

December 23, 2002



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AUSTIN COMMUNITY LANDFILL

9900 Giles Rd. Austin, Texas 78754 (512) 272-6228 (512) 272-9370 Fax

Mr. Richard Carmichael, Ph.D., Manager MC-124 MSW Permits Section Waste Permits Division Texas Commission on Environmental Quality P.O. Box 13087 Austin, Texas 78711-3087

Subject: Municipal Solid Waste – Travis County Austin Community Landfill – Permit No. MSW 249C Permit Modification Request – Drainage Improvements

Dear Dr. Carmichael:

On behalf of Waste Management of Texas, Inc. (WMTX) and in association with RJR Engineering, Ltd., L.L.P. (RJR), the enclosed revisions to the surface water drainage facilities in Attachment 8 of the Site Development Plan (SDP) for the subject facility are being submitted to the Texas Commission on Environmental Quality (TCEQ) for consideration as a Class I permit modification.

By this request, WMTX is seeking approval to modify some of the site drainage facilities included in Attachment 8 of the SDP to include the construction of two sedimentation ponds, the addition of a culvert, the inclusion of an alternate channel configuration for the central channel, and minor revisions to two other culverts.

This request for a permit modification includes the submittal of revisions and additions to the SWMP for the facility. The following information is being submitted in support of this request for a permit modification.

Description of Proposed Changes

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This permit modification proposes improvements to the site's surface water drainage system. These improvements include the following:

1) The addition of culvert 6 on the west hill. This culvert will intercept stormwater flows from the West Landfill Perimeter Ditch 6, Drainage Area WWF1. Currently, these surface water flows continue in Ditch 6 to Culvert 5-6. Culvert 6 will have a 12 inch thick rock riprap discharge pad.

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- 2) An alternate to the discharge Reno Mattress of 24-inch thick rock riprap pad has been included for Culvert 5-6. Additionally, revised culvert calculations for Culvert 5-6 representing the actual culvert slopes, lengths and elevations based on current construction survey and design plans have been included.
- 3) Culvert 3-4 has been revised to reflect construction conditions. The culvert slope was increased from 2.00 % to 10.1 %. The Entrance Flow-Line was changed from 588 feet m.s.l. to 594 feet m.s.l. And an alternate to the discharge Reno Mattress of 6-inch thick concrete riprap protection has been included. Revised culvert calculations have been included for Culver 3-4.
- 4) An alternate to Channel CH2 has been included. Currently, Channel CH2 is permitted as a 50-foot wide vegetated earthen trapezoidal channel with 3:1 side slopes and a channel slope of 1.30 %. An alternate channel configuration of 40 foot wide vegetated earthen trapezoidal channel with 3:1 side slopes and a channel slope of 0.70 % has been included. Channel calculations have been included.
- 5) Two sedimentation ponds have been added to the Central Channel between the East and West Landfills. A wall type weir is proposed for the South Pond Structure. The spillway has been designed to pass the 100-year storm at a depth of 1.78 feet. A concrete lined embankment structure acting at the secondary spillway with three 36inch corrugated metal pipe culverts and a wall type weir acting as the primary spillway have been proposed for the North Pond Structure. The secondary spillway has been designed to pass the 100-year storm at a depth of 2.41 feet. Both structures will allow for storage behind the wall with dewatering provided from two six-inch pipes located at the base of the walls. A combination of concrete stilling blocks, concrete riprap, and 24 inch thick stone riprap have been included to protect the downstream receiving channel from erosion at both pond structures.

Explanation Supporting Modification

Modifications to the site drainage facilities are in accordance with provisions of the TCEQ rules. There are several operational benefits to the design modification including the following:

• Consistent with long-term development of the landfill

The proposed modifications will improve the permanent drainage facilities at the site.

. Improves the landfill's capability to protect the environment and human health

The current Attachment 8 has no provisions for sedimentation ponds. The addition of the sedimentation ponds and the other improvements to the drainage facilities will reduce erosion around the central drainage channel and around culverts 3-4 and 5-6

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and provide two additional means to control sediment. This will improve the landfill's capability to protect the environment and human health.

• Consistent with Site Operations

Changes to the drainage facilities and Attachment 8 are being made in conjunction with the preparation of drainage facility construction plans.

Sections of Attachment 8 Being Revised

Section	Title	Description
Appendix	Post-Development Drainage	Addition of calculations for southern
2.3	Calculations	pond structure, northern pond structure,
		CH2 alternate channel configuration,
		culvert 6, stone riprap.
		Revision of the calculations for culverts
		3-4 and 5-6.
Attachment	Developed Surface Water Plan	Addition of a CH2 alternate channel
8, Sheet 9		configuration included only as a
of 10		supplement to the above referenced
(figure)		Appendix 2.3. No change was made to
Attachusent	West I and fill Drainage Dian	Addition of southern pond structure
	West Landini Diamage Flan	northern pond structure and culvert 6
o-1A (figure)		northern pond structure, and curvert o.
Attachment	Surface Water Management	Addition of culvert 6 stone and concrete
8-3 (figure)	Details	riprap outlet protection and revision of
0 5 (inguite)		culverts 3-4 and 5-6.
Addition of	Central Channel South Pond	Addition of a Central Channel South
Attachment	Structure Plan	Pond Structure Plan.
8-3A		
(figure)		
Addition of	Central Channel South Pond	Addition of a Central Channel South
Attachment	Structure Profile	Pond Structure Profile.
8-3B		
(figure)		
Addition of	Central Channel North Pond	Addition of a Central Channel North
Attachment	Structure Plan	rona Structure rian.
8-30 (figure)		
(ligure)		
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Section	Title	Description
Addition of	Central Channel North Pond	Addition of a Central Channel North
Attachment	Structure Profile	Pond Structure Profile.
8-3D		
(figure)		
Addition of	Surface Water Management	Addition of 12 inch and 24 inch Stone
Attachment	Details	Rip-rap Details.
8-3E		
(figure)		
Addition of	Surface Water Management	Addition of 6 inch and 12 inch Concrete
Attachment	Details	Paving Details.
8-3F		
(figure)		

Specific Provision Under Which Modification Requested

The proposed changes to Attachment 8 are minor in nature and do not substantially alter the permit conditions or reduce the capability of the facility to protect human health and the environment. Additionally, these changes will improve offsite drainage by reducing the peak flows and improving the quality of the storm water run-off without increasing landfill disposal capacity. Therefore, approval of this modification is requested under the provisions of Title 30 Texas Administrative Code Section 305.70(j)(11) ($30 \text{ TAC } \S 305.70(j)(11)$), changes in the drainage control plan that significantly alter internal stormwater run-on/run-off control without impacting offsite drainage or increasing landfill disposal capacity, or of $30 \text{ TAC } \S 305.70(j)$.

Certification

The certification statement required by 30 TAC §305.44 is enclosed as a part of this request.

As required by 30 TAC §330.113(c) of TCEQ rules, please be advised that this letter with enclosures is being placed in the operating record for the subject facility in accordance with requirements of 30 TAC §330.113(a) and /or (b). Also as required, an original and one copy of this letter with enclosures are being submitted to the TCEQ central office while another copy is being submitted directly to the appropriate TCEQ regional office.

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I trust that this submittal is complete and will lead to approval of this permit modification request. If you have any questions or comments concerning this submittal, please contact me at telephone number (512) 272-6221 or Mr. J.Roy Murray, P.E., of RJR at telephone number (281) 397-6747 in Houston.

Very truly yours, Waste Management of Texas, Inc.

Nustry Jusilin

Rusty Fusilier, P.E. Compliance Manager

RF:rf/jm Enclosures

cc w/enclosures:

Barry Kalda, TCEQ Region 11 Austin

cc w/o enclosures:

Steve Jacobs, WMTX James Smith, WMTX J. Roy Murray, RJR

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ED 0010354

Certification Statement to Texas Commission on Environmental Quality Pertaining to Permit Modification

- Facility Permittee: Waste Management of Texas, Inc.
- Facility Name: Austin Community Landfill
- Facility Permit No.: MSW Permit No. 249C

Subject: Class I Modification – Drainage Improvements

Modification Date: December 23, 2002

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Description: WMTX is seeking approval to modify the some of the site drainage facilities included in Attachment 8 of the Site Development Plan to include the construction of two sedimentation ponds, the addition of a culvert, the inclusion of an alternate channel configuration for the central channel, and minor revisions to two other culverts.

Certification: In accordance with Title 30 Texas Administrative Code Section 305.70(b) and on behalf of the facility permittee, I make the following certification pertaining to the above described permit modification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Title: Dist. MANAGER Signature: JAMES Ø Printed Name:

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RJR

JOB NAME	stin Con	nm. L/F
CALCULATED B	1 JPoy	DATE 11/26/02
SHEET	1	OF

<u>Purpose</u> : Calculate depth of flow over weir on the central channel southern pond structure. <u>Given</u>: Q = 977.48 cfs (Developed Surface Water Plan Attachment B, Sheet 9 of 10, NSW-249A) CH1 L = 205 feet For Permit Purposes Duky

Equation:

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$$Q = \frac{2}{3} (C_1) b \sqrt{2g} (H)^{3/2}$$

$$H^{3/2} = \frac{Q}{\frac{2}{3} (C_1) b \sqrt{2g}} (H)^{2/3}$$

$$H = \left(\frac{Q}{\frac{2}{3} (C_1) b \sqrt{2g}}\right)^{2/3}$$

$$W^{2/3} = \frac{Q}{\frac{2}{3} (C_1) b \sqrt{2g}}$$

Solve:

$$H = 977.48 cfs = 1.78 ft.
= $\frac{2}{3}(-0.5)205 \text{ ft } \sqrt{2}(32.2 \text{ fts})^{3}$$$

Sheet lof 8

WM-CAST-0000507

RJR	JOB NAME <u>Austin Comm. L/F</u> JOB NO. <u>10210.003</u> CALCULATED BY <u>JRead</u> DATE <u>11/26/02</u> CHECKED BY <u>DATE</u> SHEET I OF I
Purpose: Calculate depth of f central channel no	low over weir on the athern pond structure.
<u>Given</u> : Q ₁₀₀ = 585.38 cfs ((Developed Surface Water Plan Attachment 8, Sheet 9 of 10, MSW-249A) CH2
L= 84 feet	
Equation: $H = \left(\frac{Q}{\frac{2}{3}(c_1) b \sqrt{2g}}\right)^{2/3}$	where: $C_1 = 0.54$ for a broad crested wein (ronge 0.50 to 0.57) g= 32.2 fps ²
$\frac{20102}{3} H = \frac{585.38}{2} \frac{2}{3} (0.54) 84 ft \sqrt{2(32)}$	= 2.41 .2fps*)
The looyean starm of the weir Q a depth will be designed to to a minimum dep	of 585.38 cfs will overflow n of 2.41 ft. The weir o provide erosion protection oth of 3.0 ft.
The elevation of the spill	way = 604.00

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Depth of 100-Year Flow over spillulary = 2.41 Elevation of 100-Year Event = 606.41

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Sheet 2 of 8

WM-CAST-0000508

CH 2 - Alternate Channel Configuration TRAPEZOIDAL CHANNEL ANALYSIS

NORMAL DEPTH COMPUTATION

November 20, 2002

학생들은 고객 조정 남부는 방법으로 도망 방수 가 두 는 또 박 또 또 한 것과 또 과 추 밖 로 또 한 번 부 또 한 일 분 수 근 부 문 것 또 가 한 것 같 것 같 것 같 것 같 것 같 것 같 것 같 것 같 것 같 것	****
PROGRAM INPUT DATA	
	VALUE
Flow Rate (cfs)	585.43 - See Note
Channel Bottom Slope (ft/ft)	0.007
Manning's Roughness Coefficient (n-value)	0.035-See Note Z
Channel Bight Side Glove (horizontal/vertical)	3.0
Channel Right Side Slope (norizontal/vertical)	3.0
	• 40.0
COMPUTATION RESULTS	新 # # # # # # # # # # # # # # # # # # #
DESCRIPTION	VALUE
Normal Depth (ft)	2 26
Flow Velocity (fps)	5.54 4 6 D fre V
Froude Number	0.695
Velocity Head (ft)	0.48
Energy Head (ft)	2.74
Cross-Sectional Area of Flow (sq ft)	105.73
Top Width of Flow (ft)	53.56
HYDROCALC Hydraulics for Windows, Version 1.2a Copyright (c). 1996 Dodson & Associates, Inc., 5629 FM 1960 West, Suite 314, Houston, TX 7 Phone: (281)440-3787, Fax: (281)440-4742, Email:software@dodson-hydro.co All Rights Reserved.	7069 m

Notes:

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1. Ploo year from Developed Surface Water Plan Attachment 8, Shect 9 of 10, MSW- 249A, for CHZ.

2. Mannings "N" Value for a grass lined channel.



Sheet 3 of 8

WM-CAST-0000509

PIPE CULVERT ANALYSIS COMPUTATION OF CULVERT PERFORMANCE CURVE

December 5, 2002

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PROGRAM INPUT DATA	
DESCRIPTION	VALUE

Culvert Diameter (ft)	3.0
FHWA Chart Number	2
FHWA Scale Number (Type of Culvert Entrance)	1
Manning's Roughness Coefficient (n-value)	0.024
Entrance Loss Coefficient of Culvert Opening	0.5
Culvert Length (ft)	67.0
Invert Elevation at Downstream end of Culvert (ft)	587.22
Invert Elevation at Upstream end of Culvert (ft)	594.0
Culvert Slope (ft/ft)	0.1012
Starting Flow Rate (cfs)	33.2
Incremental Flow Rate (cfs)	1 0
Ending Flow Rate (cfs)	33.0
Starting Tailwater Depth (ft)	0.0
Incremental Tailwater Depth (ft)	1.0
Ending Tailwater Depth (ft)	0.0

COMPUTATION RESULTS

Flow	Tailwater	Headwater	(ft)	Normal	Critical	Depth at	Outlet
Rate	Depth	Inlet	Outlet	Depth	Depth	Outlet	Velocity
(cfs)	(ft)	Control	Control	(ft)	(ft)	(ft)	(fps)
33.2	0.0	2.69	0.0	1.1	1.87	1.1	14.07

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For tailwater depth see next sheet.

Headwater Elev. = 594.0 + 2.69 = 596.69

Inlet Elev. =

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= 600.00

"Asingle 36" C.M.P. is adequate to convey the 25 year flowmate with a headwater that is 3.31' below the inlet elevation.

Sheet 4 of 8

WM-CAST-0000510

Tailwater Calculation Culvert 3-4 TRAPEZOIDAL CHANNEL ANALYSIS NORMAL DEPTH COMPUTATION

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December	5.	2002
	υ,	2002

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PROGRAM INPUT DATA DESCRIPTION	VALUE
Flow Rate (cfs)	585.43 - SeeNote 1
Manning's Roughness Coefficient (n-value)	0.013 - (
Channel Left Side Slope (horizontal/vertical)	3.0
Channel Right Side Slope (horizontal/vertical)	3.0
Channel Bottom Width (ft)	19.0

COMPUTATION RESULTS	
DESCRIPTION	VALUE
Normal Denth (ft)	
Flow Velocity (fps)	2.39
Froude Number	9.37
Velocity Head (ft)	1.207
Energy Head (ft)	2 75
Cross-Sectional Area of Flow (so ft)	62.47
Top Width of Flow (ft)	33 33
• • • • • • • • • • • • • • • • • • • •	20.30
The receiving channel elevation @ Culvert 3 Normal Depth in receiving channel @ Culvert 3 Water surface elevation in channel @ Culvert 3	-4 = 582.97 -4 : <u>2.39 (see above)</u> 5-4 = 585.36
Elevation of outlet of Culvert 3-4	- 587-22
The tailwater elevation (585.36) is bel outlet elevation (587.22). Note: 1. Q100Year from Developed Sonface Water 7 8, Sheet 9 of 10, MSW-249A, for C	ow the Plan, Attachment :HZ.

Sheet 5 of B

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Colvert 5-6 PIPE CULVERT ANALYSIS COMPUTATION OF CULVERT PERFORMANCE CURVE

December 5, 2002

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PROGRAM INPUT DATA DESCRIPTION	VALUE
Culvert Diameter (ft) FHWA Chart Number FHWA Scale Number (Type of Culvert Entrance).	3.0 2 1
Manning's Roughness Coefficient (n-value)	0.024
Culvert Length (ft)	0.5 50.0
Invert Elevation at Downstream end of Culvert (ft)	589.0
Invert Elevation at Upstream end of Culvert (ft) Culvert Slope (ft/ft)	590.0
	0.02
Starting Flow Rate (cfs)	47.75
Ending Flow Rate (cfs)	47.75
Starting Tailwater Depth (ft) Incremental Tailwater Depth (ft)	0.0 1.0
Ending Tailwater Depth (ft)	0.0
=======================================	
. COMPUTATION RESULTS	
Flow Tailwater Headwater (ft) Normal Critical	Depth at Outlet
Rate Depth Inlet Outlet Depth Depth	Outlet Velocity
(CIB) (IL) CONTROL CONTROL (IL) (IL)	(II) (IPS)
47.75 0.0 3.81 3.87 2.3 2.25	2.25 8.39
Dodson & Associates, Inc., 5629 FM 1960 West, Suite 314, House Phone: (281) 440-3787, Fax: (281) 440-4742, Email: software@dodson All Rights Reserved. $Q_{25} = 95.5 cfs$ (See Surface Water	- Management System
Details Attachuran	182
with 2-36" C.M.P.	
Q25/ = 4775 fr 100-4r4	from CH1, Attachment 8
Water Surface@ Outfall=581,0+2.71=583.78 Pip	e Outfall=589.0 . Tailuater
Head water Elev = 590.00 + 3.87'	= 593.87
TILM	
Inlet Elev. =	= 597.00
. Two 36" C.M.P. and adequate	
25 year flowrate with a headwat	ser that is
3.13' below the inlet elevation	
	Sheet 6 of 8

WM-CAST-0000512

Culver

PIPE CULVERT ANALYSIS COMPUTATION OF CULVERT PERFORMANCE CURVE

December 5, 2002

PROGRAM INPUT DATA		
DESCRIPTION	VALUE	
Culvert Diameter (ft)	3.0	
FHWA Chart Number	2	
FHWA Scale Number (Type of Culvert Entrance)	ĩ	
Manning's Roughness Coefficient (n-value)	0.024	
Entrance Loss Coefficient of Culvert Opening	0.5	
Culvert Length (ft)	65.0 .	
Invert Elevation at Downstream end of Culvert (ft)	580.35	
Invert Elevation at Upstream end of Culvert (ft)	581.0	
Culvert Slope (ft/ft)	0.01	
Starting Flow Rate (cfs)	10.83	Design Q26
Incremental Flow Rate (cfs)	1.0	r
Ending Flow Rate (cfs)	10.83	trom
•		Perimeter
Starting Tailwater Depth (ft)	0.43	NILL SIV
Incremental Tailwater Depth (ft)	1.0	Urth Sik.
Ending Tailwater Depth (ft)	0.43	

COMPUTATION RESULTS

Flow	Tailwater	Headwater	(ft)	Normal	Critical	Depth at	Outlet
Rate	Depth	Inlet	Outlet	Depth	Depth	Outlet	Velocity
(cfs)	(ft)	Control	Control	(ft)	(ft)	(ft)	(fps)
10.83	0.43	1.43	1.59	1.13	1.04	1.04	4.96

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Tailweter depth = 580.78 - 580.35 = 0,43 Trom South Pond Structure 100-Year Headwater Elev. = 581.0 + 1.59 = 582.59 Inlet Elev. = 587.00

. A single 36" C.M.P. is adequate to convey the 25 year flownate with a headwater that is 4.61 below the inlet elevation.

Sheet 7 of 8

WM-CAST-0000513



Source: USDA-SCS

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Sheet B of 8

Robert J. Huston. *Chairman* R. B. "Ralph" Marquez, *Commissioner* Kathleen Hartnett White, *Commissioner* Margaret Hoffman, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution February 21, 2003

Mr. James O. Smith, District Landfill Manager Waste Management of Texas, Inc. 9900 Giles Lane Austin, Texas 78754

Re: Municipal Solid Waste - Travis County Waste Management of Texas, Inc. Austin Community Landfill - Permit No. MSW 249C Permit Modification Request Mail Log No. 03-997

Dear Mr. Smith

Enclosed is a copy of the above referenced permit modification for a municipal solid waste facility issued pursuant to Chapter 361, Texas Health & Safety Code prepared for your permit modification request dated December 23, 2002. This modification includes changes to the Site Development Plan to improve site drainage by construction of two sedimentation ponds, the addition of a culvert, the inclusion of an alternate central channel configuration, and minor revisions to two other culverts. The documentation, including the application, prepared and submitted to support the modification shall be considered a part of and operational requirements of this permit.

Prior to September 1, 2002, the name of the Texas Commission on Environmental Quality (TCEQ) was the Texas Natural Resource Conservation Commission (TNRCC). However, until January 1, 2004 and to allow for phasing in the name change, the agency may perform any act authorized for the TNRCC as either the TNRCC or as the TCEQ.

If you have any questions concerning this letter or if we may be of any assistance to you regarding municipal solid waste, you may contact Mr. Wayne R. Harry, P.E. of my staff at MC-124, P.O. Box 13087, Austin, Texas 78711-3087; telephone number (512) 239-6619.

Sincerel (an

Richard C. Carmichael, Ph.D., P.E., CIH, Manager Municipal Solid Waste Permits Section Waste Permits Division

RCC/ALD/wth

Enclosure

087 • 512/239-1000

Internet address: www.tceq.state.tx.us

ED 0010349





MODIFICATION TO

MUNICIPAL SOLID WASTE PERMIT № MSW-249C

Waste Management of Texas, Inc. Austin Community Landfill

Municipal Solid Waste Permit No. MSW-249C is hereby modified as follows:

Description of Change:

The permittee has changed the Site Development Plan to improve site drainage by construction of two sedimentation ponds, the addition of a culvert, the inclusion of an alternate central channel configuration, and minor revisions to two other culverts.

List of Items Revised in Attachment A:

Attachment 8	Appendix 2.3	Post Development Drainage Calculations
	Figure 8-1A	West Landfill Drainage Plan
	Figure 8-3	Surface Water Management Details
(new)	Figure 8-3A	Central Channel South Pond Structure Plan
(new)	Figure 8-3B	Central Channel South Pond Structure Profile
(new)	Figure 8-3C	Central Channel North Pond Structure Plan
(new)	Figure 8-3D	Central Channel North Pond Structure Profile
(new)	Figure 8-3E	Surface Water Management Details
(new)	Figure 8-3F*	Surface Water Management Details

This modification is a part of Permit No. MSW-249C and should be attached thereto.

APPROVED, ISSUED, AND EFFECTIVE in accordance with 30 Texas Administrative Code Section 305.70(j)(11) and 305.70(l). No public notice is required for this modification. This modification is a minor change and does not reduce the capability of the facility to protect human health and the environment.

ISSUED DATE:

FEB 2 0 2003

Margaret Hoffman-

ED 0010348