

Brantley, Anna

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**From:** Wick, Fred  
**Sent:** Wednesday, August 29, 2012 3:40 PM  
**To:** Brantley, Anna  
**Subject:** Out of Office: Certification of Construction Completion Approval for East Pasco CL I and West Pasco CL III [WACS #s 45796 & 45799]

July 6, 2012 was my last day of work with the State of Florida. Yes, I decided to hang it up after years.

Below I have identified by district the person most appropriate to answer facility FA questions for that district.

Southeast or South District  
Tor Bejnar - [tor.bejnar@dep.state.fl.us](mailto:tor.bejnar@dep.state.fl.us)

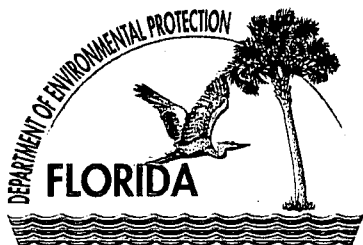
Central or Southwest District  
Frank Hornbrook - [frank.hornbrook@dep.state.fl.us](mailto:frank.hornbrook@dep.state.fl.us)

Northwest or Northeast District  
Susan Eldredge - [susan.eldredge@dep.state.fl.us](mailto:susan.eldredge@dep.state.fl.us)

If you are not sure with whom to speak, please feel free to contact the Solid Waste Section, Administrative Assistant at (850) 245-8732. I am confident she will be able to connect you with the appropriate person to assist you with any questions or concerns you may have.

I hope you have a wonderful day.

F. J. Wick  
Environmental Manager



# Florida Department of Environmental Protection

Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-632-7600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard, Jr.  
Secretary

Transmitted via email only to: [bkennedy@pascocounty.fl.net](mailto:bkennedy@pascocounty.fl.net)

Mr. Bruce Kennedy, P.E.  
Assistant County Administrator  
Pasco County Public Works/Utilities  
7530 Little Road,  
New Port Richey, Fl, 34654

August 29, 2012

RE: Application for Certification of Construction Completion  
West Pasco County Class III Landfill, Pasco County  
Pending Permit Modification No.: 26254-002-SO/IM to  
Existing Permit No.: 26254-001-SO/T3  
WACS Id No.: 45799

Dear Mr. Kennedy:

The Department has reviewed the above referenced Application for Certification of Construction Completion of the new citizen's drop off facility and related appurtenances for the West Pasco County Class III Landfill and supporting documents received on August 7, 2012.

Based on the Department's review of construction certification information submitted, the Department has determined that the transfer station facility was constructed substantially in accordance with the approved design and the construction requirements of **Permit No. 26254-001-SO/T3**. The Department therefore approves the certification of construction completion of the East Pasco County Solid Waste Transfer Station and the operation of the facility in accordance with **Permit No. 26254-001-SO/T3**.

If there are points that you wish to discuss regarding this letter, please contact me at (813) 632-7600 ext. 375.

Sincerely,

Nancy D. Gaskin  
Solid Waste Section  
Southwest District

ndg

cc: Bo Bruner, P.E., CH2MHill, [bbruner@ch2m.com](mailto:bbruner@ch2m.com)  
Susan Pelz, FDEP Tampa (email)  
Steve Morgan, FDEP, Tampa (email)   
Fred Wick, FDEP Tallahassee (email mail)

## Gaskin, Nancy

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**From:** Brantley, Anna  
**Sent:** Wednesday, August 29, 2012 3:40 PM  
**To:** 'bkennedy@pascocounty.fl.net'  
**Cc:** 'bbrunner@ch2m.com'; Wick, Fred; Morgan, Steve; Pelz, Susan  
**Subject:** Certification of Construction Completion Approval for East Pasco CL I and West Pasco CL III [WACS #s 45796 & 45799]  
**Attachments:** East Pasco CL I LF Construction Certification Approval to Mod #26445-005-SO.MM [WACS 45796] 8-29-12pdf.pdf; West Pasco CL III LF Construction Certification Approval to Mod # 26254-002-SO.MM [WACS 45799] 8-29-12pdf.pdf  
**Categories:** Oculized

Attached please find Certification of Construction Completion for the subject Solid Waste Facilities. You will only receive this electronic copy of the document.

**NOTE:** If you have questions concerning the content of the document, please contact the DEP permit processor [nancy.gaskin@dep.state.fl.us](mailto:nancy.gaskin@dep.state.fl.us)

Acrobat Reader 6.0 or greater is required to read this document. It is available for downloading at:  
<http://www.adobe.com/products/acrobat/readstep.html>

If I may be of assistance, please contact me.

Anna

Anna Brantley  
Administrative Assistant II  
FL DEP / SWD / Waste Management  
13051 North Telecom Parkway  
Temple Terrace FL 33637-0629  
Tel: 813/632-7600, Ext. 377  
Fax: 813/632-7664  
[anna.brantley@dep.state.fl.us](mailto:anna.brantley@dep.state.fl.us)

*The Department of Environmental Protection values your feedback as a customer. DEP Secretary Hershel T. Vinyard Jr. is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.*

## Gaskin, Nancy

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Administrative Assistant II  
FL DEP / SWD / Waste Management  
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Brantley, Anna

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**From:** Microsoft Exchange  
**To:** 'bbrunner@ch2m.com'  
**Sent:** Wednesday, August 29, 2012 3:40 PM  
**Subject:** Undeliverable: Certification of Construction Completion Approval for East Pasco CL I and West Pasco CL III [WACS #s 45796 & 45799]

**Delivery has failed to these recipients or distribution lists:**

'bbrunner@ch2m.com'

An error occurred while trying to deliver this message to the recipient's e-mail address. Microsoft Exchange will not try to redeliver this message for you. Please try resending this message, or provide the following diagnostic text to your system administrator.

The following organization rejected your message: smtp5.ch2m.com.

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Sent by Microsoft Exchange Server 2007

**Diagnostic information for administrators:**

Generating server: ECHCAS1.floridadep.net

bbrunner@ch2m.com

smtp5.ch2m.com #550 #5.1.0 Address rejected. ##

Original message headers:

Received: from ECHMBB.floridadep.net (:::1) by ECHCAS1.floridadep.net (:::1)  
with mapi; Wed, 29 Aug 2012 15:40:09 -0400  
From: "Brantley, Anna" <Anna.Brantley@dep.state.fl.us>  
To: "'bkennedy@pascocounty.fl.net'" <bkennedy@pascocounty.fl.net>  
CC: "'bbrunner@ch2m.com'" <bbrunner@ch2m.com>, "Wick, Fred"  
<Fred.Wick@dep.state.fl.us>, "Morgan, Steve" <Steve.Morgan@dep.state.fl.us>,  
"Pelz, Susan" <Susan.Pelz@dep.state.fl.us>  
Return-Receipt-To: <Anna.Brantley@dep.state.fl.us>  
Date: Wed, 29 Aug 2012 15:40:09 -0400  
Subject: Certification of Construction Completion Approval for East Pasco CL  
I and West Pasco CL III [WACS #s 45796 & 45799]  
Thread-Topic: Certification of Construction Completion Approval for East

Pasco CL I and West Pasco CL III [WACS #s 45796 & 45799]  
Thread-Index: Ac2GHhjUx0EPAPupCQem9j9gYDO2gHg==  
Message-ID: <4B583FDBCE32AD45AA1A7A01EA8319FC046C74B7DB@ECHMBB.floridadep.net>  
Reply-To: "Gaskin, Nancy" <Nancy.Gaskin@dep.state.fl.us>  
Accept-Language: en-US  
Content-Language: en-US  
X-MS-Has-Attach: yes  
X-MS-TNEF-Correlator:  
acceptlanguage: en-US  
Content-Type: multipart/mixed;  
    boundary="\_005\_4B583FDBCE32AD45AA1A7A01EA8319FC046C74B7DBECHMBBflorida\_"  
MIME-Version: 1.0



Certification of  
Construction ...

Brantley, Anna

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**From:** Microsoft Exchange  
**To:** Pelz, Susan; Wick, Fred; Morgan, Steve  
**Sent:** Wednesday, August 29, 2012 3:40 PM  
**Subject:** Delivered: Certification of Construction Completion Approval for East Pasco CL I and West Pasco CL III [WACS #s 45796 & 45799]

**Your message has been delivered to the following recipients:**

Pelz, Susan

Wick, Fred

Morgan, Steve

Subject: Certification of Construction Completion Approval for East Pasco CL I and West Pasco CL III  
[WACS #s 45796 & 45799]

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Sent by Microsoft Exchange Server 2007

Brantley, Anna

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**From:** Microsoft Exchange  
**To:** Gaskin, Nancy  
**Sent:** Wednesday, August 29, 2012 3:40 PM  
**Subject:** Delivered: Certification of Construction Completion Approval for East Pasco CL I and West Pasco CL III [WACS #s 45796 & 45799]

**Your message has been delivered to the following recipients:**

Gaskin, Nancy

Subject: Certification of Construction Completion Approval for East Pasco CL I and West Pasco CL III  
[WACS #s 45796 & 45799]

---

Sent by Microsoft Exchange Server 2007





Florida Department of Environmental Protection  
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

DEP Form # 42-701.800(7)  
Form Title Certification of Construction Completion  
Effective Date Mar 19, 1994  
DEP Application No. \_\_\_\_\_  
(Filed by DEP)

## Certification of Construction Completion of a Solid Waste Management Facility

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION

AUG 07 2012  
SOUTHWEST DISTRICT  
TAMPA

FDEP Construction Permit No.: 26254-002-SO/IM

County: Pasco

Name of Project: Pasco County Solid Waste Upgrade

Name of Owner: Pasco County Works/Utilities

Name of Engineer: CH2M HILL

Type of Project: Modification of existing site utilities (e.g. construction of new scales, scale house, roadwork, citizen drop off area and wash water holding tank)

Cost: Estimated \$6,263,753.00 Actual \$4,600,000.00

Site Design: Quantity: N/C ton/day Site Acreage Disposal Area 20 Acres

Deviations from Plans and Applications Approved by FDEP: Deviations were documented through Contract Clarification/ Interpretation Request (CCIR). A copy of the CCIR summary is attached.

Address and Telephone No. of Site: 14230 Hays Road, Spring Hill, FL 34610

Telephone: 727-856-0119

Name(s) of Site Supervisor: John Power, Program Solid Waste Operations Manager

Date Site Inspection is Requested: August 7, 2012

This is to certify that, with the exception of deviations noted above, the construction of the project has been completed in substantial accordance with the plans authorized by Permit Nos: 26254-002-SO/IM Dated: June 2, 2011

This "Certification" shall be as set forth in Rules of the State Board of Professional Engineers, Rule 61G15-18.011(4), which states:

"Certification" shall mean a statement signed and/or sealed by a professional engineer representing that the engineering services addressed therein, as defined in Section 471.005(6), Florida Statutes, have been performed by the professional engineer, and based upon the professional engineer's knowledge, information and belief, and in accordance with commonly accepted procedures consistent with applicable standards of practice, and is not a guaranty or warranty, either express or implied.

Date: 8/6/12

Signature of Professional Engineer: [Signature]



## Request and Answer Log

Job No:

Date: 8/6/2012

Project No: 378217

Page: 1 of 28

Type	To	Request From	Number	Issue	Title	Answer	Status	Dated	Responded	Required
RFC	CH2M	CH2M	00001		Power Light		CLO	9/26/2011	10/10/2011	10/3/2011
<p>Pursuant to numerous discussions with Withlacoochee River Electric Cooperative, Inc. to adequately coordinate the relocation of all conflicting power poles/lines, the attached relocation layout and cost proposal are being forwarded for Owner review and acceptance.</p> <p>The cost proposal however, is substantially larger than the Owner Allowance allocated for this feature of work. Please advise how the Owner would like to assess the additional funds needed to offset the actual cost to perform this work.</p> <p>Note, power poles/lines relocation cannot begin until full payment is received by Withlacoochee River Electric Cooperative, Inc..</p>						<p>The routing as indicated on the attached drawings is acceptable.</p> <p>An RFP will be issued in response to this CCIR.</p>				
RFC	CH2M	KOKOLAKI	00002		Schedule of Tests and Inspections		CLO	10/21/2011	10/31/2011	10/25/2011
<p>Pursuant to the discussions held at the Pre-Construction Meeting conducted on 9/14/11 and in compliance with General Conditions, Article 13.4, and Section 01410, 1.01C, all independent testing, inspections and related fees and approvals required by the Contract Documents are the responsibility of the Owner to employ and pay for.</p> <p>The only specific exception to this is noted in Section 31 23 16, 3.04, whereby the Contractor is to retain a testing laboratory for performing in-place density testing during sub-grade preparations.</p> <p>Requests for these services will be forwarded to the A/E as prescribed within Section 01410 – Field Testing and Testing Laboratory Services, The Contractor shall provide for all necessary field samples and coordination as may be required by the testing/inspection company.</p> <p>Attached, is a detailed breakdown of all testing, inspection, and approval requirements stipulated within the Contract Documents, whether performed in the field, at a laboratory, or by the manufacturer directly. This log of testing and inspection requirements will be utilized as a general template for all such requirements throughout the duration of the project.</p> <p>Please confirm these requirements and provide a contact list for all agents and labs that will be retained by the Owner for the performance of these services so that they can be properly coordinated.</p>						<p>General Conditions Article 1.34 States: OWNER shall employ and pay for the services of an independent testing laboratory to perform all inspections, tests or approvals required by the Contract Documents except</p> <p>...</p> <p>13.4.3 as otherwise specifically provided in the Contract Documents.</p> <p>Section 01410 of the Technical Specification provides further definition of the Contractor's responsibility for testing; making the Contractor responsible for all testing that is not specifically stated to be the Owner responsibility within the Technical specification. Section 01410 Paragraph 1.01.A states: Inspection and testing of materials unless otherwise noted or specified shall be the responsibility of the Contractor. For tests specified to be made by the Contractor, the testing personnel shall make the necessary inspections and tests and the reports thereof shall be in such form as will facilitate checking to determine compliance with the Contract Documents. Five copies of the reports shall be submitted and authoritative certification thereof must be furnished to the Engineer as a prerequisite for the acceptance of any material or equipment.</p> <p>Section 01410 Paragraph 1.01.C provide further clarification of the Contractor's responsibility for testing where the Owner is specifically indicated to be responsible for testing in the Contract Documents. Section 01410 Paragraph 1.01.C states: The Owner will employ and pay for services of an independent testing laboratory to perform testing specifically indicated in the Contract Documents, unless otherwise specified.</p> <p>1. Contractor shall complete a "Test Request and Test Result Summary" form included with this section for each test required by the Owner's independent testing laboratory. The form shall be completed and submitted to the Owner's RPR by 11:00 a.m. on the day prior to the test requirement.</p> <p>2. Contractor shall cooperate with the laboratory to facilitate the execution of its required services.</p> <p>3. Employment of the laboratory shall in no way relieve Contractor's obligations to perform the work of the Contract.</p>				

## Request and Answer Log

Job No:

Date: 8/6/2012

Project No: 378217

Page: 2 of 28

Type	To	Request From	Number	Issue	Title	Answer	Status	Dated	Responded	Required
RFC	CH2M	KOKOLAKI	00002A		Pursuant to the response CCIR 002		CLO	11/16/2011	11/8/2011	11/23/2011
<p>Pursuant to the response issued to preceding CCIR No. 002, please advise to the following additional interpretations to the Contract Documents:</p> <p>See Section 00800, SC-13.4, which clarifies the Owner's responsibility to employ, pay for, and manage the services for all testing, inspections, and/or approvals specified within the Contract Documents. This amendment gives no exception to the requirement stipulated.</p> <p>However, as a direct response to the article references supplied within CH2MHILL's response to CCIR No. 002; Section 01410, 1.01A simply states that responsibility to test and/or inspect work is by the Contractor. These requirements will be coordinated by our office to ensure compliance on initial testing or inspections of materials and/or installations. However, Section 01410, 1.01C clearly states that the Owner will employ and pay for such services, which coincides with the above referenced Section 00800, SC-13.4.</p> <p>It should also be noted that Section 01410, 1.03 and 1.04 further discloses the Contractor's responsibilities, which in no way requires the Contractor to retain, employ, pay for, or otherwise directly manage the requirements specified under Section 01410.</p> <p>The Tests and Inspections Log transmitted within preceding CCIR No. 002 holds true with regards to the requirements of the Contract Documents.</p> <p>Please also take note that our office is currently performing material testing in order to maintain progress with construction on both sites. In response to discussions at the pre-construction conference (subsequently documented within the minutes of the conference, Topic IX.10; below insert)...</p> <p>10. It was discussed and decided at the meeting that the Contractor would schedule all testing (soil, concrete, etc.) with an independent testing lab (PSI will be used). Where testing is the County's responsibility in the Contract Documents, the County will reimburse the Contractor for passed tests. Contractor will submit test result as QA Submittals.</p> <p>...our office has omitted the use of the Test and Inspection Request Form supplied within Section 01410 pursuant to the above statement as no formal response to the matter was provided within the preceding CCIR. Also per the above excerpt, our office has subsequently begun procuring testing services from PSI, Inc. To help mitigate this matter, our office will submit an NPC each month for all testing, inspection, and/or approvals in accordance with the Tests and Inspections Log (attached) supplemented within the issuance of CCIR No. 002.</p>						<p>The Owner and Engineer acknowledge the Contractor's interpretation of the contractual requirements for testing, but disagree. The Owner's and Engineer's interpretation of the testing requirement remains as stated in the response to CCIR 002, which is: The Contractor is responsible for conducting, paying for, and managing all testing, inspections, and/or approvals specified within the Contract Documents except where the Owner is specifically identified as having the responsibility for testing, which are:</p> <ul style="list-style-type: none"> <li>-Section 01810 - Equipment Testing and Facility Start-Up, Paragraph 3.03C(3) - Sampling and Lab Analysis</li> <li>-Section 03 01 32 - Repair Of Vertical and Overhead Concrete Surfaces, Paragraph 3.06 - Field Quality Control Testing</li> <li>- Section 03 21 00 - Reinforcing Steel, Paragraph 3.03 - Testing and Special Inspections</li> <li>-Section 05 12 00 - Structural Steel Framing, Paragraph 3.9 - Field Testing and Special Inspections</li> <li>-Section 05 50 00 - Metal Fabrications, Paragraph 2.07B(1) - Hot-Dip Galvanizing Testing and Inspections</li> <li>-Section 13 34 19 - Metal Building Systems for the Scalehouse, Canopy, Paragraph 3.08 - Field Quality Control</li> <li>- Section 32 92 00 - Turf and Grass, Paragraph 3.05 - Field Quality Control</li> </ul>				

Brantley, Anna

**From:** Brantley, Anna  
**Sent:** Monday, February 07, 2011 9:49 AM  
**To:** 'bkennedy@pascocountyfl.net'; 'SonawaneAS@cdm.com'; 'jpower@pascocountyfl.net'; Mulkey, Cindy; Morris, John R.; Pelz, Susan  
**Cc:** Morgan, Steve  
**Subject:** West Pasco Cell A-4 - PA87-23 Ash Monofill Construction Certification RAI #1 dated 2-7-2011.pdf (SECURED) - Adobe Acrobat Professional  
**Attachments:** West Pasco Cell A-4 - PA87-23 Ash Monofill Construction Certification RAI #1 dated 2-7-2011

Attached is an electronic copy of the Request for Additional Information (RAI #1) letter and attachments for the above permit application. This is the only copy you will receive.

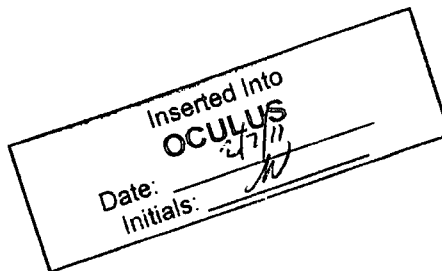
**NOTE:** If you have questions concerning the content of this document, please contact the DEP permit processor [steve.morgan@dep.state.fl.us](mailto:steve.morgan@dep.state.fl.us)

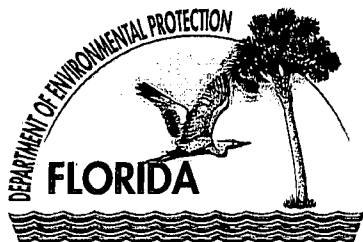
This is the only electronic copy you will receive. Acrobat Reader 6.0 or greater is required to read this document, and is available for downloading at: <http://www.adobe.com/products/acrobat/readstep.html>

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# Florida Department of Environmental Protection

Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-632-7600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard, Jr.  
Secretary

Transmitted electronically only to: [bkennedy@pascocountyfl.net](mailto:bkennedy@pascocountyfl.net)

Mr. Bruce E. Kennedy  
Assistant County Administrator  
Pasco County Utilities  
7530 Little Road  
New Port Richey, Fl. 34654

February 7, 2011

**RE: Pasco County Resource Recovery Facility, Pasco County  
Cell A-4 Ash Monofill Construction Certification  
Power Plant Site Certification No. PA87-23  
WACS No.: SWD/51/45799**

Dear Mr. Kennedy:

The Department has reviewed the above referenced Certification of Construction for the Cell A-4 Ash Monofill and supporting documents received on December 22, 2010. Based on the Department's review, the certification of construction is not approved at this time. This is the Department's first request for information. Please provide the information listed below promptly.

## **CDM COVER LETTER REPORT, DATED DECEMBER 21, 2010**

### 1. Section B:

a. This section of the cover letter report and several parts of the supporting documents refer to Technical Specification Section 00900, which was not included in the Technical Specifications provided as part of the post certification submittal. Please verify that Section 00900 is the CQA Plan for the project and that the CQA Plan was not modified other than changing the title of the document. In the event that the CQA Plan was modified in the creation of Section 00900, please provide a copy of Section 00900.

b. Specification Section 02230-2.01.B.5 specifies that the sand drainage layer shall have a minimum hydraulic conductivity of  $1 \times 10^{-3}$  cm/sec. The supporting certification documentation does not appear to include hydraulic conductivity conformance testing on the sand drainage layer material. Please revise this section to explain how conformance with this specification was verified and provide copies of any analytical testing and results relied upon, as applicable.

2. Section E: Compositional Analysis by Thermogravimetry does not appear to be a conformance test required by Specification Section 02274, as indicated in this section. Please verify and explain purpose of this test and the criteria utilized in determining acceptable results.

**CERTIFICATION OF CONSTRUCTION COMPLETION - DEP Form #62-701.900(2)**

**3. Deviations from Plans and Application Approved by DEP:**

a. This section of the certification form states, "The construction of this project was completed in general conformance with the approved plans and specifications by FDEP, dated August 24, 2009." As indicated by the comments provided below, there appear to be deviations from the plans and post certification submittals approved by the Department. Please verify and revise the cover letter report to provide a narrative, which identifies all changes in plans and construction and includes a description of the cause of the deviations from the "submittals" or "information" approved by the Department, in accordance with Section 4.3.h of the CQA Plan and Conditions of Certification # XIII.D.2. and #XIII.D.6. Please revise Form #62-701.900(2) accordingly to reference this narrative.

b. Department records do not appear to indicate that a post certification submittal was submitted to and approved by the Department for the construction deviations noted in the construction completion supporting information and/or identified in the Department comments provided below, or that these deviations were otherwise approved by the Department. Please verify and provide an explanation of why prior approval of these changes was not obtained from the Department, in accordance with Part A.3. of the clarification memo attached to the Department's August 24, 2009 Cell A-4 Construction post certification submittal approval letter and in accordance with Condition of Certification # XIII.D.2.

**SECTION 1 - DAILY CONSTRUCTION REPORTS & PHOTOS**

4. It appears that daily reports for December 2<sup>nd</sup>, 4<sup>th</sup>-6<sup>th</sup>, and 12<sup>th</sup>-14<sup>th</sup>; February 6<sup>th</sup>-7<sup>th</sup> and 10<sup>th</sup>-13<sup>th</sup>; and the second page of the March 6<sup>th</sup> report were not included in Section 1. Please verify whether daily reports were prepared for these days and provide copies of these reports, as applicable.

5. 2-15-2010 & 3-15-10: Please provide the logs and details for the identified Mortenson SPT borings and piezometers.

6. 3-4-2010: Please identify and discuss the modification to the leachate manhole location, depth, dimensions, etc. discussed in this and several other daily reports, and any other resulting modifications to the leachate management system, in the construction deviation narrative section (see Comment #3.a., above) and identify modifications to the leachate manhole & leachate management system on the revised record drawings (see Comment #42., below).

7. 4-21-2010: Please identify and discuss the redesign and relocation of the leachate force main discussed in this and several other daily reports in the construction deviation narrative section (see Comment #3.a., above) and identify modifications to the force main installation on the revised record drawings (see Comment #42., below).

8. 4-24-2010: Please verify whether the "folded back" geocomposite was damaged and discuss any necessary repairs made.

9. 6-9-2010: Please identify and discuss the modification to the east cell berm discussed in this and several other daily reports in the construction deviation narrative section (see Comment #3.a., above) and identify modifications to the east cell berm on the revised record drawings (see Comment #42., below).

10. 7-6-2010: Please identify and discuss the revised access road to the A-4 lift station for tanker trucks discussed in this and several other daily reports in the construction deviation narrative section (see Comment #3.a., above) and identify modifications to the access road on the revised record drawings (see Comment #42., below).

11. 7-8-2010: Please identify and discuss the misalignment of the vault to the lift station and the realignment of the lift station discussed in this and several other daily reports in the construction deviation narrative section (see Comment #3.a., above) and identify these modifications on the revised record drawings (see Comment #42., below).

12. 8-6-2010: Please identify and discuss the added berm in the Subcell 4 discussed in this and several other daily reports in the construction deviation narrative section (see Comment #3.a., above) and identify this modification on the revised record drawings (see Comment #42., below).

13. 10-28-2010: Please identify the pump discussed in this and other daily reports and discuss the pump modification in the construction deviation narrative section, as appropriate (see Comment #3.a., above). Please provide revised pump design information and calculations utilized in support of this modification, as applicable.

### **SECTION 3 - GCL PANEL PLACEMENT**

14. Please provide a panel layout drawing, for the GCL layer that includes the location of any repairs, as specified in Specification Section 02775-1.05.F.

### **SECTION 8 - DESTRUCTIVE TEST LOG**

#### **Secondary Log:**

15. DS-76: Both the secondary panel layout drawing provided in Appendix E and the destructive test report for DS-76 provided in Appendix A indicate that this test was conducted on Seam 146/147. Please verify that the location entry on this log is a data entry error.

16. DS-81B1: A destructive test location DS-81B1 was shown on the secondary panel layout drawing provided in Appendix E. However destructive test DS-81B1 was not identified in this log and a destructive test report for DS-81B1 was not provided in Appendix A. Please verify whether this destructive test was conducted and revise the panel layout drawing or provide the destructive test report for DS-81B1 and revise this log, as appropriate.

#### **Primary Log:**

17. DP-41: Both the primary panel layout drawing provided in Appendix E and the destructive test report for DP-41 provided in Appendix A indicate that this test was conducted on Seam 95/97. Please verify that the location entry on this log is a data entry error.

18. DP-55R1 - DP55R4: Destructive test locations for DP-55R1 through DP-55R4 are shown on primary panel layout drawing provided in Appendix E. However destructive tests DP-55R1 through DP-55R4 were not identified in this log and destructive test reports for DP-55R1 through DP-55R4 were not provided in Appendix A. Please verify whether these destructive tests were conducted and revise the panel layout drawing or provide the destructive test reports for DP-55R1 through DP-55R4 and revise this log, as appropriate.

### **SECTION 9 - PANEL PLACEMENT (SECONDARY AND PRIMARY GEOCOMPOSITE)**

19. Please provide panel layout drawings for the secondary and primary geocomposite layers that includes the location of any repairs, as specified in Section 4.3.h. of the CQA Plan, to verify conformance with Specification Section 02774-3.02.B.1.g.

## **APPENDIX A - PRECISION GEOSYNTHETIC LABORATORY REPORT**

### **Destructive Seam Test Reports:**

20. DS-81B: A destructive test location DS-81B was shown on secondary panel layout drawing provided in Appendix E and included in the secondary destructive test log provided in Section 9. However a destructive test report for DS-81B was not provided in Appendix A. Please verify whether this destructive test was conducted and revise the panel layout drawing and destructive test log or provide the destructive test report for DS-81B, as appropriate.

21. DP-82-DP87: Please verify that the destructive test reports for destructive tests DP-82 through DP-87 provided in Appendix A are identified as DS-82 through DS-87 on the report in error, and provide revised reports for these tests, as appropriate.

### **Geocomposite Conformance Test Reports:**

22. The geocomposite test reports indicate that both the geonet and geocomposite transmissivity tests were conducted at a normal pressure of 10,000 psf. Specification Section 02274-Table 1 specifies that the test will be conducted at 6780 psf. Please explain why the geocomposite transmissivity conformance tests were conducted at a different normal pressure and how transmissivity results at a different normal pressure was evaluated to verify compliance with project specifications.

23. A review of the geocomposite test reports indicates that only geocomposite transmissivity testing was conducted in 13 of the 22 conformance tests. Specification Section 02274-Table 1 specifies that the transmissivity conformance testing will be conducted on both the geocomposite and the geonet. Neither Specification Section 02274-Table 1 nor Section 5.3.1 of the CQA Plan appear to specify a reduced testing frequency for geonet transmissivity testing. Please explain this apparent deviation from the specified geocomposite conformance testing for this project.

24. Please identify and/or provide the test report for the in-situ transmissivity test conducted in accordance with Specification Section 02274-2.02.F.

## **APPENDIX D - LEACHATE COLLECTION SYSTEM VIDEO INSPECTION REPORT**

25. The narrative report and attached videos assigned identification numbers to the landfill cleanouts (CO 1 through CO 4). However since the record drawings do not appear to similarly assign numbers to the cleanouts, the specific leachate collection line being video inspected is not readily identifiable. Please verify and revise the record drawings as appropriate.

26. A review of the video inspection for all four leachate collection lines appear to indicate that the flow of liquid in the collection pipes is consistently being impeded (liquid was seen to be impounded in the pipes) upstream of the leachate valves. Please verify and explain this condition and provide a supporting analysis of how the leachate collection lines, as constructed, will function to convey leachate and prevent the impoundment of leachate in the disposal cells, in particular considering the post-construction settlement of the leachate lines predicted as part the approved post certification submittal for Cell A-4 construction.

### **CO 4 East to CO 4 West Video:**

27. Please explain the apparent upstream impoundments of liquids in the leachate collection line, not in the vicinity of an identified leachate valve, starting approximately at 550' and 48'.



**CO 3 East to CO 3 West Video:**

28. Please explain the apparent upstream impoundments of liquids in the leachate collection line, not in the vicinity of an identified leachate valve, starting at approximately 1035', 945', and 660'.

**North LD Header CO to South LD Header CO Video:**

29. Please explain the apparent upstream impoundments of liquids in the leak detection header line starting at approximately 195' and 69'.

30. Please explain the apparent oval shaped leak detection header line connection seen at approximately 20'. Please verify whether deflection testing was conducted in this area. Please conduct deflection testing on this section of pipe and provide the result if such testing has not been done, as applicable.

**CO 2 East to CO 2 West Video:**

31. Please explain the apparent upstream impoundments of liquids in the leachate collection line, not in the vicinity of an identified leachate valve, starting at approximately 995' and 135'.

32. Please explain the apparent deformed shaped pipe seen at approximately 388'.

**CO 1 East to CO 1 West Video:**

33. Please explain the apparent upstream impoundment of liquids in the leachate collection line, not in the vicinity of an identified leachate valve, starting at approximately 800'.

**North LC Header CO to South LC Header CO Video:**

34. Please explain the apparent upstream impoundment of liquids in the leachate collection header line starting at approximately 480' and 265'.

**APPENDIX E - INSTALLER'S (COMANCO) REPORT**

**QUALITY CONTROL DATA - PRIMARY:**

**Section C - Destructive Test Report/Location Summary Pre-Weld Tests:**

**35. Destructive Sample Report:**

a. Destruct Number 55: Destructive tests DP-55, DP-55A, DP-55B, and DP-55R1 through DP-55R4, as shown on the primary panel layout drawing provided in Appendix E appear to all be identified as Destructive Number 55 on this report. Please revise this report to specifically identify DP-55, DP-55A, DP-55B, and DP-55R1 through DP-55R4.

b. Destruct Number 55: Identical peel and shear test results were reported for all seven destructive tests identified as Destructive Number 55. Please verify the validity of these results and revise this report, as applicable.

**Section D - Seam Installation:**

36. **Repair Location Summary:** As shown on the Primary Panel Layout drawing in Section F and indicated in the Repair Report in Section D of Appendix E, Repair #50 is on panels 21/22/35; Repair #246 is on panels 116/115/118, Repair #424 is on panel 182; and Repair 425 is on panel 183. Please verify and revise this report or the Primary Panel Layout drawing, as appropriate.

**Section F - As-Built (Primary Panel Layout):**

37. The destructive test locations on the drawing were identified as "DS-1", rather than "DP-1". Since the destructive tests for the primary liner were identified as "DP" in the Destructive Seam Test Reports in Appendix A, please provide a revised Primary Panel Layout drawing identifying the destructive test location as "DP".

38. Repair #R-426 does not appear to be shown on this drawing. Please verify and provide a revised Primary Panel Layout drawing, as appropriate.

**QUALITY CONTROL DATA - SECONDARY:**

**39. Destructive Sample Report:**

a. Destruct Number 81: Destructive tests DS-81, DS-81A, DS-81B, DS-81B1, and DS-81B2, as shown on the primary panel layout drawing provided in Appendix E appear to all be identified as Destructive Number 81 on this report. Please revise this report to specifically identify DS-81, DS-81A, DS-81B, DS-81B1, and DS-81B2.

b. Destruct Number 81: Identical peel and shear test results were reported for four of the five destructive tests identified as Destructive Number 81. Please verify the validity of these results and revise this report, as applicable.

**Section D - Seam Installation:**

40. **Repair Location Summary:** Repair Numbers 421-423 identified in this report do not appear to be included in the Repair Report in Section D and Repair #423 does not appear to be shown on the Secondary Panel Layout drawing in Section F of Appendix E. Please verify and revise this report, the Repair Report and the Secondary Panel Layout drawing, as appropriate.

**APPENDIX F - WELL COMPLETION REPORT and APPENDIX G - INITIAL SAMPLING RESULTS**

41. Please address the comments in John Morris' February 2, 2011 memorandum (attached) regarding Appendices F and G. You may contact Mr. Morris at (813) 632-7600, extension 336, to discuss the items in his memorandum.

**RECORD DRAWINGS TITLED "WEST PASCO CLASS I LANDFILL CELL A-4 CONSTRUCTION"**

Please provide revised drawings that address the comments provided above and below, including all necessary details for certification of the construction of the GCCS. **The drawings may be reviewed in their entirety after the responses to these requests for information are submitted.**

42. As-built changes to the facility design from the approved construction drawings submitted as part of the post certification submittal for Cell A-4 construction are not identified on the record drawings, in accordance with Condition of Certification #XIII.D.6. Please provide revised record drawings that specifically identify changes made to the approved construction drawings (by clouding or other similar method). The revised drawings will be reviewed in their entirety and additional comments and requests for additional information or revisions may be generated based on the Department's review of the revised drawings.

43. **Sheet C-2:**

- a. Please explain why the invert elevations of the leachate collection manhole inlet and outlet were modified to be at the same elevation and how this does not impact gravity flow to the leachate pumping station.
- b. The leachate valve for the southern leachate collection line in Subcell 4 appears to be located beneath the temporary berm. Please verify and explain how this valve will be accessed prior to Subcell 4 operation.
- c. This sheet cross-references to Detail D on Sheet CD-1 for the cross-sectional detail of how the temporary berm was constructed. Please revise this sheet to also cross reference to the cross section detail of the constructed temporary berm where the leachate collection pipes penetrate the berm.

44. **Sheets C-16 through C-19; CD-6; and E-1 through E-5:** Please note that the construction details provided on these plan sheets were neither submitted as part of the post certification submittal for Cell A-4 construction nor approved as part of the Department's August 24, 2009 Cell A-4 Construction post certification approval letter. **This comment is provided for informational purposes and does not necessarily require a response, other than acknowledgement of the comment.**

45. **Sheet CD-3:**

- a. Detail J: Please explain the deletion of Detail J from Sheet CD-3. Please note that Detail J is referenced on approved Fill Sequence Drawings C-6 through C-11. Therefore, as applicable, please provide revised Drawings C-6 through C-11.

46. **Sheet CD-5:** Please identify and discuss the modifications to the stormwater pumping system shown on this plan sheet in the construction deviation narrative section requested in Comment #3.a. above and identify these modifications on revised record drawing Sheet CD-5.

47. **Sheet M-1:**

a. Section 1:

1) It appears that the as-built leachate pump station has been reduced in size and capacity from that designed and approved as part of the post certification submittal for Cell A-4 construction. Please explain this construction modification and provide supporting calculations (e.g. pump cycle and capacity calculations) that demonstrate that the leachate collection and removal system will function as designed with the smaller capacity pump station.

2) It appears that a 4<sup>th</sup> float switch has been added to the pump station. Please verify and explain the function of the 4<sup>th</sup> float switch.

b. Detail J:

1) It appear that the as-built secondary lift station manhole has been significantly reduced in size and capacity from that designed and approved as part of the post certification submittal for Cell A-4 construction. Please explain this construction modification and provide supporting calculations (e.g. pump cycle and capacity calculations) that demonstrate that the leachate collection and removal system will function as designed with the smaller capacity secondary lift station manhole.

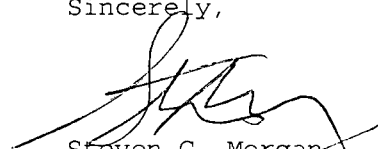
2) It appears that three additional float switches has been added to the secondary lift station manhole. Please verify and explain the function of these additional float switches.

Please provide all responses that relate to engineering for design and operation, including plan sheets, signed and sealed by a professional engineer. All replacement pages should be numbered and include a revision date.

This staff assessment is preliminary and is designed to assist in the review of the construction certification submittal. The comments provided herein are not the final position of the Department and may be subject to revision pursuant to additional information and further review.

Please be advised that under the provisions of Condition of Certification #XIII.D.6., operation of Cell A-4 is not authorized at this time. Please provide 2 copies of your response to this letter as one complete package. If you would like to discuss any issue in this letter or schedule a meeting with the Department to discuss these issues, please contact me at (813) 632-7600 ext. 385.

Sincerely,



Steven G. Morgan  
Solid Waste Section  
Southwest District

SM/sgm

cc: Aamod Sonawane, P.E., CDM, [sonawaneas@cdm.com](mailto:sonawaneas@cdm.com)  
John Power, Pasco County, [jpower@pascocountyfl.net](mailto:jpower@pascocountyfl.net)  
Cindy Mulkey, FDEP Siting, FDEP (e-mail)  
John Morris, P.G., FDEP Tampa SW (e-mail)  
Susan Pelz, P.E., FDEP Tampa SW (e-mail)

# Memorandum

## Florida Department of Environmental Protection

**TO:** Steve Morgan  
**FROM:** John R. Morris, P.G. *JRM*  
**DATE:** February 2, 2011  
**SUBJECT:** Pasco County Resource Recovery Facility [West Pasco Class I Landfill]  
Cell A-4 Construction Certification  
Construction Details/Initial Sampling Results for New Wells  
DEP Case #PA87-23; WACS facility #45799  
**cc:** Susan Pelz, P.E.

I have reviewed portions of the materials submitted as part of the certification for the construction of the Cell A-4 disposal area at the Pasco County Resource Recovery Facility. My focus was the information provided to document the construction details and locations of the new background wells [2MW-27S, 2MW-27D, 4MW-27, 4MW-27D] and new detection wells [2MW-24S, 2MW-24D, 2MW-25S, 2MW-25D, 2MW-26S, 2MW-26D], and the results of the initial ground water sampling events conducted at these new monitor wells, including:

- Appendix F – Well Completion Reports
  - Mortensen Engineering, Inc., correspondence dated October 29, 2010 transmitting documentation of abandonment for wells 2MW-20D, MW-11A, MW-11B and DMW-5
  - Mortensen Engineering, Inc., correspondence dated October 29, 2010 transmitting documentation of construction for wells 2MW-24S, 2MW-24D, 2MW-25S, 2MW-25D, 2MW-26S, 2MW-26D, 2MW-27S, 2MW-27D, 4MW-27 and 4MW-27D
- Appendix G – Initial Sampling Reports
  - Laboratory report of results [Pace Analytical and Pasco County Environmental Laboratory] of the July 1, 2010 sampling event conducted at wells 2MW-27S, 2MW-27D, 4MW-27, 4MW-27D
  - Laboratory report of results [Pace Analytical] of the September 9, 2010 sampling event conducted at wells 2MW-24S, 2MW-24D, 2MW-25S, 2MW-25D, 2MW-26S, 2MW-26D

The above-listed materials submitted to the Department were compared to the requirements presented in Part E of the clarification memorandum attached to the Department's August 24, 2009 Cell A-4 construction post certification approval letter, as follows:

- **Part #E.1.a.** – field work and laboratory analyses shall be conducted in accordance with Chapter 62-160, F.A.C., and the Department's Standard Operating Procedures [SOPs].
- **Part #E.3.** – proposed background and detection wells shall be constructed in accordance with the details described in Section 2.1.4 and Section 2.1.3, respectively, of the document entitled "Water Quality Monitoring Plan for the West Pasco County Class I Landfill, Revision 1," prepared by CDM, dated December 2008.
- **Part #E.4.** – the method detection limits used for analyses must be reported at values at or below the Maximum Contaminant Levels established for the individual parameters to demonstrate compliance with Class G-II ground water standards and with the ground water minimum criteria.
- **Part #E.4.a.** – ground water elevations shall be measured at all active monitor wells listed in Part #E.3., during all sampling events described in Part #E.4.b., to a precision of 0.01 foot; ground water surface elevation contour maps of the surficial aquifer and Floridan aquifer shall be prepared for each sampling event using elevations measured at each well.
- **Part #E.4.b.** – new wells shall have an "initial sampling event" conducted for the listed parameters.
- **Part #E.5.b.** – construction details for new wells shall be provided to the Department's Southwest District Office on Department Form #62-520.900(3), Monitor Well Completion Report.

*"Protect, Conserve and Manage Florida's Environment and Natural Resources"*

**Cell A4 Disposal Area -- Construction Details/Initial Sampling Results for New Wells**

- **Part #E.5.d.** – a surveyed drawing showing the locations and elevations of all monitor wells shall be prepared to meet the requirements of Section XIV.C.3.f of the Conditions of Certification for DEP Case #PA87-23.
- **Part #E.6.** – documentation shall be provided for abandoned wells.
- **Part #E.7.** – parameters reported at concentrations significantly above background or which exceed the Department's water quality standards or minimum criteria may be resampled to confirm the original analyses.
- **Part #E.10.a.** – results of each ground water, surface water and leachate sampling event shall be included in Electronic Data Deliverable [EDD] reports consistent with the requirements for importing data into the Department's database.

Please have the licensee submit supplemental information regarding the construction details for the new wells and the results of the initial ground water sampling event to address the following comments, as appropriate:

**1. Part #E.1.a.**Information Submitted:

- Appendix G provided the report of results for the July 1, 2010 and September 9, 2010 initial sampling events.

Deficiency:

- No documentation was provided to certify that the new background wells or new detection wells were purged in accordance with the Department's SOPs during the July 1, 2010 and September 9, 2010 initial sampling events, respectively.
- No documentation was provided to demonstrate that samples from the new background wells or new detection wells were collected in accordance with the Department's SOPs during the July 1, 2010 and September 9, 2010 initial sampling events, respectively.

Corrective Actions:

- Please provide a completed DEP Form #FD 9000-24 for each of the new wells included in the July 1, 2010 and September 9, 2010 initial sampling events.
- Please provide a completed DEP Form #62-701.900(31) for the July 1, 2010 and for the September 9, 2010 initial sampling events.

**2. Part #E.3./#E.5.b./#E.5.d.**Information Submitted:

- Appendix F provided the Well Construction Permits #805238, #805240, #805242, #805243, #806582 and #806614 issued by the Southwest Florida Water Management District.
- Appendix F provided the boring logs that described the lithology encountered at the locations of 2MW-24D, 2MW-25D, 2MW-26D and 2MW-27D.
- Appendix F provided DEP Form #62-520.900(3) for wells 2MW-24S, 2MW-24D, 2MW-25S, 2MW-25D, 2MW-26S, 2MW-26D, 2MW-27S, 2MW-27D, 4MW-27 and 4MW-27D.
- Appendix H provided the as-built survey, prepared by Florida Design Consultants, Inc., revised November 8, 2010, drawing #5 of 5.

Deficiency:

- The survey drawing provided northing/easting coordinates for new monitor wells.

Corrective Actions:

- Please provide a revised as-built survey (signed and sealed) that includes the degrees, minutes and seconds of latitude and longitude for the new monitor wells.

3. **Parts #E.4./#E.4.a./#E.4.b.**

Information Submitted:

- Appendix G provided the report of results prepared by Pace Analytical and by Pasco County Environmental Laboratory for the July 1, 2010 sampling event conducted at wells 2MW-27S [dry at the time of sampling], 2MW-27D, 4MW-27, and 4MW-27D.
- Appendix G provided the report of results prepared by Pace Analytical for the September 9, 2010 sampling event conducted at wells 2MW-24S, 2MW-24D, 2MW-25S [dry at the time of sampling], 2MW-25D, 2MW-26S [dry at the time of sampling], and 2MW-26D.

Deficiency:

- The report of results prepared by Pasco County Environmental Laboratory was not provided for the September 9, 2010 sampling event.
- Nine semi-volatile organic compounds referenced in Rule 62-701.510(8)(d), F.A.C. [the parameters listed in 40 CFR Part 258, Appendix II] were reported at elevated detection limits that do not demonstrate compliance with Class G-II ground water standards or ground water minimum criteria. Please refer to the **attached** table for these parameters.
- Ground water surface elevation contour maps were not submitted for water levels measured during the July 1, 2010 and September 9, 2010 initial sampling events.

Corrective Actions:

- Please provide report of results prepared by Pasco County Environmental Laboratory for the September 9, 2010 sampling event.
- Please coordinate with Pace Analytical to determine if the results for the July 1, 2010 and September 9, 2010 initial sampling events can be reported at lower detection limits to demonstrate compliance with ground water standards or minimum criteria. In the event that the laboratory can report at lower detection limits, please submit revised reports of results. For any parameter that cannot be reported at sufficiently lower detection limits, please conduct a supplemental sampling event using an appropriate analytical method and submit the results with the responses to these comments.
- Please provide ground water surface elevation contour maps for all wells at the facility for the July 1, 2010 and September 9, 2010 initial sampling events. In the event that water levels were not measured at all the required wells during the July 1, 2010 and September 9, 2010 initial sampling events, please conduct a supplemental round of ground water level measurements at "all active monitor wells" as referenced in Part #E.4.a., of the clarification memorandum attached to the Department's August 24, 2009 Cell A-4 construction post certification approval letter and submit a ground water surface elevation map using this data.

4. **Part #E.6.**

Information Submitted:

- Appendix F provided the abandonment records for wells 2MW-20D, MW-11A, MW-11B and DMW-5.

Deficiency:

- None.

Corrective Actions:

- None requested.

5. **Part #E.7.**

Information Submitted :

- Appendix G provided the report of results for the July 1, 2010 and September 9, 2010 initial sampling events.

Deficiency:

- The exceedances of the ground water standard reported for pH, arsenic, iron and TDS, the exceedance of the ground water minimum criterion reported for 3- & 4-methyl phenols, and the exceedance of the purging criterion for dissolved oxygen were not discussed. Please refer to the attached **table** for the concentrations reported for these parameters. No indication of whether a resampling event will be conducted to confirm the exceedances reported for these parameters was provided.

Corrective Actions:

- Please clarify if a resampling event will be conducted for parameters reported to exceed ground water standards or ground water minimum criteria or if the results of the July 1, 2010 and September 9, 2010 initial sampling events are considered to be representative of ground water quality of the facility. If a resampling event will be conducted, please submit the results of the resampling event with the responses to these comments.

6. **Part #E.10.a.**

Information Submitted:

- Appendix G provided the report of results for the July 1, 2010 and September 9, 2010 initial sampling events.

Deficiency:

- Appendix G did not include the results of the July 1, 2010 and September 9, 2010 initial sampling events as an EDD report in a format that allows the analytical results to be uploaded into the Department's database.

Corrective Actions:

- Please submit the results of the July 1, 2010 and September 9, 2010 initial sampling events [and the results of any resampling event conducted at the facility for parameters reported at elevated detection limits or parameters reported to exceed ground water standards/minimum criteria/purging criteria] as an EDD using an ADaPT-compatible format.

I can be contacted at 813-632-7600, extension 336, to discuss these comments.

Attachment – Table entitled “Summary of Inadequate Results for the July 1, 2010 and September 9, 2010 Sampling Events”

jrm



SUMMARY OF INADEQUATE RESULTS FOR THE JULY 1, 2010 AND SEPTEMBER 9, 2010 SAMPLING EVENTS

Facility Name -- West Pasco Class I

County -- Pasco

Date Sampled -- 7/1/10 & 9/9/10

Analytical Laboratory -- Pace Analytical, Pasco County Environmental Laboratory

Date Received -- 12/22/10

PARAMETERS	Ground Water Criteria	Criteria Type	CAS #	2MW-27D B/F	4MW-27 B/F	4MW-27D B/F	2MW-24S D/F	2MW-24D D/F	2MW-25D D/S	2MW-26D D/F	Notes (as needed)
<b>Field Measurements</b>											
pH [Std. Units]	6.5 - 8.5	2° GWS	--		8.82						Result reported outside ground water standard range
Dissolved Oxygen [mg/L]	<20% saturation	PC	--			4.51					Result reported to exceed purging criterion
<b>Metals/Semimetals</b>											
Arsenic [mg/L]	0.01	1° GWS	--		0.0125				0.0178		Result reported to exceed ground water standard
Iron [mg/L]	0.3	2° GWS	--						1.61		Result reported to exceed ground water standard
<b>Inorganics</b>											
Total dissolved solids (mg/L)	500	2° GWS	--	660					530		Result reported to exceed ground water standard
<b>Volatile Organics</b>											
No exceedances reported											
<b>SEMI-VOLATILE ORGANICS</b>											
Benzo[a]anthracene [µg/L]	0.05	MC	56-55-3	<0.6	<0.61	<0.6	<0.62	<0.6	<0.6	<0.63	Elevated MDL reported; PQL @ 0.2 µg/L
Benzo[a]pyrene [µg/L]	0.2	1° GWS	50-32-8	<0.55	<0.56	<0.55	<0.57	<0.55	<0.56	<0.58	Elevated MDL reported
Benzo[b]fluoranthene [µg/L]	0.05	MC	205-99-2	<0.59	<0.6	<0.59	<0.61	<0.59	<0.59	<0.62	Elevated MDL reported; PQL @ 0.1 µg/L
Benzo[k]fluoranthene [µg/L]	0.5	MC	207-08-9							<0.51	Elevated MDL reported
Dibenz[a,h]anthracene [µg/L]	0.6	MC	2303-16-4	<0.69	<0.7	<0.69	<0.72	<0.69	<0.7	<0.72	Elevated MDL reported
Dibenz[a,h]anthracene [µg/L]	0.005	MC	53-70-3	<0.62	<0.62	<0.62	<0.64	<0.62	<0.62	<0.65	Elevated MDL reported; PQL @ 0.2 µg/L
2,4-dinitrotoluene [µg/L]	0.05	MC	121-14-2	<0.51	<0.51	<0.5	<0.52	<0.5	<0.51	<0.53	Elevated MDL reported; PQL @ 0.2 µg/L
Indeno[1,2,3-cd]pyrene [µg/L]	0.05	MC	193-39-5	<0.7	<0.7	<0.7	<0.72	<0.69	<0.7	<0.73	Elevated MDL reported; PQL @ 0.2 µg/L
Kepon [µg/L]	0.004	MC	143-50-0	<10	<10	<10	<10	<10	<10	<10	Elevated MDL reported; PQL @ 6 µg/L
3- & 4-methyl phenols [µg/L]	3.5	MC	108-39-4, 106-44-5						7.8		Combined result reported to exceed ground water minimum criterion for 3-methyl phenol

1° GWS = primary ground water standard

2° GWS = secondary ground water standard

MC = minimum criterion (Chapter 62-777, F.A.C., Table 1)

PC = purging criterion [SOP FS 2200]

NE = not established

MDL = method detection limit

PQL = practical quantitation limits presented in Table C of DEP document "Guidance for the Selection of Analytical Methods and for the Evaluation of Practical Quantitation Limits," dated October 12, 2004; this document can be accessed at the following link:

[http://publicfiles.dep.state.fl.us/dear/labs/sas/library/docs/62\\_777final.pdf](http://publicfiles.dep.state.fl.us/dear/labs/sas/library/docs/62_777final.pdf)

Unless a PQL value is presented in the Notes column, the analytical laboratory must report an MDL at or below the ground water standard or minimum criterion to demonstrate compliance for that parameter

This represents the initial sampling event for the new background/detection wells associated with Cell A-4

- the new background wells were sampled 7/1/10, however well 2MW-27S was dry at the time of sampling

- the new detection wells were sampled 9/9/10, however wells 2MW-25S and 2MW-26S were dry at the time of sampling