

Redline / Strikeout Version

Part III, Appendix III-C.1

Facility Surface Water Drainage Report Narrative

**Part III
Attachment III-C
Appendix III-C.1**

FACILITY SURFACE WATER DRAINAGE REPORT NARRATIVE

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

PESCADITO
ENVIRONMENTAL RESOURCE CENTER

**Initial Submittal March 2015
Supplement April 2015
Revised September 2015
Revised November 2015
Technically Complete March 11, 2016
Modified November 2016
Modified January 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

1.0	INTRODUCTION	1
1.1	Purpose	1
1.2	Regulatory Requirements	1
1.3	Evaluation Methods	3
2.0	PRE-DEVELOPMENT CONDITIONS	6
2.1	Overview	6
2.2	Existing Soil Conditions	6
2.3	Land Cover	7
2.4	Floodplain	7
3.0	POST-DEVELOPMENT CONDITIONS	8
3.1	Overview	8
3.2	Run-On Controls	8
3.3	Terrace Berms	8
3.4	Downchute Ditches	9
3.5	Perimeter Channels	9
3.6	Perimeter Channel Discharge Culverts	10
3.7	Northeast Detention Basin	10
3.8	Northeast Detention Basin Discharge	10
4.0	HYDROLOGIC ANALYSES	12
4.1	Methodology Overview	12
4.2	Model Inputs	13
4.3	Key Model Findings	18
5.0	CONCLUSION	21

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.