

DRAFT

**AUTHORIZATION TO DISCHARGE UNDER THE  
OKLAHOMA POLLUTANT DISCHARGE ELIMINATION SYSTEM**

**PERMIT NUMBER: OK0028045  
ID NUMBER: S11603**

**PART I**

In compliance with the Oklahoma Pollutant Discharge Elimination System Act (OPDES Act), Title 27A O.S. § 2-6-201 *et seq.* as amended, and the rules of the State of Oklahoma Department of Environmental Quality (DEQ) adopted thereunder {See OAC 252:606}; the Federal Clean Water Act, Public Law 95-217 (33 U.S.C. 1251 *et seq.*), Section 402; and NPDES Regulations (40 CFR Parts 122, 124, and 403),

City of Altus - Southwest Wastewater Treatment Facility  
509 South Main Street  
Altus, OK 73521

is hereby authorized to discharge treated wastewater from a facility located at approximately

E ½, NW ¼ of Section 25,  
Township 2 North, Range 21 West, Indian Meridian (I.M.),  
Jackson County, Oklahoma  
or at 20240 East County Road 165, Altus, Oklahoma, 73521

to receiving waters: Bitter Creek, tributary to Salt Fork of the Red River, at the point located at approximately

Latitude: 34° 36' 29.609" N [GPS: NAD 1983 CONUS]  
Longitude: 99° 22' 52.321" W [GPS: NAD 1983 CONUS]

Water Body I.D. No. 311600020110\_05

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II, III, and IV hereof.

This permit replaces and supersedes the previous permit issued on February 6, 2014.

The issuance date of this permit is \_\_\_\_\_.

This permit shall become effective \_\_\_\_\_.

This permit and authorization to discharge shall expire at midnight \_\_\_\_\_.

For the Oklahoma Department of Environmental Quality:

\_\_\_\_\_  
Karen Steele, P.E., Manager  
Municipal Discharge and Stormwater Permit Section  
Water Quality Division

\_\_\_\_\_  
Shellie R. Chard, Director  
Water Quality Division

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (OUTFALL 001)**

Beginning the effective date of the permit through the expiration date of the permit, the permittee is authorized to discharge treated wastewater in accordance with the following limitations. **Discharge is NOT permitted during June - October periods.**

Effluent Characteristic		Discharge Limitations				Monitoring Requirements	
		Mass Loading (lbs/day)	Concentrations (mg/l unless otherwise specified)			Frequency	Sample Type
			Monthly Avg.	Monthly Avg.	Weekly Avg.		
<b>Flow (mgd)</b> [STORET: 50050]	Nov - May	---	Report	---	Report	Daily	Totalized
<b>Biochemical Oxygen Demand - 5 Day (BOD<sub>5</sub>)</b> [STORET: 00310]	Nov - Mar	237.7	30	45	---	3/month	3-hour composite
	Apr - May	162.6	30	45	---	3/month	3-hour composite
<b>Total Suspended Solids</b> [STORET: 00530]	Nov - Mar	713.1	90	135	---	3/month	3-hour composite
	Apr - May	487.9	90	135	---	3/month	3-hour composite
<b>E. coli (MPN/100 ml)</b> [STORET: 51040]	Nov - May	---	630 <sup>a</sup>	---	2,030	1/week	Grab
<b>Dissolved Oxygen (DO)</b> [STORET: 00300]	Nov - May	---	4.0 Minimum			2/week	Grab
<b>pH (standard unit)</b> [STORET: 00400]	Nov - May	---	6.5 – 9.0			2/week	Grab
<b>Chloride</b> [STORET: 00941]	Nov - May	---	---	---	Report	1/quarter	3-hour composite

<sup>a</sup> Monthly data for E. coli is reported as geometric mean of all samples in that month.

**Sampling Point:** Samples taken for compliance with the monitoring requirements specified above shall be taken at the Parshall flume located at the southwest corner of the facility's polishing pond.

**Year-round Requirements**

- There shall be no discharge of floating solids or visible foam in other than trace amounts.
- There shall be no discharge of a visible sheen of oil or globules of oil or grease on or in the water. Oil and grease shall not be present in quantities that adhere to stream banks and coat bottoms of water courses or which cause deleterious effects to the biota.
- All monitoring and reporting requirements shall also be in compliance with Part III of this permit.

**B. SANITARY SEWER OVERFLOWS**

Any bypass in the collection system [sanitary sewer overflow (SSO)] shall be reported in accordance with Part III.B.6 of this permit.

**C. REPORTING OF MONITORING RESULTS**

Monitoring results shall be reported in accordance with the provisions of Part III.B.5 of the permit. Monitoring results obtained during the previous month shall be summarized and electronically reported on an

electronic Discharge Monitoring Report (eDMR) form due to the Oklahoma Department of Environmental Quality, Water Quality Division, Wastewater Compliance Tracking Section no later than the 15<sup>th</sup> day of the month following the completed monthly test. If no discharge occurs during the reporting period, an eDMR form stating "No Discharge" shall be electronically submitted according to the above schedule. Instructions on how to register as a Preparer or Signatory for eDMRs, as well as how to prepare and submit eDMRs, can be found on DEQ's website at <http://www.deq.state.ok.us/wqdnw/ereporting/index.html>. Assistance is also available by contacting DEQ at (405) 702-8100 or email [deqreporting@deq.ok.gov](mailto:deqreporting@deq.ok.gov).

The first report is due on \_\_\_\_\_.

#### D. RECLAIMED WATER LIMITATIONS AND MONITORING REQUIREMENTS FOR CATEGORY 5 WATER REUSE

Beginning the effective date and lasting through the expiration date of the permit, the City of Altus - Southwest Wastewater Treatment Facility, "the supplier", is authorized to supply treated wastewater as Category 5 reclaimed water for application at the following land application sites, in accordance with OAC 252:627 and OAC 252:656 and the following limitations:

##### 1. Authorized Land Application Sites for Category 5 Reclaimed Water Reuse

Land Application Site		Approx. Total Area (acres)	Approx. Irrigated Area (acres)	Approx. Location of Point of Entry	
Site ID	Legal Description			Latitude	Longitude
R01	SW ¼ of Section 26, Township 2N, Range 21W, I.M., Jackson County, Oklahoma	160	74	34° 36' 45.047" (GPS: 1983 NAD)	99° 22' 56.136" (GPS: 1983 NAD)
R02	NW ¼ of Section 26, Township 2N, Range 21W, I.M., Jackson County, Oklahoma	160	102	34° 37' 10.729" (GPS: 1983 NAD)	99° 22' 55.812" (GPS: 1983 NAD)
R03	Part of N ½ of Section 27, Township 2N, Range 21W, I.M., Jackson County, Oklahoma	160	110	34° 37' 11.460" (GPS: 1983 NAD)	99° 23' 43.224" (GPS: 1983 NAD)
R04	SE ¼ of Section 27, Township 2N, Range 21W, I.M., Jackson County, Oklahoma	160	110	34° 36' 45.299" (GPS: 1983 NAD)	99° 23' 27.024" (GPS: 1983 NAD)
R05	NE ¼ of Section 34, Township 2N, Range 21W, I.M., Jackson County, Oklahoma	160	130	34° 36' 18.979" (GPS: 1983 NAD)	99° 23' 27.348" (GPS: 1983 NAD)
R06	SE ¼ of Section 34, Township 2N, Range 21W, I.M., Jackson County, Oklahoma	160	118	34° 35' 52.782" (GPS: 1983 NAD)	99° 23' 27.348" (GPS: 1983 NAD)
R07	Part of E ½, NE ¼ of Section 3, Township 1N, Range 21W, I.M., Jackson County, Oklahoma	75	51	34° 35' 25.080" (GPS: 1983 NAD)	99° 23' 15.648" (GPS: 1983 NAD)
R08	Part of S ½, SE ¼ of Section 26, Township 2N, Range 21W, I.M., Jackson County, Oklahoma	36	36	34° 36' 39.128" (GPS: 1983 NAD)	99° 22' 8.860" (GPS: 1983 NAD)
R09	Part of SW ¼ of Section 25, Township 2N, Range 21W, I.M., Jackson County, Oklahoma	110	76	34° 36' 57.722" (GPS: 1983 NAD)	99° 21' 29.268" (GPS: 1983 NAD)

**2. Limits and Monitoring Requirements for Category 5 Reclaimed Water Reuse**

In accordance Appendix A of OAC 252:627, the following monitoring requirements are established for the permit to supply Category 5 reclaimed water by the supplier for land application at sites listed above.

In accordance with OAC 252:627-5-1(b), (d), and (e), the supplier shall complete DEQ Form 627-001 - Water Reuse Monthly Operating Report (MOR) for each land application site and maintain the MORs on-site for at least three (3) years and make them available for review by DEQ upon request.

Site ID	Parameter <sup>a</sup>	Limit and Monitoring Requirements	Measurement Frequency	Monitoring Location
R01	Flow (mgd)	Record	Daily <sup>b</sup>	Northwest corner of the polishing ponds
R02	Flow (mgd)	Record	Daily <sup>b</sup>	Northwest corner of the polishing ponds
R03	Flow (mgd)	Record	Daily <sup>b</sup>	Northwest corner of the polishing ponds
R04	Flow (mgd)	Record	Daily <sup>b</sup>	Northwest corner of the polishing ponds
R05	Flow (mgd)	Record	Daily <sup>b</sup>	Northwest corner of the polishing ponds
R06	Flow (mgd)	Record	Daily <sup>b</sup>	Northwest corner of the polishing ponds
R07	Flow (mgd)	Record	Daily <sup>b</sup>	Northwest corner of the polishing ponds
R08	Flow (mgd)	Record	Daily <sup>b</sup>	Northwest corner of the polishing ponds
R09	Flow (mgd)	Record	Daily <sup>b</sup>	Northwest corner of the polishing ponds

<sup>a</sup> When there is no supply of reclaimed water for the entire day, report "0" in the MOR, and write "No Supply" in the comments column.

<sup>b</sup> In accordance with OAC 252:656-25-2(h), flow measurement for each land application site shall be accomplished by flow meters, or the calibration of pumps and installation of run-time meters. When no pumps are used, as with gravity flow lines, flow shall be calculated using the on and off times.

**3. Record Keeping Requirements for Commercial Fertilizer**

In compliance with OAC 252:627-3-4(b)(7), the permittee is required to keep record of the commercial fertilizer applied at each site for the life of the permit in the following format. These records shall be made available to the DEQ on request.

Site Name: \_\_\_\_\_

Date	Acreage Fertilized	Composition of Fertilizer (Nitrogen, Phosphorous, Potassium)	Quantity of Fertilizer Applied
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**4. Restrictions for Category 5 Reclaimed Water Reuse**

a. In accordance with OAC 252:627-3-4(b), irrigation with Category 5 reclaimed water is prohibited:

- (1) from a lagoon cell that receives raw sewage;
- (2) from any cell other than the one specified in the permit;

- (3) on any food crop that may be consumed raw;
  - (4) on grain crops such as corn, wheat and oats, less than thirty (30) days before harvest;
  - (5) at rates that allow a discharge from the permitted water reuse site;
  - (6) within one hundred feet (100') of the permitted boundary of the site;
  - (7) at a rate that exceeds the nitrogen and phosphorus rates for the crop grown at the site;
  - (8) at a rate that results in phytotoxicity;
  - (9) when the reclaimed water has a dissolved oxygen concentration of less than 2.0 mg/l;
  - (10) during periods of precipitation or while the soil is saturated or frozen;
  - (11) on land having a slope greater than five percent (5%); and
  - (12) where there are berms or other barriers on a water reuse site that would cause the pooling or ponding of reclaimed water at the water reuse site, nor shall any berms or barriers impede the natural flow of stormwater from the site.
- b. In accordance with OAC 252:656-27-2(b), systems shall be designed to ensure that direct and wind-blown spray from irrigation systems and other sources are confined to the designated irrigation areas. Category 5 reclaimed water systems shall also be designed to comply with the following minimum buffer zones and setback distances, with all distances being measured from the edge of the wetted perimeter of the irrigation area to the edge of the following features:
- (1) three hundred feet (300') from public wells;
  - (2) fifty feet (50') from private water wells;
  - (3) fifty feet (50') from creeks, lakes, ponds, and other water of the state;
  - (4) one hundred feet (100') from adjacent property lines.
- c. The City of Altus must obtain a permit to construct infrastructure and a permit to supply from DEQ before supplying reclaimed water to any user(s) or site(s) not authorized in this permit. The City of Altus will provide information to DEQ on the intended use of the reclaimed water by the new user, and if applicable, information on specific land application site(s) demonstrating that the requirements of OAC 252:627-3-4 for Category 5 reclaimed water are met.

## 5. Fencing Requirements

There are no fencing requirements at this time.

## 6. Signage Requirements

1. In accordance with OAC 252:656-27-4(a), all valves, outlets and appurtenances in the distribution system of reclaimed water shall have a sign "CAUTION: CATEGORY 5 RECLAIMED WATER - DO NOT DRINK."
2. In accordance with OAC 252:627-3-4(a)(2), signs which describe the nature of the facility and advise against trespassing shall be posted on the perimeter of each permitted reclaimed water application site.

## PART II. OTHER PERMIT REQUIREMENTS

### A. CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The permittee shall operate an industrial pretreatment program in accordance with Section 402(b)(8) of the Clean Water Act, the General Pretreatment Regulations (40 CFR Part 403) and the provisions of the subsequently approved POTW pretreatment program submitted by the permittee. A Publicly Owned Treatment Works (POTW) facility is defined in 40 CFR 403.3(o) as any devices and systems used in storage, treatment, recycling and reclamation of municipal sewage and industrial wastes of a liquid nature. It includes sewers, pipes and other conveyances if they convey wastewater to a POTW. The term also means a municipality as defined in the Act, which has jurisdiction over the Indirect Discharges to and from such treatment works. This POTW pretreatment program was approved on July 5, 2000 and modified on May 24, 2006 and November 16, 2011; to incorporate program revisions in accordance with the latest 40 CFR Part 403 regulations adopted by DEQ effective June 15, 2007. Any non-substantial modifications [as defined under 40 CFR 403.18(b)] to the POTW pretreatment program received and implemented in accordance with 40 CFR 403.18(d) shall be considered incorporated as of the date of approval by DEQ. The current POTW pretreatment program is hereby incorporated by reference and shall be implemented in a manner consistent with the following requirements:
  - a. Industrial user information shall be updated at a frequency adequate to ensure that all IUs are properly characterized at all times;
  - b. The frequency and nature of industrial user compliance monitoring activities by the permittee shall be commensurate with the character, consistency and volume of waste. The permittee must inspect and sample the effluent from each Significant Industrial User in accordance with 40 CFR 403.8(f)(2)(v). This is in addition to any industrial self-monitoring activities;
  - c. The permittee shall enforce and obtain remedies for noncompliance by any industrial users with applicable pretreatment standards and requirements;
  - d. The permittee shall control through permit, order, or similar means, the contribution to the POTW by each Industrial User to ensure compliance with applicable pretreatment standards and requirements. In the case of Industrial Users identified as significant under 40 CFR 403.3(v), this control shall be achieved through individual or general control mechanisms in accordance with 40 CFR 403.8(f)(1)(iii). Both individual and general control mechanisms must be enforceable and contain, at a minimum, the following conditions:
    - (1) Statement of duration (in no case more than five years);
    - (2) Statement of non-transferability without, at a minimum, prior notification to the POTW and provision of a copy of the existing control mechanism to the new owner or operator;
    - (3) Effluent limits and/or Best Management Practices based on applicable general and categorical Pretreatment Standards, local limits, and State and local laws;
    - (4) Self-monitoring, sampling, reporting, notification and record keeping requirements, including an identification of the pollutants to be monitored (including the process for seeking pollutant waivers in accordance with 403.12(e)(2)), sampling location, sampling frequency, and sample type, based on the applicable general and categorical Pretreatment Standards, local limits, and State and local laws; and
    - (5) Statement of applicable civil and criminal penalties for violation of Pretreatment Standards and requirements and any applicable compliance schedule. Such schedules may not extend the

compliance date beyond federal deadlines; and

- (6) Requirements to control slug discharges, if determined by the POTW to be necessary.
- e. The permittee shall evaluate whether each Significant Industrial User needs a plan or other action to control slug discharges in accordance with 40 CFR 403.8(f)(2)(vi);
  - f. The permittee shall provide adequate staff, equipment, and support capabilities to carry out all elements of the pretreatment program; and,
  - g. The approved program shall not be modified by the permittee without the prior approval of the DEQ.
2. The permittee shall establish and continue to develop and enforce technically based local limits (TBLL) to implement the provisions of 40 CFR Part 403.5. All specific prohibitions or limits developed under this requirement are deemed to be conditions of this permit. The general and specific prohibitions set out in 40 CFR Parts 403.5(a)(1) and (b) shall also be enforced by the permittee unless modified under this provision.

The permittee shall, within sixty days of the effective date of this permit, (1) submit a WRITTEN CERTIFICATION that a technical evaluation has been performed demonstrating that the existing technically based local limits (TBLL) are based on the current state water quality standards and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination, OR (2) submit a WRITTEN NOTIFICATION that a technical evaluation revising the current TBLL and a draft sewer use ordinance which incorporates such revisions will be submitted within 12 months of the effective date of this permit.

3. The permittee shall analyze, at a minimum the treatment facility influent and effluent for the presence of the toxic pollutants listed in 40 CFR 122 Appendix D (NPDES Application Testing Requirements) Table II at least annually (once per year) and the toxic pollutants in Table III plus molybdenum at least semi-annually (once per six months). If, based upon information available to the permittee there is reason to suspect the presence of any toxic or hazardous pollutant listed in Table V, or any other pollutant, known or suspected to adversely affect treatment plant operation, receiving water quality, or solids disposal procedures, analysis for those pollutants shall be performed at least semi-annually (once per six months) on both the influent and the effluent.

The influent and effluent samples collected shall be flow-composite samples consisting of at least 12 aliquots collected at approximately equal intervals over a representative 24 hour period. Sampling and analytical procedures shall be in accordance with guidelines established in 40 CFR 136. The effluent samples shall be analyzed to a level as required in item 6 below. Where composite samples are inappropriate, due to sampling, holding time, or analytical constraints, grab samples shall be taken.

4. The permittee shall prepare annually a list of Industrial Users which during the preceding pretreatment year were significantly noncompliant with applicable pretreatment requirements. For the purposes of this Part, significant noncompliance shall be determined based upon the more stringent of either criteria established at 40 CFR Part 403.8(f)(2)(viii) or criteria established in the approved POTW pretreatment program. This list is to be published annually in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW **during the month of August.**

In addition, during the month of August, the permittee shall submit an updated status report to DEQ containing the following information:

- a. An updated list of all Significant Industrial Users identifying those that are Categorical Industrial Users; Non-significant Categorical Industrial Users defined under 40 CFR 403.3(v)(2) if applicable and Categorical Industrial Users subject to reduced reporting under 40 CFR 403.12(e)(3) if applicable. For each industrial user listed the following information shall be included:
    - (1) Standard Industrial Classification (SIC) or NAISC code and categorical determination;
    - (2) Control document status. Whether the user has an effective control document, and the date such document was last issued, reissued, or modified, (indicate which industrial users were added to the system (or newly identified) within the previous year);
    - (3) A summary of all monitoring activities performed within the previous year. The following information shall be reported:
      - Total number of inspections performed;
      - Total number of sampling visits made;
    - (4) Status of compliance with both effluent limitations and reporting requirements. Compliance status shall be defined as follows:
      - Compliant (C) - no violations during the previous pretreatment year;
      - Non-compliant (NC) - one or more violations during the previous pretreatment year but does not meet the criteria for significant non-compliance;
      - Significantly Noncompliant (SNC) - in accordance with requirements described above; and
    - (5) For significantly noncompliant industrial users, indicate the nature of the violations, the type and number of actions taken (notice of violation, administrative order, criminal or civil suit, fines or penalties collected, etc.) and current compliance status. If ANY industrial user was on a schedule to attain compliance with effluent limits, indicate the date the schedule was issued and the date compliance is to be attained;
  - b. A list of all significant industrial users whose authorization to discharge was terminated or revoked during the preceding pretreatment year and the reason for termination;
  - c. A report on any interference, pass through, upset or POTW permit violations known or suspected to be caused by industrial contributors and actions taken by the permittee in response;
  - d. A copy of the newspaper publication of the significantly non-compliant industrial users giving the name of the newspaper and the date published;
  - e. The results of all influent and effluent analyses performed pursuant to above requirements;
  - f. A comparison of the influent and effluent analyses performed pursuant to above with maximum allowable headworks loadings developed in the approved technically based local limits and water quality based effluent concentrations necessary to meet state water quality standards.
5. The permittee shall provide adequate notice of the following:
- a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the CWA and/or Sections 40 CFR 405-499 if it were directly discharging those pollutants; and
  - b. Any substantial change in-the volume or character of pollutants being introduced into the treatment

works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

Adequate notice shall include information on (i) the quality and quantity of effluent to be introduced into the treatment works, and (ii) any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

6. All effluent monitoring conducted pursuant to above requirements shall meet the Minimum Quantification Levels (MQLs) shown in the tables on pages 6 through 9.

#### **B. RE-OPENER CLAUSE**

This permit may be re-opened for modification or revocation and reissuance to require additional monitoring and/or effluent limitations where actual or potential exceedances of State water quality criteria are determined to be the result of the permittee's discharge to the receiving water, or a revised Total Maximum Daily Load (TMDL) is established for the receiving water, or when required as technology advances. Modification or revocation and reissuance of the permit shall follow regulations listed at 40 CFR 124.5.

#### **C. BIOSOLIDS/SEWAGE SLUDGE REQUIREMENTS**

1. The permittee will be required to prepare and obtain approval of a biosolids/sewage sludge management plan prior to removing biosolids/sewage sludge from the facility. Biosolids/sewage sludge disposal practices shall comply with the Federal regulations for landfills, biosolids/sewage sludge, and solid waste disposal established at 40 CFR Part 257, 503, and the DEQ rules governing Sludge Management (OAC 252:515 and OAC 252:606) as applicable.
2. The biosolids/sewage sludge from this facility is self-contained within the lagoon treatment system.
3. The permittee is required to maintain all records relevant to biosolids/sewage sludge disposal for the life of the permit. These records shall be made available to DEQ upon request.
4. The permittee shall give 120 days prior notice to DEQ of any change planned in the biosolids/sewage sludge disposal practice.
5. The permittee shall also comply with all applicable biosolids/sewage sludge requirements in Part IV of this permit.

#### **D. POLLUTION PREVENTION REQUIREMENTS**

1. The permittee shall institute a program within 12 months of the effective date of the permit (or continue an existing program) directed towards optimizing the efficiency and extending the useful life of the facility. The permittee shall consider the following items in the program:
  - a. The influent loadings, flow and design capacity;
  - b. The effluent quality and plant performance;
  - c. The age and expected life of the wastewater treatment facility's equipment;
  - d. Bypasses and overflows of the tributary sewerage system and treatment works;
  - e. New developments at the facility;
  - f. Operator certification and training plans and status;
  - g. The financial status of the facility;
  - h. Preventative maintenance programs and equipment conditions; and
  - i. An overall evaluation of conditions at the facility.

2. The permittee shall prepare the following information on the biosolids/sewage sludge generated by the facility:
  - a. An annual quantitative tabulation of the ultimate disposition of all biosolids/sewage sludge (including, but not limited to, the amount beneficially reused, landfilled, and incinerated).
  - b. An assessment of technological processes and an economic analysis evaluating the potential for beneficial reuse of all biosolids/sewage sludge not currently beneficially reused including a listing of any steps which would be required to achieve the biosolids/sewage sludge quality necessary to beneficially reuse the biosolids/sewage sludge.
  - c. A description of, including the expected results and the anticipated timing for, all projects in process, in planning and/or being considered which are directed towards additional beneficial reuse of biosolids/sewage sludge.
  - d. An analysis of one composite sample of the biosolids/sewage sludge collected prior to ultimate reuse or disposal shall be performed for the pollutants listed in Part IV, Element 1, Section III, Table 3 of the permit.
  - e. A listing of the specific steps (controls/changes) which would be necessary to achieve and sustain the quality of the biosolids/sewage sludge so that the pollutant concentrations in the biosolids/sewage sludge fall below the pollutant concentration criteria listed in Part IV, Element 1, Section III, Table 3 of the permit.
  - f. A listing of, and the anticipated timing for, all projects in process, in planning, and/or being considered which are directed towards meeting the biosolids/sewage sludge quality referenced in (e) above.

The permittee shall certify in writing, within three years of the effective date of the permit, that all pertinent information is available. This certification shall be submitted to:

Oklahoma Department of Environmental Quality  
Water Quality Division  
Municipal Permits Section  
P. O. Box 1677  
707 North Robinson Street  
Oklahoma City, Oklahoma 73101-1677

**MINIMUM QUANTIFICATION LEVELS (MQLs)**

	<u>MQL (µg/l)</u>	<u>EPA METHOD</u>
<b><u>METALS AND CYANIDE</u></b>		
Antimony (Total) <sup>1</sup>	60	200.7
Arsenic (Total) <sup>1</sup>	0.5	206.5 200.7 revision 4.4 (1994) 200.8 revision 5.4 (1994) 200.9 revision 2.2 (1994)
Beryllium (Total) <sup>1</sup>	5	200.7
Cadmium (Total)	1	200.7 revision 4.4 (1994) 200.8 revision 5.4 (1994) 200.9 revision 2.2 (1994)
Chromium (Total) <sup>1</sup>	10	200.7
Chromium (3+) <sup>1</sup>	10	200.7
Chromium (6+) <sup>1</sup>	10	200.7
Copper (Total)	1	200.7 revision 4.4 (1994) 200.8 revision 5.4 (1994) 200.9 revision 2.2 (1994)
Lead (Total)	0.5	200.7 revision 4.4 (1994) 200.8 revision 5.4 (1994) 200.9 revision 2.2 (1994)
Mercury (Total) <sup>1</sup>	0.05	245.1 revision 3.0 (1994)
Molybdenum (Total)	30	200.7
Nickel (Total) <sup>1</sup> [Freshwater]	10	200.7
Nickel (Total) [Marine]	5	200.8 revision 5.4 (1994) 200.9 revision 2.2 (1994)
Selenium (Total) <sup>1</sup>	5	200.7 revision 4.4 (1994) 200.8 revision 5.4 (1994) 200.9 revision 2.2 (1994)
Silver (Total)	0.5	200.7 revision 4.4 (1994) 200.8 revision 5.4 (1994) 200.9 revision 2.2 (1994)
Thallium (Total) <sup>1</sup>	0.5	279.2 revision
Zinc (Total) <sup>1</sup>	20	200.7
Cyanide (Total) <sup>1</sup>	10	335.4
Phenols, (Total) <sup>1</sup>	10	604
<b><u>DIOXIN</u></b>		
2,3,7,8-Tetrachlorodibenzo- P-Dioxin (TCDD) <sup>2,4</sup>	0.00001	1613
<b><u>VOLATILE COMPOUNDS</u></b>		
Acrolein <sup>3</sup>	50	624
Acrylonitrile <sup>3</sup>	50	624
Benzene <sup>3</sup>	10	624

**MINIMUM QUANTIFICATION LEVELS (MQLs)**

	<u>MQL (µg/l)</u>	<u>EPA METHOD</u>
Bromoform <sup>4</sup>	10	624
Carbon Tetrachloride <sup>4</sup>	10	624
Chlorobenzene <sup>4</sup>	10	624
Chlorodibromomethane <sup>4</sup>	10	624
Chloroethane	50	624
2-Chloroethylvinyl Ether <sup>3</sup>	10	624
Chloroform <sup>4</sup>	10	624
Dichlorobromomethane <sup>4</sup>	10	624
1,1-Dichloroethane <sup>4</sup>	10	624
1,2-Dichloroethane <sup>4</sup>	10	624
1,1-Dichloroethylene <sup>4</sup>	10	624
1,2-Dichloropropane <sup>4</sup>	10	624
1,3-Dichloropropylene <sup>4</sup>	10	624
Ethylbenzene <sup>4</sup>	10	624
Methyl Bromide [Bromomethane]	50	624
Methyl Chloride [Chloromethane]	50	624
Methylene Chloride <sup>4</sup>	20	624
1,1,2,2-Tetrachloroethane <sup>4</sup>	10	624
Tetrachloroethylene <sup>4</sup>	10	624
Toluene <sup>4</sup>	10	624
1,2-Trans-Dichloroethylene <sup>4</sup>	10	624
1,1,1-Trichloroethane <sup>4</sup>	10	624
1,1,2-Trichloroethane <sup>4</sup>	10	624
Trichloroethylene <sup>4</sup>	10	624
Vinyl Chloride <sup>4</sup>	10	624
<b><u>ACID COMPOUNDS</u></b>		
2-Chlorophenol <sup>4</sup>	20	625
2,4-Dichlorophenol <sup>4</sup>	20	625
2,4-Dimethylphenol <sup>1</sup>	20	625
4,6-Dinitro-o-Cresol	50	625
[12 methyl 4,6-dinitrophenol] <sup>4</sup>		
2,4-Dinitrophenol <sup>4</sup>	50	625
2-Nitrophenol <sup>4</sup>	20	625
4-Nitrophenol <sup>4</sup>	50	625
p-Chloro-m-cresol	20	625
[4 chloro-3-methylphenol] <sup>1</sup>		
Pentachlorophenol <sup>4</sup>	50	625
Phenol <sup>4</sup>	20	625
2,4,6-Trichlorophenol <sup>4</sup>	20	625

**MINIMUM QUANTIFICATION LEVELS (MQLs)**

	<u>MQL (µg/l)</u>	<u>EPA METHOD</u>
<b><u>BASE/NEUTRAL COMPOUNDS</u></b>		
Acenaphthene <sup>4</sup>	20	625
Acenaphthylene <sup>4</sup>	20	625
Anthracene <sup>4</sup>	20	625
Benzidine <sup>3</sup>	50	625
Benzo(a)Anthracene <sup>4</sup>	20	625
Benzo(a)Pyrene <sup>4</sup>	20	625
3,4-Benzofluoranthene <sup>4</sup>	20	625
Benzo(ghi)Perylene	20	625
Benzo(k)Fluoranthene <sup>4</sup>	20	625
Bis(2-Chloroethoxy) Methane <sup>4</sup>	20	625
Bis(2-Chloroethyl) Ether <sup>4</sup>	20	625
Bis(2-Chloroisopropyl) Ether <sup>4</sup>	20	625
Bis(2-Ethylhexyl) Phthalate <sup>4</sup>	20	625
4-Bromophenyl Phenyl Ether <sup>4</sup>	20	625
Butylbenzyl Phthalate <sup>4</sup>	20	625
2-Chloronaphthalene <sup>4</sup>	20	625
4-Chlorophenyl Phenyl Ether <sup>4</sup>	20	625
Chrysene <sup>4</sup>	20	625
Dibenzo (a,h) Anthracene	20	625
1,2-Dichlorobenzene <sup>4</sup>	20	625
1,3-Dichlorobenzene <sup>4</sup>	20	625
1,4-Dichlorobenzene <sup>4</sup>	20	625
3,3'-Dichlorobenzidine	20	625
Diethyl Phthalate <sup>4</sup>	20	625
Dimethyl Phthalate <sup>4</sup>	20	625
Di-n-butyl Phthalate <sup>4</sup>	20	625
2,4-Dinitrotoluene <sup>4</sup>	20	625
2,6-Dinitrotoluene <sup>4</sup>	20	625
Di-n-octyl Phthalate <sup>4</sup>	20	625
1,2-Diphenylhydrazine <sup>3</sup>	20	625
Fluoranthene <sup>4</sup>	20	625
Fluorene <sup>4</sup>	20	625
Hexachlorobenzene <sup>4</sup>	10	625
Hexachlorobutadiene <sup>4</sup>	20	625
Hexachlorocyclopentadiene <sup>4</sup>	20	625
Hexachloroethane	20	625
Indeno (1,2,3-cd) Pyrene (2,3-o-phenylene pyrene)	20	625
Isophorone <sup>4</sup>	20	625
Naphthalene <sup>4</sup>	10	625
Nitrobenzene <sup>4</sup>	20	625

**MINIMUM QUANTIFICATION LEVELS (MQLs)**

	<u>MQL (µg/l)</u>	<u>EPA METHOD</u>
N-nitrosodimethylamine	50	625
N-nitrosodi-n-propylamine	20	625
N-nitrosodiphenylamine	20	625
Phenanthrene <sup>4</sup>	20	625
Pyrene <sup>4</sup>	20	625
1,2,4-Trichlorobenzene <sup>4</sup>	20	625
<b><u>PESTICIDES</u></b>		
Aldrin <sup>1</sup>	0.05	608
Alpha-BHC <sup>1</sup>	0.05	608
Beta-BHC <sup>1</sup>	0.05	609
Gamma-BHC (Lindane) <sup>1</sup>	0.05	608
Delta-BHC <sup>1</sup>	0.05	608
Chlordane <sup>1</sup>	0.2	608
4,4'-DDT <sup>1</sup>	0.05	608
4,4'-DDE (p,p-DDX) <sup>1</sup>	0.05	608
4,4'-DDD (p,p-TDE) <sup>1</sup>	0.05	608
Dieldrin <sup>1</sup>	0.05	608
Alpha-endosulfan <sup>1</sup>	0.05	608
Beta-endosulfan <sup>1</sup>	0.05	608
Endosulfan sulfate <sup>1</sup>	0.05	608
Endrin <sup>1</sup>	0.05	608
Endrin aldehyde <sup>1</sup>	0.05	608
Heptachlor <sup>1</sup>	0.05	608
Heptachlor epoxide <sup>1</sup> (BHC-hexachlorocyclohexane)	0.05	608
PCB-1242 <sup>1</sup>	0.25	608
PCB-1254	0.25	608
PCB-1221	0.25	608
PCB-1232	0.25	608
PCB-1248	0.25	608
PCB-1260	0.25	609
PCB-1016	0.25	608
PCB, total	0.25	608
Toxaphene <sup>1</sup>	0.3	608

<sup>1</sup> Based on Contract Required Quantitation Level (CRQL) developed pursuant to 40 CFR Part 122

<sup>2</sup> Dioxin National Strategy

<sup>3</sup> No CRQL developed pursuant to 40 CFR Part 122 established

<sup>4</sup> CRQL basis, equivalent to MQL

MQL based on 3.3 times LOD published in 40 CFR 136, Appendix B