- duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.
- 5) The effluent samples shall not be dechlorinated after sample collection.

#### 3. Reporting

All reports, tables, plans, summaries, and related correspondence required in any Part of this Section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

- a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced above, or its most recent update, for every valid and invalid toxicity test initiated whether carried to completion or not.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.
  - 1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12 month period.
  - 2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6 month period.
  - Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th, for biomonitoring conducted during the previous calendar quarter.
  - 4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.
- c. Enter the following codes for the appropriate parameters for valid tests only:
  - 1) For the water flea, Parameter TLP3B, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."
  - 2) For the water flea, Parameter TOP3B, report the NOEC for survival.
  - 3) For the water flea, Parameter TXP3B, report the LOEC for survival.
  - 4) For the water flea, Parameter TWP3B, enter a "1" if the NOEC for reproduction is less than the critical dilution; otherwise, enter a "0."
  - 5) For the water flea, Parameter TPP3B, report the NOEC for reproduction.
  - 6) For the water flea, Parameter TYP3B, report the LOEC for reproduction.
  - 7) For the fathead minnow, Parameter TLP6C, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

- 8) For the fathead minnow, Parameter TOP6C, report the NOEC for survival.
- 9) For the fathead minnow, Parameter TXP6C, report the LOEC for survival.
- For the fathead minnow, Parameter TWP6C, enter a "1" if the NOEC for growth is less than the critical dilution; otherwise, enter a "0."
- 11) For the fathead minnow, Parameter TPP6C, report the NOEC for growth.
- 12) For the fathead minnow, Parameter TYP6C, report the LOEC for growth
- d. Enter the following codes for retests only:
  - 1) For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."
  - 2) For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

#### 4. Persistent Toxicity

The requirements of this Part apply only when a test demonstrates a significant effect at the critical dilution. A significant effect is defined as a statistically significant difference, at the 95% confidence level, between a specified endpoint (survival, growth, or reproduction) of the test organism in a specified effluent dilution when compared to the specified endpoint of the test organism in the control. Significant lethality is defined as a statistically significant difference in survival at the critical dilution when compared to the survival in the control. Significant sublethality is defined as a statistically significant difference in growth/reproduction at the critical dilution when compared to the growth/reproduction in the control.

- a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates a significant effect (lethal or sublethal) at the critical dilution. The two retests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test completion. Test completion is defined as the last day of the test.
- b. If the retests are performed due to a demonstration of significant lethality, and one or both of the two retests specified in item 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5. The provisions of item 4.a. are suspended upon completion of the two retests and submittal of the TRE Action Plan and Schedule defined in Part 5.

If neither test demonstrates significant lethality and the permittee is testing under the reduced testing frequency provision of Part 1.e., the permittee shall return to a quarterly testing frequency for that species.

c. If the two retests are performed due to a demonstration of significant sublethality, and one or both of the two retests specified in item 4.a.

- demonstrates significant lethality, the permittee shall again perform two retests as stipulated in item 4.a.
- d. If the two retests are performed due to a demonstration of significant sublethality, and neither test demonstrates significant lethality, the permittee shall continue testing at the quarterly frequency.
- e. Regardless of whether retesting for lethal or sublethal effects, or a combination of the two, no more than one retest per month is required for a species.

#### 5. Toxicity Reduction Evaluation

- a. Within 45 days of the retest that demonstrates significant lethality, or within 45 days of being so instructed due to multiple toxic events, the permittee shall submit a General Outline for initiating a Toxicity Reduction Evaluation (TRE). The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, or within 90 days of being so instructed due to multiple toxic events, the permittee shall submit a TRE Action Plan and Schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analysis to determine actions necessary to eliminate or reduce effluent toxicity to a level πot effecting significant lethality at the critical dilution. The TRE Action Plan shall lead to the successful elimination of significant lethality for both test species defined in item 1.b. As a minimum, the TRE Action Plan shall include the following:
  - 1) Specific Activities The TRE Action Plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled, "Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I" (EPA/600/6-91/005F), or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled, "Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;
  - 2) Sampling Plan The TRE Action Plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/ confirmation procedures, and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects specific pollutant(s) and source(s) of effluent

toxicity, the permittee shall conduct, concurrent with toxicity testing, chemicalspecific analyses for the identified and suspected pollutant(s) and source(s) of effluent toxicity;

- 3) Quality Assurance Plan The TRE Action Plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, as well as mechanisms to detect artifactual toxicity; and
- 4) Project Organization The TRE Action Plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.
- c. Within 30 days of submittal of the TRE Action Plan and Schedule, the permittee shall implement the TRE with due diligence.
- d. The permittee shall submit quarterly TRE Activities Reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:
  - results and interpretation of any chemical-specific analyses for the identified and suspected pollutant(s) performed during the quarter;
  - 2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;
  - any data and substantiating documentation which identifies the pollutant(s) and source(s) of effluent toxicity;
  - results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
  - 5) any data which identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and
  - any changes to the initial TRE Plan and Schedule that are believed necessary as a result of the TRE findings.

Copies of the TRE Activities Report shall also be submitted to the U.S. EPA Region 6 office.

- e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species; testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
- f. If the effluent ceases to effect significant lethality (herein as defined below) the permittee may end the TRE.-A "cessation of lethality" is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At

Page 42
Direct Testimony of Glen Williams

the end of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b. The permittee may only apply the "cessation of lethality" provision once.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. "Corrective actions" are herein defined as proactive efforts which eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

- g. The permittee shall complete the TRE and submit a Final Report on the TRE Activities no later than 28 months from the last test day of the retest that confirmed significant lethal effects at the critical dilution. The permittee may petition the Executive Director (in writing) for an extension of the 28-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in their pursuit of the TIE/TRE and must prove that circumstances beyond their control stalled the TIE/TRE. The report shall provide information pertaining to the specific control mechanism(s) selected that will, when implemented, result in reduction of effluent toxicity to no significant lethality at the critical dilution. The report will also provide a specific corrective action schedule for implementing the selected control mechanism(s). A copy of the TRE Final Report shall also be submitted to the U.S. EPA Region 6 office.
- h. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements, where necessary, to require a compliance schedule for implementation of corrective actions, to specify a WET limit, to specify a BMP, and to specify CS limits.

Dates and Times

Composites

Collected

#### TABLE 1 (SHEET 1 OF 4)

#### BIOMONITORING REPORTING

#### CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

Date Time

No. 1 FROM: \_\_\_\_\_\_ TO: \_\_\_\_\_

No. 2 FROM: \_\_\_\_\_\_ TO: \_\_\_\_

Test initia	No. 3	FROM:	a	TO: <u></u>	ν¹ ,	 date
					Synthetic D	
					AT END OF TE	
,	र सिए स्कृपिको	is in ordinal	Percen	effluent	And the second	· · · · · · · · · · · · · · · · · · ·
REP	o%	26%	35%	46%	62%	82%
Airle			,		_	
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		~ -				
Survival Mean			;.			
Total (				*		
Mean> CV%*;;;						-
			<u> </u>	<u></u>		
PMSD .						

Page 44
Direct Testimony of Glen Williams

surviving adults)

Ex. GAW-6

\*Coefficient of Variation = standard deviation x 100/mean (calculation based on young of the

Designate males (M), and dead females (D), along with number of nconates (x) released prior to-

death.

#### TABLE 1 (SHEET 2 OF 4)

#### CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION TEST

 Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

Is the mean number of young produced per adult significantly less than the number of young per adult in the control for the % effluent corresponding to significant nonlethal effects?

CRITICAL DILUTION (82%): \_\_\_\_\_\_YES \_\_\_\_\_NO

#### PERCENT SURVIVAL

		· · · · · · · · · · · · · · · · · · ·				
	gan and selection of the selection of th	The state of the s	Percent	effluent "	A. the Hatherman	***
Time of Reading	0%	26%	35%	46%	62%.	82%
24h	*-			4	^	
48h	1			-		-
End of Test					-	_

2. Fisher's Exact Test:

Is the mean survival at test end significantly less than the control survival for the % effluent corresponding to lethality?

CRITICAL DILUTION (82%): YES \_\_\_\_\_NO

- 3: Enter percent effluent corresponding to each NOEC\LOEC below:
  - a.) NOEC survival = \_\_\_\_\_\_% effluent
  - b.) LOEC survival = \_\_\_\_\_% effluent
  - c.) NOEC reproduction = \_\_\_\_% effluent
  - d.) LOEC reproduction = \_\_\_\_\_\_ % effluent

#### TABLĚ 1 (SHEET 3 OF 4)

#### BIOMONITORING REPORTING

#### FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

Dates and Times	Date Time No. 1 FROM:	Date TimeTO:
Composites · Collected	No. 2 FROM:	
	No. 3 FROM:	Ťo:
Test initiated:	am/pm	ıdate
Dilution water	r used: Receiving water	Synthetic dilution water
	FATHEAD MINNOW GRO	,
Effluent of	The second secon	chambers Mean CV%
0%		
26% 5-3		
46%		
62%		· · · · · · · · · · · · · · · · · · ·
82%		
PMSD	·	
	ion = standard deviation x 100/mean	•
	cedure or Steel's Many-One Rank Test justment) or t-test (with Bonferroni ac	
	ry weight (growth) at 7 days significan he % effluent corresponding to signific	
	CRITICAL DILUTION (82%):	YESNO

Page 46
Direct Testimony of Glén Williams

#### TABLE 1 (SHEET 4 OF 4)

#### BIOMONITORING REPORTING

#### FATHEAD MINNOW GROWTH AND SURVIVAL TEST.

#### FATHEAD MINNOW SURVIVAL DATA

Effluent.	Perce	nt Surviv	al in rep	icate ch	ambers	Mean	percent	survival	CV%* **
Concentration	mi Ā:: .	B	WC.	$D_{i,\nu}$	M.E.W	24h	48h	7 day	
10% Minusty	. فر	<b>.</b>			·		_		
26%		-				•	-	į	
35%						94-7			- va
%. 46% AVEK	F					s p			
62%	Į.		*		'	ď	1		
£ 182%	1		·				٠,		

<sup>\*</sup> Coefficient of Variation = standard deviation x 100/mean

	• • • •
2.	Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:
	Is the mean survival at 7 days significantly less than the control survival for the % effluent corresponding to lethality?
	CRITICAL DILUTION (82%):NO
3.	Enter percent effluent corresponding to each NOEC\LOEC below:
	a.) NOEC survival =% effluent

· d.) LOEC growth = \_\_\_\_\_% effluent

b.) LOEC survival = \_\_\_\_\_\_% effluent

c.) NOEC growth = \_\_\_\_\_% effluent

#### 24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

#### 1. Scope, Frequency and Methodology

- a. The permittee shall test the effluent for lethality in accordance with the provisions in this Section. Such testing will determine compliance with the Surface Water Quality Standard, 307.6(e)(2)(B), of greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.
- b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests utilizing the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition" (EPA-821-R-02-012), or its most recent update:
  - 1) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution.
  - Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution.

A valid test result must be submitted for each reporting period. The permittee must report, and then repeat, an invalid test during the same reporting period. The repeat test shall include the control and the 100% effluent dilution and use the appropriate number of organisms and replicates, as specified above. An invalid test is herein defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

- c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. The control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.
- d. This permit may be amended to require a WET limit, a Best Management Practice (BMP), Chemical-Specific (CS) limits, or other appropriate actions to address toxicity. The permittee may be required to conduct a Toxicity Reduction Evaluation after multiple toxic events.

#### 2. Required Toxicity Testing Conditions

- a. Test Acceptance The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.
- b. Dilution Water In accordance with item 1.c., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

Page 48
Direct Testimony of Glen Williams

#### c. Samples and Composites

- 1) The permittee shall collect one composite sample from Outfall 001.
- The permittee shall collect the composite samples such that the samples are representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance discharged on an intermittent basis.
- 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.
- 4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.
- 5) The effluent samples shall not be dechlorinated after sample collection.

#### 3. Reporting

All reports, tables, plans, summaries, and related correspondence required in any Part of this Section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

- a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced above, or its most recent update thereof, for every valid and invalid toxicity test initiated.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.
  - Semiannual biomonitoring test results are due on or before January 20th and July 20th for biomonitoring conducted during the previous 6 month period.
  - 2) Quarterly biomonitoring test results are due on or before January 20th, April 20th, July 20th, and October 20th, for biomonitoring conducted during the previous calendar quarter.
- c. Enter the following codes on for the appropriate parameters for valid tests only:
  - 1) For the water flea, Parameter TIE3D, enter a "0" if the mean survival at 24-hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."
  - 2) For the fathead minnow, Parameter TIE6C, enter a "o" if the mean survival at 24-hours is greater than 50% in the 100% effluent dilution; if

the mean survival is less than or equal to 50%, enter a "1."

- d. Enter the following codes for retests only:
  - 1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24-hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."
  - 2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24-hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

#### 4. Persistent Mortality

The requirements of this Part apply when a toxicity test demonstrates significant lethality, here defined as a mean mortality of 50% or greater to organisms exposed to the 100% effluent concentration after 24-hours.

- a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These additional effluent concentrations are 6%, 13%, 25%, 50% and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.
- b. If one or both of the two retests specified in item 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5 of this Section.

#### 5. Toxicity Reduction Evaluation

- a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a General Outline for initiating a Toxicity Reduction Evaluation (TRE). The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE Action Plan and Schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE: A TRE is a step-wise investigation combining toxicity testing with physical and chemical analysis to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE Action Plan shall lead to the successful elimination of significant lethality for both test species defined in item 1.b. As a minimum, the TRE Action Plan shall include the following:
  - 1) Specific Activities The TRE Action Plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity

Page 50
Direct Testimony of Glen Williams

characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled, "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003), or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled, "Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

- Sampling Plan The TRE Action Plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures, and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects specific pollutant(s) and source(s) of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant(s) and source(s) of effluent toxicity;
- Quality Assurance Plan The TRE Action Plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, as well as mechanisms to detect artifactual toxicity; and
- 4) Project Organization The TRE Action Plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.
- c. Within 30 days of submittal of the TRE Action Plan and Schedule, the permittee shall implement the TRE with due diligence.
- d. The permittee shall submit quarterly TRE Activities Reports concerning the progress of the TRE. The quarterly TRE Activities Reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:
  - 1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant(s) performed during the quarter;
  - 2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;
  - any data and substantiating documentation which identifies the

pollutant(s) and source(s) of effluent toxicity;

- results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
- any data which identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and
- any changes to the initial TRE Plan and Schedule that are believed necessary as a result of the TRE findings.

Copies of the TRE Activities Report shall also be submitted to the U.S. EPA Region 6 office.

- e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species; testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
- f. If the effluent ceases to effect significant lethality (herein as defined below) the permittee may end the TRE. A "cessation of lethality" is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b. The permittee may only apply the "cessation of lethality" provision once.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. "Corrective actions" are herein defined as proactive efforts which eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a Final Report on the TRE Activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in their pursuit of the TIE/TRE and must prove that circumstances beyond their control stalled the TIE/TRE. The report shall specify the control mechanism(s) that will, when implemented, reduce effluent toxicity as specified in item 5.g. The report will also

Page 52
Direct Testimony of Glen Williams

specify a corrective action schedule for implementing the selected control mechanism(s). A copy of the TRE Final Report shall also be submitted to the U.S. EPA Region 6 office.

h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 307.6.(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in their pursuit of the TIE/TRE and must prove that circumstances beyond their control stalled the TIE/TRE.

The requirement to comply with 307.6.(e)(2)(B) may be exempted upon proof that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g. metals) form a salt compound. Following the exemption, the permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.

i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, to require a compliance schedule for implementation of corrective actions, to specify a WET limit, to specify a BMP, and to specify a CS limit.

### TABLE 2 (SHEET 1 OF 2) WATER FLEA SURVIVAL

#### GENERAL INFORMATION

	Time Water	Date Date
Composite Sample Collected		
Test Initiated		,

#### PERCENT SURVIVAL

1		Ling Land	White it	Percent	effluent a	th latest	
1 ime	As Kep	紀,0%	6%] <sub>6</sub> 7.	37,13% E	25%	50%	100%
1. C. 1.	A AND	s. t.		建學時			•
	B.A.			ないなる			
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24 hour LC50 = \_\_\_\_% effluent

## TABLE 2 (SHEET 2 OF 2) FATHEAD MINNOW SURVIVAL

#### GENERAL INFORMATION

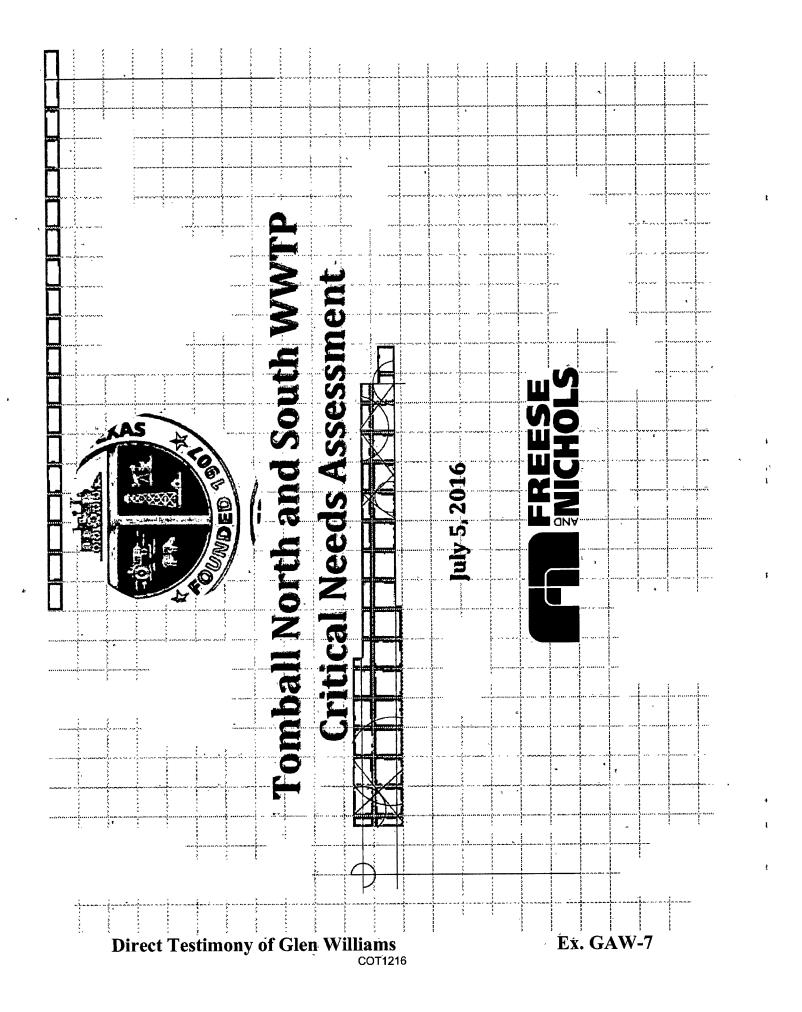
	Time	Date
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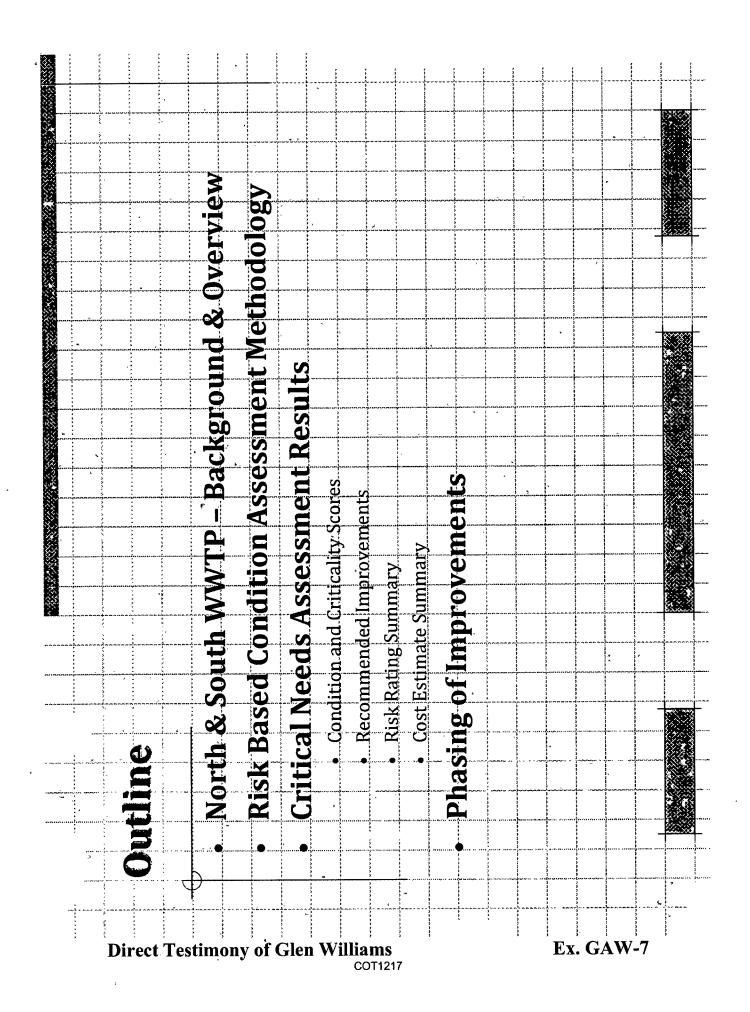
#### PERCENT SURVIVAL

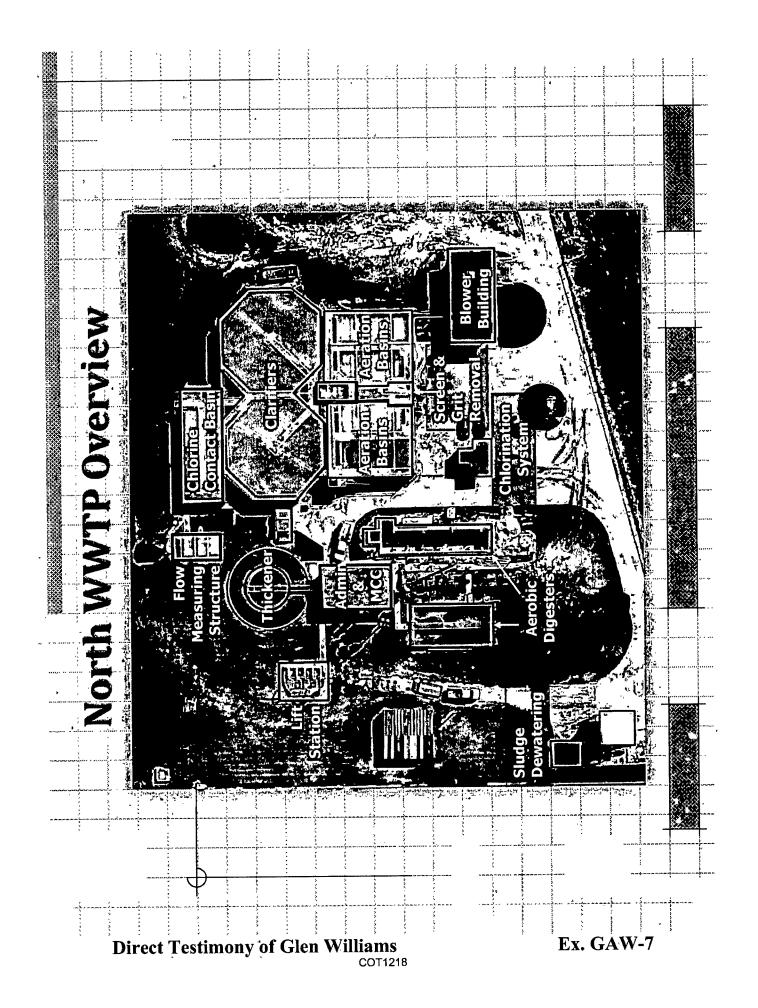
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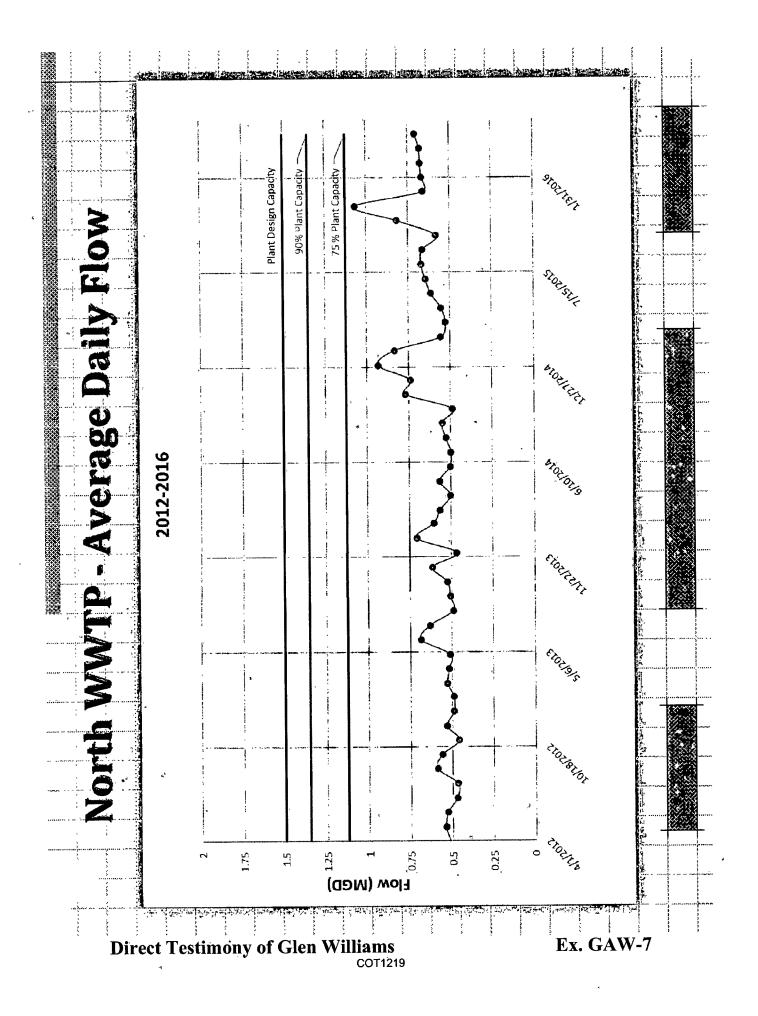
Enter percent effluent corresponding to the LC50 below:

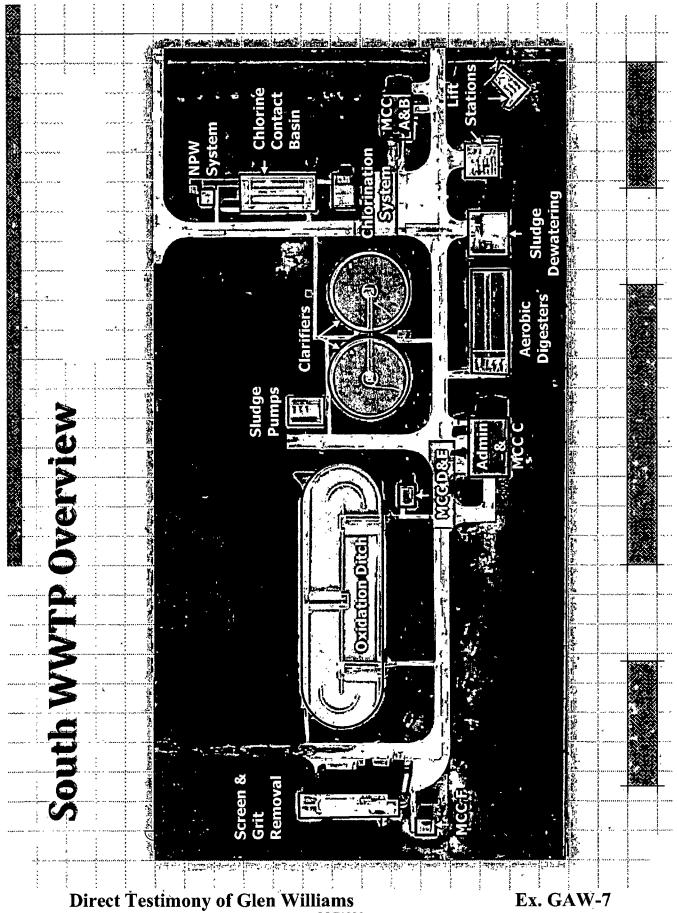
24 hour LC50 = \_\_\_\_\_% effluent



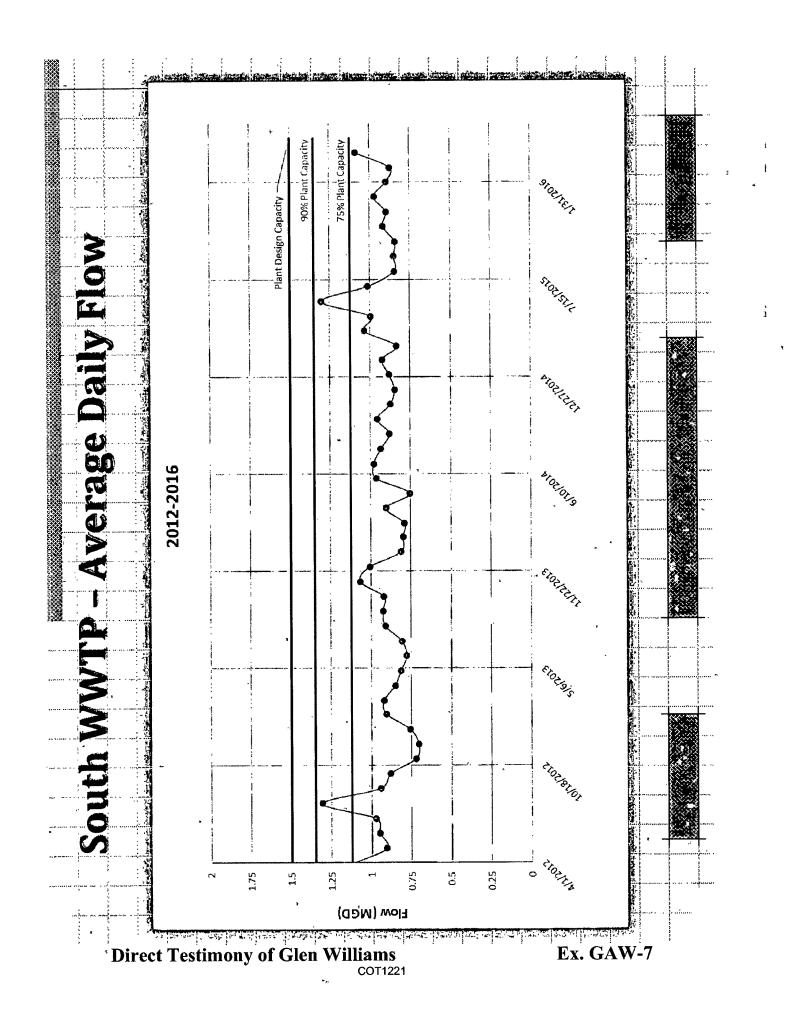








Direct Testimony of Glen Williams
COT1220



Direct Testimony of Glen Williams COT1222  Ex. GAW	Sk Base  Ethodol  Conditio  Rating  2 Georgia  4 Peorgia  5 Veorgia  1 Peorgia  1 Peorgia  1 Peorgia  1 Peorgia  2 Peorgia  1 Peorgia  2 Peorgia  3 Peorgia  4 Peorgia  5 Peorgia  6 Peorgia  7 Peorgia  6 Peorgia  7 Peorgia  8 Peorgia  9 Peorgi	bloey Overview  ion Rating  Scoring (child line)  Scoring (child l	
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Friticality Scoring  Example Criticality Rating Com Weightings  Guttelfty Rating Component Guttelfty Ratected Process & Regulatory Impact Safety Outage Duration Outage Duration  Overall Criticality Rating  *Weight factors are consistent for all units.	Component Parameters &	ant Weight Weighted by Rector <sup>©</sup> Component el)	30%	40%	15%	15%	100%		
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	Risk	Rating C	8.83	8.50	7.95	7.73 (新	7.48	7.55	7.45	6.53 N	5.95 N	5.65 N	5.65 N	5.53 N	5.42 N	5.25 N	5.05 N	5.02 N	4.70 N	2.95			
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eeds A.	Sessment Sun Criticality	Score	4.93	,4.00	3.55	3.95	3.85	3.85	3.95	3.05	2.88	2.75	2.70	2.25	2.73	2.55	1.95	2.30	2.70	1.75			
2 3 5	Risk Based Condition	Rating	Poor	Very Poor	Very Poor	Poor	Poor	Poor	Poor	Fair	Fair	Fair	Fair	Fair	Fair	Fair	Fair	Fair	Good	Very Good		, , , , , , , , , , , , , , , , , , , ,	
5	Condition	Score	3.90	4.50	4.40	3.78	3.63	3.70	3.50	3.48	3.08	2.90	2.95	3.28	2.70	2.70	3.10	2.72	2.00	1.20			
		Facility -	Centrifuge	Electrical Manholes	Grit Removal	Clarifiers	Screens	Admin/Lab Bldg	Aeration Basins	Raw Sewage Lift Station	RAS Pumps	NPW System	Dechlorination System	Aerobic Digester	Blowers	Chlorination System	Flow Measuring Str	Sludge Thickener	Chlorine Contact Basins	Generator		_	

Direct Testimony of Glen Williams
COT1226

Replace all air lift pumps - \$170,000 .  Inspect and rehab hydro tank \$25,000 - Sluice gates Replace electrical enclosures \$60,000 - Replace electrical enclosures \$60,000 - Replace electrical enclosures \$60,000 - Replace electrical enclosures \$44,000 - Replace electrical enclosures \$44,000 - Replace electrical enclosures \$450,000 - Replace electrical enclosures \$17,000 - Replace electrical enclosures \$1
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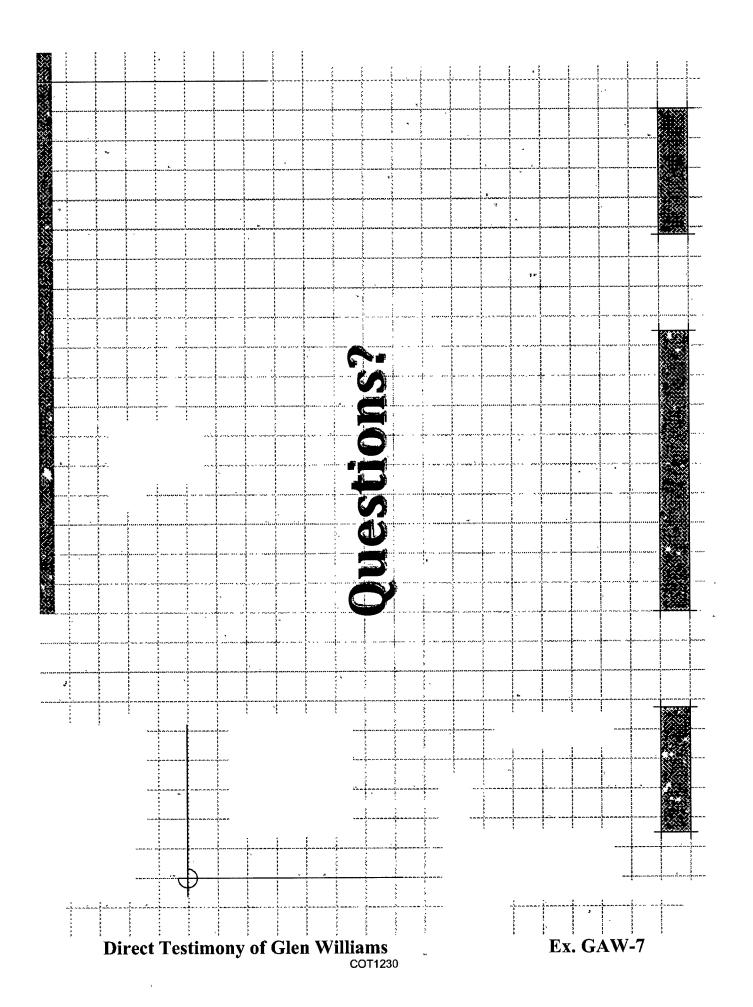
Direct Testimony of Glen Williams
COT1227

Condition Condition C Score Rating 3.88 Poor 2.60 Fair	Risk Based Assessment Summary		
88	Criticality Cr Score E	Criticality Rating	Risk Risk Rating Category
09	3.20 Mode	Moderate Impact	7.08 🗱 High
3		High Impact	
2.68 Fair 7.73 Fair	3.40 Mode 3.05 Mode	Moderate Impact Moderate Impact	6.08 Moderate 5.78 Moderate
		Moderate Impact	
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.15 Good	3.25 Mode	Moderate Impact	5.40 Moderate
.66, Good	3.55 Hi	High Impact	5.21
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30		Moderate Impact	
4	-	Moderate Impact	
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		Moderate Impact	
.97 Good	2.75 Mode	Moderate Impact	4.72 Moderate
	2.65 Mod	Moderate Impact	4.70 Moderate
.63 Good	1.30 Very	Very Low Impact	2.93

Direct Testimony of Glen Williams

<b>)</b>							
acers. or	Facility	Risk	Critic	ements	Timeline	line	*
<del>.</del>	NPW System	A Company of the Comp	Replace skid with new	sdund A	\$162,000	216	
	Influent Lift Station	tion Moderate	Replace two (2) pumps; te Control improvements	nps; nts	\$158,000		
	Centrifuge	Moderate	te New building with belt press	elt press	•	\$1,418,000	
	MCC D&E Bldg.	g Moderate	te Seal leaks in building	, 8	(To be done in- house)		
	Oxidation Ditch	ch Moderate	Actuator on effluent weir gate; VFDs on rotors	weir	\$215,000		
	Grit Removal	l Moderate			•	\$170,000	
-	RAS Pumps	Moderate	Extend WAS pipe; Relocate flow meters	elocate	\$4,000		
	Chlorination System	stem Moderate		exhaust	\$16,000	ı	
	MCC F Bldg.	Moderate	ite Seal leaks in the building	Jding	(To be done in- house)	ı,	
	Clarifiers	Moderate	Install scum beach spray	spray	(To be done in- house)	•	
J	Administration/Lab Bldg.	ab Bldg.	Renovate building to include breakroom and MCC work	o include C work	\$120,000	•	
			Total Construction Cost:	action Cost:	\$675,000	\$1,588,000	
	•	Engineering Se	Engineering Services for Design of Improvements:	rovements:	\$101,250	\$238,200	
			1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	TOTAL	\$776,250	\$1,826,200	
						-	

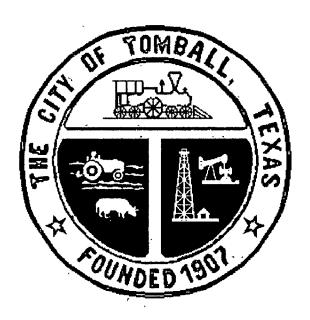
\* COT1229



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1	, Full Name,	LAST 4	w	EXPIRES	LICENSE #	WG	EXPIRES	LICENSE #	CDL	EXP
2	UPDATED 4/20/17	,								
3			-	,	· -			* * 7 ÷		
4	Danny Hitchcock	1211	В	01/26/18	WW0036832	В	12/28/18	WG0011995		
5	John Escamilla	1958	. В	01/26/18	WW0036826	В	7/28/18	WG0011999		
6	Randy Warren	7209	В	01/26/19	WW0040428	В	7/28/18	WG0011998		
7	Dewayne Osgood	5275	В	09/29/18	WW0038642	B"	5/21/18	WG0011765		
8	William Goff	0023	В	10/05/18	-WW0039435	В	8/15/17	WG0011524		
9	Carl Singleton	5240	В	09/29/18	WW0040055	ပ	3/17/18	WG0010018		
10	Timothy Negrete	5949	С	05/09/20	WW0035872	Ċ	12/7/19	-WG0011092	YES	
11	Justin Pruitt	2565	Ç	05/12/18	WW0039103	С	12/17/17	WG0011527.	YES	1/7/2019
12	Tracy Walton	9384	В	09/29/18	WW0038644	В	12/28/18	WG0012363		
13	Robert Sindlinger	1843	В.	<u>.</u> 01/26/18	WW0038643	В	5/20/18.	WG0011997		
14	Bradley Janisch .	3572	В	09/30/19	WW0042975	В	9/17/19	WG0013015	YES	10/6/2017
15	Cody Palmer	3409	C,	10/06/18-	WW0040503	C.	8/6/18	WG0012075		
16	Tom Borcky-Noblet	0829	C	10/05/18	WW0040486	С	8/21/18	WG0012174	,	
17	Alan Martin	8653	C.	05/25/19	WW0041940	С	9/17/19	WG0013016		
18	Glen Williams	6850	Α	02/23/20	WW0017401	В	11/13/17	WG0008337		
19	Justin Stancil	9107	O	10/05/18	WW0050217	Ç	9/10/17 ,	WO0034199		
.20	Wesley Patten	4211	ú	10/05/18	WW0051593	O	2/18/18	WG0015266		-
21	James Linney	6096	В	12/15/17	WW0045632	U	3/8/19	WG0000708		
22	Jake Colburn	7916	С	08/04/19	WW0052836	C	6/24/18	WO0036105		
23	Justin Parker	8384	С	11/18/18	WW0054584	O	5/12/19	WG0015994		
24	Jacob Carbo	3321	С	08/03/19	WW0052835	D	1/13/18	WO0036030		e t
25	Jeremy Dueitt	0390	D	09/06/19	WW0056362	D	04/26/19	WG00038565		
26	Danny Lowers		D	08/04/19	WW0055439	D	4/27/19	WG0039026		
27	Mike Worsham		С	102/02/19	WW0054644	С	4/3/20	WG0016223		
28										
29										
30	Wayne Smith								YES	1/31/2017
31	Gary Robeck								YES	7/27/2016
32	Kevin Rucker								YES	7/20/2019
33	Mike Lewis								YES	8/4/2015
34	Vicente Cazares								BUS	7/13/2018
35	Tom Mills								YES	8/19/2016
36	Gary Lane								BUS	3/11/2019
37	Richard Adzgery							u-		
38	Marion Baranosky		,							
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## City of Tomball



# HUMAN RESOURCES HANDBOOK

# City of Tomball Human Resources Handbook Table of Contents

	Intro	duction <sup>*</sup>
		Purpose of the Handbook
		Use of the Handbook
		Amendments
Section 1	Unla	wful Harassment and Discriminatory Practices
	1.01	Equal Employment Opportunity
		Disabilities
	1.03	Unlawful Harassment
	1.04	Reporting and Investigating Discrimination or Harassment
	1.05	Retaliation
Section 2	-	oyment
	2.01	•
	2.02	<b>.</b>
		Nepotism
	2.04	Re-employment
		Employment and Elected Offices
	2.06	Orientation
Section 3	Stan	dards of Conduct
Section 5		
Į,	3.01	·
	3.02	
		Meal and Break Periods
		Emergency Conditions
		Appropriate Appearance
	3.06	Use of City Property
		Information Technology System Use
		Media Contacts
	3.09	•
		Political Activity
		Outside Employment
	3.12	
	3.13	<del></del>
	3.14	· · · · · · · · · · · · · · · · · · ·
	3.15	Acceptance of Gifts .
	3.16	Substantial Interest in Business Entity

3.17 Drug and Alcohol-Free Workplace

Section 4	Salary	y Administration
	4.01	• ·
	4.02	Work Schedules
	4.03	Pay Procedures
	4.04	Overtime Procedures
	4.05	Time and Pay for On-Call, Callback and Call-Out Situations
	4.06	Step-Up Pay, Certification and License Pay
	4.07	Travel Time
	4.08	Light Duty Assignment
	4.09	Probationary Period
	4.10	Employee Performance and Development System
	4.11	Pay Plan and Compensation Guidelines, and Job Descriptions
	4.12	Maintenance of Classification and Pay Plans
	4.13	Promotions
		Lateral Transfers
		Demotions
	4.16	Reorganizations
	4.17	_
Section 5	Empl	oyee Benefits and Services
	5.01	Enrollment and Plan Year
	5.02	Group Health Plans
	5.03	Life Insurance and ADD
	5.04	Long Term Disability
	5.05	Flexible Spending Account
	5.06	Employee Assistance Program
	5.07	Texas Municipal Retirement System
	5.08	Retirement and Benefits
	5.09	Social Security and Medicare
	5.10	Workers Compensation
	5.11	Optional 457 Plans
	5.12	COBRA
	5.13	Tuition Reimbursément Program
	5.14	Training Schools
	5.15	Longevity Pay
		,
Section 6	Disci	pline/Grievances/Appeals
	6.01	Discipline
	6.02	Grievance
	6.03	Aggrieved Employees
	6.04	Duties of Supervisor
	6.05	Appeal by Employee
	6.06	What is Not Discipline
	6.07	Applicability

#### Section 7 Accruals and Leave 7.01 Vacation 7.02 Sick Leave 7.03 Sick Leave Incentive Program 7.04 Sick Leave Donations Personal Leave 7.05 7.06 Holiday Leave 7.07 **Funeral Leave** 7.08 **Emergency Leave** 7.09 Citizenship Leave 7.10 Family and Medical Leave Act 7.11 Leave of Absence 7.12 Military Leave 7.13 Administrative Leave Inclement Weather 7.14 Separation from Employment Section 8 8.01 Resignations 8.02 Retirements 8.03 Reductions-In-Force (Lay-offs) **Absence Without Leave** 8.04 8.05 **Terminations** 8.06 Incapacity 8.07 Death 8.08 **Exit Interviews** Return of City Property/Equipment 8.09 8.10 Separation Pay Section 9 **Privacy and Records Management** 9.01 **Employee Privacy Privacy Policy and Procedures** 9.02 9.03 **Protection of Confidentiality** Responsibilities Under the Texas Public Information Act 9.04 9.05 **Personnel Files Employee Access to Personnel Records** 9.06 9.07 City Officials' Access to Employee Records Disclosure of Employee Information 9.08 9.09 Tape Recording 9.10 Current Address and Information

9.11

Searches

## 3.17 DRUG-FREE AND ALCOHOL-FREE WORKPLACE

The presence or use of illegal drugs or alcohol on the job is prohibited. It is the policy of the City of Tomball to:

- Maintain a safe, drug-free and alcohol-free work environment for its employees, conducive to
  effective city government operations, and to make a good faith effort to comply with the Federal
  Drug-Free Workplace Act of 1988, as amended.
- Prohibit the manufacture, distribution, dispensation, possession, sale or use of controlled substance drugs, intoxicants by employees at any time on-or off duty.
- Ensure that while on duty for or acting on behalf of the City, while wearing a City uniform and/or in
  a City vehicle, while on City premises, that employees will not be impaired by alcohol, intoxicants, or
  have controlled substances present in their systems not prescribed by a licensed physician.
- Require employees taking prescription medications that would impair their ability to operate vehicles, machinery, or equipment in a safe manner, to inform their supervisor of the potential danger.
- Subject employees to drug and alcohol testing when a supervisor has reasonable suspicion of drug
  or alcohol use; after certain accidents; when returning to duty as a result of self-referral; as followup after a determination that an employee was in need of assistance in resolving drug or alcohol
  problems; when promoted to a safety sensitive position; and for random testing if the employee is
  in a safety-sensitive position.

For further information, please refer to the City of Tomball's Substance Abuse and Alcohol Misuse Prevention Policy.

SECTION 3

PAGE 20 OF 20

REVISEO MAY 2017

**Direct Testimony of Glen Williams** 

Ex. GAW-9



# City of Tomball

## **Human Resources Department - JOB DESCRIPTION**

JOB TITLE: WASTEWATER TREATMENT

**PLANT SUPERVISOR** 

JOB NUMBER: 440.

**DEPARTMENT:** UTILITIES – SEWER

**UNIT: MID-MANAGEMENT -SUPERVISORY** 

FUND/ACCOUNT: 600-614-6003

**SUPERVISOR: UTILITIES SUPERINTENDENT** 

☐ EXEMPT ☑ NON-EXEMPT

FULL TIME | PART TIME | TEMP

**DOT CLASSIFICATION: RSPA** 

**COMPENSATION TYPE: HOURLY** 

**PAY GRADE**:

60

PAY RANGE: \$48,855 - \$66,098

<u>JOB DEFINITION</u>: To plan, coordinate, supervise, direct, and review the activities involved in the operation and maintenance of biosolids recovery facilities and reuse or disposal of residuals generated by the City Wastewater Treatment Plant. Provides professional and technical assistance in adherence to local, state and federal requirements for processing, transporting, marketing, and disposing of these products.

<u>DISTINGUISHING CHARACTERISTICS</u>: This single position, class is a full, first-line supervisory management classification in the Wastewater Utilities Department. Under general direction, oversees the operation and maintenance of biosolids facilities and the disposal of products from all wastewater treatment facilities.

<u>SUPERVISION RECEIVED AND EXERCISED</u>: General supervision is provided by the Utilities Superintendent. Technical and functional supervision may be provided by Public Works Director. Supervises Wastewater Treatment Plant Senior Operator and Wastewater Treatment Plant Operator.

**ESSENTIAL FUNCTIONS:** Essential functions, as defined under the Americans with Disabilities Act, may include the following tasks, knowledge, skills and other characteristics. This list of tasks is illustrative only, and is not a comprehensive listing of all functions and tasks performed by positions in this class. Incumbents in this class may not be required to perform all duties listed and may be required to perform additional, position-specific duties.

- Supervise operations and maintenance of two (2) 1.5 MGD wastewater treatment plants.
- Supervise two (2) employees.
- Maintain operating logs, records and reports as required by permit regulations.
- Interpret; analyze and monitor data on a daily basis to ensure that plants are in compliance with TECQ permit.
- Monitor and regulate chemical usage to assure cost effective utilization and compliance with regulatory rules and regulations and make any chemical adjustments needed.
- Perform routine and preventive maintenance on two (2) 1.5 mgd wastewater treatment plants.
- Clean plant components daily to maintain an environmentally safe and clean area.
- Evaluate the performance of equipment within the plants and perform necessary preventative and routine maintenance, for example, pump motor repair.
- Maintenance and operations of 11 offsite lift stations and 3 on-site lift stations.

- Perform electrical maintenance work and tracking of electrical problems related to plant operations.
- Perform weekend plant checks.
- Advise call duty employees.
- Evaluate and interpret laboratory data to ensure unit process operations are within prescribed parameters.
- Communicate with vendors and contractors regarding repair quotes and other services needed.

### **KNOWLEDGE AND SKILLS:**

- Knowledge of principles and practices of employee supervision, training and performance management.
- Principles and practices used in operation and maintenance of biosolids facility. Local, state and federal regulations related to biosolids processing and disposal.
- Tools, materials, equipment and methods used in plant facilities maintenance work.
- Maintenance and repair of mechanical equipment, engines, motors, pumps, valves and of test instruments.
- Occupational hazards and appropriate safety precautions.
- Knowledge of basic arithmetic, including addition, subtraction, multiplication and division including the ability to do all treatment calculations including retention times and dosing.
- Knowledge of existing City ordinances, laws, and regulations governing utilities.

## **PREFERRED EDUCATION, EXPERIENCE AND CERTIFICATIONS:**

- High school diploma or equivalent.
- Five or more years in wastewater collection and/or treatment plant operations. Two of those at a supervisory level.
- Valid Class C Texas motor vehicle operator's license required and maintained throughout employment.
- Must be "B" or better certified in Wastewater competency

**EXTENT OF PUBLIC CONTACT**: Internal – Department personnel and other City employees. External – Incidental public contact.

Position is considered "Essential Personnel" and is required to respond to natural and man-made disasters unless released by Department Head.

EMPLOYEE/APPLICANT SIGNATURE:	DATE:
DEPARTMENT HEAD APPROVE:	DATE:
CITY MANAGER APPROVE:	
HUMAN RESOURCES VERIFICATION: ESTABLISHED DATE: / / ; Budget Year: - REVISED: 03/17/2009, 02/2010, 06/2010, 01/2014	DATE:



# City of Tomball

## **Human Resources Department - JOB DESCRIPTION**

JOB TITLE: WASTEWATER TREATMENT JOB NUMBER: 445

SENIOR PLANT OPERATOR

**DEPARTMENT:** UTILITIES – SEWER **UNIT:** MAINTENANCE UNIT - TECHNICAL

FUND/ACCOUNT: 600-614-6003 SUPERVISOR: WASTEWATER TREATMENT

PLANT SUPERVISOR

**DOT CLASSIFICATION:** RSPA **COMPENSATION TYPE:** HOURLY

PAY GRADE: 54 PAY RANGE: \$42,127 - \$56,996

<u>JOB DEFINITION</u>: Perform a variety of skilled and manual tasks in the installation, testing, calibration, fabrication, repair, and maintenance of highly complex wastewater system and subsystems used in the Wastewater Treatment Plant and Lift Stations.

<u>DISTINGUISHING CHARACTERISTICS</u>: This is an advanced journey-level in the Wastewater Maintenance Technical worker series. Positions assigned to this class are assigned significant responsibilities above journey-level and require possession of specialized skills, experience and expertise in the completion of tasks. Incumbents are assigned the more complex work requiring significant independent judgement and the exercise of initiative.

<u>SUPERVISION RECEIVED AND EXERCISED</u>: General supervision is provided by the Wastewater Treatment Plant Supervisor. Indirectly supervises the Wastewater Treatment Plant Operator. Technical and functional supervision may be provided by Utilities Superintendent or Public Works Director.

**ESSENTIAL FUNCTIONS:** Essential functions, as defined under the Americans with Disabilities Act, may include the following tasks, knowledge, skills and other characteristics. This list of tasks is illustrative only, and is not a comprehensive listing of all functions and tasks performed by positions in this class. Incumbents in this class may not be required to perform all duties listed and may be required to perform additional, position-specific duties.

- Operations of two (2) 1.5 MGD wastewater plants.
  - Recording daily flows, Cl2 & SO2 weights, calculate chemical feed rates, cl2, manganese and effluent residuals, do readings, cleaning clarifiers, swapping basins, running centrifuge, thickener, setting up samplers, settable solids test.
  - Paperwork lab results twice weekly, monthly DMR'S, quarterly bio-monitoring reports, yearly sludge reports, special samples, Input all information into computer, fax & mail reports to appropriate agencies, file all paperwork in various locations.
  - Maintenance changing oil in various gear boxes, generators, Replace belts on various motors, greasing various equipment, replacing chains, replacing various bearings on equipment.
  - Pump & motor repairs- rebuilding pumps, impellors, bearings, seals, Wear rings, mechanical seals,

- packing seals, checking pump Productions, pulling pumps and motors.
- Electrical- trouble shoot electrical problems as related to plant operations, terminate wire Connections
  to various motors, installing new electrical wires, Conduit, equipment, relays, verbatiums, looking at
  electrical Plans, checking amps on various equipment, replace various bad Relays, power supplies,
  phase monitors, verbatiums, stators, and Motor coils.
- Maintenance & repair water wells repair various motors, pumps, Bearings, seals, packing, greasing
  equipment, various electrical Problems, installing new check valves, pumps, valves, motors.
- Lift stations operations & maintenance, record hour readings Daily, pull pumps, install new equipment (check valves, pumps, guide Rails, piping)
- Call Duty Perform weekend plant checks. Per state permit, must be available by telephone or pager seven days per week.
- Regulate and control chemicals used in specified wastewater treatment requirements to assure cost effective utilization and compliance with permitted parameters.
- Perform standardized quality control tests and oversee adjustment of chemical feeders and other plant equipment according to results.
- Make meter and chart readings, regularly assess water flow, turbidity, pressure, chemical use, residuals, temperatures and other pertinent data.
- Collect samples and perform field chemical analysis to assure compliance with regulatory rules and regulations.
- Observe pumping equipment.
- Clean plant components daily to reduce order and maintain an environmentally safe and clean area.
- Maintain accurate records, logs, records and reports on work performed, materials used, and associated costs, as required by permit regulations.
- Design and fabricate replacement parts and equipment.
- Participate in Storm Water Pollution Prevention Program (SWPP), which involves collecting, analyzing and documenting storm water samples for submittal to City's Environmental Engineer and TCEQ.
- Complete Industrial SWPP training and certification process.

#### **KNOWLEDGE AND SKILLS:**

- Knowledge of tools, materials, equipment and methods used in installing control devices and equipment.
- Maintenance and repair of mechanical equipment, gas and diesel engines, electric motors, pumps, and valves.
- Safety practices, methods and tasks and materials used in the mechanical trades.
- Theory and practice of the principles of electronics, computer systems, pneumatics, hydraulics, and radio.
- Occupational hazards and appropriate safety precautions.
- Knowledge of existing City ordinances, laws, and regulations governing utilities.

## PREFERRED EDUCATION, EXPERIENCE AND CERTIFICATIONS:

- High school diploma or equivalent.
- Five years in wastewater collection and/or treatment plant operations.
- Valid Class C Texas motor vehicle operator's license required and maintained throughout employment.
- Must be "B" or better certified in Wastewater competency.

**EXTENT OF PUBLIC CONTACT:** Internal – Department personnel and other City employees. External – Incidental public contact.

unless released by Department Head.  EMPLOYEE/APPLICANT SIGNATURE:	DATE:	<del></del>
DEPARTMENT HEAD APPROVE:  CITY MANAGER APPROVE:	DATE:	
HUMAN RESOURCES VERIFICATION: ESTABLISHED DATE: / / `Budget Year: - REVISED: 05/22/2001, 03/2009, 02/2010, 06/2010, 01/2014	DATE:	_

Position is considered "Essential Personnel" and is required to respond to natural and man-made disasters



## City of Tomball

## **Human Resources Department - JOB DESCRIPTION**

**JOB TITLE:** WASTEWATER TREATMENT

**PLANT OPERATOR** 

JOB NUMBER: 518

**DEPARTMENT:** UTILITIES – SEWER

**UNIT: MAINTENANCE UNIT** 

FUND/ACCOUNT: 600-614-6003

**SUPERVISOR: WWTP SUPERVISOR** 

☐ EXEMPT Ñ NON-EXEMPT

**I** FULL TIME □ PART TIME □ TEMP

**DOT CLASSIFICATION: RSPA** 

**COMPENSATION TYPE: HOURLY** 

PAY GRADE: ,50

**PAY RANGE:** \$38,166 - \$51,635

<u>JOB DEFINITION</u>: Perform a variety of basic technical and manual duties in the maintenance and repair work on City Wastewater Treatment Plants and Lift Stations.

<u>DISTINGUISHING CHARACTERISTICS</u>: This is an entry and first working level in the Wastewater Maintenance Technical worker series. Positions assigned to this class perform basic plant maintenance and facility maintenance work, while learning the more advanced plant operation assignments and skills.

<u>SUPERVISION RECEIVED AND EXERCISED</u>: General supervision is provided by the Wastewater Treatment Plant Supervisor. Technical and functional supervision may be provided by Utilities Superintendent. No supervisory responsibilities.

**ESSENTIAL FUNCTIONS:** Essential functions, as defined under the Americans with Disabilities Act, may include the following tasks, knowledge, skills and other characteristics. This list of tasks is illustrative only, and is not a comprehensive listing of all functions and tasks performed by positions in this class. Incumbents in this class may not be required to perform all duties listed and may be required to perform additional, position-specific duties.

- Perform a variety of basic maintenance assignments at City wastewater treatment plant.
- Learn to operate automatic and manually controlled equipment, motors, and pumps used in wastewater treatment.
- Learn to regulate and control the amount of chemicals used to maintain specified wastewater treatment requirements.
- Learn to take samples at established times, perform standardized quality control tests, and adjust chemical feeders and other plant equipment according to results.
- Learn to make meter and chart readings, interpreting information to determine the proper operation of treatment equipment and influent and effluent conditions.
- Learn to make regular assessments of water flow, turbidity, pressure, chemical use, residuals, temperatures, and other pertinent data to maintain proper plant operating conditions.
- Observe pumping equipment to identify possible problems and operating difficulties.
- Change chlorine cylinders, using proper safety conditions.
- Backwash filters, change recording charts as needed.

**Direct Testimony of Glen Williams** 

**Ex. GAW-12** 

- May operate a vehicle to travel for inspection and maintenance work.
- Receive delivered materials, recording shipments and storing items.
- Maintain logs, records, and data systems for required plant reports.
- Collect samples and perform field chemical analysis to assure compliance with regulatory rules
- Clean plant components daily to reduce order and maintain an environmentally safe and clean area.
- Maintain accurate records, logs, records and reports on work performed, materials used, as required by permit regulations.
- Inspect and test components installed by contractors.
- Operate lathe, drill press, electric welder, hydraulic press, micrometer, milling machine, pipe threader, and various hand tools.
- Troubleshoot and operate emergency pumps and generators.
- Design and fabricate replacement parts and equipment.
- Maintain recording devices.
- May order necessary parts to maintain equipment or construct replacement parts.
- Perform weekend plant checks.
- Complete Industrial SWPP training and certification process..

#### **KNOWLEDGE AND SKILLS:**

- Knowledge of tools, materials, equipment and methods used in basic plant facilities maintenance work.
- Maintenance and repair of mechanical equipment, engines, motors, pumps, valves and of test instruments.
- Occupational hazards and appropriate safety precautions
- Knowledge of existing City ordinances, laws, and regulations governing utilities.

## **PREFERRED EDUCATION, EXPERIENCE AND CERTIFICATIONS:**

- High school diploma or equivalent.
- Two year in wastewater collection and/or treatment plant operations.
- Valid Class C Texa's motor vehicle operator's license.
- Must be "C" certified or better in wastewater competency.
- Must obtain and maintain a "B" certification in Wastewater within one year.

**EXTENT OF PUBLIC CONTACT:** Internal – Department personnel and other City employees. External – Incidental public contact.

Position is considered "Essential Personnel" and is required to respond to natural and man-made disasters unless released by Department Head.

EMPLOYEE/APPLICANT SIGNATURE:	DATE:	
DEPARTMENT HEAD APPROVE:	DATE:	
CITY MANAGER APPROVE:	DATE:	
HUMAN RESOURCES VERIFICATION:  ESTABLISHED DATE: / ; Budget Year: -  REVISED:: 02/26/2002, 03/2009, 02/2010, 06/2010, 01/2014	DATE:	

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## What's a "site"?

Compliance History Report

A "site" (sometimes called a "regulated entity") is any person or thing that is of environmental interest to the TCEQ. At a "site", one or more regulatory activities of interest to us occur or have occurred in the past. Some examples of sites are:

- · Industrial plants, such as the Exxon Baytown Facility
- Small businesses, such as Texaco Gas Station #200 or Elroy's Dry Cleaning & Laundry
- Public facilities, such as the City of Austin's Hornsby Bend Wastewater Treatment Plant

## What's a "customer"?

A "customer" owns, operates, is responsible for, or is affiliated with a regulated entity. Examples include:

- . Major industrial corporations, such as Exxon USA, Exxon Inc, or Texaco Inc
- Small businesses, such as Karl Redmond dba Karl's Kleaners, which owns several dry-cleaner locations
- Governmental bodies, such as the City of Austin, the United States Air Force, or a municipal utility district
- Individuals, such as Karl A. Redmond, owner of Karl Redmond dba Karl's Kleaners

Return to top
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Learn more about compliance histories
Questions? E-mail comphist@tceq.texas.gov

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Page 2 of 3

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Compliance History Report 5/3/17, 8:58 AM



	Site Associated with This Customer						Compliance History for Customer at this Site (If no Site appears in thesame row, this is the Customer's overall compliance history.)			
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- Small businesses, such as Texaco Gas Station #200 or Elroy's Dry Cleaning & Laundry
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Page 1 of 2

Bryan W. Shaw, Ph.D., Chairman
Buddy Garcia, Commissioner
Carlos Rubinstein, Commissioner
Mark R. Vickery, P.G., Executive Director



D/C First to J.E. DISK 12/1/12

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 3, 2012

The Honorable Gretchen Fagan Mayor of Tomball, 501 James Street Tomball, Texas 77375

Re: Compliance Evaluation Investigation at:

City of Tomball North Wastewater Treatment Plant, 615 East Huffsmith, Harris County,

Texas

TCEQ ID No.: WQ0010616001, EPA ID No.: TX0022381

Dear Mayor Fagan:

On September 20, 2012, Thomas Barnett of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced facility to evaluate compliance with applicable requirements for wastewater treatment. No violations are being alleged as a result of the investigation; however, two Areas of Concern were noted.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact Mr. Barnett in the Houston Region Office at 713-767-3769.

Sincerely,

Barbara Sullivan Team Leader

Water Quality Management Houston Region Office

BSS/TOB/cs

Enclosure: Summary of Investigation Findings

(Rev 6/15/05)

TCEQ Region 12 • 5425 Polk St., Ste. H • Houston, Texas 77023-1452 • 713-767-3500 • Fax 713-767-3520

Austin Headquarters: 512-239-1000 • www.tceq.texas.gov • How is our customer service? www.tceq.texas gov/goto/customersurvey

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## Summary of investigation Findings

CITY OF TOMBALL NORTH WASTEWATER TREATMENT PLANT

Investigation #

615 E HUFSMITH RD

Investigation Date: 09/20/2012

**TOMBALL, HARRIS COUNTY, TX 77375** 

Additional ID(s): TX0022381

WQ0010616001

## AREA OF CONCERN

Track No: 481634

30 TAC Chapter 317.3(e)(5)

#### Alleged Violation:

Investigation: 1034469

Comment Date: 11/05/2012

Failed to provide the required alarm system. Specifically, the Hunterwood lift station did not have a red flashing light. An audio-visual alarm system (red flashing light and hom) shall be provided for all lift stations. The alarm system shall be activated in case of power outage, pump failure, or a specified high water level.

Recommended Corrective Action: Submit documentation indicating that an alarm system at the lift station has been installed:

Resolution: Documentation was submitted on October 1, 2012 indicating that the violation has been resolved.

Track No: 481692

30 TAC Chapter 319.7(a) 30 TAC Chapter 319.7(c)

#### Alleged Violation:

Investigation: 1034469

Comment Date: 11/06/2012

Failed to document proper preservation of effluent samples. Specifically, a temperature log for the auto sampler was not being maintained. As a result, proper preservation of the effluent samples could not be verified. All records and information resulting from the required monitoring activities shall be retained for a minimum of three years.

Recommended Corrective Action: Submit a copy of a temperature log for the auto sampler that indicates that the requirements are being met.

Resolution: Documentation was submitted on October 1, 2012 indicating that the violation has been resolved.

Summary of Investigation Findings

Page 1 of 1

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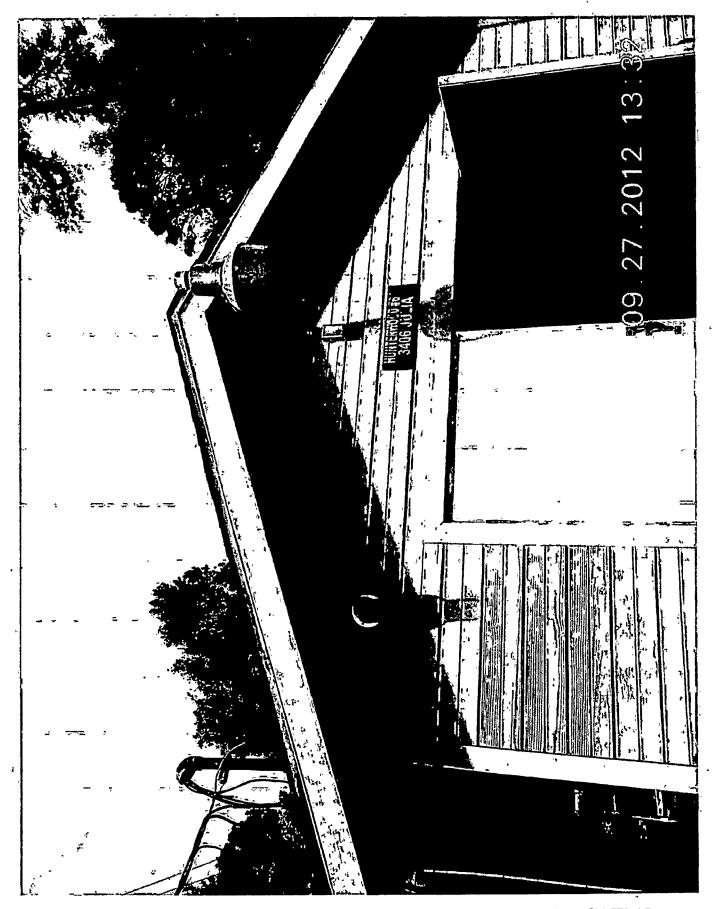
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Document Acknowledgment. Signature on this document establishes only that the regulated entity (company) representative received a copy of this document and associated 30-A Date continuation pages on the date noted. If contact was made by telephone, document will be faxed to regulated entity; therefore, signature not required.

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If you have questions about any information on this form, please contact your local TCEQ Regional Office.
Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, call 512-239-3282

(Note: Use additional pages as necessary) Page



**Direct Testimony of Glen Williams** 

Ex. GAW-15

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# CITY OF TOMBALL Department of Public Works

# BACKFLOW PREVENTION ASSEMBLY TEST AND MAINTENANCE

	TEST AND MAINTENANCE							
<u> </u>	ILLEGIBLE	OR INCOMPLETE	est reportș wili	, NOT BE ACCEPTED				
NAME OF P	rőpěrty: N	neth was	ke Water	treatment				
PROPERTY	ADDRESS:	1016 E. H	effection					
-		ATE: TI ZI	P: <u>^^37</u> KKY1		18: 911-910-140			
,MAILING A	DORESS: 501	Jour 1-1	CONTACT	BRINISS:CA	MH-3			
Send This Or	iginal Report to: Tombal		ment, 501 James Street,	Tomball, TX 77375				
THE BACKFLOW	V PREVENTION ASSEMBLY I FOR PUBLIC WATER SYSTEM	DETAILED HEREUN HAS E	BEEN TESTED AND MAINTAI LYLUMBING CODE, AND IS C	NED AS REQUIRED BY TO	Q-Chapter 290, RULES AND HERBOUREMENTS			
,		TYP	OF ASSEMBLY		•			
* REDUCED !	RESSURE PRINCIPLE (RP)	*	RINCIPLE DETECTOR (RPD)	e Preseure Vaccum B	REAKER (PVB)			
	TiveTie	DOUBLE CHECK VALV		11	SSURE VACCÚM BREAKER (SVB)			
MANUFACTUR		DECE CENTER	AL Woordy	SERIAL NUMBER DÄTE INSTALLED	111000			
	ly installed in accordance	e with manufacturer re	commendations and/or C	ity's International Plumb	nine Coden			
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	REDUCED F	PRESSURE PRINCIPLE	ASSEMBLY	PRESSURE VACCUM	Breaker & SVB			
	DOUBLE CHECK V	ALVE ASSEMILY	RELIEVE VALVE	AIR INLET	CHECK VALVE			
	CHECK VALVE#I	CHECK VALVE #2	سند با					
INITIAL	D.C. COSED TOUT	cataspen mentir	OPERSED AT	OPENED AT	HELD AT			
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REPAIRS** AND MATERIAL USED		•	,					
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The state of the s								
TEST GUAGE USED: MODELMAKO! [ADVID] (Tosted monarily) REMARKS: NHD TOLLY 10 (S1)								
THE ABOVE TEST IS SEPTIFIED TO BE TRUE AT THE TIME OF TESTING								
Backflow Test Status & Paes   Fell								
CONTRACTOR'S FIRM NAME CERTIFIED TESTER NAME MULLISTATION								
FIRM ADDRESS:	-		CERTIFIED		2016.6082			
FIRM PHONES:		elian a a is	TEST DATE		BADGE#:			
TESTING IS RE	MUST BE KEPT FOR THRE QUIRED UPON INSTALLAT Y MANUFACTURERS' REP	ION, REPAIR, OR RELOC	ATION AND ANNUALLY T	HERAFTER	The second secon			

Ex. GAW-15

FINTERVIEW FORM: Potential Violations and or Records Requested	W) 00/06/6002		Telephone No. FT III 83. 34-807 IDate Contracted 9/12/1	Date Faxed
nd/or Records I	TCEO Add. ID No.	Compliano	<b>化图-恢-农</b> 多	
ofential Violations a	1	Purpose of Investigation	Telephone No. F	Parino dirigital de
EQ EXIT INTERVIEW FORM: P	Toutell South Plant	CCL Contact Made in House (VIN)	Glan Williams	LIKATP Suprivise
The second second	Regulated Entity/Site Name	Investigation Type:	Regulated Entity Contact	

NOTICE: The information provided in this form is intended to provide can't to issues that have a rise until the investigation process between the TCEQ and the regulated entity named above and does not represent final TCEQ individual or alleged violations discovered after the date on this form will be communicated by telephone to the regulated entity representative prior to the issuance of a notice of violation or enforcement. Conclusions drawn from this investigation, including additional violations discovered (if any) during the course of this investigation, will be documented in a final investigation report.

[監修]된   된

'Issue Type Can Be One or More of: AV (Alleged Violation), PV (Potential Violation), O (Other), or RR (Records Request)

DAY No	9*1	
□ Yes	SaY □	
Did the TCEO document the regulated entity named above operating without proper authorization?	Did the investigator advise the regulated entity representative that continued operation is not authorized?	

Document Acknowledgment. Signature on this document establishes only that the regulated entity (company) representative received a copy of this document and associated continuation pages on the date noted. If contact was made by telephone, document will be faxed to regulated entity; therefore, signature not required.

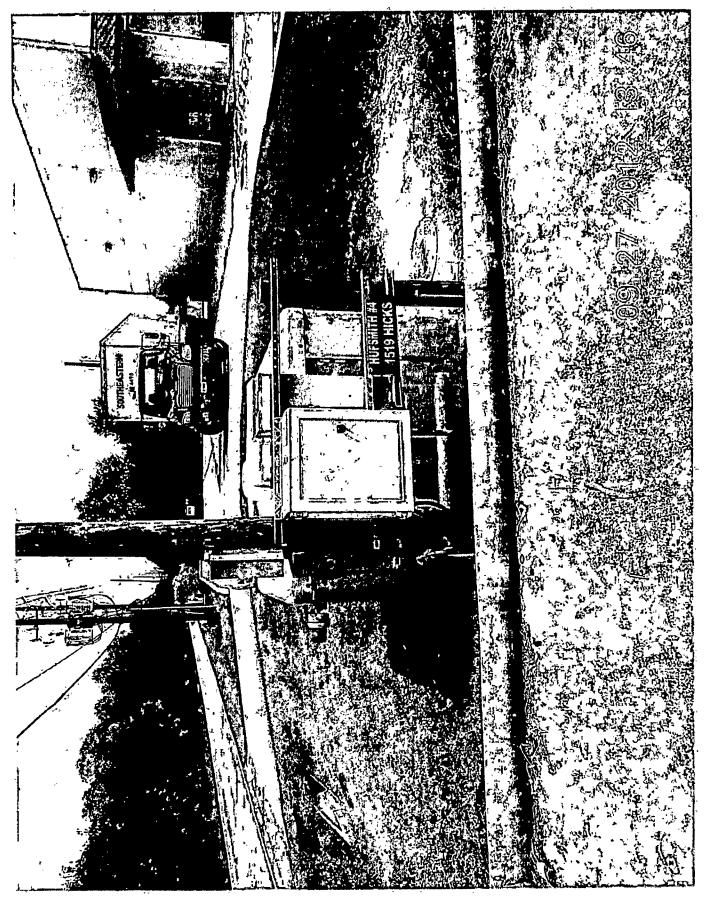
If you have questions about any information on this form, please contact your local TCEQ Regional Office.
Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, call \$12-239-5282. Regulated Entity Representative Name (Signed & Printed) でいる。 Investigator Name (Signed & Printed)

White Copy: Regulated Entity Representative Yellow Copy: TCEO. TCEO.2008 (Rev. 507)

Date

KISE.

Lines Obant



Direct Testimony of Glen Williams
COT1262

**Ex. GAW-16** 

CITY OF TOMB	AIJ	DAILY PROCESS REPORT

Date:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
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Duily Process Report

Page 1

4	
CITY OF TOMBALL.	- DAIT V PROCESS DEPORT

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Comments:					,		

Daily Process Report Permit Number Page



# CITY OF TOMBALL Department of Public Works

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CITY:	lomball st	ATE: ZI	p: <u>77375</u> key	MAP: PHO	ME 200-1	101
AJILING A	DDRESS: O	sames 31		ROSINESS:	DAMA>	<del>-</del>
nd This Or	iginal Report to: Tomba	Il Public Works Depart	17375 tiient, 501 James Street	, Tomball, TX 77375	•	
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Direct Testimony of Glen Williams

Bryan W. Shaw, Ph.D., P.F., Chairman Toby Buker, Commissioner Zak Covar, Commissioner Richard A. Hyde, P.É., Executive Director



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventily Pollution

April 17, 2015

The Honorable Gretchen Fagan Mayor of Tomball 501 James Street Tomball, Texas 77375

Re: Compliance Evaluation Investigation at:

City of Tomball North Wastewater Treatment Plant

615 East Huffsmith, Harris County, Texas

TCEQ ID No.: WQ0010616001, EPA ID No.: TX0022381

### Dear Mayor Fagan:

On February 17, 2015, Ms. Christi Torres of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced facility to evaluate compliance with applicable requirements for water quality. No violations are being alleged as a result of the investigation; however, please see the enclosed Area of Concern and Additional Issues.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure . protection of the State's environment. If you or members of your staff have any questions' regarding these matters, please feel free to contact Ms. Christi Torres in the Houston Region Office at phone number 713-767-3774.

Sincerely,

Barbara Sullivan Team Leader

Water Quality Management

Region 12 Houston

BSS/CHT/ci

Enclosure: Summary of Investigation Findings

Bypass for City of Tomball North Wastewater Treatment Plant

TCEQ Region 12 • 5425 Polk St., Ste H • Houston, Texas 77023-1452 • 713-767-3500 • Fax 713-767-3520

the linth adquarters; 512-259-1000 - teogramages - Hours durantomer croice; teograms in confinencially

## Summary of Investigation Findings

CITY OF TOMBALL NORTH WASTEWATER TREATMENT PLANT

Investigation #

615 E HUFSMITH RD

1227718 Investigation Date: 02/17/2015

**TOMBALL, HARRIS COUNTY, TX 77375** 

Additional ID(s): TX0022381

WQ0010616001

Track No: 566461

30 TAC Chapter 305.125(5)

Alleged Violation:

Investigation: 1227718

Comment Date: 04/07/2015

Failed to test the reduced-pressure principal backflow prevention assembly (RPBA) annually.

Specifically, it was determined the RPBA had not been tested in the past year.

Recommended Corrective Action: Each RPBA must be tested annually, Submit a passing

test certificate for the RPBA.

Resolution: On February 25, 2015, documentation was submitted indicating the alleged

violation has been resolved.

## EN ADDITIONALISSUES AND

#### Description

Have unauthorized discharges occurred at last CCI?

Is the regulated entity compliant with the self-monitored effluent limitations?

#### **Additional Comments**

There has been one unauthorized discharge the plant or in the collection system since the reported in the past 18 months which was due to a grease blockage. See attached bypass report.

> One effluent violation was reported in the past 12 months which was an exceedance of the daily average and daily max of total copper in December 2014. See attached ISIS data.

Summary of Investigation Findings -

Page 1 of 1

Bryan W. Shaw, Ph.D., P.E., Chairman Toby Baker, Commissioner Zak Covar, Commissioner - Richard A. Hyde, P.E., Executive Director



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 17, 2015

The Honorable Gretchen Fagain Mayor of Tomball 501 James Street Tomball, Texas 77375

Re: Compliance Evaluation Investigation at:

City of Tomball South Wastewater Treatment Plant

12411 Holderrieth, Harris County, Texas

TCEQ ID No.: WQ0010616002, EPA ID No.: TX0117595

Dear Mayor Fagan:

On February 17, 2015, Ms. Christi Torres of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced facility to evaluate compliance with applicable requirements for water quality. No violations are being alleged as a result of the investigation; however, please see the enclosed Areas of Concern and Additional Issue.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact Ms. Christi Torres in the Houston Region Office at phone number 713-767-3774.

Sincerely,

Barbara Sullivan Team Leader

Water Quality Management

Region 12 Houston

BSS/CHT/ci

Enclosure: Summary of Investigation Findings

TCEQ Region 12 • 5425 Polk St., Ste. H • Houston, Texas 77023-1452 • 713-767-3500 • Fax 713-767-3520

Auslin Headquarters: 512-239-1000 • teeq.texas.gov • How is our customer service? teeq.texas.gov/customers urvey

TIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)	 DISCHARGE MONITORING REPORT (DRD)

•			NATIONAL POLL	JTANT DISCHA	NATIONAL POLLUTANT DISCHARGE ELIMINATION STOTEM (NPDES) DISCHARGE MONITORBIG REPORT (2012)	STRIEM (NPOES)				CM. 2040-0004	<b>40-0004</b>
PERNITTE NAME/ADDRESS Provide Fronty Amostocatos If Differency	edity Nime Locatos FC	(Amana)	Ľ					DARR HAMING ZIP COOE;	Ü	77.875	n
NAME: CITY OF TOMBALL				TXD117585		001.★	WYON.	*			
ADDRESS: 404 MARKET ST			And .	PERUNT HUMBER	Ш	DISCHARGE NUMBER	<b>100</b>	(SUBR 12)			
TOMBALL, TX 77376				3	MONITORIDIO PERIOD		NOC	DOMESTIC FACILITY - 001	8-X		
FACILITY: TOMBALL SOUTH WWITP	¥			MANDOWYY	*  -	MANAGRAM		External Outfull			
LOCATION: 4300 E INTX HOLDERRIETH RD	RRETH RD &			09/01/2014		. 09/30/2014				No Discharge	
ATTN: DAVID KALIFFMAN				•							
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00630 1 0	PERMIT	168 DARY AV		3		16 DALY AV	40 DARLY NOC	T/Om		Tutce Every Wheth	SOMICO
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How, in conduit or thru treatment plant	SAIPLE EXASTREMENT	2.905			*****		3	•	0	विव/विव	TOTALL
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						ļ			ľ		

**Direct Testimony of Glen Williams** 

**Ex. GAW-18** 

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DESCHARGE MONITORING REPORT (DMR)

Form Approved OAB No. 2040-0004

ğ

O PERSO TX0117565 PERMIT MUNDER MADOWYY \* 08/01/2014

77378 DMR Mading 21º CODE: (SUBR 12) KAZOR

No Discharge DOMESTIC FACILITY - 001 External Outline

충 및 0 ES 퉏 VALUE INST BAX 0.03 QUALITY OR CONCENTRATION VALUE

SEES.

**CHANTITY OR LOADING** VALUE

4300'E INTX HOLDERRIETH RD & HOLDERRIETH RD

LOCATIONE. FACILITY ADDRESS:

ATTRE DAVID KAUFFIVAN

TOMBALL SOUTH WATP

TOWISALL, TX 77375 CITY OF TOMBALL 401 MARKET ST

PERMITTEE NAME ADDRESS (Notacle Facility

VALUE

PENNIT REQUIRENT SAMPLE MEASURENT

PENSIT REQUIREMENT GAMPLE REACHREMENT

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SAMPLE TYPE

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211.8 125 DAILY AV

Req. Mon. DARY AV

24 PB

COMPOS

28/290/408 THE LEWYORK

HABNTS AND EXPLANATION OF ANY VIOLATIONS (Reference of salas)

Slen Williams Supervisor

**Ex. GAW-18** 

NAMESTITLE PREMIUPAL EXECUTIVE OFFICER

Revised monthly minimum chlorine residual is 2,33 mg/

Page 2

02H22014

Direct Testimony of Glen Williams

PARAMETER



To: City Of Tomball From: Vernon Hagan

Subject: South Plant Flow for WWTP

Date: February 23, 2015

Glen,

I Visited the South Plant on February 23, 2015, I checked the Flow Meter and found that the Level was reading correct but when compared to the actual Flow the reading read high, I checked it at 2 different levels and found the problem was repeatable. I verified the Settings and Calibration and found them to be correct with the exception of the Temperature Compensator.

I Replaced the Temperature Compensator and Re-Calibrated the Flow meter and verified the Actual Flow against the Issco Manual in several different levels and the reading where correct across the spectrum.

Please let me know if you would like me to do anything else in regards to this issue.

Thanks,

### Vernon A Hagan

Vernon Hagan (281) 797-2887 www.mudinstruments.com

Mud Instruments 10902 David Lane Crosby, Texas 77532 (O) (281)421-1864 (C) (281)797-2887 (F) (281)421-5785

#### **Mud Instruments**

10902 David Lane - Crosby, TX 77532 (281) 421-1864 - Fax (281) 421-5785

### **Certificate Of Calibration**

Owner: City Of Tomball Certificate No: 11261405

Location: South Plant
Application: WWTP Discharge

We certify that the following instrument(s) is/are in good working order and conform to the Manufacturers specified accuracy. All workmanship and Materials are guaranteed to be of the highest standards and in accordance with the manufacturers guidelines.

Measuring Element: 24 Inch Parshall Flume

Flowmeter:

Manufacturer: <u>Miltronics</u>

Model Number: OCM III Serial No: PBD/X4130191

Range: 14.64 Inches Specified Accuracy: 1%

Variance Found: ≤1% Zero Distance: 37.94 Inches

Recorder:

Manufacturer: Honeywell

 Model Number:
 DR4300 Series
 Serial No: 0744Y776045600005

 Range:
 0 - 7 MGD
 Specified Accuracy: 1%

Variance Found: <1%

Chart Type: Ink Cartridge:

Calibration Data: <u>Instrument was Calibrated as per the Manufactures</u>

recommendations and verified by using the Isco Manual

Range was set for 0 - 7 MGD, Blanking Distance

12 Inches Sensor

Comments: None

Date of Calibration: February, 23 2014 Technician: Vernon Hagan

#### Water Quality Noncompliance Notification "See back of Form for Guidance for Completion"

Unauthorized Dischar	94	⊠ Reportable	Effluent Violation		Other
seneral information	EN ENTERE	HE W	ELECTION ELECTION		REEL WILL
ntity Name: City of Tomb	all South		Telephone No (8###		(281) 290-1425
Permittée TCEQ Reg	gion: R12 - Houston	County:	Harris	*Permit Nun	nber: 0010616002
oncompliance Summ	**************************************	Madean a			
escription and Cause of No					
2 hour peak flow violation, p probable cause of noncomp		ported 4,278 gpr	n. 7.75 + inches of rain in	24 hours. Inflow	and/or infiltration
Puration:					
tart Date: 7/13/2012 E	ind Date: 7/13/12	Or Dat	e Expected to be Correc	ted:	
ime: 2:45 p.m. 1	ime: 5:30 p.m.	31	•	<u> </u>	
otential Danger to Human	Health and Safety or t	he Environmen	t:		
ctions Taken	Id be attached or subin	nitted to TCEQ	when available.		
eld Measúréments	Laboratory Si	•	Fish Kill(if yes,	estimated numb	er killed):
☐ Yes ⊠ No	🗌 Yes 🛛	No	ſ	☐ Yes 🔯 No	L
ctions Taken to Mitigate A	dverse Effects:				,
<b>VA</b>					Professional Control of the Control
ctions Tai <mark>ken to Correct the</mark>	Problem and Prevent	Recurrences			
hecked and monitored susp	ect manholes during ar	nd after rain eve	nt.		
erification information	D. 19-19-19-19-19-19-19-19-19-19-19-19-19-1	表となってい		名 的 TO GREAT	
formation Reported By (N		lams/wastewat			ported: 8/2/2012
gnature:	Illian				<u> </u>
ots: If this form is being used EQ. Compliance Monitoring					e, and the original to:
f the noncompliance is an unit hich the collection system is ti					e for assistance.
EQ - 00501 (Rev. 04-27-12)					Page 1 of

**Direct Testimony of Glen Williams** 

### Water Quality Noncompliance Notification #500 hours 1782 \*See back of Form for Guidance for Completion\*.

General Information  Entity Name: City of Tomball  Permittee. TCEQ Region: R12 - Houston County Subscriber	Telephone No (#########): (281) 290-1425
Permittee. TCEQ Region: R12 - Houston Cour	
Subscriber R12 - Houston Coun	
	ty: Harris *Permit Number: 0010616001
	and the control of th
Noncompliance Summary	
Description and Cause of Noncompliance (include location,	discharge route, and estimated volume of unauthorized dischar
The copper sample taken on 09/20/2016 had a value of .025 mg/l, which exceeds the permitted level of .016 mg/l. The caus	g/I making the daily average for the month of September to be .0175 e of the non-compliance is unknown.
LDuration:	
Start Date: End Date: Or	Date Expected to be Corrected:
	F
Potential Danger to Human Health and Safety or the Environ	nment:
, , , , , , , , , , , , , , , , , , , ,	,
	•
	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `
Actions Taken	
Monitoring Data: Data should be attached or submitted to T	CEQ when available.
Field Measurements Laboratory Samples	Fish Kill(If yes, estimated number killed):
☐ Yes ☒ No ☐ Yes ☐ No	☐ Yes .⊠ No
Actions Taken to Mitigate Adverse Effects:	
Actions Taken to Correct the Problem and Prevent Recurren	Ce:
Verification information	The state of the s
Information Reported By (Name/Title): Glen Williams/Sup	Prvisor Date Reported: Oct 19, 2016
Signature: Slan Williams	
<u>Note:</u> If this form is being used for a 5-day written report, a copy of ICEQ, Compliance Monitoring Team (MC224), Enforcement Divisio	the form should be sent to the TCEQ Region Office, and the original to: n, P.O. Box 13087, Austin, TX 78711-3087.

**Direct Testimony of Glen Williams** 

TCEQ - 00501 (Rev. 04-27-12)

Page 1 of 2

\* If the noncompliance is an unauthorized discharge from a wastewater collection system, use the permit number of the treatment plant to which the collection system is tied. If you are uncertain of this permit number, you may call the TCEQ Regional Office for assistance.

#### **Water Quality Noncompliance Notification**

\*See back of Form for Guidance for Completion\* Other Unauthorized Discharge General Information **企品研究工**建 Entity Name: |City of Tomball Telephone No (#########): (281) 290-1425 □ Permittëe \*Permit Number: | 0010616001 R12 - Houston County: Harris TCEQ Region: Subscriber Noncompliance Summary Description and Cause of Noncompliance (include location, discharge route, and estimated volume of unauthorized discharge): The daily average of .029 mg/L and the daily maximum of .041 mg/L for total copper exceeded the permitted limits of .016 mg/L daily average and .033 mg/L daily maximum for the month of November 2016. Laboratory results are attached. The cause of the noncompliance is unknown. **Duration:** Start Date: End Date: Date Expected to be Corrected: Or Time: Time: Potential Danger to Human Health and Safety or the Environment: Actions Taken Monitoring Data: Data should be attached or submitted to TCEQ when available. Field Measurements **Laboratory Samples** Fish Kill(If yes, estimated number killed): Yes No Yes No Actions Taken to Mitigate Adverse Effects: Actions Taken to Correct the Problem and Prevent Recurrence: Magnesium Oxide is being added to the head of the plant in an effort to reduce the total copper levels in the plant process and also testing for copper in the collection system by taking raw wastewater samples from the lift stations. (See attached lab results)

Verification information

Signature:

information Reported By (Name/Title): | Gien Williams/Supervisor

Note: If this form is being used for a 5-day written report, a copy of the form should be sent to the TCEQ Region Office, and the original to: TCEQ, Compliance Monitoring Team (MC224), Enforcement Division, P.O. Box 13087, Austin, TX 78711-3087.

If the noncompliance is an unauthorized discharge from a wastewater collection system, use the permit number of the treatment plant to which the collection system is tied. If you are uncertain of this permit number, you may call the TCEQ Regional Office for assistance.

TCEQ - 00501 (Rev. 04-27-12)

Page 1 of 2

Date Reported: Dec 14, 2016

Questions or Comments >>

Customer Search RE Search ID Search Document Search Search Results Permit Detail TCEQ Home

Query Home

#### **Central Registry**

The Customer Name displayed may be different than the Customer Name associated to the Additional IDs related to the customer. This name may be different due to ownership changes, legal name changes, or other administrative changes.

Detail of: Wastewater Permit WQ0010616001

For: CITY OF TOMBALL NORTH WWTP (RN102177763)

1,400 FT N OF THE INTERSECTION OF NEAL ST AND E HU

Permit Status: ACTIVE

Held by: CITY OF TOMBALL (CN600667190) View 'Issued To' History

N/A View Compliance History

Mailing Address: 401 MARKET ST TOMBALL, TX 77375 -4645

Notice of Violations Current TCEQ Rules

NOV Date	Status	Citation/Requirement Provision	Allegation	Classification	Self Reporting Indicator
11/30/2016	ACTIVE	2D TWC Chapter 26, SubChapter A 26.121(a); 30 TAC Chapter 305, SubChapter F 305.125(1)	Failure to meet the limit for one or more permit parameter	MODERATE	YES
09/30/2016	ACTIVE	2D TWC Chapter 26, SubChapter A 26.121(a); 30 TAC Chapter 305, SubChapter F 305.125(1)	Fallure to meet the limit for one or more permit parameter	MODERATE	YES ,
06/30/2016	<b>ĀCTĪVE</b>	2D TWC Chapter 26, SubChapter A 26.121(a); 30 TAC Chapter 305, SubChapter F 305.125(1)	Failure to meet the limit for one or more permit parameter	MODERATE	YES *
05/31/2016	ACTIVE	2D TWC Chapter 26, SubChapter A 26.121(a); 30 TAC Chapter 305, SubChapter F 305.125(1)	Failure to meet the limit for one or more permit parameter	MODERATE	YES
04/30/2016	ACTIVE	2D TWC Chapter 26, SubChapter A 26.121(a); 30 TAC Chapter 305, SubChapter F 305.125(1)	Fallure to meet the limit for one or more permit parameter	MODERATE	·YES
03/31/2016	ACTIVE	2D TWC Chapter 26, SubChapter A 26.121(a); 30 TAC Chapter 305, SubChapter F 305.125(1)	Failure to meet the limit for one or more	MODERATE	ŸES

http://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=iwr.novdetail&addn\_id=6765861... 5/3/2017

	ĺ		permit parameter		
12/31/2014	ACTIVE	2D TWC Chapter 26, SubChapter A 26.121(a); 30 TAC Chapter 305, SubChapter F 305.125(1)	Failure to meet the limit for one or more permit parameter	MODERATE	YES
06/30/2013	ACTIVE	2D TWC Chapter 26, SubChapter A 26.121(a); 30 TAC Chapter 305, SubChapter F 305.125(1)	Failure to meet the limit for one or more permit parameter	MODERATE	YES
11/30/2011	ACTIVE	2D TWC Chapter 26, SubChapter A 26.121(a); 30 TAC Chapter 305, SubChapter F 305.125(1)	Failure to meet the limit for one or more permit parameter	MODERATE .	YES `

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Statewide Links: Texas.gov | Texas Homeland Security | TRAIL Statewide Archive | Texas Veterans Portal

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Questions or Comments >>

Customer Search RE Search ID Search Document Search Search Results Permit Detail TCEQ Home

Query Home

#### **Central Registry**

The Customer Name displayed may be different than the Customer Name associated to the Additional IDs related to the customer. This name may be different due to ownership changes, legal name changes, or other administrative changes.

Detail of: Wastewater Permit WQ0010616002

For: CITY OF TOMBALL SOUTH WWTP (RN101609899)

LOCATED S OF HOLDERRIETH RD, APPROX 2100 FT N OF W

Permit Status: ACTIVE

Held by: CITY OF TOMBALL (CN600667190) View 'Issued To' History

N/A View Compliance History

Mailing Address: 401 MARKET ST TOMBALL, TX 77375 -4645

Notice of Violations Current TCEQ Rules

NOV Date	Status	Citation/Requirement Provision	Allegation	Classification	Self Reporting Indicator
06/30/2016	ACTIVE	2D TWC Chapter 26, SubChapter A 26.121(a); 30 TAC Chapter 305, SubChapter F 305.125(1)	Failure to meet the limit for one or more permit parameter	MODERATE	YES
12/31/2014	ACTIVE	2D TWC Chapter 26, SubChapter A 26.121(a); 30 TAC Chapter 305, SubChapter F 305.125(1)	Failure to meet the limit for one or more permit parameter	MODERATE	YES
04/30/2014,	ACTIVE	. 2D TWC Chapter 26, SubChapter A 26.121(a); 30 TAC Chapter 305, SubChapter F 305.125(1)	Failure to meet the limit for one or more permit parameter	MODERATE	YES
05/31/2013	ACTIVE	2D TWC Chapter 26, SubChapter A 26.121(a); 30 TAC Chapter 305, SubChapter F 305.125(1)	Failure to meet the limit for one or more permit parameter	MODERATE	YES
07/31/2012	ACTIVE	2D TWC Chapter 26, SubChapter A 26.121(a); 30 TAC Chapter 305, SubChapter F 305.125(1)	Fallure to meet the limit for one or more permit parameter	MODERATE	YES

http://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=iwr.novdetail&addn\_id=9085493... 5/3/2017

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http://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=iwr.novdetail&addn\_id=9085493... 5/3/2017

# Water Quality Noncompliance Notification \*See back of Form for Guidance for Completion\*

☑ Unauthorized Discharge	Reportable Effluent Violation	Other
General Information	and and the	the state of the s
Entity Name: City of Tomball	Telephone No (##	########): (832) 349-8027
✓ Permittee TCEQ Region: R12 - Housto	County: Harris	*Permit Number: 0010616002
Noncompliance Summary	at a second of the second	and the second s
Description and Cause of Noncompliance (include	le location, discharge route, and esti	nated volume of unauthorized discharg
Contractor damaged 6" force main during excavat wastewater would fill the hole and then drain back Tomball, Texas 77375. Estimated volume is 500 ga	cinto the pipe when pump shut off. Loc	ed pipe and when pump came on ation is 14301 Medical Complex Dr.,
Duration:           Start Date:         8/31/15         End Date:         8/31/15           Time:         11:30 A.M.         Time:         7:00 P.M.	Or Date Expected to be Co	rrected:
Potential Danger to Human Health and Safety o	r the Environment:	
None None	i dic Elita di India	
None		
Actions Taken		
Monitoring Data: Data should be attached or su Field Measurements Laboratory		es, estimated number killed):
Field Measurements  Laboratory  Yes   No   Yes   Yes	-	Yes No
Actions Taken to Mitigate Adverse Effects:	<b>∑</b> 140	
<u> </u>		
Calcium hypochlorite was sprinkled on the affecte		
Actions Taken to Correct the Problem and Preve		
Repair clamp was installed on the force main brea	k on 8/31/2015 and the broken section .	was replaced with new pipe on 9/1/2015.
Verification information	IS THE THE TANK IN THE	
Information Reported By (Name/Title): Glen V	/illiams/Supervisor	Date Reported: Sep 2, 2015
Signature: Allan Williames		
Note: If this form is being used for a 5-day written re TCEQ, Compliance Monitoring Team (MC224), Enforce	port, a copy of the form should be sent to ement Division, P.O. Box 13087, Austin, T	the TCEQ Region Office, and the original to: X 78711-3087.
* If the noncompliance is an unauthorized discharge which the collection system is tied. If you are uncertainty	from a wastewater collection system, use in of this permit number, you may call the	the permit number of the treatment plant to TCEQ Regional Office for assistance.
TCEQ - 00501 (Rev. 04-27-12)		Page 1 of

**Water Quality Noncompliance Notification \*See back of Form for Guidance for Completion\*** Reportable Effluent Violation Other ☑ Unauthorized Discharge **General Information** Entity Name: City of Tomball Telephone No (########): (832) 349-8027 □ Permittee \*Permit Number: |0010616001 TCEQ Region: R12 - Houston County: Harris ☐ Subscriber Noncompliance Summary Description and Cause of Noncompliance (include location, discharge route, and estimated volume of unauthorized discharge): The Tomball North wastewater treatment plant at 615 E. Hufsmith Rd. An aeration basin drain and manhole connected to the drain overflowed due to heavy rain (4.25 inches) and lift station level at 26 feet. The discharge from the high level in the lift station overflowed onto the concrete area and driveway at the plant. **Duration:** Start Date: |5/26/15 End Date: 5/26/15 Or. Date Expected to be Corrected: Time: Time: Potential Danger to Human Health and Safety or the Environment: None. **Actions Taken** Monitoring Data: Data should be attached or submitted to TCEQ when available. Fish Kill(If yes, estimated number killed): Laboratory Samples **Field Measurements** 

☐ Yes 🛛 No	☐ Yes 🏻	No	Ye	es 🛛 No	<u> </u>
ctions Taken to Mitigate	Adverse Effects:				
A vactor removed an estim	ated 400 gallons of mater	ial and washed down	the affected area. HTH w	vas used for disinfection.	
	4 w a			<u> </u>	
			-, -, -, -, -, -, -, -, -, -, -, -, -, -	· •	

Actions Taken to Correct the Problem and Prevent Recurrence:

Widespread flooding in area.

**Verification Information** 

Information Reported By (Name/Title): |Glen Williams/Supervisor

TYes IX No

Date Reported: May 27, 2015

☐ Yes 🕅 No

Note: If this form is being used for a 5-day written report, a copy of the form should be sent to the TCEQ Region Office, and the original to: TCEQ, Compliance Monitoring Team (MC224), Enforcement Division, P.O. Box 13087, Austin, TX 78711-3087.

\* If the noncompliance is an unauthorized discharge from a wastewater collection system, use the permit number of the treatment plant to which the collection system is tied. If you are uncertain of this permit number, you may call the TCEQ Regional Office for assistance.

TCEQ - 00501 (Rev. 04-27-12)

Signature:

Page 1 of 2

# Water Quality Noncompliance Notification \*See back of Form for Guidance for Completion\*

Unauthorized Discharge	⊠ Report	able Effluent Violation	Other
Seneral Information		* , *	
Entity Name: City of Tomball Se	outh Wastewater Facility	Telephone No (#########):	(832) 349-8027
☑ Permittee TCEQ Region:	R12 - Houston Count	y: Harris *Perm	it Number: 0010616002
Subscriber	<u> </u>		
loncompliance Summary:			***
escription and Cause of Nonco	mpliance (include location, di	scharge route, and estimated volum	e of unauthorized dischar
4/3/14, 4/8/14 the lab reported a	9.209 ammonia nitrogen value of salue along with the 8.312 am	mage to the rotor shaft. Bearings and s of the sample taken on 4/5/14 exceedi monia nitrogen value of the sample tal	ng the 7 mg/l daily
· · · · · · · · · · · · · · · · · · ·			
Start Date: End C	<u>Or</u>	Date Expected to be Corrected: 4/7.	/14
Potential Danger to Human Heal	lth and Safety or the Environs	nant:	
	Itti and Safety of the Environ	IKI W	
None.	ት		
	•	*	
Actions Taken			, m
Monitoring Data: Data should be			
ield Measurements	Laboratory Samples	Fish Kill(If yes, estimated	i number Killed):
Yes No	🛛 Yes 🗌 No	☐ Yes 🔀	No
ctions Taken to Mitigate Adver	se Effects:		
		· · · · · · · · · · · · · · · · · · ·	
	•		7 mg A
ctions Taken to Correct the Pro	blem and Prevent Recurrence	:	
			أنت أن المعاملة المعا
Bearings and shaft were replaced but back in service on 4/9/14.	on 4/3/14 and rotor was put ba	ick in service. Mammoth Rotor #2 has b	een repaired, installed and
par back in service on the firm	•		
,			
/erification Information	, un 4, , , , , , , , , , , , , , , , , , ,		
nformation Reported By (Name	e/Title): Glen Williams/Waste	water Sup. D	ate Reported: Apr 9, 2014
Signature:	Ullam		
Note: If this form is being used for a	5-day written report, a copy of t	he form should be sent to the TCEQ Regi , P.O. Box 13087, Austin, TX 78711-3087.	on Office, and the original to
If the nancompliance is an unsuth.	órized discharge from a wastaws	ster collection system, use the permit πυ	mber of the treatment plant (
which the collection system is tied. I	if you are uncertain of this permi	t number, you may call the TCEQ Region	al Office for assistance.
CEQ - 00501 (Rev. 04-27-12)		د	Page 1 of

## Water Quality Noncompliance Notification \*See back of Form for Guidance for Completion\*

🛭 Unauthori	zed Discharge	Reportable Effluent Violation	☐ Other
General Info	rmation		
Entity Name:	CITY OF TOMBALL	<b>.</b>	Telephone No: (281) 290-1400
ː 🛛 Per	rmittee 🔲 S	ubscriber	
TCEQ Region	: 12	County: HARRIS	*Permit Number: 0022381
Noncomplian	ce Summary		
Description o	of Noncompliance (in	aclude location, discharge route, and esti	nated volume of unauthorized discharge
MANHOLE OVE GALLONS.	ERFLOWED ONTO THE	PROPERTY IN APPROXIMATELY A 30 FT	CIRCUMFERENCE. APPROXIMATELY 300
Cause of Non	compliance:		•
DISCHARGE (	CAUSED BY EXCESSI	IVE AMOUNTS OF RAIN AND AREA FL	OODING.
Duration:	Start Date and Time End Date and Time Corrected:	ne:6/2/2016 5:00PM e: 6/2/2016 6:00PM	<u>Or</u> Date Expected to be
Potential Dar	nger to Human Healt	th and Safety or the Environment: N	DANGER
Actions Take	n		*
	<del>2</del>	attached or submitted to TCEQ whe	n available.
Ξ,	☐ Yes 🏻 No F	ield Measurements aboratory Samples ish Kill If yes, estimated number ki	
Actions Take	n to Mitigate Advers	se Effects: SPREAD GRANULAR HTH ON	EFFECTED AREA
Actions Take	n to Correct the Pro	blem and Prevent Recurrence:	
Verification I	Information		
	Reported By (Name,	•	•
13		_	
Date Reporte	d: <u></u>	Signature:	<b>◆</b>
Region Office	form is being used f , and the original to 87, Austin, TX 7871	or a 5-day written report, a copy of to c: TCEQ, Compliance Monitoring Team 1-3087.	he form should be sent to the TCEQ n (MC224), Enforcement Division,
TCEQ - 00501	(Rev. 09-07-10)		Page 1 of 2
Direct 7	Testimony of Gl	en Williams	Ex. GAW-23

COT1283

#### \*Water Quality Noncompliance Notification \*See back of Form for Guldance for Completion\*

☑ Unauthorized Discharge	Reportable Effluent Violation	☐ Other
General Information		
Entity Name: city of tomball	·	Telephone No: (281-290-1400
☑ Permittee ☐ Su	bscriber	
TCEQ Region: 12	County: Harris	*Permit Number: 0022381
Noncompliance Summary		
	southeast corner of 820 E. Carrell St	stimated volume of unauthorized discharge): minmal spillage around manhole; route
Cause of Noncompliance: Large p	iece of concrete blocking outlet s	ide of manhole. '
Duration: Start Date and Time End Date and Time: Corrected: 2-25-16		Or Date Expected to be
Potential Danger to Human Health main line and after sewer drained downiece of concrete obstructing the out of location.	vn entered manhole down stream fro	Minimal danger. Was able to unstop the m discharge, and found, and removed large eet the problem we have had at this
Actions Taken	The Control of the Co	
Monitoring Data: Data should be	- 4	hen available.
☐ Yes ☒ No Fid	eld Measurements boratory Samples sh Kill If yes, estimated number	
Actions Taken to Mitigate Adverse Pumped discharged sewer back into n		ead on affected area. <sup>1.</sup>
Actions Taken to Correct the Probi concrete blocking outlet side of manho	lem and Prevent Recurrence: Entole.	ered manhole and removed a large piece of
		/
Verification Information		7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7
Information Reported By (Name/	Title): JOHN ESCAN	MILLA SUPERINTEMBENT
Date Reported: 2-25-16	Musilla Signature:	
Note: If this form is being used fo Region Office, and the original to: P.O. Box 13087, Austin, TX 78711	TCEQ, Compliance Monitoring Te	of the form should be sent to the TCEQ am (MC224), Enforcement Division,
TCEQ - 00501 (Rev. 09-07-10)		Page 1 of 2

**Direct Testimony of Glen Williams** 

Ex. GAW-23

## Water Quality Noncompliance Notification \*See back of Form for Guidance for Completion\*

⊠ Unauthor	rized Discharge	Reportable Effluent Violatio	n Other
General Info	ormation		
Entity Name	e: City of Tomball	·	Telephone No: (281) 290-1400
⊠ Pe	ermittee 🗆 5	Subscriber	
TCEQ Region	n: 12	County: Harris	*Permit Ňumber: 0022381
Noncomplia	nce Summary		
Discharge oc		he southeast corner of 820 E. Carrell:	estimated volume of unauthorized discharge): st. Minimal spillage around manhole, route
	ncompliance: d up in main distribu	ition`line.	ı
Duration:		me: 2-22-16 8:15 am e: 2-22-16 9:00 am 6	Or Date Expected to be
Potential Da the main line	inger to Human Heal and break stoppage fi	ith and Safety or the Environment ree quickly with little discharge.	: Very minimal danger. Was able to unstop
	<u></u>	***	
Actions Take		e attached or submitted to TCEQ v	vhen avallable
-	Yes No	Field Measurements Laboratory Samples Fish Kill If yes, estimated numbe	
Actions Take		se Effects: Granular chlorine was sp	
			•
Actions Take main line and maintenance	i other man holes upst	oblem and Prevent Recurrence: Uream and down steam of 820 E. Carr	sed jet rig machine to thoroughly clean out all. Added this area to preventative
Verification	Information	A CONTRACTOR OF THE PROPERTY.	
,	Reported By (Name	1600.60	ILLA /UTILITIES
Date Report	ed: 2-22-16	seauille Signature:	SUPERINTENDENT
			of the form should be sent to the TCEQ cam (MC224), Enforcement Division,
TCEQ - 00501	(Rev. 09-07-10)		Page 1 of 2

**Direct Testimony of Glen Williams** 

Ex. GAW-23

#### **SOAH DOCKET NO. 473-17-2560.WS PUC DOCKET NO. 46336**

APPLICATION OF THE CITY OF	§	BEFORE THE
TOMBALL TO OBTAIN WATER AND	§	
SEWER CERTIFICATES OF	§	STATE OFFICE OF
CONVENIENCE AND NECESSITY IN	§	
HARRIS AND MONTGOMERY	§	ADMINISTRATIVE HEARINGS
COUNTIES, TEXAS	-	

**DIRECT TESTIMONY** OF DAVID ESQUIVEL

ON BEHALF OF APPLICANT, **CITY OF TOMBALL** 

MAY 12, 2017

#### **COT Exhibit 5**

	•
<b>EXHIBITS</b>	•
Exhibit DME-1	Resume
Exhibit DME-2	Water CCN Boundary (zoom view)
Exhibit DME-3	Sewer CCN Boundary (zoom view)
Exhibit DME-4	City of Tomball Code of Ordinances, Section 9
Exhibit DME-5	City of Tomball Comprehensive Master Plan
Exhibit DME-6	North Harris County Regional Water Authority Conversion Plan
Exhibit DME-7	City of Tomball Infrastructure Master Plan
Exhibit DME-8	City of Tomball Capital Improvement Plan .
Exhibit DME-9	HMW SUD's Request for Service
Exhibit DME-10	Notice of Intent to HOE WSC
Exhibit DME-11	Harris County Request for Service
Exhibit DME-12	City of Houston Signed Agenda Item
Exhibit DME-13	Approved City of Houston City Council Minutes
Exhibit DME-14	City of Tomball Insurance Services Office Rating – In-City
Exhibit DME-15	City of Tomball Insurance Services Office Rating – ETJ
Exhibit DME-16	ABC13 News "Water Woes" Article
Exhibit DME-17	City of Tomball Utility Rates
Exhibit DME-18	Quadvest Water & Sewer Tariffs
Exhibit DME-19	NHCRWA Fee Notice
Exhibit DME-20	City of Tomball Code of Ordinances, Section 46

1 `	4	DIRECT TESTIMONY OF DAVID ESQUIVEL,	
. 2		WITNESS FOR APPLICANT, CITY OF TOMBALL	
3			
4		I. INTRODUCTION AND QUALIFICATIONS	
5			
6	Q.	Please state your name.	
7	A.	David Matty Esquivel.	
8			
9.	Q.	Please state your occupation and place of employment.	
10	A.	I am the Director of Public Works for the City of Tomball ("City" or "Tomball"). I have	
11	been in this position since January 2015.		
12			
13	Q.	Please outline your educational and professional background.	
14	A.	I received a Bachelor's of Science degree in Civil Engineering from Texas Tech	
15	University in 2001. I am also a Licensed Professional Engineer licensed in the state of Texas,		
16	license number 96624, and I have completed the Public Funds Investment Act (PFIA)		
17	certif	ication.	
18			
19		My professional experience began as a project engineer for a consulting firm. At that	
20	firm, we specialized in serving smaller cities, so that firm engineers would act as a particular city		
21	engineer. I became a project manager in the firm and assisted several cities with their		
22	engineering needs. I was then recruited by the City of Cleburne, where I started as an engineer		
23	in their Engineering and Planning department in 2008. Once I obtained my professional license,		
24	I was	promoted to City Engineer. Within a couple of years, I was then promoted to Director of	
25	Publi	c Works after the prior director left for a position in another city. In May 2011, I was	
26	prom	oted to Assistant City Manager. I also retained my responsibilities as Director of Public	
27	Worl	ss. Currently I am working as the Director of Public Works for the City of	
28	Tom	ball. Exhibit DME-1 is a copy of my professional resume.	
29			
30			

DIRECT, TESTIMONY OF DAVID ESQUIVEL, P.E. COT1288

PAGE

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1	

- 2 Q. Please describe your job responsibilities for the City of Tomball.
- 3 A. As the Director of Public Works, I am responsible for the Streets and Drainage,
- 4 municipal facilities, parks, fleet, sanitation, water distribution and supply, sewer collection and
- 5 treatment, and gas distribution departments. After a year as the Director of Public Works for
- 6 Tomball, I also took over the Capital Improvements Projects ("CIP") program.

#### II. PURPOSE OF TESTIMONY

9 10

#### Q. What is the purpose of your testimony in this proceeding?

- 11 A. The purpose of my testimony is to support the application for CCN, provide information
- regarding the current status of the City's water and sewer systems, and to describe its technical
- and managerial ability to provide continuous and adequate water and sewer utility service to an
- expanded service area. I am also testifying on the City's long-range planning that has and will
- be implemented for future expansion and plans for the water and sewer systems. It is critical for
- any utility to provide the long range planning necessary to have a complete and comprehensive
- 17 CIP program that will be fiscally responsible to the rate payers. I am testifying on behalf of the
- 18 City.

19

- 20 Q. Have you previously testified before the Public Utility Commission of Texas or the
- 21 Texas Commission on Environmental Quality?
- 22 A. No, I have not previously testified before the Commission or TCEQ.

23

#### 24 Q. What exhibits have you prepared in support of your testimony?

- 25 A. My direct testimony and testimony exhibits DME-1 through DME-20 were prepared by
- 26 me or under my direction, supervision, or control and are true and correct to the best of my
- 27 knowledge.

#### III. CCN AREA GENERALLY 1

2 3

4

- Q. Is the City requesting the same geographic boundaries for the water and sewer CCN areas?
- A. While the expanded water and sewer service areas would include all of the area within 5
- the City limits and the extra territorial jurisdiction ("ETJ") boundaries, the proposed water and 6
- sewer boundaries are not identical. As I explain below, the City carefully worked around 7
- existing water and sewer CCN areas when defining the Tomball CCN areas. 8

9

- How did the City provide public notice of its requested water and sewer areas? 10 Q.
- The City's consulting engineer, Richard Weatherly, P.E. with Freese and Nichols, Inc. 11
- 12 ("FNI") prepared the application under my direct supervision. This included the public notice
- that the PUC approved and the City sent by first class mail. 13

14 15

- Q. Who mailed the notices?
- A. FNI utilized the PUC template for notifying neighboring utilities, cities and landowners, 16
- 17 'and FNI added specific information about the City's Water and Sewer CCN application as
- necessary. FNI then provided the City with the notice forms and mapping to be included with 18
- 19 the notice as well as the addresses where notice forms should be mailed. Addresses were
- obtained from Harris County Appraisal District ("HCAD"). City of Tomball Administrative 20
- staff then mailed the notices to the groundwater conservation district, the county judges, retail 21
- public utilities within two miles of the requested boundary, and required landowners via first 22
- class mail. The United State's Postal Service forwarded any notices that were returned to the City 23
- (but included a new address). 24

25 26

- Q. Is the HCAD information regarding the contact information the most accurate data
- available to the City to find the property owners who need to be notified? 27
- `28 A. The HCAD information has the most recent contact information for the property owners
- in Harris County. This information is certified every year and is current to the latest year. 29

#### 1 Q. Who assured that the information was correct and mailed?

- 2 A. The City completed affidavits certifying that the City mailed the required notices and
- 3 published the appropriate notices in a newspaper of general circulation. FNI submitted the
- 4. City's affidavits to the PUC on January 10, 2017. PUC deemed the notification sufficient on
- 5 January 25, 2017.

6

- 7 Q. After public notice, did the City receive any inquiries about its application? If so,
- 8 from whom?
- 9 A. Yes. We received two inquires that resulted in one meeting with staff and one telephone
- 10 conference. The in-person meeting with staff was with an individual, Mr. Milmo, located on the
- west end of FM 2920. The phone conversation was with another individual, Russell De Nina,
- located on the south side of town on Holderrieth Road.

13

- During our conversation with Mr. Milmo, he expressed concerns that his property would
- be included within the proposed boundary. However he decided to remain within the proposed
- 16 CCN boundaries, as issuance of the CCN to the City would provide him with an additional
- option for water and sewer services in the future. Russell DeNina contacted the PUC to request
- that his property be removed from the City's requested service area.

19

- 20 Q. Did Mr. DeNina provide an explanation why he chose to be removed the City's CCN
- 21 application area?
- 22 A. John Escamilla, City of Tomball Utilities Superintendent, did call Mr. DeNina about his
- decision and he informed Mr. Escamilla that he did not want to be tied to the City's zoning
- 24 requirements should he be required to be annexed into the City in the future. The City had no
- objection to his removal.

26

- 27 Q. Would the City annex a landowner into the City if they were included in the service
- 28 area of the CCN?
- 29 A. Being in the water and sewer service areas does not require annexation into the city
- 30 limits.

#### 1 Q. Did the City receive any requests to modify the application boundary?

- 2 A. No, the City did not receive any requests to change the proposed boundaries in any way,
- 3 including the two protestants: Quadvest, L.P. ("Quadvest") and Undine Texas, LLC. Mr.
- 4 DeNina did not request a change of the boundary per se, but contacted the PUC directly with his
- 5 request to be removed from the application area entirely. Richard Weatherly included an exhibit
- 6 with his testimony that depict the requested CCN area without Mr. DeNina's property. This map
- 7 is revised from the map provided in the original CCN application.

8

10

# Q. How did you address the existing CCN's within the proposed area before filing your application?

- 11 A. Existing CCN's were identified and removed before determining the boundary of the City
- of Tomball's proposed CCN service area to ensure that there were no overlapping boundaries.
- Additionally, we attempted to contact and discuss the application with any CCN holders that
- were located adjacent to the boundaries of the City of Tomball application area prior to the
- submittal. By doing so, we were attempting to ensure that the entities with current CCN's
- adjacent to the City of Tomball's application area were aware of the application before it was
- filed. We wanted to ensure that we respected each existing CCN holder's boundaries.

18

- 19 Quadvest has alleged that the City's requested area overlapped with its existing CCN
- boundary. There has been some confusion about an overlap with Quadvest's CCN boundaries,
- but none exists. GIS confirms the City's requested CCN area is adjacent but does not actually
- 22 overlap with Quadvest's CCN. The lines on the original PUC maps are thick, which may
- confuse what GIS otherwise clarifies. Exhibit DME-2 is a detailed view of the proposed water
- 24 CCN boundary, and Exhibit DME-3 is a zoomed-in view of the proposed sewer CCN boundary.
- 25 Exhibit DME-3 was based on the Harris County Tax Maps.

26

#### 27 Q. Why did the City choose the requested CCN area?

- 28 A. A City's ETJ is the area that the Texas Legislature allows municipalities to regulate
- 29 development to ensure future development complies with the municipality's water, sewer, and
- 30 other development regulations. The ETJ allows a municipality to grow or annex territory in
- 31 more efficient manner. Annexation requires that the same level of service that the City provides

- 1 its citizens is also provided to all areas that are annexed into the city limits. Long-range master
- 2 planning is required for a city to provide the level of services that all of the citizens receive.
- 3 Major facilities, including water plants, wastewater treatment plants, water transmission lines,
- 4 sewer trunk lines, lift stations, etc., are sized based on the projected growth and demands.
- 5 Therefore, to be able to provide the same level of service as the residents within the city limits
- 6 receive, the water and sewer service areas need to match the areas where the City may annex.
- 7 However, we specifically chose CCN boundaries wholly within the City and ETJ to avoid
- 8 overlap and conflict with other certificated providers.

10

#### Q. Does the City plan on annexing any additional property within the ETJ?

- 11 A. Annexation is a policy decision determined by the City Council in place at the time.
- However, the City's current and past policy is not to involuntarily annex. Rather, the only
- annexations are voluntary and due mainly to a desire for city services like emergency response
- 14 (police and fire).

15-

#### 16 Q. What is the purpose of the ETJ?

- 17 A. According to the Texas Local Government Code, the purpose of the ETJ is to designate
- 18 certain areas as the extraterritorial jurisdiction of municipalities to promote and protect the
- 19 general health, safety, and welfare of persons residing in and adjacent to the municipalities. The
- 20 City Council has adopted a policy relating to the sales of municipal utilities in City of Tomball
- 21 Code of Ordinances. Sec 9.07 of the Code of Ordinances gives the power and authority to the
- 22 City Council to provide city services and utilities to residents within the city limits and ETJ. See
- 23 Exhibit DME-4, for the City of Tomball Code of Ordinances, Section 9.

24 25

#### Q. What else is significant regarding the requested area?

- 26 A. A number of businesses, political subdivisions, and individuals have requested service.
- 27 The majority of our current customers are within the City's corporate boundaries, so the City
- already provides water and sewer service to the majority of the requested area. All the requested
- area is within the City's planning area.

One of the requests, for example, is a request from Pigs Unlimited to be annexed into the
city limits to receive water service. Pigs Unlimited is an oil and gas field operations company
that is developing property for manufacturing. Another entity is HCID #17. This district was
within the City of Houston's ETJ, but then requested to be released from Houston's ETJ and
added to the City of Tomball's ETJ. The City is currently in discussions with the district to
provide either wholesale water service or retail service after annexation.

#### Q. What do you mean by the City's "planning area"?

9 A. The City has a Comprehensive Master Plan that was adopted by the City Council on December 7, 2009. This plan includes the existing city limits as well as future projections of development including the ETJ. I have provided the Comprehensive Master Plan as Exhibit DME-5.

·13

#### Q. What is the purpose and scope of the Comprehensive Master Plan?

15 A. The Comprehensive Master Plan ensures that future growth and development occurs in a
16 safe, orderly, and healthy fashion. The City's plan seeks, through regulations (adopted under the
17 Master Plan), to promote the health, safety and general welfare of the municipality. Chapter 213
18 of the Texas Local Government Code authorizes cities to adopt a comprehensive plan for long19 range development and for use to coordinate and guide the establishment of development
20 regulations. The City's plan includes future land use, growth capacities that include the
21 capacities of the utilities, thoroughfares, and zoning regulations.

### IV. WATER CCN

# Q. Would the City of Tomball require construction of a separate water system in order to adequately service the requested area?

A. No. The existing system is designed to provide an adequate supply and distribute water and pressure to the requested service area. The five (5) groundwater wells, located throughout the City, provide water supply and pressure at different locations that allows for additional extensions and loops to accommodate any future expansions. The City's system is really an integrated, regional system, because the water system has storage and pumping capacity to

- 1 maintain the system over a large area while the wastewater treatment plant locations and capacity
- 2 within the collection system are designed to serve large areas that are expandable to areas that do
- 3 not have existing service.

- 5 Q. Does the City currently have an adequate supply of water to provide water service
- 6 to the requested CCN area, including meeting TCEQ and PUC standards and taking into
- 7 account current and projected density and land use?
- 8 A. Yes, the City currently has a sufficient water pumping capacity to serve the
- 9 approximately 4,000 existing connections and currently has capacity to serve an additional 1600
- 10 customers in the requested CCN area in accordance with TCEQ minimum standards for capacity:
- 11 Currently, we use only 30% to 40% of our well capacity (based on average demand). By 2025,
- the City will also augment its groundwater supply by obtaining surface water from the North
- 13 Harris County Regional Water Authority ("NHCRWA"), which is a requirement of the Harris-
- Galveston Subsidence District to convert a portion of the water supply to surface water.

15 16

#### Q. What is the Harris -Galveston Subsidence District?

- 17 A. The Harris-Galveston Subsidence District ("HGSD") is a special purpose district created
- by the Texas Legislature in 1975 (see chapter 8801 of the Texas Special District Local Laws
- 19 Code). The district was created to provide for the regulation of groundwater withdrawal
- 20 throughout Harris and Galveston counties to prevent land subsidence, which leads to increased
- 21 flooding. Exhibit DME-6 details the requirement of the City of Tomball to convert to surface
- 22 water obtained from NHCRWA.

23 24 °

#### Q. Is there a contract in place to obtain water from the NHCRWA?

- 25 .A. There is not an agreement in place currently; however, the City of Tomball is not
- scheduled to take water from the district until the 2025 timeframe. The City is working with the
- 27 NHCRWA staff to determine the future needs of the City to structure a contract that will meet
- the needs and anticipated demands and fulfill the mandate of HGSD.

# Q. What authority does HGSD have over the City of Tomball in terms of its water service?

A. All wells serving more than one single family dwelling unit, or LUE, and those single-family dwelling unit wells that have a casing larger than five inches are required to obtain a permit and pay annual fees to HGSD. So that would include the City of Tomball that currently serves approximately 4,000 connections from a groundwater supply. Simply put, HGSD will not continue to allow the City to pump groundwater in the volume it has in the past or would in the future, so the City and those other well users (serving more than one LUE) are required to develop and implement a conversion plan to convert all or a portion of their supply to surface

-11 

#### Q. How will the City provide services to the requested CCN area?

water. This conversion plan is detailed in Exhibit DME-6.

A. Developers are responsible for constructing and dedicating the improvements to roads and utilities to the City as a part of their development. The City will extend water transmission lines and upsize water lines paid through impact fees from development. Since the City provides the main trunk and transmission lines, the system is readily available to developers to connect to the system. The cost to develop is decreased by the availability of the City's system to supply water as well as the developer not having to install redundant portions of a system required for many smaller systems (water storage tanks, booster pumps, wells, etc.). Determining the ultimate service area long range planning is identified in the Infrastructure Master Plan, which I have attached as Exhibit DME-7. The Infrastructure Master Plan identifies improvements needed as development and growth occurs. A CIP is developed and forecast based on growth projections and land use as outlined in the Comprehensive Land Use Plan (previous Exhibit DME-5). The Fiscal year 2017 adopted CIP has been submitted as Exhibit DME-8.

#### Q. What is the CIP?

A. The CIP identifies the projects that are needed to extend service to the areas of the system where there is projected growth and development. The CIP breaks the needs into projects and schedules the completion of the projects following the growth projections in the Comprehensive Land Use Plan.

#### 1 Q. How is a CIP developed?

A. 2 A CIP is developed in accordance with Texas Local Government Code chapter 395. It is 3 based on the existing system and describes existing capital improvements and their total 4 capacities. It identifies necessary capital improvements or facility expansions and their costs, establishes a service unit for each category of capital improvements, and projects service units 5 and demand necessitated by new development based on approved land use assumptions projected 6 7 over a period of 10 years. In the City's case, from the CIP we developed a Maximum Capital Recovery Feé Determination for each service unit category. Examples of projects identified in 8 9 the CIP process are things like upsizing existing lines or adding more elevated or ground storage. Additional supply may also be a part of the CIP in order to meet increasing demands. The City's 10

11 12 13

14

15 16

#### Q. How are the improvements from the CIP funded?

current adopted CIP is attached as Exhibit DME-8.

A. Improvements are funded using many financial tools like General Obligation Bonds, which can be used to borrow the needed funds, or impact fees charged to development for their impact to the system. Cash funding projects from the City's Enterprise Fund is also a funding source.

17 18

19

#### Q. How are impact fees determined?

20 Α. As required by chapter 395 of the Texas Local Government Code, the City of Tomball 21 performs a study to determine the appropriateness of its impact fees. The City's initial impact 22 fee study was the "Infrastructure Master Plan & Impact Fee Determination for 2007 to 2012" which was updated in the "Infrastructure Master Plan & Capital Recovery Fee Determination for 23 2012 to 2022," attached as Exhibit DME-7. The City of Tomball retained CLR, Inc. to update 24 25 the Infrastructure Master Plan & Impact Fee Determination in conjunction with the CIP, using generally accepted engineering and planning practices. The Master Plan meets State 26 requirements, reviews and evaluates its current land use assumptions, and updates its CIP. In the 27 City's CIP, a Maximum Capital Recovery Fee Determination, or impact fee, was made for each 28 service unit category. 29

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