Redline / Strikeout Version
Part III, Appendix III-C.3
Facility Surface Water Drainage Analysis

# Part III Attachment III-C Appendix III - C.3

#### FACILITY SURFACE WATER DRAINAGE ANALYSIS

Pescadito Environmental Resource Center
MSW No. 2374
Webb County, Texas



Initial Submittal March 2015
Supplement April 2015
Technically Complete March 11, 2016
Modified November 2016

**Updated August 2017** 

## Prepared for:

Rancho Viejo Waste Management, LLC 1116 Calle del Norte Laredo, TX 78041

### Prepared by:

APTIM Environmental and Infrastructure, Inc.

(f/k/a CB&I Environmental and Infrastructure, Inc.)



12005 Ford Rd, Suite 600 Dallas, TX 75234 This document is released for the purpose of permitting only under the authority of Michael W. Oden, P.E. #67165. It is not to be used for bidding or construction. Texas Registered Engineering Firm F-5650.

#### **Table of Contents**

III-C.3-1.	Rainfall Totals and Distributions
III-C.3-2.	Subcatchment Delineation
III-C.3-3.	Runoff Curve Number Determination
III-C.3-4.	Time of Concentration Determination
III-C.3-5.	Subcatchment Discharge Rates
III-C.3-6.	Terrace Berm Sizing
III-C.3-7.	Downchute Ditch Sizing
III-C.3-8.	Perimeter Channel and Run-On Diversion Ditch Sizing
III-C.3-9.	Culvert Sizing
III-C.3-10.	Detention Basin Sizing
III-C.3-11.	Stormwater Drainage Compliance Evaluation

This document is released for the purpose of permitting only under the authority of Michael W. Oden, P.E. #67165. It is not to be used for bidding or construction. Texas Registered Engineering Firm F-5650.