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TCEQ Compliance History Report

PUBLISHED Compliance History Report for CN600130736, RN101248722, Rating Year 2012 which includes Compliance History (CH) components from September 1, 2007, through August 31, 2012.

Customer, Respondent, or Owner/Operator: CN600130736, City of Lubbock **Classification:** SATISFACTORY **Rating:** 1.52

Regulated Entity: RN101248722, LUBBOCK PUBLIC WATER SYSTEM **Classification:** NOT APPLICABLE **Rating:** N/A

Complexity Points: N/A **Repeat Violator:** N/A

PH Group: 14 - Other

Location: 6001 N GUAVA AVE LUBBOCK, LUBBOCK COUNTY, TX 79403-6803

CEQ Region: REGION 02 - LUBBOCK

D Number(s):

PUBLIC WATER SYSTEM/SUPPLY REGISTRATION
520002-

Compliance History Period: September 01, 2007 to August 31, 2012 **Rating Year:** 2012 **Rating Date:** 09/01/2012

Compliance History Report Prepared: July 10, 2013

Agency Decision Requiring Compliance History: Enforcement

Component Period Selected: July 10, 2008 to July 10, 2013

CEQ Staff Member to Contact for Additional Information Regarding This Compliance History.

Name: Remington Burkland **Phone:** (512) 239-2611

Site and Owner/Operator History:

-) Has the site been in existence and/or operation for the full five year compliance period? YES
-) Has there been a (known) change in ownership/operator of the site during the compliance period? NO
-) If YES for #2, who is the current owner/operator? N/A
-) If YES for #2, who was/were the prior owner(s)/operator(s)? N/A
-) If YES, when did the change(s) in owner or operator occur? N/A

Components (Multimedia) for the Site Are Listed in Sections A - J

A. Final Orders, court judgments, and consent decrees:
N/A

B. Criminal convictions:
N/A

C. Chronic excessive emissions events:
N/A

D. The approval dates of investigations (CCEDS Inv. Track. No.):

Item 1	May 29, 2009	(745878)
Item 2	September 13, 2012	(1030754)

Written notices of violations (NOV) (CCEDS Inv. Track. No.):

A notice of violation represents a written allegation of a violation of a specific regulatory requirement from the commission to a regulated entity. A notice of violation is not a final enforcement action, nor proof that a violation has actually occurred.

N/A

Environmental audits:

N/A

Type of environmental management systems (EMSs):

N/A

Voluntary on-site compliance assessment dates:

N/A

Participation in a voluntary pollution reduction program:

N/A

Early compliance:

N/A

tes Outside of Texas:

N/A



Notification of Completion/Phase of Wastewater Treatment Facility

If you have questions about completing this form please contact the
Applications Review and Processing Team at 512/239-4671.

Permit / Registration Information

1. TCEQ Water Quality Permit/Registration No.? WQ0005093000
2. EPA ID No.? TX N/A
3. Current Name on Permit/Registration: City of Lubbock
4. If construction is complete, please indicate the date the facility will begin operating (Active).

Month/Day/Year: 08/01/2012

5. If the operation is changing phases, please indicate under which phase the facility will be operating and the date operation began: (check one):

Phase	Date (Month/Day/Year)
Interim-Permitted Flow	
Interim II -Permitted Flow	
Interim III-Permitted Flow	
Final Phase -Permitted Flow	Permitted Flow: 0.012 MGD Date 08/01/2012

6. Comments : _____

Responsible Official

(Please refer to 30 TAC §305.44 for signatory requirements)

I, R. Keith Smith, P.E. Title: Director of Public Works
(Printed Name) (An executive official)

certify that I am authorized under 30 Texas Administrative Code §305.44 to sign this document and can provide documentation in proof of such authorization upon request.

Signature R. Keith Smith Date 7-22-2014

E-mail Address: ksmith@mail.ci.lubbock.tx.us

Fax completed form to: (512) 239-0884

Mail completed form to: Texas Commission on Environmental Quality
Applications Review and Processing Team (MC-148)
PO Box 13087
Austin TX 78711-3087

Instructions

Permit / Registration Information

1. Please insert your permit number WQoo#####. If you are unsure of your number you can search for it at <http://www12.tceq.state.tx.us/crpub/index.cfm?fuseaction=home.welcome> by either the customer (CN) or Regulated Entity (RN). A list of all permitted sites will show in the search window for the customer or site.
2. EPA ID Number: This number is assigned to Texas Pollutant **Discharge** Permits (TPDES) only. The number can be found on the top right-hand corner of your issued permit. You can also search for the number at the following address. It will be listed with the permit.
<http://www12.tceq.state.tx.us/crpub/index.cfm?fuseaction=home.welcome>.
3. Current Name on Permit/ Registration: Please list the current permittee. This information can be found on the first page of your permit.
4. Estimated or Actual Date of Operation (Month/Day/Year): Please put the date that this phase will be in effect, or has taken affect if in the past.
5. Phase of Operation: Please indicate the phase you will be operating under with the submission of this form. Please indicate the correct permitted flow amount for this phase.

Responsible Official

3. Signature

**30 Texas Administrative Code
§305.44. Signatories to Applications.**

(a) All applications shall be signed as follows.

(1) For a corporation, the application shall be signed by a responsible corporate officer. For purposes of this paragraph, a responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign

documents has been assigned or delegated to the manager in accordance with corporate procedures. Corporate procedures governing authority to sign permit or post-closure order applications may provide for assignment or delegation to applicable corporate positions rather than to specific individuals.

(2) For a partnership or sole proprietorship, the application shall be signed by a general partner or the proprietor, respectively.

(3) For a municipality, state, federal, or other public agency, the application shall be signed by either a principal executive officer or a ranking elected official. For purposes of this paragraph, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrator of the EPA).



TCEQ PERMIT NO. WQ0005093000

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
P.O. Box 13087
Austin, Texas 78711-3087

PERMIT TO DISPOSE OF WASTES
under provisions of
Chapter 26 of the Texas Water Code

I. Name of Permittee:

A. Name: City of Lubbock
B. Address: P.O. Box 2000, Lubbock, Texas 79457

II. Nature of Business Producing Waste:

The City of Lubbock South Water Treatment Plant (SIC 4941)

III. General Description and Location of Waste Disposal System:

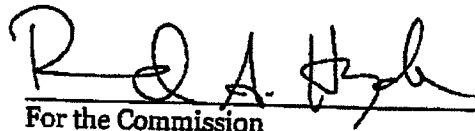
Description: The Lubbock Water Treatment Plant wastewater consists of Microfiltration/Ultrafiltration (MF/UF) wastewater; turbidimeter wastewater; and wastewater from chemical feed containment area drains, lab sinks, overflows from chemical storage, membrane room floor drains, various other floor drains, mechanical room condensate drain, and buried valve vault drains. The water treatment wastewaters will be routed to one of two identical evaporation ponds that together total a minimum surface area of 8.30 acres and a minimum storage capacity of 43 acre-feet (14.0 million gallons) for disposal.

Location: The facility and disposal site are located at 5114 East Farm-to-Market Road 1585, Lubbock, Lubbock County, Texas 79423.

Drainage Basin: The facility and disposal site are located in the drainage area of Double Mountain Fork Brazos River in Segment No. 1241 of the Brazos River Basin. No discharge of pollutants into water in the state is authorized by this permit.

This permit shall expire at midnight on March 1, 2024.

ISSUED DATE: June 9, 2014


For the Commission

IV. CONDITIONS OF THE PERMIT:

Character: City of Lubbock Water Treatment Plant wastewater.

Volume: At a daily average flow not to exceed 0.012 million gallons per day (MGD).

Quality: All wastewater shall be routed to the evaporation ponds. The wastewater shall be sampled prior to entering an evaporation pond. Effluent quality routed to the pond shall meet the following limitations:

<u>Parameter</u>	<u>Daily Average</u>	<u>Daily Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow	0.012 MGD	Report MGD	1/month	Estimate
Total Dissolved Solids	N/A	Report mg/L	1/month	Grab
pH	Between 6.0 and 9.0 standard units		1/month	Grab

Results from the analyses must be retained on site for five years and must be made available for inspection by authorized representatives of the Texas Commission on Environmental Quality (TCEQ). This data must be submitted to the Enforcement Division (MC 224), Industrial Permits Team (MC 148) of the Water Quality Division, and the Regional Office (Region 2) of the TCEQ during the month of September each calendar year.

V. SPECIAL PROVISIONS:

- A. Grab sample quality means the quality determined by measuring the concentration in milligrams per liter, parts per million or other appropriate units of measurement in a single grab sample of the defined waste.
- B. All wastewater evaporation ponds shall be lined in compliance with one of the following requirements:
- (1) Soil Liner: The soil liner shall contain clay-rich soil material (at least 30% of the liner material passing through a #200 mesh sieve, liquid limit greater than or equal to 30, and plasticity index greater than or equal to 15) along the sides and bottom of the pond. The liner material shall be compacted in lifts of no more than 8 inches to 95% standard proctor density at the optimum moisture content in accordance with ASTM D 698 to achieve a permeability equal to or less than 1×10^{-7} cm/sec. The liner shall be a minimum thickness of 2.0 feet for water depths less than or equal to 8.0 feet and a minimum thickness of 3.0 feet for water depths greater than 8.0 feet.
 - (2) Synthetic/Plastic/Rubber Liner: The liner shall be either a plastic or rubber membrane liner at least 40 mils in thickness which completely covers the sides and the bottom of the pond and which is not subject to degradation due to reaction with wastewater with which it will come into contact. If this lining material is vulnerable to ozone or ultraviolet deterioration it shall be covered with a protective layer of soil of at least six inches. A wastewater pond with a membrane liner must include an underdrain with a leachate detection and collection system.
 - (3) Alternate Liner: The permittee shall submit plans for any other pond lining method. Pond liner plans must be approved in writing by the Executive Director of the TCEQ prior to pond construction.

The permittee shall provide certification, signed and sealed by a Texas licensed professional engineer, that the completed pond lining and any required underdrain with leachate detection and collection system for the pond meet one of the above requirements (1, 2, or 3) prior to utilization of the facilities. The certification shall be provided to the TCEQ Water Quality Assessment Team (MC-150), the Compliance Monitoring Section (MC-224), and the TCEQ Regional Office (Region 2). A copy of the liner certification shall be kept on-site for future reference. Also, liner and any underdrain construction details (i.e., as-built drawings) for the evaporation pond shall be provided to the TCEQ Water Quality Assessment Team (MC-150), the Enforcement Division (MC-224), and to the TCEQ Regional Office (Region 2) upon construction completion.

- C. The permittee shall notify the TCEQ Region 2 Office upon completion of construction of any pond and at least a week prior to its use.
- D. The permittee shall maintain a minimum two foot freeboard for all wastewater ponds.
- E. At least once per month, the permittee shall inspect any pond leak detection systems that are in service. Leaking ponds shall be removed from service either until repairs are made or replacement ponds are constructed.
- F. The liner shall be recertified by a Texas-licensed professional engineer ensuring that the liner for the evaporation pond meets the above requirements each time the liner undergoes repair, or each time sediments are cleaned from the pond. Within 45 days of completion of repair or cleaning, liner certifications should be provided to the TCEQ Water Quality Assessment Team (MC-150), the Enforcement Division (MC-224), and to the TCEQ Regional Office (Region 2). A copy of the liner certification shall be kept on-site for future reference.
- G. All wastewater evaporation ponds shall be located a minimum horizontal distance of 150 feet from a private water well; and a minimum horizontal distance of 500 feet from a public water well, spring, or other similar sources of public drinking water.
- H. There shall be no discharge of domestic wastewater. Domestic wastewater shall be routed to an approved septic system and drainfield system, or routed and disposed of through other authorized means.
- I. The permittee shall notify the Executive Director in writing, at least 90 days prior to discontinuing use of any surface impoundment, pit, or basin authorized by this permit. The permittee shall, at the request of the Executive Director, submit such information as is necessary to evaluate closure of the waste management units including, but not limited to, chemical analysis of bottom sediments, soils, and groundwater samples.
- J. Adequate signs shall be erected and maintained stating that the evaporation pond water is from a non-potable water supply. Said signs shall consist of a red slash superimposed over the international symbol for drinking water accompanied by the message "Do not drink the water", in both English and Spanish.
- K. Reporting requirements pursuant to 30 TAC Sections 319.1-319.11 and any additional effluent reporting requirements contained in the permit are suspended from the effective date of the permit until plant start-up or discharge, whichever comes first, from the facility described by this permit. The permittee shall provide written notice to the TCEQ Regional Office (MC R 14), and the Applications Review and Processing Team (MC-148) of the Water Quality Division at least 45 days prior to plant startup or anticipated discharge, whichever occurs first and prior to completion of each additional phase on Notification of Completion Form 20007.

L. PERMIT EXPIRATION AND APPLICATION FOR RENEWAL

Except as provided below, the expiration of this permit occurs at midnight between February 29, 2024 and March 1, 2024.

In accordance with 30 TAC 305.65(a), the permittee shall submit an application for permit renewal a minimum of 180 days before the expiration date specified on the cover page of this permit, except when written permission for a later date has been granted by the Executive Director. Under no circumstances will an initial application for renewal be accepted on or after March 1, 2024.

In accordance with 30 TAC 305.65(a)(4), if renewal procedures have been initiated before the permit expiration date (i.e., on or before February 29, 2024), the existing permit will remain in full force and effect and will not expire until Commission action on the application for renewal is final.

- M. Wastewater routed to the evaporation ponds shall be sampled and analyzed as directed below for those parameters listed in Table 1 of Attachment A of this permit. Analysis is required for all pollutants. Wastewater shall be sampled and analyzed for those parameters listed in Table 1 for a minimum of two separate sampling events which are a minimum of one week apart. Samples submitted with the application representative of the discharge to the evaporation pond may be included as one of the required samples.

Analytical testing shall be completed within 60 days of initial discharge. Results of the analytical testing shall be submitted within 90 days of initial discharge to the TCEQ's Industrial Permits Team (MC-148). Based on a technical review of the submitted analytical results, an amendment may be initiated by TCEQ staff to include additional effluent limitations, monitoring requirements, or both.

Table 1

Attachment A

Outfall No.: 001	<input type="checkbox"/> C <input type="checkbox"/> G *	Effluent Concentration (mg/L)				
Pollutants		Samp.	Samp.	Samp.	Samp.	Average
BOD (5-day)						
CBOD (5-day)						
Chemical Oxygen Demand						
Total Organic Carbon						
Ammonia Nitrogen						
Total Suspended Solids						
Nitrate Nitrogen						
Total Organic Nitrogen						
Total Phosphorus						
Oil and Grease						
Total Residual Chlorine						
Total Dissolved Solids						
Sulfate						
Chloride						
Fluoride						
Specific Conductance (mmhos/cm)						
pH (Standard Units; min/max)						

	Effluent Concentration (µg/L)					MAL (µg/L)
Total Aluminum						30
Total Antimony						30
Total Arsenic						10
Total Barium						10
Total Beryllium						5
Total Boron						1
Total Cadmium						10
Total Chromium						N/A
Trivalent Chromium						10
Hexavalent Chromium						10
Total Copper						20
Cyanide						5
Total Lead						0.2
Total Mercury						10
Total Nickel						10
Total Selenium						2.0
Total Silver						10
Total Thallium						5
Total Zinc						

* Sample type: C for composite or G for grab.

VI. STANDARD PERMIT CONDITIONS

This permit is granted in accordance with the Texas Water Code (TWC) and the rules and other Orders of the Commission and the laws of the State of Texas.

DEFINITIONS

All definitions in Section 26.001 of the TWC and Title 30 of the Texas Administrative Code (TAC) Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

1. Flow Measurements

- a. **Daily average flow** - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.
- b. **Annual average flow** - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with a 1 million gallons per day or greater permitted flow.
- c. **Instantaneous flow** - the measured flow during the minimum time required to interpret the flow measuring device.
- d. **Daily maximum flow** means the highest total flow for any 24-hour period in a calendar month.

2. Concentration Measurements

- a. **Daily average concentration** - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
 - i. **For domestic wastewater treatment plants** - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.
 - ii. **For all other wastewater treatment plants** - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
- b. **7-day average concentration** - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
- c. **Daily maximum concentration** - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.

3. Sample Type

- a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9 (b).
 - b. Grab sample - an individual sample collected in less than 15 minutes.
4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.
 5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids which have not been classified as hazardous waste separated from wastewater by unit processes.
 6. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING REQUIREMENTS

1. Monitoring Requirements

Monitoring results shall be collected at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling in accordance with 30 TAC §§319.4 - 319.12.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the TWC, Chapters 26, 27, and 28, and Texas Health and Safety Code (THSC), Chapter 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record or other document submitted or required to be maintained under this permit, including monitoring reports, records or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

2. Test Procedures

- a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§319.11 - 319.12. Measurements, tests and calculations shall be accurately accomplished in a representative manner.
- b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

3. Records of Results

- a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.
- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, and records of all data used to complete the application for this permit shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample measurement, report, or application. This period shall be extended at the request of the Executive Director.
- c. Records of monitoring activities shall include the following:
 - i. date, time and place of sample or measurement;
 - ii. identity of individual who collected the sample or made the measurement;
 - iii. date and time of analysis;
 - iv. identity of the individual and laboratory who performed the analysis;
 - v. the technique or method of analysis; and
 - vi. the results of the analysis or measurement and quality assurance/quality control records.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in determining compliance with permit requirements.

5. Calibration of Instruments

All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site and shall be readily available for review by a TCEQ representative for a period of three years.

6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the Regional Office and the Enforcement Division (MC 224).

7. Noncompliance Notification

- a. In accordance with 30 TAC §305.125(9), any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
 - b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
 - i. unauthorized discharges as defined in Permit Condition 2(g); or
 - ii. any unanticipated bypass which exceeds any effluent limitation in the permit.
 - c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
 - d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible.
8. In accordance with the procedures described in 30 TAC §§35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.
9. Changes in Discharges of Toxic Substances

All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Regional Office, orally or by facsimile transmission within 24 hours, and both the Regional Office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - i. one hundred micrograms per liter (100 µg/L);
 - ii. two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - iii. five (5) times the maximum concentration value reported for that pollutant in the permit application; or
 - iv. the level established by the TCEQ.

- b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - i. five hundred micrograms per liter (500 µg/L);
 - ii. one milligram per liter (1 mg/L) for antimony;
 - iii. ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
 - iv. the level established by the TCEQ.

10. Signatories to Reports

All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC §305.128 (relating to Signatories to Reports).

PERMIT CONDITIONS

1. General

- a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.
- b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:
 - i. violation of any terms or conditions of this permit;
 - ii. obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
 - iii. a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

- a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.
- b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the TWC or the THSC, and is grounds for enforcement action, for permit amendment, revocation or suspension, or for denial of a permit renewal application or an application for a permit for another facility.

- c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
 - d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation which has a reasonable likelihood of adversely affecting human health or the environment.
 - e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.
 - f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§305.62 and 305.66 and TWC Section 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
 - g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Special Provisions section of this permit.
 - h. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under TWC §§7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties).
3. Inspections and Entry
- a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC Chapter 361.
 - b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC Section 7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

4. Permit Amendment with or without Renewal

- a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:
 - i. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring Requirements No. 9; or
 - ii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.
- c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.
- d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.
- e. In accordance with the TWC §26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.

5. Permit Transfer

- a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.
- b. A permit may be transferred only according to the provisions of 30 TAC §305.64 (relating to Transfer of Permits) and 30 TAC §50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

This permit does not authorize any activity of hazardous waste storage, processing, or disposal which requires a permit or other authorization pursuant to the THSC.

7. Property Rights

A permit does not convey any property rights of any sort, or any exclusive privilege.

8. Permit Enforceability

The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

9. Relationship to Permit Application

The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

10. Notice of Bankruptcy.

a. Each permittee shall notify the executive director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:

- i. the permittee;
- ii. an entity (as that term is defined in 11 USC, §101(15)) controlling the permittee or listing the permit or permittee as property of the estate; or
- iii. an affiliate (as that term is defined in 11 USC, §101(2)) of the permittee.

b. This notification must indicate:

- i. the name of the permittee;
- ii. the permit number(s);
- iii. the bankruptcy court in which the petition for bankruptcy was filed; and
- iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.
2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with

all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge use and disposal and 30 TAC §§319.21 - 319.29 concerning the discharge of certain hazardous metals.

3. Domestic wastewater treatment facilities shall comply with the following provisions:
 - a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
 - b. The permittee shall submit a closure plan for review and approval to the Land Applications Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment or other treatment unit regulated by this permit.
4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, or retention of inadequately treated wastewater.
5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC §7.302(b)(6).
7. Documentation

For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information specified as not confidential in 30 TAC §1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

8. Facilities which generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.
 - a. Whenever flow measurements for any domestic sewage treatment facility reach 75 percent of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion or upgrading of the domestic wastewater treatment or collection facilities. Whenever the flow reaches 90 percent of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment or collection facilities.

In the case of a domestic wastewater treatment facility which reaches 75 percent of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

If in the judgment of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 149) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

- b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission, and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.
 - c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.
9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
 10. Facilities which generate industrial solid waste as defined in 30 TAC §335.1 shall comply with these provisions:
 - a. Any solid waste, as defined in 30 TAC §335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
 - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.

- c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC §335.8(b)(1), to the Environmental Cleanup Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
 - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC §335.5.
 - e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.
 - f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:
 - i. volume of waste and date(s) generated from treatment process;
 - ii. volume of waste disposed of on-site or shipped off-site;
 - iii. date(s) of disposal;
 - iv. identity of hauler or transporter;
 - v. location of disposal site; and
 - vi. method of final disposal.
- The above records shall be maintained on a monthly basis. The records shall be retained at the facility site, or shall be readily available for review by authorized representatives of the TCEQ for at least five years.
- 11. For industrial facilities to which the requirements of 30 TAC Chapter 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with Chapter 361 of the THSC.

TCEQ Revision 06/2008

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

August 22, 2014

CERTIFIED MAIL 7012 1640 0001 7267 1971
RETURN RECEIPT REQUESTED

The Honorable Glen Robertson, Mayor
City of Lubbock
P.O. Box 2000
Lubbock, Texas 79457

Re: Notice of Violation for the Comprehensive Compliance Investigation at:
City of Lubbock Southeast Water Reclamation Plant, Lubbock (Lubbock County) Texas
RN101609949, TCEQ ID No.: WQ0010353002, Investigation No. 1185265,

Dear Mayor Robertson:

On July 17-23, 2014, Mr. Joseph Hopkins, P.G., of the Texas Commission on Environmental Quality (TCEQ) Lubbock Regional Office conducted an investigation of the above-referenced facility to evaluate compliance with applicable requirements for wastewater treatment. Enclosed is a summary which lists the investigation findings. During the investigation, certain outstanding alleged violations were identified for which compliance documentation is required. Please submit to this office by November 21, 2014 a written description of corrective action taken and the required documentation demonstrating that compliance has been achieved for the outstanding alleged violations. Two Additional Issues were also noted during the investigation, which are included in the attached Summary of Investigation Findings.

In the listing of the alleged violations, we have cited applicable requirements, including TCEQ rules. Please note that both the rules themselves and the agency brochure entitled *Obtaining TCEQ Rules* (GI 032) are located on our agency website at <http://www.tceq.state.tx.us> for your reference. If you would like a hard copy of this brochure mailed to you, you may call and request one from either the Lubbock Region Office at (806) 796-7092 or the Central Office Publications Ordering Team at (512) 239-0028. Copies of applicable federal regulations may be obtained by calling Environmental Protection Agency's Publications at (800) 490-9198.

The TCEQ appreciates your assistance in this matter. Please note that the Legislature has granted TCEQ enforcement powers which we may exercise to ensure compliance with environmental regulatory requirements. We anticipate that you will resolve the alleged violations as required in order to protect the State's environment. If you have additional information that we are unaware of, you have the opportunity to contest the violation(s) documented in this notice. Should you choose to do so, you must notify the Lubbock Regional Office within 10 days from the date of this letter. At that time, Gary Shipp, Water Section Manager, will schedule a violation review meeting to be conducted *within 21 days from the date of this letter*. However, please be advised that if you decide to participate in the violation review process, the TCEQ may still require you to adhere to the compliance schedule included in the

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The Honorable Glen Robertson, Mayor
August 22, 2014
Page 2

attached Summary of Investigation Findings until an official decision is made regarding the status of any or all of the contested violations.

If you or members of your staff have any questions, please feel free to contact Mr. Joseph Hopkins, P.G., in the Lubbock Regional Office at (806) 796-7092.

Sincerely,



Gary Shipp
Section Manager
Lubbock Region Office

GJS/JLH/beo

Enclosure: Summary of Investigation Findings

cc: Ms. Mary Gonzales, Water Reclamation Superintendent, 3603 E. Guava St.,
Lubbock, Texas 79457

Summary of Investigation Findings

SOUTHEAST WATER RECLAMATION PLANT

3603 E GUAVA ST

LUBBOCK, LUBBOCK COUNTY, TX 79457

Investigation # 1185265

Investigation Date: 07/17/2014

Additional ID(s): WQ0010353002

OUTSTANDING ALLEGED VIOLATION(S) ASSOCIATED TO A NOTICE OF VIOLATION

Track No: 545726

Compliance Due Date: 11/21/2014

30 TAC Chapter 305.125(1)

PERMIT WQ0010353002, Operational Requirement 1.

The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained.

Alleged Violation:

Investigation: 1185265

Comment Date: 08/15/2014

Failure to maintain the irrigation reservoirs at the Hancock Land Application Site (HLAS) regarding trees along the inside of the pond berms, as required by Operational Requirement 1 of Permit No. WQ0010353002. Numerous trees were noted growing inside the pond berms at the irrigation reservoirs at the HLAS, potentially compromising the structural integrity of any clay liner that is in place.

Recommended Corrective Action: Remove the woody vegetation (trees) from the pond areas and repair any and all damage to the storage reservoirs and clay liner. Conduct an appropriate evaluation to determine if any damage to the clay liners has occurred. If the integrity of the clay liner of the ponds is compromised or if repairs or alterations to the liner occur, a certification from a licensed Professional Engineer (P.E.) that any completed repairs of the liner meet applicable clay liner standards contained within Permit No. WQ0010353002 and all applicable regulatory standards must be submitted. Documentation describing this corrective action is to be submitted to the TCEQ Region 2 Office at 5012 50th Street, Suite 100, Lubbock, TX 79414.

Track No: 545758

Compliance Due Date: 11/21/2014

30 TAC Chapter 305.125(5)

PERMIT WQ0010353002, Operational Requirement 1.

The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained.

Alleged Violation:

Investigation: 1185265

Comment Date: 08/15/2014

Failure to maintain the secondary clarifiers on Plant 4 regarding corrosion on the baffles, as required by Operational Requirement 1 of Permit No. WQ0010353002. The baffle walls of the secondary clarifiers at Plant 4 of the Southeast Water Reclamation Plant (SEWRP) were observed to be corroded to the extent that holes were visible in the baffle.

Recommended Corrective Action: Repair the clarifiers in order to achieve optimum efficiency of treatment capability. Documentation describing the corrective action, including supporting documentation and photographs of the repaired clarifiers, is to be submitted to the TCEQ Region 2 Office at 5012 50th Street, Suite 100, Lubbock, TX 79414.

Track No: 545760

Compliance Due Date: 11/21/2014

30 TAC Chapter 305.125(5)

PERMIT WQ0010353002, Operational Requirement 1.

The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained.

Alleged Violation:

Investigation: 1185265

Comment Date: 08/15/2014

Failure to maintain the sludge drying beds (waste management units) at the Southeast Water Reclamation Plant (SEWRP), as required by Operational Requirement 1 of Permit No. WQ0010353002. The sludge drying beds and the leachate collection for the sludge drying beds were noted to be in significant disrepair. It was indeterminate if leachate collection from these sludge drying beds is routed to the headworks of the treatment facility.

Recommended Corrective Action: Repair the sludge drying beds in order to achieve optimum efficiency of treatment capability and ensure no sewage or waste material is discharged into or adjacent to waters of the state or permanently take these units out of service and conduct the required closure requirements. If the City of Lubbock elects to repair the waste management units, a certification from a Texas registered Professional Engineer indicating the repairs meet all applicable design standards should be provided. If the City of Lubbock elects to permanently take these waste management units out of service, a closure plan is required to be submitted for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity, as specified in Operational Requirement 3.b. of Permit No. WQ0010353002. Documentation describing the elected corrective action, including supporting documentation, is to be submitted to the TCEQ Region 2 Office at 5012 50th Street, Suite 100, Lubbock, TX 79414.

Track No: 545761 Compliance Due Date: 11/21/2014

30 TAC Chapter 305.125(5)

TWC Chapter 26.121

PERMIT WQ0010353002, Permit Conditions 2.g.

There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.

Alleged Violation:

Investigation: 1185265

Comment Date: 08/15/2014

Failure to prevent sanitary sewer overflows of untreated municipal sewage, as prohibited by the Texas Water Code Chapter 26.121 and Provision 2.g. of Permit No. WQ0010353002. At least 75 separate Water Quality Noncompliance Notifications were noted to have been submitted during this investigation detailing various unauthorized discharges of municipal sewage in various points within the collection system since the previous Comprehensive Compliance Investigation conducted on September 26-27, 2011. These reported discharges are collectively noted as an alleged violation.

Recommended Corrective Action: Conduct an internal assessment for the various reasons for the unauthorized discharges and conduct the appropriate corrective actions to minimize the number and/or volumes of future sanitary sewer overflows. Documentation demonstrating these actions is to be submitted to the TCEQ Region 2 Office at 5012 50th Street, Suite 100, Lubbock, TX 79414.

Track No: 545765 Compliance Due Date: 11/21/2014

30 TAC Chapter 305.125(9)

PERMIT WQ0010353002, Monitoring and Reporting Requirement 7.a

In accordance with 30 TAC Chapter 305.125(9) any noncompliance which may endanger human health or safety, or the environment, shall be reported by the permittee to the TCEQ. Report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five work

Alleged Violation:

Investigation: 1185265

Comment Date: 08/20/2014

Failure to provide "Noncompliance Notifications" of multiple sanitary sewer overflows within 24 hours, as required by Monitoring and Reporting Requirement 7.a. of Permit No. WQ0010353002. At least 23 separate discharges of untreated or inadequately treated wastewater were noted to have been reported over 24 hours from the end date of the

noncompliance events. This includes the following events that were reported at least five days after their duration: a discharge of approximately 70 gallons of sewage from a city main blockage at 1508 E. 27th on October 26, 2011 that was reported on October 31, 2011; a discharge of approximately 20 gallons of sewage from a manhole at 1901 E. Brown on October 26, 2011 that was reported on November 4, 2011; a discharge of approximately 100 gallons of sewage from a manhole at 5020 50th on March 2, 2012 that was reported on March 7, 2012; a discharge of approximately 5-20 gallons of sewage from a manhole at 5436 15th on January 31, 2013 that was reported on February 5, 2013; and a discharge of approximately 20 gallons of sewage from a manhole at Salem & 71st on July 1, 2014 that was reported on July 9, 2014.

Recommended Corrective Action: Update policies and/or procedures and conduct the appropriate employee training to ensure that any noncompliance that may endanger human health or safety or the environment, shall be reported by the permittee to the TCEQ in accordance with Monitoring and Reporting Requirement 7.a. of Permit No. WQ0010353002. This documentation is to be submitted to the TCEQ Region 2 Office at 5012 50th Street, Suite 100, Lubbock, TX 79414.

Track No: 545766

Compliance Due Date: 11/21/2014

30 TAC Chapter 305.125(1)

PERMIT WQ0010353002, Monitoring Requirement 5.

All automatic flow measuring or recording devices and all totalizing meters used for measuring flows shall be accurately calibrated by a trained person at start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually to ensure accuracy. Such person shall verify in writing that the device is operating properly and giving accurate results.

Alleged Violation:

Investigation: 1185265

Comment Date: 08/15/2014

Failure to calibrate/verify the automatic flow measuring devices at least annually, as required by Monitoring Requirement 5 of Permit No. WQ0010353002. Multiple flow meters are utilized to measure flows to individual tracts or plots at the land application areas. No calibration/verification documentation was available for review for any of these meters, upon request.

Recommended Corrective Action: All automatic flow measuring or recording devices and all totalizing flow meters used for measuring flows shall be accurately calibrated by a trained person at start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually. Accurately calibrate all flow meters used to measure irrigation flow to the land application areas and submit calibration/verification information for each meter. This documentation is to be submitted to the TCEQ Region 2 Office at 5012 50th Street, Suite 100, Lubbock, TX 79414.

Track No: 545767

Compliance Due Date: To Be Determined

30 TAC Chapter 305.125(1)

PERMIT WQ0010353002, Effluent Limitations

Discharge limitations at Outfall 001 for BOD are 10 mg/l daily average, 15 mg/l 7-day average, 25 mg/l daily max, and 35 mg/l single grab. Discharge limitations at Outfall 001 for TSS are 15 mg/l daily average, 25 mg/l 7-day average, 40 mg/l daily max, and 60 mg/l single grab. Discharge limitations at Outfall 001 for E. coli are 126 CFU or MPN/100 ml daily max and 399 CFU or MPN/100 ml. Discharge limitations at Outfall 003 for BOD are 70 mg/l daily max.

Alleged Violation:

Investigation: 1185265

Comment Date: 08/15/2014

Failure to meet effluent quality requirements, as required by Effluent Limitations of Permit No. WQ0010353002. The City of Lubbock was determined to fulfill the requirements of Enforcement Case No. 38791, Agreed Order Docket No. 2009-1973-MLM-E, effective on June 26, 2010. During the file review portion of this investigation regarding self-reported effluent quality after June 26, 2010, it was noted that numerous occasions of the self-reported BOD, TSS, and E. coli effluent quality analytical results values were above the permitted allowable for single, daily, weekly and / or monthly values at Outfall 001, Outfall 002 and

Outfall 003. Some of the most recent significant exceedences (more than 40% over the permitted limit) include, but are not limited to: 117 mg/l for daily BOD at Outfall 002 on January 16, 2014; 102 mg/l for daily BOD at Outfall 003 on January 15, 2014; 2420 colony forming units (CFU) or most probable number (MPN)/100 ml for daily E. coli on March 3, 2013 at Outfall 001; 19 mg/l for 7 day BOD at Outfall 001 on February 1, 2014; and 112 mg/l for single day TSS at Outfall 001 on January 29, 2014. Self-reported effluent violations may be subject to enforcement, including penalties, upon review by the Enforcement Division.

Recommended Corrective Action: Submit immediately to the Region 2 Office a description of the corrective action that has been taken or is underway to become compliant with the effluent quality permit limits.

Track No: 545768 Compliance Due Date: 11/21/2014

30 TAC Chapter 305.125(1)

PERMIT WQ0010353002, Other Provision 18

Any non-producing well, not incorporated within the water level and sampling monitoring programs, shall be plugged in accordance with 16 TAC Section 76.1004.

Alleged Violation:

Investigation: 1185265

Comment Date: 08/15/2014

Failure to plug a non-producing well, not incorporated within the water level and sampling monitoring programs, in accordance with 16 TAC Section 76.1004, as required by Other Provision 18 of Permit No. WQ0010353002. A non-plugged, non-producing water well was noted southeast of County Road 2900 and County Road 6700 within the Lubbock Land Application Site (LLAS) land application area. This well is not incorporated within the water level and sampling monitoring programs or the groundwater remediation project. This irrigation plot was noted to be row/flood irrigated. It appears that irrigation water is applied within 10 feet of the abandoned wellhead.

Recommended Corrective Action: Plug the non-producing well in accordance with 16 TAC Section 76.1004 or repair the water well for production and properly include the well within the water level and sampling monitoring programs. Documentation demonstrating this action is to be submitted to the TCEQ Region 2 Office at 5012 50th Street, Suite 100, Lubbock, TX 79414. It is suggested that an on-site self-conducted review/inspection of the land application area be performed to identify and subsequently plug any other non-producing wells within the LLAS that are not incorporated within the water level and sampling monitoring programs.

Track No: 545769 Compliance Due Date: 11/21/2014

2D TWC Chapter 26.121(a)

30 TAC Chapter 305.125(1)

PERMIT WQ0010353002, Permit Conditions 2.g.

There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Special Provisions section of this permit.

Alleged Violation:

Investigation: 1185265

Comment Date: 08/15/2014

Failure to prevent unauthorized discharges of untreated domestic sewage / sewage sludge waste material, as prohibited by the Texas Water Code Chapter 26.121 and Permit Condition 2.g. of Permit No. WQ0010353002. Waste material that appears to be domestic sewage and/or sewage sludge was noted on the ground surface between the aeration chamber and primary clarifiers of Plant 4 at the Southeast Water Reclamation Plant (SEWRP). Domestic sewage waste material remnants were also noted on the ground surface at Lift Station #38 and on the ground surface adjacent to a vault at Plant 3 of the SEWRP. None of these discharges were authorized or reported to the TCEQ Region 2 Office.

Recommended Corrective Action: Collect all remaining sewage waste material from the ground surface and properly dispose of the waste material at a TCEQ authorized facility or location. The contaminated ground surfaces should be disinfected, as appropriate. Documentation demonstrating this cleanup and disposal activity is to be submitted to the TCEQ Region 2 Office. Update policies and/or procedures to ensure that all similar future discharges

are minimized or eliminated. Documentation demonstrating this completed activity is to be submitted to the TCEQ Region 2 Office at 5012 50th Street, Suite 100, Lubbock, TX 79414

Track No: 545771 Compliance Due Date: 11/21/2014

30 TAC Chapter 305.125(1)

PERMIT WQ0010353002, Monitoring and Reporting Requirements 7.

Any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance.

PERMIT WQ0010353002, Monitoring & Reporting Requirements 7.b.

Unauthorized discharges as defined in Permit Condition 2(g) shall be reported under Monitoring and Reporting Requirement 7.a.

Alleged Violation:

Investigation: 1185265

Comment Date: 08/15/2014

Failure to provide the required "Noncompliance Notification" for unreported unauthorized discharges of waste material which may endanger human health or safety or the environment, as required by Monitoring and Reporting Requirement 7 of Permit No. WQ0010353002. Water Quality Noncompliance Notifications were not received for unauthorized discharges of untreated domestic sewage / sewage sludge waste material noted on the ground surface at Lift Station #38 and on the ground at Plant 4 and Plant 3 of the Southeast Water Reclamation Plant (SEWRP).

Recommended Corrective Action: Submit the required noncompliance notification for the unauthorized discharges noted on the ground surface at Lift Station #38 and on the ground at Plant 4 and Plant 3 of the SEWRP. Report of such information, including all unauthorized discharges of domestic sewage into or adjacent to waters of the state, shall be provided orally or by fax to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Lubbock Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. Also, submit documentation outlining the steps taken to ensure the proper notification of future unauthorized discharges. Documentation describing this corrective action is to be submitted to the TCEQ Region 2 Office at 5012 50th Street, Suite 100, Lubbock, TX 79414.

Track No: 545773 Compliance Due Date: 11/21/2014

30 TAC Chapter 217.328

Alleged Violation:

Investigation: 1185265

Comment Date: 08/15/2014

Failure to secure the wastewater treatment facility, as required by 30 TAC Chapter 217.328. Access to the Southeast Water Reclamation Plant (SEWRP) was not properly restricted. The SEWRP was not enclosed within an intruder-resistant fence, as required. Portions of the perimeter fence were noted to be removed and portions of the perimeter fence were noted to be missing the top three strands of barbed-wire.

Recommended Corrective Action: The wastewater treatment facility shall restrict access by unauthorized persons, in accordance with 30 TAC Chapter 217.328. The facility shall be completely surrounded by an intruder resistant fence with a lockable gate at each access point. The intruder resistant fence shall be at least a six feet high solid material or chain-link fence topped with three strands of barbed-wire or an eight foot solid material or chain-link fence topped with at least one strand of barbed-wire. Each gate shall remain locked when facility personnel are not present at the wastewater treatment facility. Documentation describing how this corrective action has been implemented, including photos of the fencing, shall be submitted. This documentation is to be submitted to the TCEQ Region 2 Office at 5012 50th Street, Suite 100, Lubbock, TX 79414.

Track No: 545774 Compliance Due Date: 11/21/2014

30 TAC Chapter 281.25(a)(4)

PERMIT TXRNEP644, TXR050000, Part II, C.1.(c)(2)

If a facility with a conditional No-Exposure exclusion undergoes any change(s) that result in industrial activities or materials becoming exposed, or if it is found that a facility does not (or no longer) meets the no exposure requirements, then the NEC exclusion that the facility is under ceases to apply.

Alleged Violation:

Investigation: 1185265

Comment Date: 08/16/2014

Failure to maintain appropriate site conditions required for the Conditional No Exposure Exclusion from stormwater permit requirements at the Southeast Water Reclamation Plant (SEWRP) and land application areas Lubbock Land Application Site (LLAS) and Hancock Land Application Site (HLAS), as required in TXR050000, Part II, Section C. 1. (c)(2). At the time of this investigation, multiple site conditions were noted that disqualify the SEWRP from the Conditional No Exposure Exclusion from stormwater permit requirements including, but not limited to, the lack of storm-resistant shelters over many treatment processes, the utilization of re-use water for grounds irrigation, multiple discharges of sewage waste material on the ground surface, open topped dumpsters, and a leaking container of an unknown oily substance on the surface of the sludge drying beds. The application of treated effluent disqualifies the land application areas from a Conditional No Exposure Exclusion from stormwater permit requirements.

Recommended Corrective Action: Update the facility site conditions to meet the Conditional No Exposure Exclusion from stormwater permit requirements or terminate the Conditional No Exposure Exclusion from stormwater permit requirements and obtain the necessary Multi-Sector General Permit for stormwater discharges. According to Section B. 12, a facility that does not discharge stormwater to a Municipal Separate Storm Sewer System (MS4) nor to surface water in the state may not be required to obtain coverage under the general permit if it is demonstrated that no discharges have occurred nor will occur in the future. In order to demonstrate this, engineering calculations or similar methods are required indicating that the facility will not discharge stormwater associated with the industrial activity. Stormwater discharges from sites where wastewater or sludge is land applied is not required to be permitted provided that the disposal site is properly permitted by the TCEQ or EPA, and that stormwater runoff from the disposal site does not contact the wastewater or sludge according to TXR050000, Sector L., Part V, Section L. 3. (c). Documentation demonstrating this corrective action is to be submitted to the TCEQ Region 2 Office at 5012 50th Street, Suite 100, Lubbock, TX 79414.

ADDITIONAL ISSUES**Description**

Aeration basin(s) or tank(s)?

Additional Comments

An aeration system air leak was noted at Plant 3. It appears that the facility was capable of maintaining enough air supply to provide adequate dissolved oxygen at the time of this investigation. The City of Lubbock should consider the repair of this damage prior to it affecting the treatment capability of this treatment process.

ITEM

Ensure that Plant 2 is maintained in order to achieve optimum efficiency of treatment capability as long as it is included as a treatment process within Permit No. WQ0010353002. It was noted that Plant 2 has not been operated in several years with no immediate plans for future use. In accordance with Operational Requirement 3.b. of Permit No. WQ0010353002, a closure plan is required to be submitted and approved by the TCEQ prior to permanently taking a treatment facility out of service.



Mr. Castleberry's Direct Line: (512) 322-5856
Email: bcastleberry@lglawfirm.com

816 Congress Avenue, Suite 1900
Austin, Texas 78701
512.322.5800 p
512.472.0532 f
lglawfirm.com

December 15, 2014

Mr. Gary Shipp
Section Manager
Lubbock Region Office
5012 50th Street, Suite 100
Lubbock, Texas 79414-3426

VIA HAND DELIVERY

Re: Notice of Violation for the Comprehensive Compliance Investigation at:
City of Lubbock Southeast Water Reclamation Plant, Lubbock
Lubbock County, Texas
RN101609949, TCEQ ID No.: WQ0010353002, Investigation No. 1185265

Dear Mr. Shipp:

This letter is submitted on behalf of my client, the City of Lubbock (the "City"), in response to a Notice of Violation ("NOV") we received from the Texas Commission on Environmental Quality (the "Commission") dated August 22, 2014, and in connection with the above-referenced matter. The following responses are numbered in accordance with the violations included in the Commission's August 22, 2014 NOV letter.

Track No. 545726:

Failure to maintain the irrigation reservoirs at the Hancock Land Application Site (HLAS) regarding trees along the inside of the pond berms, as required by Operational Requirement 1 of Permit No. WQ0010353002. Numerous trees were noted growing inside the pond berms at the irrigation reservoirs at the HLAS, potentially compromising the structural integrity of any clay liner that is in place.

The trees were removed from the ponds and an evaluation was conducted on the clay liner of the ponds. Pictures and the evaluation are provided as Attachment A.

Track No. 545758:

Failure to maintain the secondary clarifiers on Plant 4 regarding corrosion on the baffles, as required by Operational Requirement 1 of Permit No. WQ0010353002. The baffle walls of the secondary clarifiers at Plant 4 of the Southeast Water Reclamation Pond (SEWRP) were observed to be corroded to the extent that holes were visible in the baffle.

Clarifier #1 has been repaired, and Clarifier #2 is scheduled to be repaired by February 17, 2015.

Track No. 545760:

Failure to maintain the sludge drying beds (waste management unites) at the Southeast Water Reclamation Plant (SEWRP), as required by Operational Requirement 1 of Permit No. WQ0010353002. The sludge drying beds and the leachate collection for the sludge drying beds were noted to be in significant disrepair. It was indeterminate if leachate collection from these sludge drying beds is routed to the headworks of the treatment facility.

The City has contracted with Parkhill, Smith, and Cooper, Inc. to provide a closure plan for the sludge drying beds, which includes rehabilitating two of the sludge drying beds and any leachate collection lines and concrete repair that may be needed. The City anticipates having a closure plan by February 17, 2015 and will provide milestone dates of when the specifications are anticipated to be completed, the bid awarded, and for the actual completion of the project.

Track No. 545761:

Failure to prevent sanitary sewer overflows of untreated municipal sewage, as prohibited by the Texas Water Code Chapter 26.121 and Provision 2.g. of Permit No. WQ0010353002. At least 75 separate Water Quality Noncompliance Notifications were noted to have been submitted during this investigation detailing various unauthorized discharges of municipal sewage in various points within the collection system since the previous Comprehensive Compliance Investigation conducted on September 26-27, 2011. These reported discharges are collectively noted as an alleged violation.

On October 28, 2014, the City submitted a Notice of Intent to participate in the Sanitary Sewer Overflow Initiative.

Track No. 545765:

Failure to provide "Noncompliance Notifications" of multiple sanitary sewer overflows within 24 hours, as required by Monitoring and Reporting Requirement 7.a. of Permit No. WQ0010353002. At least 23 separate discharges of untreated or inadequately treated wastewater were noted to have been reported over 24 hours from the end date of the noncompliance events.

This item was noted as "Resolved" in the TCEQ Summary of Investigation Findings sent on October 14, 2014.

Track No. 545766:

Failure to calibrate/verify the automatic flow measuring devices at least annually, as required by Monitoring Requirement 5 of Permit No. WQ0010353002. Multiple flow meters are utilized to measure flows to individual tracts or plots at the land application areas. No calibration/verification documentation was available for review for any of these meters, upon request.

The flow meters at the land application sites have been calibrated, and the certificates of calibration are included as Attachment B.

Track No. 545767:

Failure to meet effluent quality requirements, as required by Effluent Limitations of Permit No. WQ0010353002. The City of Lubbock was determined to fulfill the requirements of Enforcement Case No. 38791, Agreed Order Docket No. 2009-1973-MLM-E, effective on June 26, 2010. During the file review portion of this investigation regarding self-reported effluent quality after June 26, 2010, it was noted that numerous occasions of the self-reported BOD, TSS, and E. Coli effluent quality analytical results values were above the permitted allowable for single, daily, weekly and/or monthly values to Outfall 001, Outfall 002 and Outfall 003.

In 2007 the City Council adopted the City of Lubbock Strategic Water Supply Plan, which included the recommendation to upgrade the Southeast Water Reclamation Plant (SEWRP). The City of Lubbock has divided the upgrade of the SEWRP into four different phases. Phase I is the upgrade of the headworks lift station from using screw pumps to submersible pumps. This Phase was completed in 2008 at a cost of \$3,000,000.

Phase II was the upgrade of Plant 4 which included: the installation of new grit system and fine screens with compact washer at the headworks facility, construction of a new primary clarifier, new secondary clarifier, a new Biological Nutrient Removal (BNR) Integrated Fixed Film Activated Sludge (IFAS) basin, two new single stage blowers and a new multistage blower for the activated sludge process, a new intermediate lift station, new ferric chloride chemical facilities for phosphorus removal, a new Ultraviolet (UV) disinfection facility, a new cloth media filter complex, rehabilitation of two primary and secondary clarifiers, and two retrofitted activated sludge basins to BNR IFAS activated sludge basins. Also in Phase II, an upgrade to Plant 3 was completed with the construction of a new UV disinfection facility and a cloth media filter complex. The final construction cost of these upgrades was \$45,000,000. During the construction of Phase II it was determined that the blower building would need to have more ventilation for the more efficient single stage blowers. The added ventilation project was awarded to a contractor and construction began in October 2012, with substantial completion in March 2013. The cost of this project upgrade was approximately \$271,000.

Phase III of the SEWRP upgrade includes upgrades to the solids handling at the SEWRP. Upgrades to the anaerobic digesters were completed in June of 2013. The cost allocated for this upgrade is \$18,350,000. Improvements to this digester upgrade includes the following: new gas flare piping, new pump and mix system, installation of new boilers, and new sludge line yard work. The City began rehabilitation of the solids handling building on June 1, 2014, which includes the following: thickening improvements, dewatering improvements, sludge holding tank upgrades, solids handling odor control, and headworks odor control. The cost of this project upgrade is approximately \$42,000,000.

Phase IV of the SEWRP includes upgrades to Plant 3 to include the upgrade of the activated sludge basins to BNR and IFAS basins. These improvements will treat the influent wastewater to a high quality standard as well as remove solids in a more efficient manner to meet the City's TCEQ Wastewater Permit Effluent Quality Limits.

Track No. 545768:

Failure to plug a non-producing well, not incorporated within the water level and sampling monitoring programs, in accordance with 16 TAC Section 76.1004, as required by Other Provision 18 of Permit No. WQ0010353002. A non-plugged, non-producing water well was noted southeast of County Road 2900 and County Road 6700 within the Lubbock Land Application Site (LLAS) land application area.

The City is preparing to include this well into the Sampling and Monitoring Program. Documentation of this action will be provided by February 17, 2015.

Track No. 545769:

Failure to prevent unauthorized discharges of untreated domestic sewage/sewage sludge waste material, as prohibited by the Texas Water Code Chapter 26.121 and Permit Condition 2.g. of Permit No. WQ0010353002. Waste material that appears to be domestic sewage and/or sewage sludge was noted on the ground surface between the aeration chamber and primary clarifiers of Plant 4 at the Southeast Water Reclamation Plant (SEWRP).

The City submitted documentation of the cleanup on August 19, 2014. Documentation of the cleanup of Lift Station #38 and Plant 3 is provided as Attachment C.

Track No. 545771:

Failure to provide the required "Noncompliance Notification" for unreported unauthorized discharges of waste material which may endanger human health or safety or the environment, as required by Monitoring and Reporting Requirement 7 of Permit No. WQ0010353002.

Notification of the unauthorized discharges is provided as Attachment D.

Track No. 545773:

Failure to secure the wastewater treatment facility, as required by 30 TAC Chapter 217.328. Access to the Southeast Water Reclamation Plan (SEWRP) was not properly restricted. The SEWRP was not enclosed within an intruder-resistant fence, as required. Portions of the perimeter fence were noted to be removed and portions of the perimeter fence were noted to be missing the top three strands of barbed-wire.

This item was noted as "Resolved" in the TCEQ Summary of Investigation Findings sent on October 14, 2014.

Track No. 545774:

Failure to maintain appropriate site conditions required for the Conditional No Exposure Exclusion from stormwater permit requirements at the Southeast Water Reclamation Plan (SEWRP) and land application areas Lubbock Land Application Site (LLAS) and Hancock Land Application Site (HLAS), as required in TXR050000, Part II, Section C.1.(c)(2).

The City will be filing a Notice of Intent (NOI) for Stormwater Discharges Associated with Industrial Activity under TPDES General Permit (TXR050000) by the end of December 2014. The executed NOI for the SEWRP is provided as Attachment E.

The City appreciates the opportunity to provide this information. Should you have any questions regarding these responses to the Notice of Violation, or this status report, please feel free to call me at your earliest convenience.

Sincerely,

Brad B. Castleberry

BBC/ldp
4548076
ENCLOSURES

cc: Mr. Aubrey Spear
Ms. Mary Gonzalez
Mr. Craig Henderson

ATTACHMENT A



December 5, 2014

Subject: City of Lubbock, TPDES 10353-002 - Evaluation of Clay Liners at HLAS Reservoirs.

In regards to the TCEQ inspection conducted on July 17, 2014, the City of Lubbock has addressed the Alleged Violation (Investigation #1185265, Track #545726) concerning the woody vegetation (salt cedars) around the reservoirs at the Hancock Land Application Site (HLAS). City of Lubbock Farm personnel removed all the woody vegetation on August 5, 2014. The woody vegetation was cut and removed to just below the surface of the reservoir berm. At no time during the removal of the woody vegetation did any damage occur to the clay liner of any of the reservoirs.

A handwritten signature in black ink, appearing to read "Brad Welch".

Brad Welch
Farm Manager

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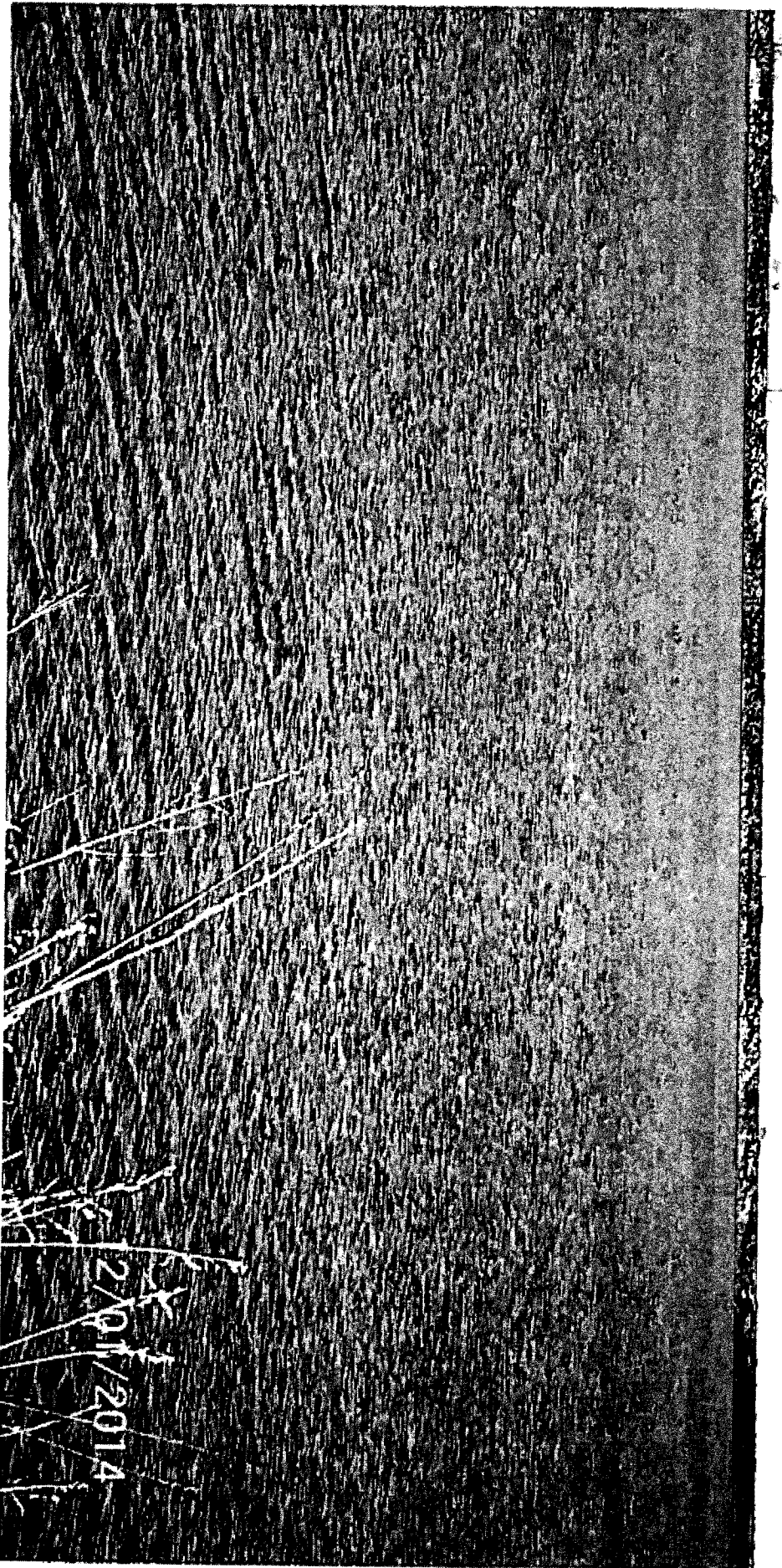
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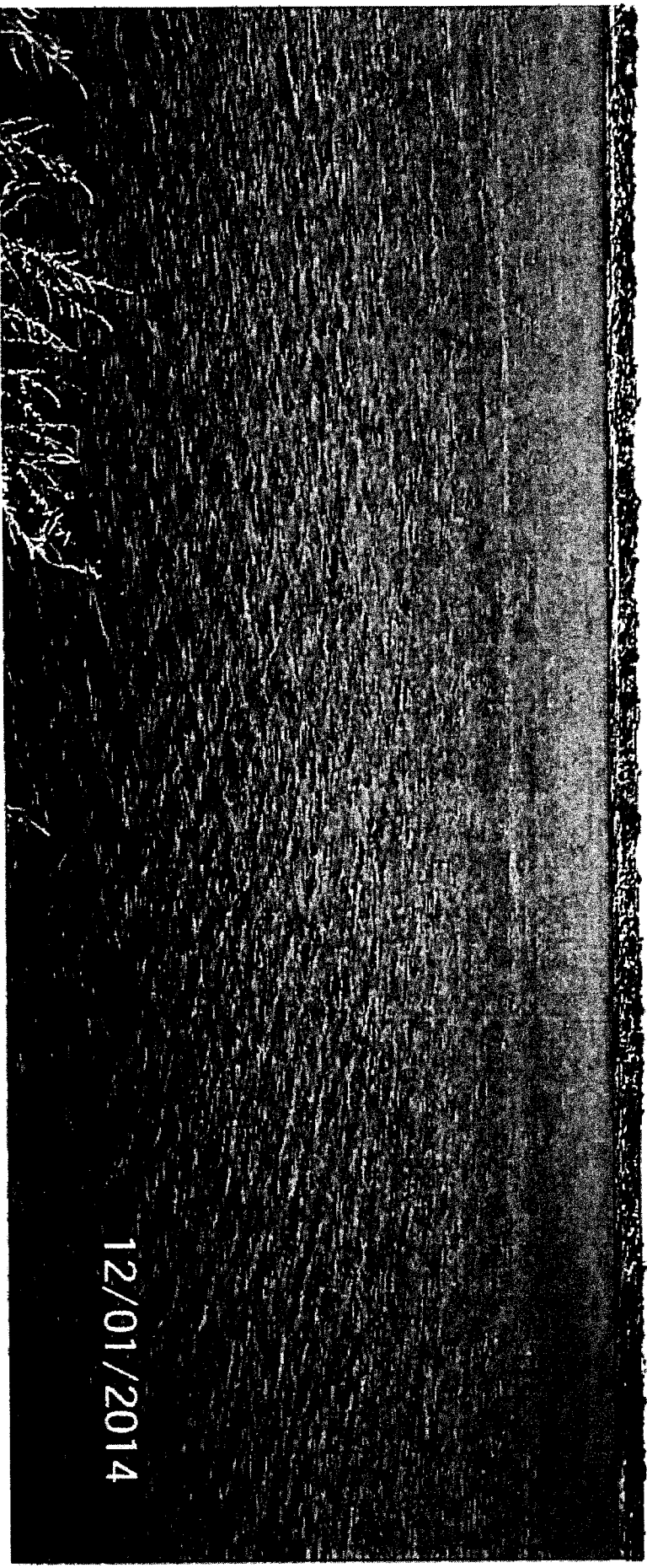
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48. Die Hauptbestandteile des menschlichen Körpers sind Wasser, Proteine, Kohlenhydrate, Lipide und Mineralien. Wasser ist der wichtigste Bestandteil und macht etwa 60% des Körpergewichts aus. Proteine sind für die Struktur und Funktion der Zellen verantwortlich. Kohlenhydrate liefern Energie, Lipide speichern Energie und Mineralien sind für die Regulation von Stoffwechselprozessen wichtig.

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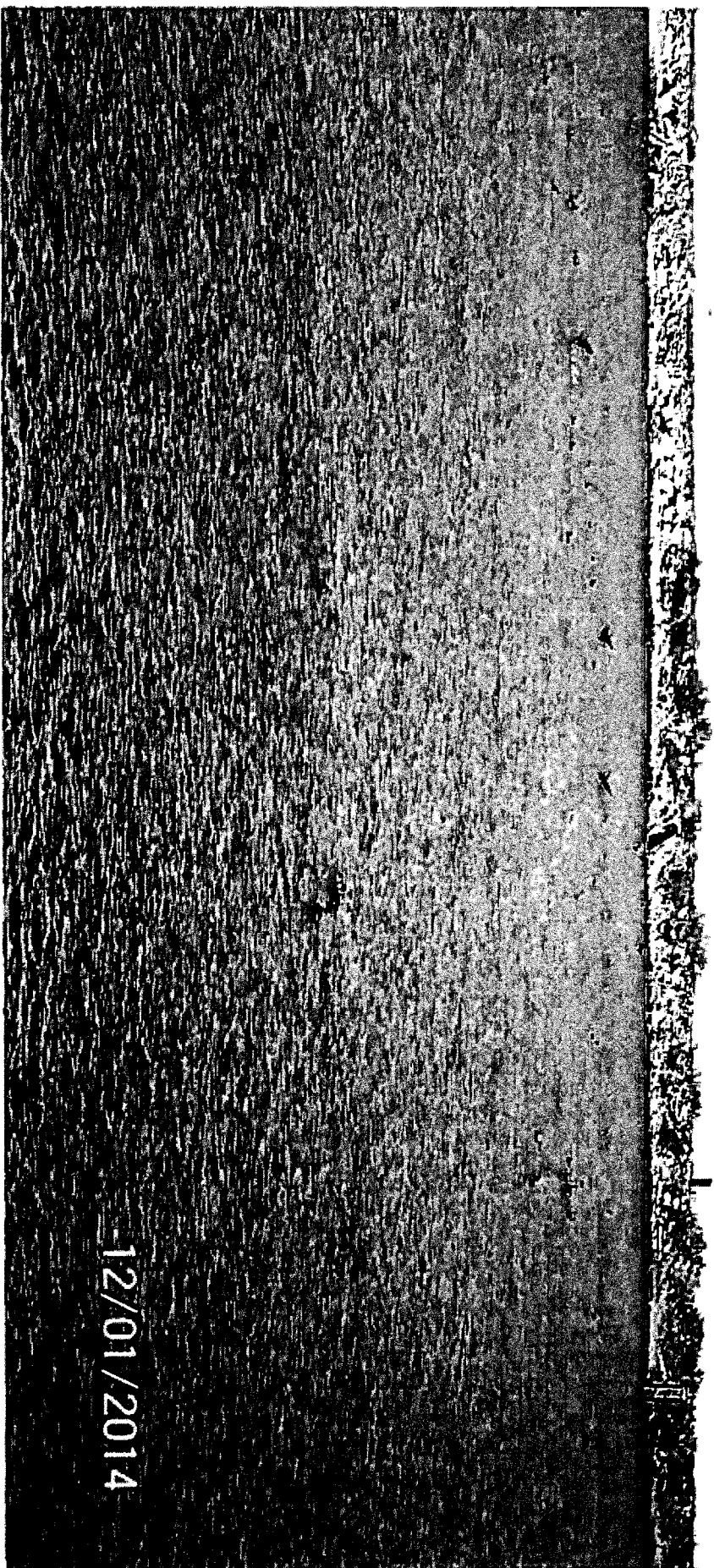
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12/01/2014

Journal of the
American
Medical Association

12/01/2014

ATTACHMENT B

Calibration Information Sheet

Customer EMCO Flow Systems Inc	WO No. C6-029159	Model No. UTM10-SA000	SN 100562
Meter Rev SysData-R	Software Ver. D007-1045-018 R	Technician HDA	Mfg. Date 07-30-2014

Comments

Temperature 74 °F	Relative Humidity 54.36 %RH	Pipe Size Multi	Scale 0-40fps	Flow Units Gal/min
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Actual Flow 1 100.320	Actual Flow 2 150.580	Actual Flow 3 200.050	Actual Flow 4 250.080	Actual Flow 5 300.780
Indicated Flow 1 100.020	Indicated Flow 2 150.470	Indicated Flow 3 200.370	Indicated Flow 4 250.950	Indicated Flow 5 299.980

Calibration Statement

The flow measurement system listed above was certified in accordance with ISO procedure DAS-206-003 (Meter Certification Procedure). The equipment and methods used to generate the System Performance section of this certificate are traceable to NIST and conforms to ISO9001:2008. All certifications are conducted with tap water at 70 F (21 C) and 1.0 cSt, calibrations for alternate fluids have been mathematically corrected and are not traceable to NIST. The test equipment used in this certification are as follows:

Flow Loop Number: 6	Standard: Lowflow Optiflux 4300 Serial Number: A11P07661	Calibration Due: 09-28-14
Pipe Size: 3" and 2"	Standard: Highflow Optiflux 4300 Serial Number: A10P03921	Uncertainty: +/-0.5% of Reading

I certify that the flow measurement system listed above was operated and data was recorded in accordance with DAS-206-003.

Test Performed By: HDA on the date of 7-30-2014

Test Certified By: HDA on the date of 7/30/14