FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER Summary Page

PUBLIC WATER	0" - 01 0				PLANT NAM		' also Halls and MIT	_	
SYSTEM NAME:	City Of Corsicana			Los	OR NUMBER ertify that I am familiar with		Lake Halbert WT		that
					the best of my knowledge, t				
PWS ID No.:	1750002		Operator's Signature:	_					
Report for the Month of:	April 2014		Certificate No. & Grade:	. w	00012234, A		г	Date: M	lay 2, 2014
the month of.	April 2014			_	·			Jate	ay 2, 2017
			TREATMEN	T PLAN	T PERFORMANCE	<u>:</u>			
Total number of	of turbidity readings:		166	Number	of 4-hour periods whe	n plant	was off-line:		14
	dings above 0.10 NTU:		3		of 4-hour periods whe		was on-line		
	dings above 0.3 NTU:		0		dity data was not colle				0
	idings above 0.5 NTU: idings above 1.0 NTU:		<u>0</u>		of days when plant wa ridual filter turbidity da				0
	wable turbidity level:		0.3		of days with readings				0 (2)
	readings above this lim	nit.	0.0 % (1)		of days with readings				0 (3)
-			<u> </u>						
	atistical		bidity reading:	0.14			verage turbidity valu andard deviation:	e:	0.09 NTU 0.009 NTU
Sui	mmary	CFE 95 th perce	oidity reading: entile value:	0.10			andard deviation: E 95 th percentile:		0.009 NTU
N on of day	in a law of		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
,	ys with a low CT an 4.0 consecutive hou	ire.	0	-	log inactivation for Gi log inactivation for vir				NA NA
	ys with a low CT			•	of days when profiling		vae not collected:		30
	4.0 consecutive hours:	i	0 (4)		of days when CT data				0
Minimum disin	nfectant residual require	rod loaving the	<u> </u>	0.5	mg/L, measured as T	Cotal Ch	Moring		
	nrectant residual require ys with a low residual	ed leaving the p	piant:	0.5	mg/L, measureu as r	Otal Gii	liorine		
,	ys with a low residual ian 4.0 consecutive hou	urs:	0						
	s with a low residual			Number	of days when disinfec	tant res	sidual		
,	4.0 consecutive hours:		0 (5)		he plant was not prop				<u> </u>
	-								
			DIST	RIBUTIC	ON SYSTEM				
Minimum disinfe	ctant residual required	in distribution	system:	0.5	mg/L, measured as T	otal Ch	lorine		
	readings this month:		60 (at least 30 i		• .				
	tant residual value:		2.64	Percenta	ge of readings with a	low res	sidual this month:		0.0 % (6A)
	ngs with a low residual:		0						
Number of readin	ngs with no detectable	residual:	0	Percenta	ge of readings with a	low res	sidual last month:		0.0 % (6B)
			ADDITIONAL	REPORT	TS & WORKSHEET	ΓS			
The Page 1 Ad	dendum (Public Notice	s) is not requir	red because there were no	o treatmer	nt technique or monito	oring/re	eporting violations re	eported.	
Additional repo	ort(s) for individual filte	er monitoring r	equired:	NONE	Filter Profile	-	O Filter Assessme	ent	O CPE
•	ort(s) for individual filte	ū		NONE	O Filter Profile (9))	O Filter Assessme	ent (10)	O CPE (11)
No additiona	al IFE Reports are requi	ired this month	a.		•	•			,

SURFACE WATER MONTHLY OPERATING REPORT

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

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FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)

Turbidity Data Page

PUBLIC WATER				PLANT NAME	
SYSTEM NAME:	City Of Corsicana			OR NUMBER:	Lake Halbert WTP
PWS ID No.:	1750002			Connections:	10,868
Month:	April	Year:	2014	Population:	23,770
			•		

							PERFO	RMANO	CE DAT	A								
	Raw	Treated	RAW V	VATER			LED WAT											
	Water	Water	ANAL	YSES			(Option	nal Data)					F	INISHED	WATER (QUALITY		
	Pumpage	Pumpage					Basi	in No.					Turb	idity			Lowest	
Date	(MGD)	(MGD)	NTU	Alk.	1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6	Residual	Time=
1	2.400	2.363	37	108							0.10	0.10	0.09	0.08	0.08	0.09	3.4	
2	2.400	2.219	37	106							0.09	0.09	0.07	0.09	0.08	0.08	3.4	
3	1.720	1.491	38	107							0.08	0.08	0.08	0.10	0.11	0.10	3.4	
4	1.800	1.738	41	108							0.10	0.09	0.09	0.10	0.09	0.10	3.2	
5	1.700	1.688	39	107							0.09	0.09	0.09	0.08	0.08	0.08	3.8	
6	1.290	1.280	39	106							х	х	х	0.09	0.09	0.09	3.4	
7	1.250	1.172	41	107							х	х	0.09	0.08	0.08	0.08	3.4	
8	1.800	1.588	42	106							0.08	0.08	0.08	0.10	0.09	0.09	2.7	
9	1.800	1.740	36	106							0.14	0.12	0.10	0.10	0.10	0.09	3.4	
10	1.790	1.769	38	109							0.08	0.08	0.08	0.08	0.09	0.09	3.5	
11	2.290	2.208	41	108							0.10	0.08	0.08	0.08	0.09	0.09	3.6	
12	1.280	1.208	36	107							х	х	0.10	0.08	0.09	0.09	3.3	
13	1.700	1.649	36	107							0.08	0.08	0.08	0.09	0.09	0.08	3.1	
14	1.250	1.206	40	107							0.08	0.08	х	х	0.09	0.09	3.6	
15	1.710	1.671	38	107							0.09	0.08	0.08	0.08	0.07	0.08	3.6	
16	1.700	1.667	38	108							0.08	0.08	0.07	0.08	0.08	0.07	3.5	
17	2.790	2.513	38	110							0.08	0.10	0.09	0.08	0.08	0.08	3.5	
18	2.800	2.687	37	111							0.08	0.08	0.08	0.08	0.08	0.08	3.1	
19	1.780	1.643	35	110							0.08	0.07	0.08	0.07	х	х	3.7	
20	1.890	1.800	32	109							0.08	0.08	0.08	0.08	0.08	0.08	3.2	
21	1.840	1.567	31	110							0.07	0.08	0.08	0.08	0.10	0.09	3.4	
22	1.700	1.720	35	112							0.10	0.10	0.09	0.09	0.09	0.08	3.1	
23	1.980	1.898	38	111							0.08	0.09	0.08	0.08	0.08	0.08	3.3	
24	3.290	3.019	43	112							0.08	0.08	0.08	0.08	0.09	0.08	3.4	
25	2.250	2.170	39	113							0.08	0.08	0.08	0.08	0.08	0.08	3.6	
26	1.480	1.377	37	113							0.09	0.08	х	х	х	0.09	3.0	
27	1.800	1.777	32	111							0.09	0.09	0.09	0.09	0.09	0.09	3.5	
28	1.800	1.655	42	112							0.08	0.08	0.08	0.08	0.08	0.08	3.4	
29	1.850	1.719	45	112							0.09	0.09	0.08	0.08	0.08	0.08	3.6	
30	3.400	3.284	43	112							0.08	0.09	0.09	0.08	0.09	0.09	3.2	
31																		
Total	E0 E20	EE 106										ONLY	4b - UT					

 Total
 58.530
 55.486

 Avg
 1.951
 1.850

 Max
 3.400
 3.284

 Min
 1.250
 1.172

NOTE: ONLY use the "Time*" column to show the length of time that the disinfectant residual entering the distribution system fell below the acceptable level.

	Certificate No.			
SUBMITTED BY:	and Grade:	WO0012234, A	Date:	May 2, 2014

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)

Filter Data Page

PUBLIC WATER	PLANT NAME				
SYSTEM NAME: City Of Corsicana	OR NUMBER:	Lake Halbert WTP			
PWS ID No.: 1750002	Month:	April	Year:	2014	

								P	ERFO	RMANC	E DAT	·A								
								-		DUAL FIL										
	Filter	No. 1	Filter	No. 2	Filter	No. 3	Filter	No. 4	Filter	No. 5	Filter	No. 6	Filter	No. 7	Filter	No. 8	Filte	r No. 9	Filter	No. 10
Date	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs
1	0.12	0.12	0.10	0.10	0.08	0.08	0.07	0.07												
2	0.07	Х	0.07	х	0.09	0.09	0.06	х												
3	0.06	Х	0.11	0.11	0.08	0.08	0.05	0.05												
4	0.11	0.11	0.10	Х	0.08	Х	0.07	Х												
5	0.09	0.08	0.09	0.08	0.07	0.06	X 0.10	X												
7	0.08	0.08	0.08	0.08	0.06	0.06	0.10 x	0.10 x												
8	0.07	0.07	0.07	x	0.00	0.00	0.09	0.09												
9	0.10	х	х	x	0.08	х	0.08	х												
10	0.07	х	х	х	0.07	х	0.07	х												
11	0.06	Х	0.10	0.10	0.06	Х	0.07	Х												
12	0.05	0.05	0.09	0.09	0.05	0.05	0.06	0.06												
13	х	х	0.09	х	0.05	х	0.06	х												
14	0.09	0.09	0.08	0.08	х	х	0.06	0.06												
15	0.08	х	0.07	Х	х	Х	0.06	Х												
16	0.06	х	0.07	Х	х	х	0.06	х												
17	0.05	х	0.10	0.10	0.09	0.09	0.06	Х												
18	0.08	0.08	0.08	Х	0.07	Х	0.05	Х												
19	0.06	Х	0.06	Х	0.05	Х	0.08	0.08												
20	0.06	0.06	0.05	0.05	0.05	0.05	0.08	0.06												
21	0.10	0.10	0.06	Х	0.09	0.09	0.07	Х												
22	0.09	X	X	X	0.08	х	0.07	X												
23	0.06	0.09	0.10	0.10	0.06	x x	0.06	x x												
25	0.09	x	0.10	x	0.03	0.08	0.06	x												
26	0.06	0.06	0.06	0.06	0.07	0.07	0.10	0.10												
27	0.05	х	х	х	0.07	х	0.10	х												
28	0.09	0.09	0.06	0.06	0.06	0.06	0.08	Х												
29	0.09	х	0.10	0.10	0.05	х	0.07	х												
30	0.07	х	0.10	Х	0.10	0.10	0.07	Х												
31																				
											1	1	1	1	r No.				1	
SN	Numba				Criteria					1	2	3	4	5	6	7	8	9	10	Plant
101	Number						hrs this	month			0									
AC					ve 1.0 N					0	0	0	0							
Ş					ve 1.0 N					0	0	0	0							
LIAI							onths ag			0	0	0	0							
MP							in three n	nonths		0	0	0	0				0000			
S	Number of days with event(s) above 2.0 NTU this month Number of days with event(s) above 2.0 NTU last month																		0	
SUMMARY & COMPLIANCE ACTIO											1111		8881	9888				1811	0	
Ψ¥	Does the filter/plant have an approved Corrective Action Plan? Is the plant required to submit a Filter Profile Report?									N	N	N	N							N
SUN										N	N	N	N							
							Report?			N	N	N	N		1111				111	
	Is the p	ıant requ	ired to s	ubmit a F	Request f	or Comp	liance Cl	E?												N

	Certificate No.			
SUBMITTED BY:	and Grade:	WO0012234, A	Date:	May 2, 2014
•	_		_	

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)

Disinfection Data Page

PUBLIC WATER		PLANT NAME			
SYSTEM NAME:	City Of Corsicana	OR NUMBER:	Lake Halbert WTP		
PWS ID No.:	1750002	Month:	April	Year:	2014

			DISINFECTION	I PROCESS P	ARAMETERS				
	APPRO	VED CT STUDY P	ARAMETERS			PERFORMAN	CE STANDARDS		
				Log Inactivations					
Parameters	D1	D2	D3	D4	D5	Giardia lamblia Cysts	Viruses		
Flow Rate (MGD)	4.000	4.000		0.5	2.0				
T ₁₀ (minutes)	78.3	15.1		0.5	2.0				

		Р	ERFOR	MANC	E DA	ГА						F	ERFOR	RMANC	E DA	ГА			
	DISINFECTION PROCESS DATA C Flow Temp Giardia Virus Ina												DISINF	ECTION	PROC	ESS DATA			
		С	Flow	Temp		Giardia	Virus	Inact.				С	Flow	Temp		Giardia	Virus	Inact.	
Date	Disinfectant	(mg/L)	(MGD)	(°C)	рН	Log	Log	Ratio	Time=	Date	Disinfectant	(mg/L)	(MGD)	(°C)	рН	Log	Log	Ratio	Time=
	FCL D1					////					FCL D1						////		
	FCL D2	2.3	2.400	17.0	6.8						FCL D2	1.7	1.800	17.0	6.7	1111			
1	CLA D3	3.9	2.400	18.0	7.6	2.67*	69.87*	5.34		9	CLA D3	3.6	1.800	17.0	7.2	2.91*	68.91*	5.81	
	D4							(G)			D4							(G)	
	D5										D5								
	FCL D1										FCL D1								
	FCL D2	1.5	2.400	18.0	6.8	11/11					FCL D2	1.6	1.800	18.0	6.7				
2	CLA D3	3.5	2.400	19.0	7.5	2.05*	48.93*	4.09		10	CLA D3	3.5	1.800	18.0	7.3	2.96*	69.53*	5.92	
	D4							(G)			D4					1111		(G)	
	D5										D5								
	FCL D1								1110		FCL D1					1///			
	FCL D2	1.4	1.800	19.0	6.6	1111					FCL D2	1.4	3.300	18.0	6.7				
3	CLA D3	3.4	1.800	19.0	7.5	2.94*	65.24*	5.89		11	CLA D3	3.6	3.300	18.0	7.4	1.45*	33.22*	2.91	
	D4					1111		(G)			D4					11/18		(G)	
	D5										D5								
	FCL D1					1///					FCL D1					1///			
	FCL D2	1.3	1.800	20.0	6.7						FCL D2	1.1	1.800	19.0	6.7				
4	CLA D3	3.5	1.800	20.0	7.4	2.88*	64.98*	5.75		12	CLA D3	3.3	1.800	19.0	7.4	2.33*	51.34*	4.66	
	D4					1111		(G)			D4							(G)	
	D5										D5								
	FCL D1										FCL D1								
	FCL D2	1.5	1.800	19.0	6.8						FCL D2	1.3	1.700	19.0	6.8				
5	CLA D3	4.0	1.800	19.0	7.5	2.94*	69.95*	5.87		13	CLA D3	3.5	1.700	19.0	7.5	2.75*	64.19*	5.50	
	D4							(G)			D4							(G)	
	D5										D5					1111			
	FCL D1										FCL D1								
	FCL D2	1.1	2.800	18.0	6.7						FCL D2	1.7	1.700	19.0	6.8				
6	CLA D3	3.9	2.800	18.0	7.4	1.42*	30.84*	2.84		14	CLA D3	3.6	1.700	20.0	7.5	3.42*	83.85*	6.84	
	D4							(G)			D4							(G)	
	D5										D5					1111			1111
	FCL D1										FCL D1								
	FCL D2	1.2	1.800	18.0	6.7						FCL D2	1.7	1.700	19.0	6.7				
7	CLA D3	3.4	1.800	18.0	7.4	2.34*	52.23*	4.69		15	CLA D3	3.8	1.700	19.0	7.4	3.54*	83.84*	7.08	
	D4							(G)			D4							(G)	
	D5								1110		D5								111
	FCL D1										FCL D1								
	FCL D2	1.2	1.800	18.0	6.8					1	FCL D2	1.5	1.700	18.0	6.7	1111			1110
8	CLA D3	3.6	1.800	18.0	7.6	2.28*	52.26*	4.55		16	CLA D3	3.8	1.700	19.0	7.4	3.01*	69.11*	6.01	
	D4							(G)			D4							(G)	
	D5					1111	1111	1111	1111	1	D5					1111	1111		1111

D5 | D5 | NOTES: = UNLY use the "Time=" column to show the length of time that the total inactivation ratio was less than 1.00.

 SUBMITTED BY:
 Certificate No. and Grade:
 WO0012234, A
 Date:
 May 2, 2014

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^{*} Not representative of total log inactivation(s) and/or total inactivation ratio for all disinfection zones; Excluded from statistical summary calculations.

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES

PUBLIC	C WATER				OR (GROUND	WATER S				FLUENCE OF S age (cont.) PLANT NA		E WATER	(cont.)					
	M NAME:	City Of	Corsican	а							OR NUMB		Lake Hal	bert WT	Р				
PWS IE	No.:	175000	2								Month:		April				Year:	2014	
						[DISINFE	CTION	PROCE	ESS PA	RAMETERS	;							
				APPROV	/ED CT S	STUDY PA								PERF	ORMAN	CE STANI	DARDS		
							Disinfection									ctivations			
Paran	neters		D.	1		D2	D		D4		D5	Gi	ardia laml	olia Cyst		Clivations	Viru	ıs	
Flow	Rate (MGD)		4.00	00	4.	.000	4.0	00					0.5				2.0		
T ₁₀ (n	ninutes)		78.	.3	1	5.1	9.	0					0.5				2.0	'	
			PERFOR	OM A NIC	E DA	ТΛ		_					ERFOR	MANC	EDAT	ΓΛ	_		
						ESS DATA										SS DATA	Α		
		С	Flow	Temp		Giardia	Virus	Inact.				С	Flow	Temp		Giardia	Virus	Inact.	
Date	Disinfectant	(mg/L)	(MGD)	(°C)	рН	Log	Log	Ratio	Time=	Date	Disinfectant	(mg/L)	(MGD)	(°C)	рН	Log	Log	Ratio	Time=
	FCL D1					////					FCL D1					////		////	
4-	FCL D2	1.5	2.800	18.0	6.7						FCL D2	1.3	2.400	21.0	6.6				
17	CLA D3	3.5	2.800	18.0	7.5	1.81*	41.92*	3.62 (G)		25	CLA D3	3.7	2.400	21.0	7.4	2.40*	52.25*	4.80 (G)	
	D5										D5					////	////		
	FCL D1					////					FCL D1					////	////	1///	
	FCL D2	1.5	2.800	18.0	6.7						FCL D2	1.2	2.400	22.0	6.7				
18	CLA D3	3.7	2.800	18.0	7.3	1.81*	41.93*	3.63 (G)		26	CLA D3	3.0	2.400	22.0	3.0	2.16*	51.30*	4.32 (G)	
	D5							(6)			D5						$^{\prime\prime\prime\prime}$		
	FCL D1					////	////		///		FCL D1					////	////	1///	
	FCL D2	1.4	2.800	18.0	6.6						FCL D2	1.6	1.800	24.0	6.7				
19	CLA D3	3.8	2.800	18.0	7.3	1.78*	39.16*	3.56 (G)		27	CLA D3	3.7	1.800	24.0	7.6	4.50*	105.42*	9.00 (G)	
	D5										D5					////	HH		
	FCL D1										FCL D1								
20	FCL D2	1.3	2.100	19.0	6.7	0.001	54.00*	4.50		28	FCL D2	1.7	1.800	23.0	6.7	4.40*	404.47*	0.00	
20	CLA D3	3.2	2.100	19.0	7.3	2.29*	51.93*	4.58 (G)		20	CLA D3	3.7	1.800	23.0	7.7	4.40*	104.47*	8.80 (G)	
	D5										D5								
	FCL D1										FCL D1								
21	FCL D2 CLA D3	1.6 3.8	2.100 2.100	19.0 19.0	6.7 7.5	2.73*	63.90*	5.46		29	FCL D2 CLA D3	1.6 3.6	1.800	23.0	6.7 7.6	4.19*	98.34*	8.38	
21	D4	3.0	2.100	19.0	7.5	2.13	03.90	(G)		23	D4	3.0	1.000	23.0	7.0	4.13	90.54	(G)	
	D5										D5							////	
	FCL D1	4.5	4 700	40.0	0 -						FCL D1		0.400	00.0				////	
22	FCL D2 CLA D3	1.8 3.9	1.700 1.700	19.0	6.7 7.4	3.72*	88.79*	7.44		30	FCL D2 CLA D3	1.5 3.9	3.400	23.0	6.8 7.8	2.05*	48.85*	4.09	
	D4							(G)			D4							(G)	
	D5					////					D5						////	////	
	FCL D1	1.1	2.400	20.0	6.7						D1								
23	FCL D2 CLA D3	1.4 3.6	2.400 2.400	20.0	6.7 7.5	2.30*	52.49*	4.61		31	D2 D3							1111	111
	D4	2.3		3				(G)			D4								
	D5										D5					////		1///	
	FCL D2	4.5	2 200	20.0	6.0										Max	NA NA	NA NA	ĺ	
24	FCL D2 CLA D3	1.5 3.7	3.300 3.300	20.0	6.6 7.3	1.83*	40.87*	3.65							Min Avg	NA NA	NA NA	İ	
	D4							(G)							SD	NA	NA	ĺ	
	D5	the "Time	2=" COIIIP	n to su	W the r	MOLEN CO ST	ne insi in	e total in	activation.	ratio we	s less than 1.00	1						•	
NOTES	•					-					ection zones;		d from sta	atistical	summa	ary calcul	ations.		

Certificate No. SUBMITTED BY: and Grade: WO0012234, A Date: May 2, 2014

TCEQ - 0102C (06-01-09) PAGE 5 SWMOR

MONTHLY TOTAL ORGANIC CARBON REMOVAL REPORT (TOCMOR)

FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

Unconventional

explain:

Step 1

Removal

calculated from

Required

PLANT NAME

Step 1

Removal Ratio

calculated

Month:

Lake Halbert WTP

Step 2 Required

% Removal

Optional data

April

2014

COMPLIANCE

REMOVAL RATIO

Ratio

1.94

May 2, 2014

NA

Date:

31.0

WO0012234, A

Year:

Step 2 Removal

Ratio

calculated

PUBLIC WATER

SYSTEM NAME:

PWS ID No.:

Type of

treatment:

Test

Date

99

Operator's

Signature:

is true, complete, and accurate.

6.99

Test No.

City Of Corsicana

Conventional

Monthly TOC Sample Set

Raw

TOC

Enter the Sample Set results

Note: Systems are required to run one TOC Sample Set every month. Additional space is provided for those systems that do additional sampling

Treated

TOC

Actual % TOC

Removed

calculated

1750002

X

Raw

Alkalinity

1	4/1	99	6.99	4.82	31.0	35	0.89	16.0	1.9	1.94
2										
3										
4										
5										
6										
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27										
28										
29										
30										
31										
Avg		99.00	6.99	4.82	31.04		0.89		1.9	1.94
Max		99.00	6.99	4.82	31.04		0.89		1.9	1.94
Min		99.00	6.99	4.82	31.04		0.89		1.9	1.94
				TOTAL OR	GANIC CAR	BON (TOC) RI	EMOVAL SUMN	MARY		
		TOC Summ	ary: Don't for				worksheet with			Monthly
Ra	w Water Al			iter TOC		Water TOC		Removal	ACC # used	Compliance Ratio

Submit the report by the 10th of the month following the reporting period to: TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155) P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

and Grade:

Certificate

4.82

I certify that I am familiar with the information contained in this report and that, to the best of my knowledge, the information

TOC ALTERNATIVE COMPLIANCE CRITERIA REPORT

FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

	PUBLIC WATER SYSTEM NAME: City Of Corsicana							LANT NAME R NUMBER:	Lake Halbert WTP					
Ŭ	PWS ID No.:	1750002						O.	Month:	April	CIT WIT	Year:	2014	
		ve Compliance Criteria (A <u>n begin entering data</u> , you n		-			-		ria you are ap	plying for.)				
#1		#2	#3		#4		#5		#6		#7		#8	
	Source Water TO	C less than 2.0?												
	(either based on m	ost recent month's data OR ca	Iculated quarterly		nnual average)	ı			1			ı		
ACC	Current Month TOC	Month/Year	04/2013	Q1 05/2013	06/2013	07/2013	Q2 08/2013	09/2013	10/2013	Q3 11/2013	12/2013	01/2014	Q4 02/2014	03/2014
#1	6.99	Average Raw Water TOC												
		Quarterly Average RAA												
	Treated Water TO	C less than 2 0?												
	(either based on m	ost recent month's data OR cal	culated quarterly		nual average)							,		
ACC#	Current Month TOC	Month/Year	04/2013	Q1 05/2013	06/2013	07/2013	Q2 08/2013	09/2013	10/2013	Q3 11/2013	12/2013	01/2014	Q4 02/2014	03/2014
2	4.82	Average Treated Water TOC												
		Quarterly Average RAA												
	Source Water TO	C less than 4.0? (calculated qu	arterly as a runr	ning annual ave	erage)									
		ter alkalinity over 60 mg/L (alculated qua		ing annual av			T			1		
		Month/Year	04/2013	Q1 05/2013	06/2013	07/2013	Q2 08/2013	09/2013	10/2013	Q3 11/2013	12/2013	01/2014	Q4 02/2014	03/2014
		Average Raw Water TOC												
ACC#		Quarterly Average RAA			L									
3		Average Raw Water Alkalinity												
		Quarterly Average RAA												
	AND TTUM and	HAA5 no greater than 0.04	0 mg/L and 0 (120 mg/l rocs	nostivoly? (sale	ulated as a ru	nning annual	average of gua	rtorly avorage	nc)				
	AND I THIN and				nd March 2014:	ulateu as a ru	mg/L	average or qua			arter that end	March 2014:		mg/L
			oracion the 4 q	darters triat e	na maron 2014.				1170101170	t for the 4 qu	arter triat eria	I III 2014.		9
	TTHM and HAA	5 no greater than 0.040 mg/	L and 0.030 m	g/L, respective	ely? (calculated	l as a running	annual avera	ge of quarterly	averages)					
		TTHM R	AA for the 4 q	uarters that e	nd March 2014:		mg/L		HAA5 RAA f	or the 4 quar	ters that end	March 2014:		mg/L
ACC#			_						1	•				, -
4	AND only chlor	ne is used in the whole pla	nt and distribu	tion system.		Chlo	rine only?:							
		I certify that for the last 12 months, of		as used as a disinfe	ectant for primary dis	infection and for								
		maintenance of a residual in the dist	ribution system.				C	Certified Operators Si	ignature/ Certificat	e Number / Date				•
	Source water S	UVA less than or equal to 2	.0 L/ma-m?											
		UVA less than or equal to 2 ost recent month's data OR calc		as a running anno	ual average)									
ACC #	(either based on m (Source water SUVA		ulated quarterly a	y the ultraviolet ligh		nanometers in the		re any treatment of a	any kind. Measure			I		
ACC#	(either based on m	ost recent month's data OR calc	ulated quarterly a	-		nanometers in the	source water befo	re any treatment of a	any kind. Measure	monthly. Q3 11/2013	12/2013	01/2014	Q4 02/2014	03/2014
	(either based on m (Source water SUVA Current	ost recent month's data OR calc is the dissolved organic carbon con Month/Year Monthly Raw Water SUVA	ulated quarterly a centration divided b	y the ultraviolet ligh	ht absorption at 254		Q2			Q3	12/2013	01/2014		03/2014
	(either based on m (Source water SUVA Current	ost recent month's data OR calc is the dissolved organic carbon con Month/Year	ulated quarterly a centration divided b	y the ultraviolet ligh	ht absorption at 254		Q2			Q3	12/2013	01/2014		03/2014
	(either based on m (Source water SUVA Current Month SUVA	ost recent month's data OR calc is the dissolved organic carbon con Month/Year Monthly Raw Water SUVA Quarterly Average RAA	ulated quarterly a centration divided b 04/2013	y the ultraviolet ligh	ht absorption at 254		Q2			Q3	12/2013	01/2014		03/2014
	(either based on m (Source water SUVA Current Month SUVA	ost recent month's data OR calc is the dissolved organic carbon con- Month/Year Monthly Raw Water SUVA Quarterly Average	ulated quarterly a centration divided b 04/2013	y the ultraviolet ligh Q1 05/2013	06/2013		Q2			Q3	12/2013	01/2014		03/2014
	(either based on m (Source water SUVA Current Month SUVA Treated water S (either based on m (Treated water SUV/	ost recent month's data OR calc is the dissolved organic carbon con Month/Year Monthly Raw Water SUVA Quarterly Average RAA SUVA less than or equal to 2 iost recent month's data OR calc is the dissolved organic carbon con	ulated quarterly a centration divided b 04/2013 04/2013 2.0 L/mg-m? ulated quarterly a	y the ultraviolet light Q1 05/2013 05/2013 as a running annu	nt absorption at 254 in the absorption at 254	07/2013	Q2 08/2013	09/2013	10/2013	Q3 11/2013			02/2014	
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STEP 2 JAR TEST REPORT

FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

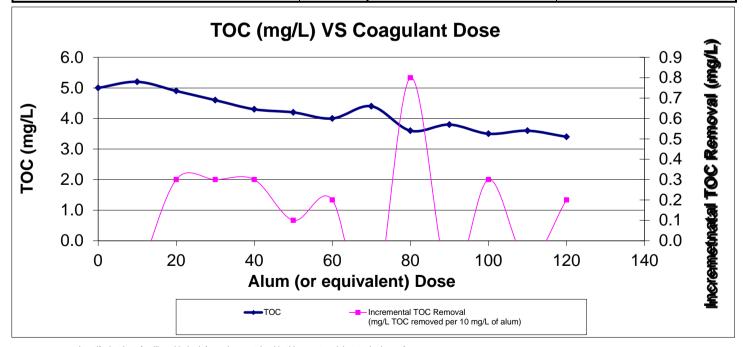
PUBLIC WATER
SYSTEM NAME: City Of Corsicana PLANT NAME
OR NUMBER: Lake Halbert WTP

PWS ID No.:	1750002	DATE OF JAR TEST:	February 10, 2014

				PLAN					
	RAW WATER SOURCE(s)	COAGULANT		COAGULANT AID		FLOC AID		pH ADJUSTMENT	
	RAW WATER SOURCE(S)	Туре	Dose (mg/L)	Type	Dose (mg/L)	Type	Dose (mg/L)	Туре	Dose (mg/L)
	Lake Halbert	Alum	126.00	N/A	0.00	N/A	0.00	Caustic	37.00

			STEP 2 JAR TEST PARAMETERS						
COAGULANT		BASE JAR SIZE		JAR TEST CONDITIONS					
	Stock Solution		Stock Solution Concentration		Rapid Mix		Flocculation		Settling
Туре	Concentration	Туре		Volume	Speed	Duration	Speed	Duration	Duration
	(g/L)		(g/L)	(liters)	(rpm)	(minutes)	(rpm)	(minutes)	(minutes)
Al2(s04)3-18h20	11	N/A	•	0.5	100.0	1.0	30.0	20.0	40.0

				JAR ⁻	TEST RESULTS	3			
	COAGUL	ANT	BASE		Alkalinity	pН	тос	Incremental TOC Removal	Cumulative TOC
Jar No.	Dose (Alum eq.)	Volume	Dose	Volume	(mg/L as CaCO₃)	as		(mg/L TOC removed per 10 mg/L of alum)	Kemovai
	(mg/L)	(mL)	(mg/L)	(mL)	٠,		(mg/L)		(%)
RAW					109	8.1	5.0		
1	10	0.50	1.00	0.50		7.9	5.2	-0.2	bad data point
2	20	1.00	2.00	1.00		8.0	4.9	0.3	2.0
3	30	1.50	3.00	1.50		7.9	4.6	0.3	8.0
4	40	2.00	4.00	2.00	Target pH	7.6	4.3	0.3	14.0
5	50	2.50	5.00	2.50	(based on	7.6	4.2	0.1	16.0
6	60	3.00	6.00	3.00	raw water	7.6	4.0	0.2	20.0
7	70	3.50	7.00	3.50	alkalinity)	7.7	4.4	-0.4	bad data point
8	80	4.00	8.00	4.00	6.3	7.6	3.6	0.8	28.0
9	90	4.50	9.00	4.50		7.6	3.8	-0.2	bad data point
10	100	5.00	10.00	5.00		7.5	3.5	0.3	30.0
11	110	5.50	11.00	5.50		7.5	3.6	-0.1	bad data point
12	120	6.00	12.00	6.00		7.5	3.4	0.2	32.0
	Q approved this sourc	able" to Treatment		TOC, % Remo	val at Apparen	t PODR:	More than 1 PODR		
	Target pH was not rear rovide the date of the TO	ail.		More than one PODR found; please enter correct PODR value:			16.0%		



I certify that I am familiar with the information contained in this report and that, to the best of my knowledge, the information is true, complete, and accurate.

 Operator's
 Certificate No.

 Signature:
 and Grade:
 W00012234, A