



March 26, 2008  
Project No: 07-01-45

Richard C. Carmichael, Ph.D., P.E., CIH  
MC 124  
Municipal Solid Waste Permits Section  
Texas Commission on Environmental Quality (TCEQ)  
P. O. Box 13087  
Austin, Texas 78711-3087

**Re: Permit Modification to Revise the Groundwater Monitor System – Section 3.4.1, Attachment 8a, Section 2.3.5 of Attachment 11a, and Attachment 11d of the Site Development Plan; Turkey Creek Landfill; MSW Permit No. 1417-B; Johnson County, Texas**

Dear Dr. Carmichael:

This letter is written to request a permit modification with notice to revise Section 3.4.1, Attachment 8a, Section 2.3.5 of Attachment 11a, and Attachment 11d of the Site Development Plan of TCEQ Municipal Solid Waste Permit No. 1417-B. Specifically, this modification addresses the Groundwater Monitoring Systems requirements of 30 Texas Administrative Code (TAC) §330.403 of the 2006 revised 30 TAC Subchapter J rules governing groundwater monitoring and corrective action (effective March 27, 2006). Per 30 TAC §330.401(b), owners and operators of landfill units shall comply with the 2006 revisions to this subchapter by applying for a permit modification with public notice in accordance with §305.70(l) of this title to revise any inconsistent permit provisions within two years from the effective date (March 27, 2006) of the 2006 revisions. This modification is specific to §330.403 and additional provisions of Subchapter J will be addressed in a separate permit modification request within the appropriate timeframe. The modification with notice is submitted in accordance with 30 TAC §330.70(l). The TCEQ Part I Application Form is provided as Attachment 1. In addition, and in accordance with 30 TAC §330.59(h)(1), a payment of \$150 has been made online through the TCEQ ePay system, and a copy of the receipt is included in Attachment 2. Per §330.70(e)(5), an adjacent landowners map and landowners list is provided as Attachment 3. Site information and details of the permit modification request are provided in the following sections.

#### **SITE INFORMATION**

The Turkey Creek Landfill is located about 2.5 miles south of Alvarado, west of and adjacent to I-35 at Greenfield-Barnsville exit, Johnson County, Texas. The site is operated by Allied Waste Industries Inc. under Municipal Solid Waste Landfill Permit

Number 1417-B. Groundwater monitoring is currently conducted via twenty-seven monitor wells per the facility Groundwater Sampling and Analysis Plan (GWSAP) (Carel Corp, 2006)<sup>1</sup>.

## PERMIT MODIFICATION

It is requested that Section 3.4.1, Attachment 8a, Section 2.3.5 of Attachment 11a, and Attachment 11d of the Site Development Plan of the Turkey Creek Landfill permit be modified to revise the groundwater monitor well network in accordance with 30 TAC §330.403. The information required pursuant to §305.70(e) is provided below:

1. A description of the proposed change:

The modification provides a revised groundwater monitor well network in accordance with the 2006 revisions to Subchapter J Groundwater Monitoring and Corrective Action, effective March 27, 2006. Specifically, the modification addresses 30 TAC §330.403 Groundwater Monitoring Systems. The modification provides narrative to Section 3.4.1, Attachment 8a, Section 2.3.5 of Attachment 11a, and Attachment 11d of the Site Development Plan of the Turkey Creek Landfill MSW Permit No. 1417-B that describes the proposed monitor well network, provides supporting information and incorporates supporting figures. A figure highlighting the facility point of compliance and proposed monitor well network is also included.

The modification proposes to decommission thirteen existing monitoring wells and to install six new downgradient point of compliance wells.

2. An explanation detailing why the change is necessary:

The modification is necessary to comply with new 30 TAC Subchapter J regulations (effective March 27, 2006), specifically 30 TAC §330.403(a) that states a groundwater monitoring system must be installed that consists of a sufficient number of wells, installed at appropriate locations and depths, to yield representative groundwater samples from the uppermost aquifer as defined in §330.3 of this title, and 30 TAC 330.403(a)(2) that requires the point of compliance monitoring system must include wells installed to allow determination of the quality of groundwater passing the point of compliance in the uppermost aquifer. A certified groundwater monitor well system is currently in place and operation that fulfilled former applicable requirements and regulations. Per 30 TAC §330.401(b), owners and operators of landfill units shall comply with the 2006 revisions to Subchapter J by applying for a permit modification with public notice in accordance with §305.70(l) to revise any inconsistent permit

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<sup>1</sup>The Carel Corporation. 2006. Groundwater Sampling and Analysis Plan. Turkey Creek Landfill, MSW Permit 1417-B, Johnson County, Texas

provisions within two years from the effective date of the 2006 revisions. The permit modification is provided in response to the referenced regulatory provision, not due to any finding that the current network is technically deficient within the framework it was originally designed.

3. Appropriate revisions to all applicable narrative pages and drawings of the permit:

Highlight/strikeout pages for the revised Permit Section 3.4.1 are included as Attachment 4 of this modification request. Clean/replacement pages for the revised Permit Section 3.4.1 are included as Attachment 5 of this modification request. Highlight/strikeout pages for the revised Attachment 8a are included as Attachment 6 of this modification request. Clean/replacement pages for the revised Attachment 8a are included as Attachment 7 of this modification request. Highlight/strikeout pages for the revised Section 2.3.5 of Attachment 11a are included as Attachment 8 of this modification request. Clean/replacement pages for the revised Section 2.3.5 of Attachment 11a are included as Attachment 9 of this modification request. Highlight/strikeout pages for revised Section 11d are included as Attachment 10. Clean/replacement pages for revised Section 11d are included as Attachment 11.

4. A reference made to the specific provision under which the modification application is being made:

The proposed modification with notice is required under 30 TAC §330.401(b) and 30 §TAC 330.403. The modification is allowable and in accordance with 30 TAC §305.70(l).

5. A landowners map and an updated landowners list as required under §330.52(b)(4)(D) and (b)(5).

A landowners list and map is provided as Attachment 3.

One original and two copies of this modification application are provided for your use. One of the two copies has been provided to the appropriate commission regional office. A copy has been placed in the operating record of the facility.

