200** new septic systems in 2018
- Permitted over 2700 septic systems since we began the program in 1999
- These permitted systems combined can treat approximately **236,000,000** gallons of waste each year!

# NETMWD OSSF 2014-2018

## Permitting by Year

- 2014            204 permits
- 2015            209 permits
- 2016            192 permits
- 2017            202 permits
- 2018            200 permits

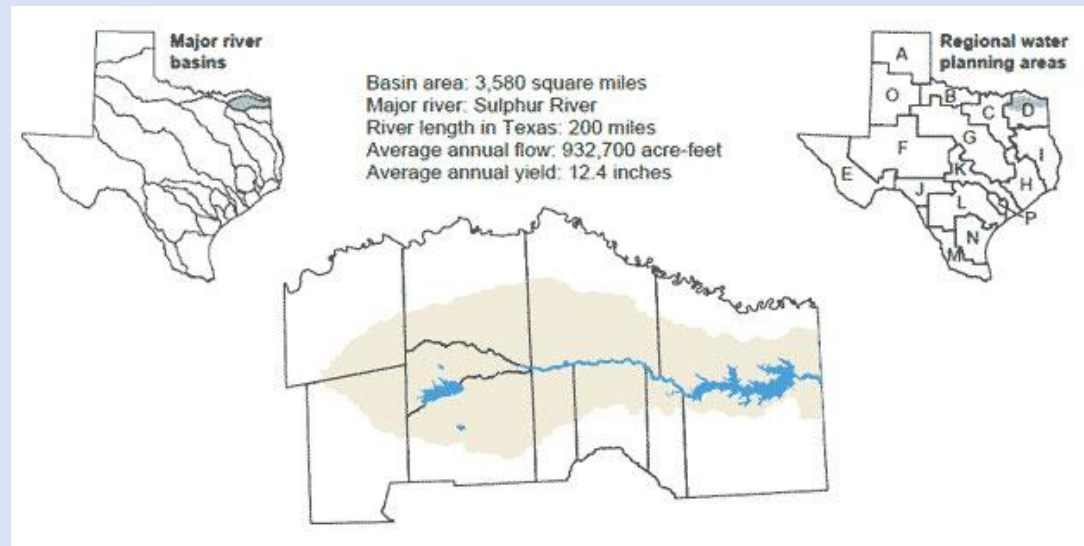
TOTAL                    1007

## ETC...

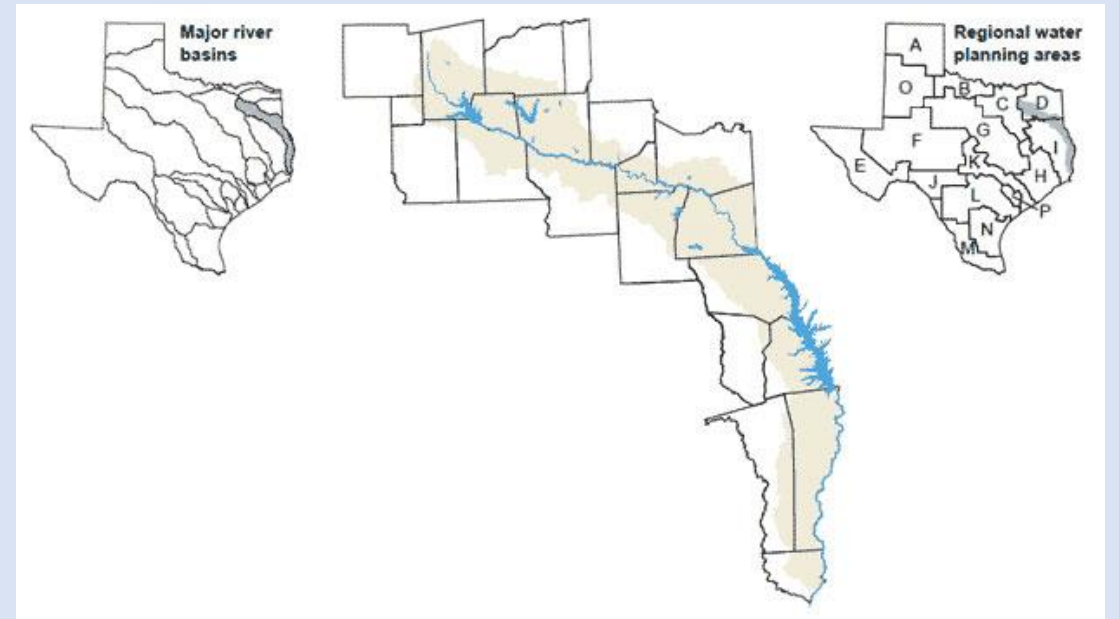
- Upshur County
  - 65% of permits each year
  - Cypress and Sabine watersheds
  - NETMWD began admin. of Upshur in 2011
- Cass and Morris Counties are located in the Cypress and Sulphur watersheds.
- NETWMD administers OSSF over the entirety of each County.

# Watersheds

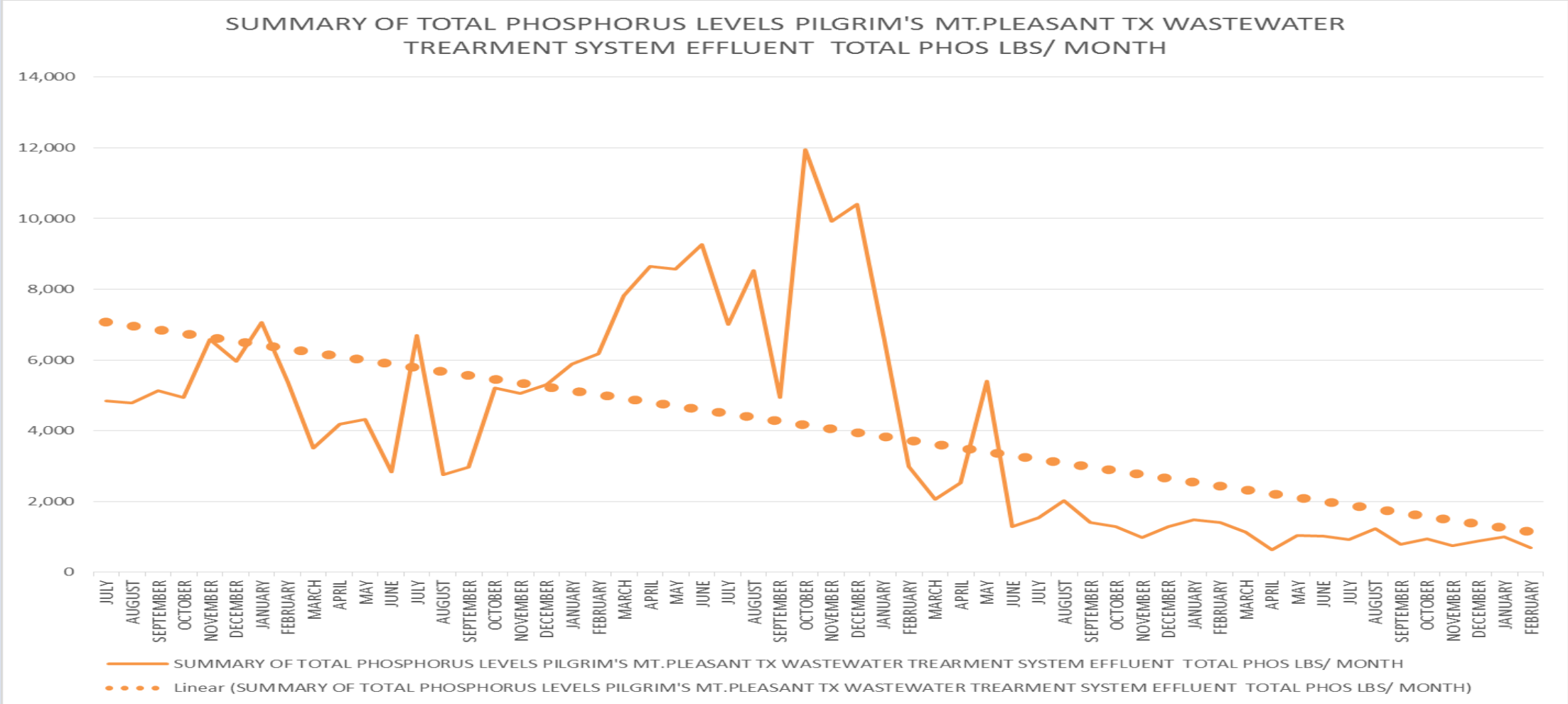
## Sulphur Basin



## Sabine Basin



# Pilgrims Phosphorus Discharge 2012-2017



# 2018 Total Phosphorus Load Agreement

Actual TP Discharge lbs/month																		
WWTP	Monthly Allocation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total YTD	Annual Allocation	Annual Variance		
<b>Daingerfield</b>	42.50	20	44	38	40	153	65	137	85	69	90	34	30	805	510	295		
<b>Lone Star</b>	37.50	123	121	170	125	119	137	140	126	145	123	69	107	1505	450	1055		
<b>Mt. Pleasant</b>	181.67	245	640	403	314	401	182	192	244	318	697	597	224	4457	2180	2277		
<b>Omaha</b>	21.67	20	12	4	10	41	87	116	86	86	62	6	14	544	260	284		
<b>Ore City</b>	83.33	20	48	108	30	50	78	121	108	39	49	27	48	726	1000	-274		
<b>Pilgrims</b>	3716.60	962	541	479	341	825	1462	975	599	281	1267	742	1070	9544	53200	-43656		
<b>Pittsburg/Dry Creek</b>	47.50	12	14	56	25	26 ND*	ND*	ND*	ND*	ND*		31	45	209	570	-361		
<b>Pittsburg/Sparks Branch</b>	148.33	31	34	34	66	74	86	117	64	63	494	232	56	1351	1780	-429		
<b>Totals</b>	4279	1433	1454	1292	951	1689	2097	1798	1312	1001	2782	1738	1594	19141	59950	-40809		

NOTE : Daingerfield, Lone Star, Mt. Pleasant and Omaha exceeded their 2018 Annual Allocation by a combined 3911 Lbs of Total Phosphorus. The TPLA agreement values the cost of removal of TP to be \$3.00 per lb or a total for the combined overage of \$11,733.00

\*ND= No Discharge