

ive the existing regulatory limits in order to ensure the protection of public health. It should be noted that all of these systems must, at a minimum, meet

New Plant Major Design Change, or recent Staff Turnover?	NON-PERFORMANCE POINTS						CPE/PBT PERFORMANCE EXPERIENCE					
	Regulatory Compliance Score	Plant Continuous Operation Score	Filter-to-Waste Score	Backwash Recycle Score	Continuous On-line Turbidimeter Score	New Plant, Maj. Design Change, or Staff Turnover Score	CPE Experience?	Number of CPEs completed?	Year of most recent CPE?	PBT/CTA Experience?	Number of PBTs/CTAs completed?	Year of most recent PBT/CTA?
YES	5	10	10	0	5	5	YES	1	2000	NO		
NO	5	10	0	0	5	0	NO			NO		
NO	10	10	0	0	0	0	NO			NO		
YES	15	0	0	0	0	5	YES	1	1995	YES	1	2003
NO	0	10	10	0	0	0	YES	1	1997	YES	1	2002
YES	0	10	10	0	0	5	YES	1	1998	YES	1	2002
YES	0	10	0	0	0	5	YES	1	1998	NO		
NO	5	10	0	0	0	0	YES	1	1998	YES	2	2002/08
YES	5	10	0	0	0	5	NO					
NO	5	5	0	0	0	0	YES	1	1999	NO		
NO	10	0	0	0	0	0	NO			YES	1	2008
NO	0	0	0	0	0	0	NO			NO		
NO	0	0	0	0	0	0	YES	1	1999	YES	1	2003
NO	10	10	10	0	0	0	NO			NO		
NO	10	10	0	0	0	0	YES	1	2004	NO		
NO	10	10	0	0	0	0	NO			NO		
YES	5	5	0	0	0	5	YES	1	1998	YES (CTA)	1	1998
NO	0	0	10	5	0	0	NO			NO		
YES	0	5	0	0	0	5	YES	1	1995	YES	1	2003
NO	5	5	0	0	0	0	NO			NO		
NO	5	0	0	0	0	0	YES	2	2002-DBP	NO		
NO	0	5	0	0	0	0	NO			NO		
YES	0	0	0	0	0	5	NO			NO		
NO	0	0	0	0	0	0	NO			NO		
YES	0	10	0	0	0	5	NO			NO		
NO	0	10	0	0	0	0	YES	1	2006	NO		
YES	5	0	0	0	0	5	NO			NO		
NO	0	10	0	0	0	0	YES	1	1999	NO		
NO	0	5	0	0	0	0	YES	1	1996	NO		
NO	5	0	0	0	0	0	NO			NO		
YES	0	0	0	0	0	5	YES	1	1999	NO		
NO	5	0	0	0	0	0	NO			YES	1	2008
NO	5	0	0	0	0	0	YES	1	2001	NO		
NO	0	0	0	0	0	0	YES	1	1997	NO		
NO	0	0	0	0	0	0	YES	1	2002	NO		
NO	0	0	0	0	0	0	YES	1	1999	NO		
NO	0	0	0	0	0	0	NO			YES	1	2005
NO	0	0	0	0	0	0	NO			NO		
NO	0	10	10	0	0	0	YES	1	2001	NO		
NO	0	0	10	0	0	0	NO			YES	1	2003
NO	0	10	0	0	0	0	NO			NO		
NO	0	10	0	0	0	0	YES	1	1999	YES	2	2002/08
NO	0	0	0	5	0	0	NO			YES	1	2003
NO	0	0	0	0	0	0	YES	1	2001	YES	1	2003
NO	0	0	0	0	0	0	NO			YES	1	2005
NO	0	10	10	0	0	0	YES	1	1998	YES	2	2002/08
YES	5	10	0	0	0	5	YES	1	2003	NO		
NO	5	5	0	0	0	0	YES	1	2004	YES	1	2003
NO	5	0	0	0	0	0	YES	1	1998	NO		
NO	5	0	0	0	0	0	YES	1	1997	NO		
NO	0	0	0	0	0	0	YES	1	2000	NO		
NO	0	0	0	0	0	0	YES	1	1999	YES	1	2005
NO	0	10	0	0	0	0	NO			YES	1	2008
NO	5	0	0	0	0	0	NO			NO		
YES	0	0	10	0	0	5	YES	2	2000	YES	1	2002
NO	0	0	0	0	0	0	NO			YES	1	2002
NO	0	0	0	0	0	0	YES	1	2004	NO		

Historical LA AWOP Surface Water Treatment Plant (SWTP)/Turbidity-Based Rankings

NOTE: Each of these systems met their regulatory requirements for each year listed. However, concerning meeting optimization goals (which are in exceedance of the regulatory requirements), the water systems that ranked closest to 1st each year were considered the least optimized systems for that year. There are a few systems from previous years rankings which are currently no longer in existence or inactive. These inactive systems have been removed from this list and the rankings adjusted accordingly.

PWS ID NO.	WATER SYSTEM NAME	FY10 ('09-10)	FY09 ('08-09)	FY08 ('07-08)	FY07 ('06-07)	FY06 ('05-06)	FY05 ('04-05)	FY04 ('03-04)	FY03 ('02-03)	FY02 ('01-02)	FY01 ('00-01)	FY00 ('99-00)	FY99 ('98-99)
LA1005035	Peoples Water Co. of Donaldsonville	23	11	5	21	22	23	10	11	36	31	23	56
LA1007001	Assumption Parish Waterworks Dist. 1	9	5	4	8	15	27	28	45	17	12	14	15
LA1015004	City of Bossier Water System	43	58	57	57	44	58	55	57	32	50	18	33
LA1017006	Blanchard Water System	21	50	36	2	28	5	14	6	14	5	6	1
LA1017010	East Mooringsport Water System	2	2	1	9	27	29	21	23	8	24	15	37
LA1017014	Town of Greenwood	40	49	46	52	50	54	53	28	30	58	46	31
LA1017023	Mooringsport Water System	13	14	34	44	37	8	18	52	9	1	1	54
LA1017026	Caddo Waterworks - Oil City Water System	39	39	37	12	29	12	26	58	54	33	45	28
LA1017031	Shreveport Water System	35	56	50	55	56	37	40	53	45	4	24	36
LA1017037	Vivian Water System	16	22	3	19	47	22	31	40	53	56	56	38
LA1017050	East Cove Utilities Water System	1	1	2	1	1	28	13	3	2	23	21	2
LA1019119	Houston River Waterworks District 11				28	41	24	11	2	4	3	44	7
LA1029005	Town of Ferriday	4	3	9	4	8	14	30	12	39	51	32	8
LA1031008	Logansport Water System	19	24	12	10	16	4	4	1	12	7	3	3
LA1031009	Mansfield Water System	46	25	33	43	48	30	33	51	57	49	51	30
LA1031010	Desoto Parish WWKs Dist 1	10	7	11	16	11	1	3					
LA1043004	Georgetown Water Supply	5	4	6	6	9	2	32	26	28	43	17	18
LA1047002	Iberville Water Works Dist. #3	50	30	16	54	51	42	22	42	21	8	29	43
LA1051001	East Jefferson Waterworks Dist. #1	17	20	13	15	14	21	41	34	37	41	30	44
LA1051003	Gretna Waterworks	55	52	52	53	52	55	34	38	1	2	7	4
LA1051004	West Jefferson Waterworks Dist. #2	44	36	32	41	34	9	37	8	24	32	31	45
LA1051005	Westwego Waterworks	32	18	19	18	33	10	27	54	22	39	19	34
LA1057001	Lafourche Parish Water Dist. #1 (North and South)	38	46	54	58	58	59	48	55	56	54	42	42
LA1057003	Thibodaux Waterworks	24	19	8	30	19	19	1	27	19	44	54	24
LA1069007	Natchitoches Water System	51	42	39	24	18	25	35	44	52	27	36	27
LA1069013	Sandy Point 480 Water System	31	27	53	17	12	35	2	10	26	35	38	48
LA1071001	New Orleans - Algiers Waterworks	11	34	30	46	46	16	42	47	48	48	50	57
LA1071009	New Orleans - Carrollton Waterworks	20	26	23	11	3	6	5	15	29	52	53	47
LA1073031	Monroe Water System	22	16	40	31	57	56	47	32	49	15	37	16
LA1075001	Belle Chasse Water Dist.	37	21	21	13	10	38	43	48	41	9	20	35
LA1075002	Boothville Water Treatment Plant								35	20	26	9	6
LA1075004	Dalcour Waterworks Dist.	28	17	27	23	23	48	46	43	15	30	22	25
LA1075005	Pointe a la Hache Water System	27	15	17	22	6	33	25	18	18	29	26	9
LA1075006	Port Sulphur Water Dist.	18	33	18	25	25	50	23	33	46	42	49	55
LA1079017	Rapides Parish Waterworks Dist #3	57	57	58	59	59	44	54	21	55	57	57	58
LA1081012	Fairview Union WS	7	6	7	20	7	11						
LA1085016	Many Water System	3	29	10	26	13	13	9	16	34	22	27	21
LA1085046	Pendleton Water Assoc.	47	51	47	51	49	53	52	41	6	47	41	39
LA1085055	South Toledo Bend Water Dist.	15	55	25	56	55	57	58	56	58	53	58	32
LA1087001	St. Bernard Parish Waterworks	34	43	31	32	20	32	38	30	40	18	2	11
LA1089001	St. Charles Water Dist. #1 - New Sarpy	42	35	43	49	45	49	50	49	42	55	43	52
LA1089002	St. Charles Water Dist. #2 - Luling	45	45	44	48	40	51	49	46	50	14	55	53
LA1093002	Gramercy Waterworks	41	12	41	5	5	46	45	39	16	20	48	13
LA1093003	Lutcher Waterworks	14	8	26	29	30	40	36	9	11	19	12	19
LA1093004	St. James Water Dist. #1 - Convent	48	37	24	36	36	41	15	20	31	11	35	41
LA1093005	St. James Water Dist. #2 - Vacherie	49	48	48	35	17	39	19	31	43	38	47	51
LA1095002	St. John Water Dist. #2 - Edgard	26	53	55	42	54	52	57	36	27	46	52	50
LA1095003	St. John Water Dist. #1 - Lions	8	13	20	40	39	45	44	13	10	28	34	40
LA1101002	Berwick Bayou Vista Waterworks Commision	58	47	56	47	53	15	56	50	47	13	10	12
LA1101003	City of Franklin Water Supply	30	9	14	7	31	31	17	14	38	17	8	23
LA1101005	Morgan City Water System	53	54	51	45	43	36	12	7	7	16	5	5
LA1101006	Patterson Water System	25	31	29	3	4	3	8	5	3	21	11	10
LA1101009	St. Mary Parish Water & Sewer Comm. #1 - Amelia	54	41	42	14	35	20	29	37	33	40	28	26
LA1101010	St. Mary Parish Waterworks Dist. #5 - Centerville	52	40	28	37	32	43	39	17	35	37	40	22
LA1101011	St. Mary Parish Waterworks Dist. #6 - Charenton	36	32	15	39	38	26	6	24	23	36	39	29
LA1107002	Lake Bruin Water System	12	23	22	33	2	17	7	4	13	34	16	17
LA1107003	Newellton Water System	6	10	45	34	26	18	51	25	25	45	33	49
LA1107009	Tensas Water District Association	56	38	35	50	21	7	24	22	5	6	4	46
LA1109001	Houma Water Treatment Plant Service Area	33	28	38	27	24	47	20	29	44	25	13	14
LA1109002	Schriever Water Treatment Plant Service Area	29	44	49	38	42	34	16	19	51	10	25	20

Louisiana Area Wide Optimization Program (LA AWOP)
FY05 Annual Surface Water Treatment Plant (SWTP)
Turbidity -Ranking Prioritization Criteria

Performance Points: The following prioritization criteria are considered to be "Performance Related" and when summed are considered to be the PERFORMANCE POINTS SUMMATION.

Criteria	Standard	Points	
Finished Water Turbidity 95th Percentile (combined filtered effluent) (Choose one based on 95 th Percentile)	if 95 th percentile =	0	
		0.00 - 0.10 NTU	0
		0.11 - 0.15 NTU	5
		0.16 - 0.20 NTU	10
		0.21 - 0.25 NTU	15
		0.26 - 0.30 NTU	20
		0.31 - 0.35 NTU	25
		0.36 - 0.40 NTU	30
		0.41 - 0.45 NTU	35
		0.46 - 0.50 NTU	40
		0.51 - 0.55 NTU	45
		0.56 - 0.60 NTU	50
		0.61 - 0.70 NTU	60
		0.71 - 0.80 NTU	70
		0.81 - 0.90 NTU	80
		0.91 - 1.00 NTU	90
		> 1.01 NTU	100
	if 95th percentile finished water turb = "blank" (this means system didn't report finished turbidity at all)	100	
Finished Water Turbidity Maximum (combined filtered effluent) (Choose one based on Max Value)	maximum value during 1 year <= 0.5 NTU	0	
	maximum value during 1 year exceeds 0.5 NTU	10	
	maximum value during 1 year exceeds 1.0 NTU	20	
Settled Water Turbidity (Choose one based on raw turbidity)	if annual avg raw turbidity >10 NTU and settled turb <= 2 NTU, > 95% of time	50-95% of time	5
		< 50% of time	10
			0
	if annual avg raw turbidity <=10 NTU and settled turb <= 1 NTU, > 95% of time	50-95% of time	5
		< 50% of time	10
			0
		if 95th percentile settled water turb = "blank" (this means system doesn't collect settled turbidity at all)	10
	Cause and Effect Relationship RSQ-Value Raw/Settled/Finished*	if a relationship is indicated	15
		if RSQ is "blank", meaning there is no settled water collected	15

(A Cause and Effect Relationship is determined from the RSQ Value indicated on the Optimization Assessment Software (OAS) – Treatment Barrier Performance Summary sheet. The RSQ value depicts a relationship between two data sets. Being that the RSQ value is a ratio, its maximum value is 1.0. The closer the RSQ value is to 1.0, the more definitive a relationship exists between the two data sets. This means that turbidity spikes occurring in one phase of treatment are also seen in the next treatment phase. A high RSQ value is indicative of "breakthrough" occurring through one or more treatment barriers.)

The RSQ values for the settled and combined filtered water are treated separately. If either RSQ value (max. settled or combined filtered) is above 0.3, then there is a cause and effect relationship and 15 points should be

*It should be noted that for previous years (years prior to the FY04 Ranking), the point system for this portion was as follows:

- Sum of both (settled and combined filtered) RSQs < 0.15 = 0 Points (No Relationship)
- Sum of both (settled and combined filtered) RSQs ≥ 0.15 and ≤ 0.5 = 10 Points (Probable Relationship)
- Sum of both (settled and combined filtered) RSQs > 0.5 = 20 Points (Direct Relationship)

Louisiana Area Wide Optimization Program (LA AWOP)
FY05 Annual Surface Water Treatment Plant (SWTP)
Turbidity -Ranking Prioritization Criteria

Non-Performance Points: The following prioritization criteria are considered to be “Non-Performance Related”. These points are summed with the Performance Points above to obtain the TOTAL POINTS SUMMATION.

Criteria	Standard	Points
Regulatory Compliance (Only compliance with Turbidity, Filtration, SWTR, and Bacti-Related Regulations are considered.) (Choose each that applies - but do not assign points 'per violation', rather just once if 1 or more violations occur)		
	Acute MCL violation within 1 year	15
	MCL violation within 1 year	5
	Treatment technique viol within 1 year	5
	Monitoring and reporting viol within 1 year	5
Plant Operation (Choose one)	if plant doesn't routinely shutdown (no regular on/off events)	0
	if plant is shutdown overnight (single regular on/off event)	5
	if plant operates intermittently (frequent regular on/off events)	10
“Filter-to-Waste” Not Available or Not Used (Yes/No)?	if YES	10
Backwash Recycle to Head of Plant (Yes/No)?	if YES	5
Continuous On-Line Turbidimeters on Individual Filters (Yes/No)?	if NO	5
New Plant? Major Design Change? Recent Staff Turnover (Yes/No)?	if YES to any	5

CPE/PBT/CTA Experience: The following criteria are NOT assigned points and do NOT affect the SWTP Ranking. A CPE is a Comprehensive Performance Evaluation, a PBT is a Performance Based Training series, and a CTA is a Comprehensive Technical Assistance series. This section on CPE/PBT/CTA Experience is only considered when determining future AWOP activities and includes information on the following:

CPE Experience –	Has the water system been involved in one or more CPEs?	(Yes/No)
No. of CPEs –	How many CPEs has the water system been involved in?	(#)
Year of Most Recent CPE –	Considering possible involvement in more than one CPE, what year was the most recent CPE conducted in?	(YEAR)
PBT/CTA Experience –	Has the water system been involved in one or more PBTs/CTAs?	(Yes/No)
No. of PBTs/CTAs –	How many PBTs/CTAs has the water system been involved in?	(#)
Year of Most Recent PBT/CTA –	Considering possible involvement in more than one PBT/CTA, what year was the most recent PBT/CTA conducted in?	(YEAR)

Prioritization Method:

- Step 1 -** Sum the “Performance Points” = (Points for Finished Water Turbidity 95th percentile) + (Points for Finished Water Turbidity maximum value > 1.0 NTU or > 0.5 NTU) + (Points for Settled Water Turbidity) + (Points for Raw/Settled/Finished Cause and Effect Relationship) = PERFORMANCE POINTS SUMMATION value
- Step 2 -** Sort the entire database by the PERFORMANCE POINTS SUMMATION values (**Column '1***) from highest to lowest value
- Step 3 -** Within each duplicate PERFORMANCE POINTS SUMMATION value, re-sort (from highest to lowest value) that duplicate portion of the database until differentiation is reached based on the following criteria order:
- (1) TOTAL POINTS SUMMATION value for the systems (**Column '2***)
 - (2) 95th-PERCENTILE finished water turbidity value (**Column '3***)
 - (3) 75th-PERCENTILE finished water turbidity value (**Column '4***)
 - (4) 50th-PERCENTILE finished water turbidity value (**Column '5***)