

8217 Shoal Creek Blvd, Suite 200 Austin, Texas 78757 PH 512.451.4003 FAX 512.306.8042 www.Geosyntec.com

6 March 2015

Mr. Dwight C. Russell, P.E. MC-124 Texas Commission on Environmental Quality MSW Permits Section, Waste Permits Division P.O. Box 13087 Austin, Texas 78711-3087

Subject: Supplemental Revision – March 2015

Permit Modification – Oil and Gas Waste Processing Covel Gardens Landfill, MSW Permit No. 2093B

San Antonio, Bexar County, Texas

Tracking Nos. 18053589, 18358472, 18505711, and 1867183; RN100218338/CN600127856

Dear Mr. Russell:

On behalf of Waste Management of Texas, Inc. (WMTX), Geosyntec Consultants (Geosyntec) has prepared this letter to accompany a supplemental revision being requested for the above-referenced permit modification request. Accompanying revisions to the affected permit modification items are attached to this letter. Additionally, Pages 1 and 5 of the Permit Modification Application Form, which includes the applicant's certification statement for this submittal, are provided at the end of this letter.

REQUESTED REVISIONS

The requested revisions are identified below. These revisions are in response to a request made by the Texas Commission on Environmental Quality (TCEQ) via email dated 26 February 2015. Specifically, TCEQ requested a revision to the NORM waste scanning procedures to note that the instruments would be operated per manufacturer's specifications (no additional detail/procedures are necessary). Also, TCEQ requested more information on how the representative composite sampling would take place. The requested revisions have been made. The resulting replacement pages to the permit amendment application are enclosed with this letter to replace the previously submitted versions of the applicable pages. These revisions have an updated date reflecting the revision. A working copy is also attached to this submittal that uses an underline/strikethrough format, in order to mark the revised text, to highlight the revision and facilitate the TCEQ's review.

• Part IV – Appendix IV-I, Oil and Gas Waste Processing Plan, Sub-Appendix IV-I-B (Pages IV-I-B-1 through IV-I-B-4).

Mr. Dwight Russell 6 March 2015 Page 2

APPLICATION FORM AND CERTIFICATION STATEMENT

Pages 1 and 5 of the Permit Modification Application Form are being submitted with this response. Page 5, the Signature Page, provides the certification statement signed by the applicant's responsible official.

CLOSURE

One original and two copies of this submittal are being provided to the TCEQ MSW Permits Section in Austin. Also, one copy has been sent directly to TCEQ Region 13 Office, as indicated on the distribution list at the end of this letter. An electronic copy of this submittal has also been posted to the internet at the same URL as the initial posting of the application. If you have any questions regarding the information presented in this letter, please do not hesitate to contact the undersigned by telephone at (512) 451-4003, or by E-mail at sgraves@geosyntec.com.

Sincerely

Scott M. Graves, P.E.

Associate, Geosyntec Consultants, Inc.

Copy to:

Mr. Cameron Lopez, TCEQ Region 13 Office

Mr. Tim Champagne, WMTX

PERMIT MODIFICATION APPLICATION FORM UPDATE PAGES

(includes Applicant's Certification Statement)

The pages that follow are updates to the Permit Modification Application Form which include the applicant's certification statement for this submittal.

Facility Name: Covel Gardens Landfill

Permittee/Registrant Name: Waste Management of Texas, Inc.

MSW Authorization #: 2093B Initial Submittal Date: 4-4-2014

Revision Date: 3-6-2015



Texas Commission on Environmental Quality

Permit/Registration Modification and Temporary Authorization Application Form for an MSW Facility

1.	1. Reason for Submittal						
	☐ Initial Submittal	■ Notice of Deficiency (NOD) Response					
2.	Authorization Type						
	Permit	☐ Registration					
2	Annlingtion Towns						
3.	Application Type						
	■ Modification with Public Notic	ce Modification without Public Notice					
	☐ Temporary Authorization (TA	A)					
4.	Application Fees						
	☐ Pay by Check	Online Payment					
	If paid online, e-Pay Confirmation Number: 582EA000164351						
5.	Application URL						
	Is the application submitted for a permit/registration modification with public notice?						
	■ Yes □ No						
	If the answer is "Yes", enter the URL address of a publicly accessible internet web site						
	where the application and all revisions to that application will be posted in the space provided: http://www0.wm.com/wm/texas/permits.asp						
		· · · · · ·					
6.	Confidential Documents						
	Does the application contain confidential documents?						
	☐ Yes ■ No						
		fidential documents throughout the application and tin a binder clearly marked "CONFIDENTIAL."					

Facility Name: Covel Gardens Landfill MSW Authorization #: 2093B

Initial Submittal Date: 4-4-2014

Revision Date: 3-6-2015

Signature Page

I, Steve Jacobs						
(Site Operator (Permittee/Registrant)'s Authorized Sig	natory) (Title)					
certify under penalty of law that this document and all my direction or supervision in accordance with a system personnel properly gather and evaluate the information the person or persons who manage the system, or the gathering the information, the information submitted in belief, true, accurate, and complete. I am aware there submitting false information, including the possibility of violations.	em designed to assure that qualified on submitted. Based on my inquiry of ose persons directly responsible for is, to the best of my knowledge and e are significant penalties for of fine and imprisonment for knowing					
Signature: Meduz	Date: 3-6-15					
TO BE COMPLETED BY THE OPERATOR IF THE APPLICATION REPRESENTATIVE FOR THE OPERATOR						
I,, hereby designate (Print or Type Operator Name)	e					
(Print or Type Operator Name)	(Print or Type Representative Name)					
submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application. Printed or Typed Name of Operator or Principal Executive Officer						
SUBSCRIBED AND SWORN to before me by the said _						
On this day of much 2015 My commission expires on the day of day	1/2 , 2016					
County, Te (Note: Application Must Bear Signature & Seal of Nota						
JILL BEARDSLEY My Commission Expires	,					

REDLINE/STRIKETHROUGH PAGES

To facilitate TCEQ's review, the attached pages present a "redline/strikethrough" version of the following items, showing the proposed revisions:

 Part IV – Appendix IV-I, Oil and Gas Waste Processing Plan (Cover Page and Sub-Appendix IV-I-B (Pages IV-I-B-1 through IV-I-B-4)).



Prepared for:

Waste Management of Texas, Inc. 8611 Covel Road San Antonio, Texas 78252 (210) 623-8800

OIL AND GAS WASTE PROCESSING PLAN PART IV – APPENDIX IV-I

COVEL GARDENS LANDFILL
MSW PERMIT NO. 2093B
SAN ANTONIO, BEXAR COUNTY, TEXAS

Prepared by:



8217 Shoal Creek Blvd, Suite 200 Austin, Texas 78757 (512) 451-4003

> April 2014 Revised February March 2015

SUB-APPENDIX IV-I-B OPERATING PROCEDURES FOR SEPARATED SOLIDS SCREENING

OPERATING PROCEDURES FOR SEPARATED SOLIDS SCREENING

The following procedures will be performed to manage separated solids resulting from the oil and gas waste processing described in this Plan:

Laboratory Analytical Radiation Testing Program:

- <u>Field Calibration</u>. Representative sampling and subsequent laboratory analytical testing will be performed on the first batch of separated solids, to measure the radiation concentrations and verify that the material has concentrations below the allowable concentrations specified in 25 TAC §289.259(d)(1)(A) which defines exempt oil and gas NORM waste. More specifically:
 - A representative composite sample of the first batch will be obtained, averaged over any 100 square meters (m²) [e.g., approx. 33-ft by 33-ft] and averaged over the first 15 centimeters (cm) [i.e., 6-inches] of depth. This will be done by spreading the material out in a 100 m² area located over an approved Class 1 nonhazardous industrial waste disposal cell (i.e., over an area underlain by approved constructed Class 1 liner system). This area will have stormwater management features to control and prevent runoff of contaminated water.
 - The sample will be tested in the laboratory, and in order for that batch to be managed as an exempt NORM waste, must have concentrations of:
 - i. 30 picocuries per gram (pCi/gm) or less of radium-226 or radium-228; or
 - ii. 150 pCi or less per gram of any other NORM radionuclide.
 - o If radionuclide testing results indicate the batch is at or below these allowable concentrations (i.e., meets the exemption criteria), the material from that batch will be disposed of in the landfill.
 - o If radionuclide testing results indicate the batch is above these allowable concentrations, the material from that batch is non-exempt NORM waste and will be managed and disposed in accordance with applicable state and federal regulatory requirements by transfer of the wastes for disposal to a land disposal facility licensed by the state regulatory department/agency; the U.S. Nuclear Regulatory Commission; an agreement state; a licensing state, or alternative methods authorized by The Railroad Commission of Texas, who has jurisdiction over the handling and disposal of NORM wastes produced during the exploration and production of oil and gas.

- Ongoing Laboratory Testing. The laboratory testing described above for the first batch will be repeated annually to verify that the separated solids material has concentrations below the allowable concentrations specified in 25 TAC §289.259(d)(1)(A).
- Use of Lab Results During Field Screening. The laboratory results will also be
 used to evaluate the effectiveness of the field screening radiation survey instrument
 and perform correlations if needed to revise the baseline allowable intensity value
 for field screening. This is described below.

Field Scanning Radiation Testing Program:

- Overview. Material will be allowed to accumulate daily in the solids area and will be batch tested (field screened) for radiation intensity levels prior to disposal. Field screening using a radiation survey instrument meeting the requirements of 25 TAC §289.259(e) will be performed on the first batch and on all subsequent batches, to demonstrate results not greater than the allowable threshold intensity (established as described below). Testing will occur on average twice per day depending on volume of material accumulated in the solids box.
- Field Scanning Procedures. Testing will consist of passing the radiation survey instrument (see Note 1) (hereafter referred to as the "NORM meter") across the surface area of the soil within the three sided box containing solids from the process. The instrument will be operated in accordance with its manufacturer's specifications for batch screening., which will including the following:
 - The NORM meter will be set to measure milliRoentgens per hour (mR/hr) (conversion to microRoentgens per hour (μR/hr) requires multiplying results by 1000).
 - Once turned on, the meter will take approximately 30 seconds to warm up and stabilize to ensure statistical validity.
 - The NORM meter can be used to measure mR/hr directly or as counts per minute (CPM) and converted to mR/hr. Typical operation mode will be in mR/hr.
 - To perform a general survey of the separated solids, the NORM meter will be placed within 2 inches of the surface of the pile and moved around the pile for approximately 30 seconds. The highest value detected will be logged.
- Allowable Threshold Value for Field Screening:

- O The default allowable threshold value for field screening is 50 μR/hr. This value will be used for the field screening program, provided that the results of the laboratory testing described above confirm that the separated solids material has concentrations at or below the allowable concentrations specified in 25 TAC §289.259(d)(1)(A).
- If the laboratory testing results on the first batch or subsequent annual testing indicate concentrations greater than the allowable concentrations specified in 25 TAC §289.259(d)(1)(A) but the radiation survey instrument (field screening) results indicate less than 50 μ R/hr (and the meter is determined to be functioning correctly) then a new lower baseline for the allowable threshold (i.e., less than 50 μ R/hr) will be established and used for future field screening based on the laboratory results correlated to the field screening results. (Thus, the term "allowable threshold" refers to either 50 μ R/hr, or the adjusted lower value described herein).
- Material Management Passing Field Scanning Results. If the result of the field screening indicates the presence of radiation below the allowable threshold, the separated solids will be disposed of in the landfill. If field screening indicates the presence of radiation at or above the allowable threshold, the next steps will be taken as outlined below.
- Procedures for Field Screening Exceedances. If the result of the field screening indicates the presence of radiation at or above the allowable threshold, a confirmatory field screening will be performed using counts per minute to confirm the results. If the results confirm levels at or above the allowable threshold, the material will be isolated by placement into a roll off container and covered with a tarp. The following label will be applied:
 - 1. yellow and black stating "Caution NORM (Naturally Occurring Radioactive Material) Is Present", or;
 - 2. orange and black stating "Warning Contains NORM (Naturally Occurring Radioactive Material)" or;
 - 3. by marking the letters "NORM" legibly with a waterproof paint or ink.
 - o The isolated material will then be further tested in accordance with the procedures and for the parameters outlined in 25 TAC 289.259(d)(1)(A).
 - o If radionuclide testing results are 30 picocuries per gram (pCi/gm) or less of radium-226 or radium-228, or 150 pCi or less of any other NORM radionuclide, material will be disposed of in the landfill.

- o If radionuclide testing results are above 30 pCi/gm of radium-226 or radium-228 or 150 pCi of any other radionuclide, the material will be transported and disposed of at a licensed facility authorized to accept this waste.
- Non-exempt NORM waste (i.e., NORM waste having radiation levels greater than the thresholds given in the two preceding bullet points) will be managed and disposed in accordance with applicable state and federal regulatory requirements by transfer of the wastes for disposal to a land disposal facility licensed by the state regulatory department/agency; the U.S. Nuclear Regulatory Commission; an agreement state; a licensing state, or alternative methods authorized by The Railroad Commission of Texas, who has jurisdiction over the handling and disposal of NORM wastes produced during the exploration and production of oil and gas.

Field Instruments:

<u>Note 1</u>: Two types of instruments, equivalent in their ability to measure radiation, may be used to conduct the field scanning to measure radiation, levels as follows:

A **scintillation counter**, which consists of a scintillator that generates photons of light in response to incident radiation, a sensitive photomultiplier tube which converts the light to an electrical signal, and the necessary electronics to process the photomultiplier tube output.

Geiger Mueller tube, which consists of a an instrument that generates a pulse of electrical current each time radiation passes through the halogen quenched tube and causes inoization.

Each type of instrument will be calibrated and operable to meet the calibration requirements of 25 TAC §289.259(e)(3) and will be capable of measuring microRoentgens per hour within the required range specified in 25 TAC §289.259(e)(1).

Recordkeeping:

The results of all laboratory analytical and field screening tests described herein will be placed in the Site Operating Record in accordance with Section 3.12.1 of this Plan.

REPLACEMENT PAGES

The items that follow are to completely replace the previous versions of these pages.

 Part IV – Appendix IV-I, Oil and Gas Waste Processing Plan (Cover Page; Table of Contents; and Sub-Appendix IV-I-B (Pages IV-I-B-1 through IV-I-B-4)).



Prepared for:

Waste Management of Texas, Inc. 8611 Covel Road San Antonio, Texas 78252 (210) 623-8800

OIL AND GAS WASTE PROCESSING PLAN PART IV – APPENDIX IV-I

COVEL GARDENS LANDFILL
MSW PERMIT NO. 2093B
SAN ANTONIO, BEXAR COUNTY, TEXAS

Prepared by:



8217 Shoal Creek Blvd, Suite 200 Austin, Texas 78757 (512) 451-4003

> April 2014 Revised March 2015



FOR PERMIT PURPOSES ONLY

GEOSYNTEC CONSULTANTS, INC. TEXAS ENG. FIRM REGISTRATION NO. F-1182

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FOR PERMIT PURPOSES ONLY

GEOSYNTEC CONSULTANTS, INC. TEXAS ENG. FIRM REGISTRATION NO. F-1182

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