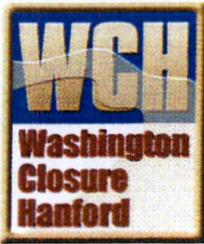


0094054

TANK 4 AND LEACHATE TRANSMISSION SYSTEM REPORT
CONSTRUCTION QUALITY ASSURANCE (CQA)

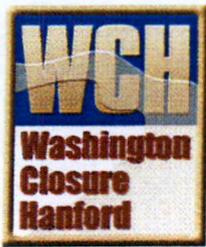
SECTION

8 OF 9



APPENDIX I.

EVENT REPORTS AND CORRECTIVE ACTIONS



I.1

SUPPLIER DEVIATION DISPOSITION REPORT

SUPPLIER DEVIATION DISPOSITION REQUEST LOG (SDDR'S)

Subcontract No.: S013213A00 ERDF Cells 9 & 10 CQA

Subcontractor: Envirotech Engineering and Consulting

WCH SDDR No. S013213A00-	EEC SDDR #	Description	Date WCH Received	Disposition		
				Date	Drawing Rev/DCN/Spec. No.	Completion Date
001	001	Request to change 0600XSP-C-0077, Rev. 1 to accommodate current length of geomembrane rolls. Therefore, change length from 492 LF to 540LF.	6/14/2010	Accepted 6/21/10	DCN 0600X-SP-C0077, 01-03, CN-017 written by C. Skiba	12/21/2010
002	002	Accept deviation on acceptance of sand cone verification vs nuclear gauge for material	7/15/2010	Accepted 8/9/10	0600X-QA-G0005	8/11/2010
003	003	Envirotech technician failed to weigh sand cone thus voiding test. Accept historical and process knowledge information	7/15/2010	Accepted 8/11/10	0600X-QA-G0005	8/11/2010
004	004	Accept deviation on acceptance of sand cone verification vs nuclear gauge for material	8/11/2010	Accepted 8/12/10	0600X-QA-G0005	8/12/2010
005	005	CQA did not meet requirements of Troxler Daily Calibration 8/7/10	8/19/2010	Accepted 8/30/10	N/A	8/30/2010
006	006	Anchor Trench Density Testing	10/11/2010	Accepted 10/25/10	0600X-SP-C0075 Sect.3.11.3	10/25/2010
007	007	CQA did not meet requirements of Troxler Daily Calibration 10/11/10	10/18/2010	Accepted 10/25/10	N/A	10/25/2010
008	008	Leachate removal system performance testing using installed pumps shall not be required	1/12/2011	Accepted 1/18/11	0600Z-QA-G0005, R.1	1/18/2011

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE			FOR WCH USE	
Supplier SDDR No.	Date Submitted	Project S013213A00	WCH SDDR No	Date Received
SDDR-1	6/14/10	Job No		
1 Supplier Name		Address		City State & Zip
Envirotech Engineering and Consulting		2500 N 11th Street		Enid, OK 73701
2 Supplier's Order No	3 Supplier's Part No	4 Supplier's Part Name	5 Deviation Detected <small>(Date & Method)</small>	6. All Previous SDDR <small>(No's & Dates)</small>
N/A	N/A	N/A	N/A	N/A
7. WCH P.O. & Rev. No	8 WCH MR No <small>(part term tag etc)</small>	9 WCH Part Name	10 WCH PQAR Notified <small>(Date & Method)</small>	11 WCH Eng Notified <small>(Date/Method)</small>
N/A	N/A	N/A	6/10/10 - Verbal	6/10/10 - Verbal
12. Deviation Description (Attach extra sheets photographs sketches etc. as necessary and identify quantity and serial No.'s as applicable). COA requests a change in the geosynthetic's specification 0600X-SP-C0077 Section 3.5.3.2 Geomembrane Seam Testing / Destructive Seam Strength Testing / Location and Frequency. The section indicates "Sampling frequency shall be a minimum of one sample per 492 feet of seam length per welding machine per day (this minimum frequency shall be determined as an average taken from the panels, including welds for caps), or a minimum of two samples per factory panel whichever gives the largest number of samples." COA requests modifying the seam length to 540-ft.				
13 Supplier's Proposed Disposition Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>				
14 Cost Impact -		15 Schedule Impact -		
16 Proposed Disposition and Technical (plus Cost/Schedule if applicable) Justification: Attach extra sheets sketches, etc., as necessary. The panel lengths for this project were specifically modified from the standard 500-ft lengths to 540-ft, which was the assumed standard when the specification was written. This causes COA to gather up to four (4) destructs per panel placed, which is excessive. The intent of COC/COA is to provide a quality product through adequate testing, removing/replacing damaging subgrade, minimizing cuts to the liner, and minimizing installation damage. By adding 50-ft of length to the frequency, a significant number of cuts to the liner can be removed.				
17 Associated Supplier Document Change(s)				
18 Supplier's Authorized Representative				
Name <u>JOSEPH E VOSS</u>		Signature <u>[Signature]</u>		
Title <u>CQA ENGINEER</u>		Date <u>6/14/10</u>		
19 WCH Engineering Action	Accepted <input checked="" type="checkbox"/>	Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change	
	Rejected <input type="checkbox"/>	<input checked="" type="checkbox"/> Spec/Req Change (<input checked="" type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Price Adjustment	
		Follow-Up <input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other	
20 WCH Disposition Statement including justification (Attach extra sheets sketches etc. as necessary) <u>WCH accepts the proposed disposition and will revise the spec accordingly. See Attached</u>				
FM <u>C.V. SKIBA / [Signature]</u>		FOR <u>N.F. MELVIN</u>		Date <u>12-22-10</u>
PE/SE <u>[Signature]</u>				Date <u>12-22-10</u>
22. Supplier <u>[Signature]</u>				Date <u>12/22/10</u>
23 WCH PQAR				Date

COMPLETED BY SUPPLIER

WCH

Sampling frequency shall be a minimum of one sample per ⁵⁰⁰~~492~~ feet of seam length per ^{welder per welding}~~machine per day~~ (this minimum frequency shall be determined as an average taken from the panels, including welds for caps), or a minimum of two samples per factory panel, whichever gives the largest number of samples. This frequency may be increased at the discretion of the CQA Subcontractor or CONTRACTOR.

3.5.3.3 Sampling Procedures. Samples shall be cut by the SUBCONTRACTOR as the seaming progresses to provide laboratory test results before completion of installation. The SUBCONTRACTOR shall assign a number to each sample, mark it accordingly, and record the sample location on the layout drawing.

Holes in the geomembrane resulting from destructive seam sampling shall be immediately repaired in accordance with repair procedures. The continuity of the new seams in the repaired area shall be tested as described in this Technical Specification.

3.5.3.4 Sample Size. The samples shall be 12 inches wide by 42 inches long with the seam centered lengthwise. One 1 inch wide strip shall be cut from each end of the samples, and these shall be tested in the field as described below. The remaining sample shall be cut into three parts and distributed as follows:

- a. One portion to the SUBCONTRACTOR for testing at his discretion, 12 inches x 12 inches.
- b. One portion to the CONTRACTOR for archive storage, 12 inches x 12 inches.
- c. One portion to the CQA Subcontractor for testing, 12 inches x 16 inches.

3.5.3.5 Field Testing. The two 1 inch wide strips described above shall be tested in the field by tensiometer for peel and shear and shall not fail in the seam. If any test sample fails to pass, then the procedures outlined below (Procedures for Destructive Test Failure) shall be followed.

The CQA Subcontractor will mark samples and portions with their number. The CQA Subcontractor will also record the date and time, ambient temperature, number of seaming unit, name of seamer, welding apparatus temperatures and pressures, and pass or fail descriptions, and attach a copy to each sample portion.

3.5.3.6 Procedures for Areas Failing Destructive Tests. The following procedures shall apply whenever a sample fails a destructive test, whether that test is conducted by the CQA Laboratory, the SUBCONTRACTOR's laboratory, or by field tensiometer. The SUBCONTRACTOR has two options:

- a. Cap the seam or replace the seam between any two passing test locations, or
- b. Trace the seam to two intermediate locations 10 feet minimum from the point of the failed test in each direction and take a small sample for an additional field test

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No	Date Submitted	Project S013213A00	WCH SDDR No.
SDDR-2	7/15/10	Job No 14655	S013213A00-008
1 Supplier Name		Address	
Envirotech Engineering and Consulting		2500 N 11th Street	
		Enid, OK 73701	
2. Supplier's Order No	3 Supplier's Part No	4 Supplier's Part Name	5 Deviation Detected
N/A	N/A	N/A	N/A
7. WCH P O & Rev. No.	8. WCH MR No.	9 WCH Part Name	10 WCH PQAR Notified
N/A	N/A	N/A	5/11/10 & 6/1/10 - Verbal
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable) CQA did not meet the requirements of the construction specification 0600X-CQA-G0005 by failing to conduct one (1) sand cone test per shift for Troxler gauge verification on the days of 5/10/10 and 5/27/10.			
13. Supplier's Proposed Disposition			
Use As-Is		<input checked="" type="checkbox"/> Repair	<input type="checkbox"/> Modify WCH Requirement
14. Cost Impact -		15. Schedule Impact -	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable) Justification Attach extra sheets, sketches, etc. as necessary On both days, sand cones were performed to verify the calibration of the Troxler moisture density gauge however the sand cones were performed on sand fill part of the embankments. While this does not meet the required testing in table 4-1.2 in the CQA plan, the Troxler device was compared to a sand cone on the days of operation.			
17. Associated Supplier Document Change(s)			
18. Supplier's Authorized Representative:			
Name <u>Joseph Vesi</u>		Signature <u>[Signature]</u>	
Title <u>CQA Engineer</u>		Date <u>7/15/10</u>	
19. WCH Engineering Action	Engineering Action	Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	Licensing Document Change
<input checked="" type="checkbox"/> Accepted	<input type="checkbox"/> Spec/Req Change	(<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Price Adjustment
<input type="checkbox"/> Rejected	Follow-Up	<input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other
20. WCH Disposition Statement including Justification (Attach extra sheets, sketches, etc. as necessary) <u>WCH is accepts the proposed disposition to "use as-is"</u>			
21. WCH Disposition Approval/Signature		Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	
FM <u>W. F. M. Green</u>		Date <u>4/10/10</u>	
PE/SE <u>Z. White</u>		Date <u>8/9/10</u>	
22. Supplier <u>[Signature]</u>		Date <u>8/11/10</u>	
23. WCH PQAR		Date	

COMPLETED BY SUPPLIER

WCH

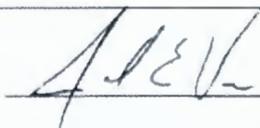
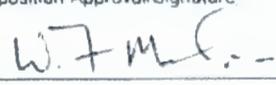
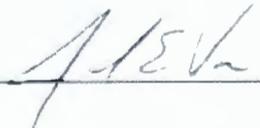
SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No. SDDR-2	Date Submitted 7/15/10	Project: S013213A00 Job No. 14655	WCH SDDR No. S013213A00-000
		Date Received 7/15/10	
1. Supplier Name Envirotech Engineering and Consulting		Address 2500 N. 11th Street	
		City State & Zip Enid, OK 73701	
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) N/A
7. WCH P.O. & Rev No. N/A		8. WCH MR No. (part, item tag, etc.) N/A	9. WCH Part Name N/A
		10. WCH PQAR Notified (Date & Method) 5/11/10 & 6/1/10 - Verbal	11. WCH Eng. Notified (Date/Method) N/A
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). CQA did not meet the requirements of the construction specification 0600X-QA-G0005 by failing to conduct one (1) sand cone test per shift for Troxler gauge verification on the days of 5/10/10 and 5/27/10.			
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Modify WCH Requirement <input type="checkbox"/>			
14. Cost Impact: -		15. Schedule Impact: -	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable) Justification: Attach extra sheets, sketches, etc., as necessary. On both days, sand cones were performed to verify the calibration of the Troxler moisture density gauge, however, the sand cones were performed on sand fill part of the embankments. While this does not meet the required testing in table 4-1.2 in the CQA plan, the Troxler device was compared to a sand cone on the days of operation.			
17. Associated Supplier Document Changes(s)			
18. Supplier's Authorized Representative			
Name: <u>Joseph Voss</u>		Signature: <u>[Signature]</u>	
Title: <u>CQA Engineer</u>		Date: <u>7/15/10</u>	
19. WCH Engineering Action:			
<input type="checkbox"/> Accepted	Engineering Action	<input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change
<input type="checkbox"/> Rejected		<input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Price Adjustment
	Follow-Up	<input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary)			
21. WCH Disposition Approval/Signature			
FM _____		Date _____	
PE/SE _____		Date _____	
22. Supplier _____		Date _____	
23. WCH PQAR _____		Date _____	

COMPLETED BY SUPPLIER

WCH

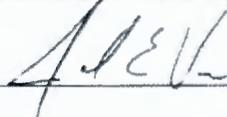
SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No	Date Submitted	Project S013213A00	WCH SDDR No
SDDR-3	7/15/10	Job No. 14655	S013213A00-003
1 Supplier Name		Address	
Envirotech Engineering and Consulting		2500 N 11th Street	
		Enid, OK 73701	
2 Supplier's Order No.	3 Supplier's Part No.	4 Supplier's Part Name	5 Deviation Detected (Date & Method)
N/A	N/A	N/A	N/A
7 WCH P.O. & Rev No.	8 WCH MR No. (part term tag etc.)	9 WCH Part Name	10 WCH PQAR Notified (Date & Method)
N/A	N/A	N/A	6/22/10 - Verbal
6. All Previous SDDR Nos & Dates			
N/A			
11. WCH Eng. Notified (Date/Method)			
N/A			
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable) CQA did not meet the requirements of the construction specification 0600X-QA-G0005 by failing to conduct one (1) sand cone test per shift for Troxler gauge verification on the days of 6/18/10			
13. Supplier's Proposed Disposition			
Use As-Is <input checked="" type="checkbox"/>		Repair <input type="checkbox"/>	
		Modify WCH Requirement <input type="checkbox"/>	
14. Cost Impact: -		15. Schedule Impact: -	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. A sand cone was performed on the day of 6/18/10 however, the sand cone was not weighed when empty. Sand cone tests prior to the event and following the event compare favorable with the Troxler results. In addition, standard counts of the Troxler device show no interrupt in the calibration of the device in this time period. Give the sizable amount of data supporting the Troxler continuing to act within calibration limits. CQA suggests a use-as-is disposition.			
17. Associated Supplier Document Change(s)			
18. Supplier's Authorized Representative			
Name: Joseph Voss		Signature: 	
Title: CQA Engineer		Date: 7/15/10	
19. WCH Engineering Action	Engineering Action	Drawing Change <input type="checkbox"/>	(<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)
<input type="checkbox"/> Accepted		Spec/Req. Change <input type="checkbox"/>	(<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)
<input type="checkbox"/> Rejected	Follow-Up <input type="checkbox"/>	Other Suppliers Affected <input type="checkbox"/>	
		Other <input type="checkbox"/>	
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc. as necessary)			
WCH accepts the proposed disposition to "use as-is"			
21. WCH Disposition Approval/Signature	Field Support Action Required?		<input type="checkbox"/> Yes <input type="checkbox"/> No
FM 			Date: 8/11/10
PE/SE 			Date: 8/9/10
22. Supplier			Date: 8/11/10
23. WCH PQAR			Date: _____

COMPLETED BY SUPPLIER

WCH

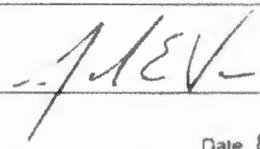
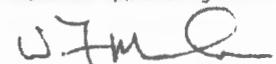
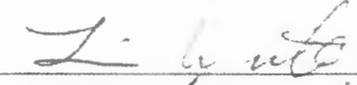
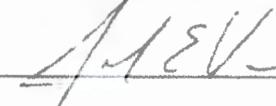
SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No	Date Submitted	Project S013213A00	WCH SDDR No
SDDR-3	7/15/10	Job No 14653	S013213A00-003
1 Supplier Name		Date Received	
Envirotech Engineering and Consulting		7/15/10	
Address		City, State & Zip	
2500 N 11th Street		Enid, OK 73701	
2. Supplier's Order No.	3. Supplier's Part No	4. Supplier's Part Name	5. Deviation Detected (Date & Method)
N/A	N/A	N/A	N/A
6. All Previous SDDR Nos & Dates	N/A		
7. WCH P.O. & Rev. No.	8. WCH MR No (part term tag etc)	9. WCH Part Name	10. WCH PQAR Notified (Date & Method)
N/A	N/A	N/A	6/22/10 - Verbal
11. WCH Eng. Notified (Date/Method)			
N/A			
12. Deviation Description (Attach extra sheets, photographs, sketches, etc. as necessary and identify quantity and serial No.'s as applicable). CQA did not meet the requirements of the construction specification 0600X-QA-G0005 by failing to conduct one (1) sand cone test per shift for Troxler gauge verification on the days of 6/18/10			
13. Supplier's Proposed Disposition			
Use As-Is <input checked="" type="checkbox"/>		Repair <input type="checkbox"/>	
		Modify WCH Requirement <input type="checkbox"/>	
14. Cost Impact -		15. Schedule Impact -	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable) Justification. Attach extra sheets, sketches, etc., as necessary. A sand cone was performed on the day of 6/18/10, however, the sand cone was not weighed when empty. Sand cone tests prior to the event and following the event compare favorable with the Troxler results. In addition, standard counts of the Troxler device show no interrupt in the calibration of the device in this time period. Give the sizable amount of data supporting the Troxler continuing to act within calibration limits. CQA suggests a use-as-is disposition.			
17. Associated Supplier Document Change(s)			
18. Supplier's Authorized Representative			
Name <u>Joseph Voss</u>		Signature 	
Title <u>CQA Engineer</u>		Date <u>7/15/10</u>	
19. WCH Engineering Action			
<input type="checkbox"/> Accepted	Engineering Action	<input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change
		<input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Price Adjustment
<input type="checkbox"/> Rejected	Follow-Up	<input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc. as necessary)			
21. WCH Disposition Approval/Signature			
FM _____		Date _____	
PE/SE _____		Date _____	
22. Supplier _____		Date _____	
23. WCH PQAR _____		Date _____	

COMPLETED BY SUPPLIER

WCH

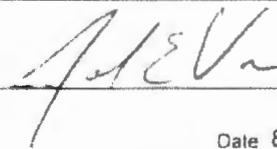
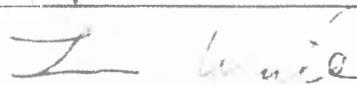
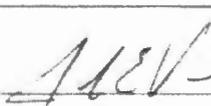
SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No.	Date Submitted	Project SQ13213A00	WCH SDDR No
SDDR-4	8/10/10	Job No	004
1 Supplier Name		Address	
Envirotech Engineering and Consulting		2500 N 11th Street	
		City State & Zip	
		Enid, OK 73701	
2 Supplier's Order No	3 Supplier's Part No	4 Supplier's Part Name	5 Deviation Detected
N/A	N/A	N/A	Date & Method
6. All Previous SDDR No's & Dates		N/A	
7 WCH P O & Rev No	8 WCH MR No	9 WCH Part Name	10 WCH PQAR Notified
N/A	part term tag etc.	N/A	Date & Method
11 WCH Eng. Notified		Date/Method	
N/A		8/10/10	
12 Deviation Description (Attach extra sheets, photographs, sketches, etc. as necessary and identify quantity and serial No.'s as applicable) CQA did not meet the requirements of the construction specification 0600X-QA-G0005 by failing to conduct one (1) sand cone test per shift for Troxler gauge verification on the days of 8/18/10			
13. Supplier's Proposed Disposition			
Use As-Is		<input checked="" type="checkbox"/> Repair	<input type="checkbox"/> Modify WCH Requirement
14 Cost Impact -		15 Schedule Impact -	
16. Proposed Disposition and Technical (plus Cost/Schedule if applicable) Justification (Attach extra sheets, sketches, etc., as necessary) A sand cone was performed on the day of 8/2/10 however the oven dried sample was not weighed prior to disposal. Sand cone tests prior to the event and following the event compare favorable with the Troxler results. Standard counts of the Troxler device show no interrupt in the calibration of the device in this time period. Give the sizable amount of data supporting the Troxler continuing to act within calibration limits. CQA suggests a use-as-is disposition. In addition, CQA has held a corrective action meeting to discuss previous sand cone failures and to assign specific job tasks.			
17 Associated Supplier Document Change(s)			
18. Supplier's Authorized Representative			
Name <u>Joseph Voss</u>		Signature 	
Title <u>CQA Engineer</u>		Date <u>8/10/10</u>	
19 WCH Engineering Action	Engineering Action	Drawing Change	(<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)
<input checked="" type="checkbox"/> Accepted	<input type="checkbox"/>	Spec/Req Change	(<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)
<input type="checkbox"/> Rejected	Follow-Up	<input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other
20 WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc. as necessary) <u>WCH accepts the proposed disposition to use "as-is"</u>			
21 WCH Disposition Approval/Signature		Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	
FM		Date	<u>8/12/10</u>
PE/SE		Date	<u>8/11/10</u>
22. Supplier		Date	
23 WCH PQAR		Date	

COMPLETED BY SUPPLIER

WCH

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No SDDR-5	Date Submitted 8/18/10	Project S013213A00	WCH SDDR No S013213A00-005
		Job No	Date Received 8/19/10
1 Supplier Name Envirotech Engineering and Consulting		Address 2500 N 11th Street	
		City State & Zip Enid OK 73701	
2 Supplier's Order No N/A	3 Supplier's Part No N/A	4 Supplier's Part Name N/A	5 Deviation Detected Date & Method N/A
6 All Previous SDDR (Nos & Dates) N/A			
7 WCH P.O. & Rev No N/A	8 WCH MR No part term tag etc. N/A	9 WCH Part Name N/A	10 WCH PQAR Notified Date & Method 8/18/10 - SDDR
11 WCH Eng. Notified (Date/Method) 8/18/10			
12. Deviation Description (Attach extra sheets, photographs, sketches, etc. as necessary and identify quantity and serial No.'s as applicable) CQA did not meet the requirements of Troxler Daily Calibration the day of Saturday 8/7/10. The gauge dry density standard count was out of calibration by few of numbers, however due to a miscalculation by the technician the gauge was thought to be within calibration. The gauge was utilized to perform sixteen (16) test the day of 8/7/10.			
13. Supplier's Proposed Disposition Use As-Is <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Modify WCH Requirement <input type="checkbox"/>			
14. Cost Impact -		15. Schedule Impact -	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable): Justification. Attach extra sheets, sketches, etc. as necessary. See attached sheet			
17. Associated Supplier Document Changers)			
18. Supplier's Authorized Representative			
Name <u>Joseph Voss</u>		Signature 	
Title <u>CQA Engineer</u>		Date <u>8/18/10</u>	
19 WCH Engineering Action	Engineering Action	<input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change
	<input checked="" type="checkbox"/> Accepted	<input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Price Adjustment
<input type="checkbox"/> Rejected	Follow-Up	<input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other
20 WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc. as necessary) <u>WCH Accepts the suppliers proposed disposition to use as is.</u>			
21 WCH Disposition Approval/Signature			
FM 		Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	
PE/SE 		Date <u>8/30/10</u>	
22 Supplier 		Date <u>8/30/10</u>	
23 WCH PQAR		Date	

COMPLETED BY SUPPLIER

WCH

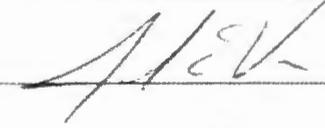
Justification

The gauge is within Troxler calibration limits. Daily calibration is based upon the last 3 readings of the Troxler unit. Dry density standard counts from both before and after 8/7/10 indicate the gauge is functioning properly.

The dry density reading from 8/7/10 was within the normal acceptable "window" of readings; however, the standard count the day before, 8/6/10, shifted the acceptable window slightly higher, pulling the reading from 8/7/10 just outside of acceptable. If the number from 8/6/10 was not calculated, the dry density standard count would have been acceptable. The margin of failure on the calibration is relatively small; therefore, due to the large number of acceptable readings, and the relative proximity of the reading to the acceptable range of dry density standard counts, CQA recommends a use-as-is.

As a corrective action, the CQA engineer shall have a meeting with all technicians reviewing the standard count calculation. In addition, all standard counts shall be double checked by a second technician/CQA staff member.

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE			FOR WCH USE	
Supplier SDDR No	Date Submitted	Project S013213A00	WCH SDDR No	Date Received
SDDR-06	10/11/10	Job No	006	10-12-10
1 Supplier Name		Address		City, State & Zip
Envirotech Engineering and Consulting		2500 N 11th Street		Enid, OK 73701
2 Supplier's Order No	3 Supplier's Part No	4 Supplier's Part Name	5 Deviation Detected <small>(Date & Method)</small>	6 All Previous SDDR <small>(No's & Dates)</small>
N/A	N/A	N/A	N/A	N/A
7 WCH P.O. & Rev No	8 WCH MR No <small>(Part Term Tag etc.)</small>	9 WCH Part Name	10 WCH PQAR Notified <small>(Date & Method)</small>	11 WCH Eng. Notified <small>(Date/Method)</small>
N/A	N/A	N/A	10/11/10	10/11/10
12 Deviation Description (Attach extra sheets, photographs, sketches, etc. as necessary and identify quantity and serial No's as applicable). CQA requests a deviation/change from the construction quality assurance plan 0600X-QA-G005 Table 4-1.5 Anchor Trench/Side Slope Riser Pipe Trench. CQA requests that In-place Density (D6938) be removed as a test for anchor trenches, or the words anchor trench be removed from the title.				
13. Supplier's Proposed Disposition Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>				
14. Cost Impact: -			15. Schedule Impact: -	
16. Proposed Disposition and Technical (plus Cost/Schedule if applicable). Justification: Attach extra sheets, sketches, etc. as necessary. According to 0600X-SP-C0075 Section 3.11.3 Fill for Anchor Trenches, the anchor trench has no associated end specification for compaction. The specification is a methodology specification and CQA can verify this specification with observation as outlined in 0600X-QA-G005 Section 4.5.1.				
17. Associated Supplier Document Change(s) 0600X-QA-G005				
18. Supplier's Authorized Representative				
Name <u>Joseph Voss</u>		Signature 		
Title <u>CQA Engineer</u>		Date <u>10/11/10</u>		
19 WCH Engineering Action	Engineering Action	<input type="checkbox"/> Drawing Change	(<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change
	<input checked="" type="checkbox"/> Accepted	<input type="checkbox"/> Spec/Req. Change	(<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Price Adjustment
<input type="checkbox"/> Rejected	Follow-Up	<input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other	
20 WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc. as necessary)				
WCH accepts the deletion of the compaction testing of the Anchor Trench. CQA is directed to observe and note the compaction methodology to be included in the appropriate reports.				
21 WCH Disposition Approval/Signature		Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No		
FM	<u>W. F. M...</u>	Date	<u>10/26/10</u>	
PE/SE	<u>L. White</u>	Date	<u>10/25/10</u>	
22 Supplier		Date		
23 WCH PQAR		Date		

COMPLETED BY SUPPLIER

WCH

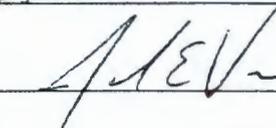
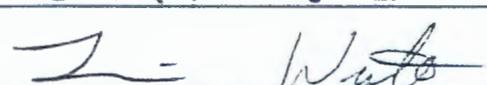
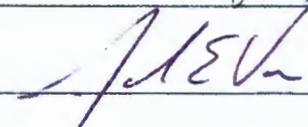
SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No	Date Submitted	Project: S013213A00	WCH SDDR No.
SDDR-07	10/18/10	Job No	5013213A00-007
1 Supplier Name		Address	
Envirotech Engineering and Consulting		2500 N 11th Street	
		City State & Zip	
		Enid, OK 73701	
2. Supplier's Order No	3. Supplier's Part No	4. Supplier's Part Name	5. Deviation Detected (Date & Method)
N/A	N/A	N/A	N/A
7 WCH P O & Rev No	8 WCH MR No (part term tag etc)	9. WCH Part Name	10 WCH PQAR Notified (Date & Method)
N/A	N/A	N/A	10/13/10
11 WCH Eng. Notified (Date/Method)			
10/13/10			
12 Deviation Description (Attach extra sheets, photographs, sketches, etc. as necessary and identify quantity and serial No.'s as applicable) COA did not meet the requirements of Troxler Daily Calibration the day of Monday October 11 2010. The gauge dry density standard count was out of calibration by few of numbers due to a miscalculation by the technician the gauge was thought to be within calibration. The gauge was utilized to perform ten (10) tests that day on the Tank 4 ring wall backfill.			
13. Supplier's Proposed Disposition			
Use As-Is		<input checked="" type="checkbox"/> Repair	<input type="checkbox"/> Modify WCH Requirement
14. Cost Impact: -		15. Schedule Impact: -	
16. Proposed Disposition and Technical (plus Cost/Schedule if applicable) Justification Attach extra sheets, sketches, etc. as necessary The gauge moisture count was slightly off due to the low temperatures experienced in the morning hours. Since the gauge was only off by a couple of numbers, and subsequent tests show the gauge within calibration, it is believed that the gauge readings were correct the day of the testing. In addition, CQC results corroborate CQA testing on the tank 4 ring wall. From this point forward, all gauge calibrations shall be conducted by the COA engineer prior to gauge usage.			
17. Associated Supplier Document Change(s)			
18. Supplier's Authorized Representative			
Name <u>Joseph Vas</u>		Signature <u>[Signature]</u>	
Title <u>COA Engineer</u>		Date _____	
19 WCH Engineering Action	Engineering Action	<input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change
<input checked="" type="checkbox"/> Accepted	<input type="checkbox"/> Spec/Req Change	(<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Price Adjustment
<input type="checkbox"/> Rejected	Follow-Up	<input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other
20 WCH Disposition Statement including Justification (Attach extra sheets, sketches, etc. as necessary) <u>WCH accepts the proposed disposition.</u>			
21 WCH Disposition Approval/Signature		Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	
FM	<u>[Signature]</u>	Date	<u>10/26/10</u>
PE/SE	<u>[Signature]</u>	Date	<u>10/25/10</u>
22 Supplier		Date	
23 WCH PQAR		Date	

COMPLETED BY SUPPLIER

WCH

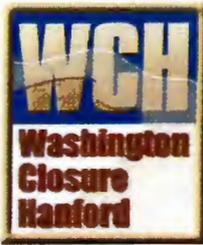
SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No.	Date Submitted	Project: S013213A00	WCH SDDR No.
SDDR-08	1/12/11	Job No.:	Date Received
1. Supplier Name		Address	
Envirotech Engineering and Consulting		2500 N. 11th Street	
		City, State & Zip	
		Enid, OK 73701	
2. Supplier's Order No.	3. Supplier's Part No.	4. Supplier's Part Name	5. Deviation Detected (Date & Method)
N/A	N/A	N/A	N/A
6. All Previous SDDR (No's & Dates)	N/A		
7. WCH P.O. & Rev. No.	8. WCH MR No. (part, item, tag, etc.)	9. WCH Part Name	10. WCH PQAR Notified (Date & Method)
N/A	N/A	N/A	1/10/11
11. WCH Eng. Notified (Date/Method)			
1/10/11			
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). WCH notified CQA that the leachate removal system performance testing utilizing the installed pumps shall not be required on the leachate transmission system due to concerns of the existing pipeline becoming contaminated by the existing radiological pipeline.			
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>			
14. Cost Impact: -		15. Schedule Impact: -	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. CQA is requesting a deviation from the CQA plan to not require the leachate removal system performance testing as indicated in 0600Z-QA-G0005 Rev. 1 page 36 of 51.			
17. Associated Supplier Document Change(s): 0600Z-QA-G0005 Rev. 1 page 36 of 51.			
18. Supplier's Authorized Representative:			
Name: <u>Joseph Voss</u>		Signature: 	
Title: <u>Senior CQA Engineer</u>		Date: <u>1/12/11</u>	
19. WCH Engineering Action:	<input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Licensing Document Change <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Price Adjustment <input type="checkbox"/> Rejected <input type="checkbox"/> Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other		
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary)			
See Attached Sheet			
21. WCH Disposition Approval/Signature		Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	
FM:		Date:	<u>1/17/11</u>
PE/SE:		Date:	<u>1/17/11</u>
22. Supplier:		Date:	<u>1/18/11</u>
23. WCH PQAR:		Date:	

COMPLETED BY SUPPLIER

WCH

WCH accepts the deviation and the proposed disposition. The pipeline has been proven to convey water from MH-32 to MH-38 and the pumps in the crest pad building have been tested and are capable of pumping water to MH-32. A complete test would add little if any value given that the individual systems have been proven and operate correctly. Since Tank #4 is connected to the existing system, any test that would run water from the crest pad building to Tank #4 would potentially introduce contamination in to Tank #4 prior to its being certified for use.



1.2

CONSTRUCTION CONTRACTOR SUPPLIER DEVIATION DISPOSITION REPORT



SUPPLIER DEVIATION DISPOSITION REQUEST LOG (SDDR'S)

Subcontract No: S012308A00, ERDF, CELLS 9 & 10
TradeWind Services, LLC

WCH SDDR No. #S012308A00-	TW SDDR #	Description	Date WCH Received	Disposition		
				Date	Drawing Rev/DCN/Spec	Completion Date
001	TW-001	60 Mil Textured Liner Edges	2/10/2010	Accepted 3/30/10	0600X-SP-C0077, Section 2.1.1	4/5/2010
002	TW-002	Crest Pad Building Structural Plans and Sections	2/14/2010	Rejected 3/17/10	Dwg. 0600X-DD-C0475	4/7/2010
003	TW-003	Utilizing crushed aggregate base course	3/9/2010	Accepted 3/30/10	0600-SP-0078, 20103	4/1/2010
004	TW-004	Base course compaction	3/6/2010	Accepted 3/18/10	(CN-001, Rev. 2 Transportation Laydown Expansion.)	3/30/2010
005	TW-005	Crest Pad Building Siding	3/10/2010		VOIDED	
006	TW-006	Subgrade grading tolerance	3/23/2010	Accepted 3/30/10	0600-SP-DD-C0458, Note 4	4/7/2010
007	TW-007	Fills & Embankment Spec's Section	4/28/2010	Rejected 5/18/10	0600-SP-C0075	5/18/2010
008	TW-008	Pipes, Valves & Special Spec. changes	5/2/2010	Accepted 5/4/10	0600-SP-M0032, R.1	5/5/2010
009	TW-009	Slope Subgrade Tolerance +0.00 to -0.40	5/7/2010	Accepted 5/21/10	0600-DD-C0458	6/21/2010
010	TW-010	Trial Seams Spec Change	5/7/2010	Accepted 6/1/10	SP-C0077, 3.5.1	6/1/2010
011	TW-011	CN-016 New Tank Drain Tie-In & Leak Detection Slope	5/24/2010	Accepted 6/1/10	Dwgs. C0468 & C0469	6/1/2010
012	TW-012	Propose utilizing a 2" clearance when using #4 rebar	6/21/2010		VOIDED	
013	TW-013	Butting geocomposite to existing secondary drainage layer	7/7/2010		VOIDED	
014	TW-014	Lined bolted steel liquid storage tank	7/8/2010	Accepted 7/13/10	0600-SP-C0082, Rev. 1	7/13/2010
015	TW-015	Change 3" conduit to 2" conduit	8/3/2010	Accepted 8/10/10	DCN 0600X-DD-E0218-00-02	8/10/2010
016	TW-016	Drainage gravel type A	8/5/2010	Accepted 8/12/10	0600X-SP-C0078, Rev. 0; section 2.2	8/17/2010
017	TW-017	Geotextile handling & Placement	8/24/2010	Accepted 8/30/10	0600X-SP-C0077, R.0, Sect.3.9.2.J	8/30/2010

Document/CCN Number: 149841

Date: 4/1/10

DISTRIBUTION

	NAME	MISN	With Att.
	Ciszak, P.C	T2-10	
X	Howard, B.J.	T2-10	X
	Hanks, B	T2-10	
	Klickovich, B.D.	T2-10	
	Lawrence, H.K.	T2-05	
	Looney, D.	H4-17	
	Melvin, W.F.	T2-10	
X	Palmersheim, S.M.	H4-17	X
	Schilperoort, D.L.	T2-10	
X	Skiba, C.V.	T2-10	X
X	Wintle, T.E.	T2-03	X
X	DOCUMENT CONTROL	H4-11	X
X	ERDF Project Files	T2-10	X

	NAME	MISN	With Att.
	Bentz, C.A.	T2-02	
X	Borlaug, W.A.	T2-03	X
	Caulfield, R.A.	T2-03	
	Gough, A.S.	T2-03	
	Lamb, F.O.	T2-05	
	Laws, J.R.	T2-05	
	Nixon, B.C.	T2-05	
	Riley, D.A.	T2-05	
	Wimett, J.M.	T2-03	

Subcontract/No.

TradeWind, S012308A00

DelHur, S010544A00

W.Boos, 0600X-SC-G0524

Envirotech, S66X528A00

Change Notice

CN- N/A

CN- _____

CN- _____

CN- _____

Document Description

SDDR-001

Comments: SDDR -001, Geomembrane

Distribution Completed: Yes: X No: Initials DSJ

TO BE COMPLETED BY R&DC:

RECORD TYPE _____

DATA ENTRY BY _____

REPRO BY _____

SCANNED/# PGS _____

DOCS OPEN # _____



149841

April 5, 2010

TradeWind Services, LLC
Kurt N. Massey, Project Manager
2620 Fermi Ave. MSIN: T2-12
Richland, WA 99354

Subject: Subcontract No. S012308A00
**PROPOSED DISPOSITION FOR SUPPLIER DEVIATION DISPOSITION
REQUEST (SDDR) TW-001/ S012308A00-001
FUNDED BY THE AMERICAN RECOVERY AND REINVESTMENT
ACT OF 2009 (ARRA)**

Dear Mr. Massey:

Washington Closure Hanford (WCH) has reviewed and accepted TradeWind Services, LLC's proposed disposition for SDDR No. S012308A00-001 regarding the proposed GSE weld edge textured geomembrane.

Please sign line 22 on the attached SDDR No. S012308A00-001 and submit it to WCH if you agree with the WCH disposition.

If you have any questions regarding this disposition, please contact me at (509) 373-9151, or (509) 539-9701.

Sincerely,

A handwritten signature in black ink that reads 'B. Jack Howard'.

B. Jack Howard
Subcontract Technical Representative

BJH:djt

Attachments: (1) SDDR TW-001/WCH S012308A00-001

DATE Acrobat 8.0
2/10/10

SUPPLIER DEVIATION DISPOSITION REQUEST

COMPLETED BY SUPPLIER

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No. 001	Date Submitted 2-10-10	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. S012308A00-001 2-10-10
1. Supplier Name GSE Lining Technology		Address 19103 Gundie Road Houston, Texas 77073	
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 11-1-09
7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A	10. WCH PQAR Notified (Date & Method) N/A
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Specification C0077; Section 2.1.1 "liner shall be smooth on both sides along the longitudinal edge of each panel."			
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>			
14. Cost Impact: None		15. Schedule Impact: None	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. See attached letter from GSE Lining Technology addressing "lightly textured" VS smooth edge. All welded seams will meet the requirements of Spec C-0077, sections 3.4, 3.5, 3.6 & Spec C-0048, Section 2.11			
17. Associated Supplier Document Change(s): See attached			
18. Supplier's Authorized Representative: Name: <u>Dave Sterley</u> Signature: <u>[Signature]</u> Title: <u>CQCSM</u> Date: <u>2-10-10</u>			

WCH

19. WCH Engineering Action:	<input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input checked="" type="checkbox"/> Spec/Req. Change (<input checked="" type="checkbox"/> WCH <input type="checkbox"/> Supplier) <small>0600X-SP-C0077, Section 2.1.1</small>	<input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Price Adjustment
<input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Rejected	<input type="checkbox"/> Follow-Up <input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) THE PROPOSED GSE WELD EDGE TEXTURED GEOMEMBRANE IS ACCEPTABLE. (TEXTURED EDGES WERE USED ON PREVIOUS ERDF CEU PROJECTS AND USED ON END SEAMS AND REPAIRS). ALL SEAMS, INCLUDING TEXTURED, SHALL MEET REQUIREMENTS IN TABLE 3.		
21. WCH Disposition Approval/Signature FM: <u>WFM</u> Date: <u>3/31/10</u> PE/SE: <u>W.A. Boland</u> Date: <u>3/30/2010</u> 22. Supplier: _____ Date: _____ 23. WCH PQAR: _____ Date: _____		



GSE Lining Technology, LLC.

19103 Gundfe Road
Houston, Texas 77073
800-435-2008

February 10, 2010

Graydon Renshaw
Environmental Specialties Intl, Inc.
7943 Pecue Lane #A
Baton Rouge, LA 70809

RE: ERDF Hanford Cells 9 and 10 – GSE 60 mil Textured HDPE Geomembrane

Mr. Renshaw

Upon receiving and reviewing the specifications for the above mentioned project:

Geomembrane:

Cell Construction – Geosynthetics Environmental Restoration Disposal Facility (ERDF) Cells 9 & 10 Construction, Specification No. 0600X-SP-C0077, Revision 0, 11/13/2009, page 10, part 2.1.1.a

- GSE 60 mil double-sided Textured Weld Edge Geomembrane will be manufactured as follows:
 - GSE Weld Edge Textured HDPE Geomembrane will be utilized in lieu of the specified smooth edge textured geomembrane. GSE's Weld Edge Textured Geomembrane is a geomembrane product with lightly textured edges on both sides along the longitudinal edges of each panel that allow for a quick and easy welding process. The weld edge regions have a typical asperity height of 5 to 10 mils. In addition, GSE Weld Edge Textured Geomembrane has been utilized in numerous projects. Samples of GSE's Weld Edge Textured Geomembrane are available upon request.

Please feel free to contact me with any questions.

Sincerely,

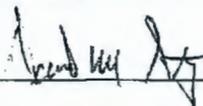
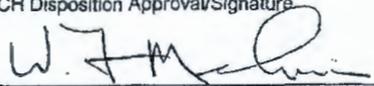
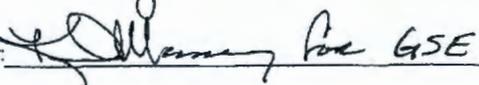
A handwritten signature in black ink that reads "Miguel Garcia". The signature is written in a cursive, flowing style.

Miguel Garcia
GSE Technical Support

cc: Mary Cruthirds, GSE Lining Technology, LLC.

DATE
Acrobat 8.0
 2/10/10

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE												
Supplier SDDR No. 001	Date Submitted 2-10-10	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. SD12308A00-001 Date Received 2-10-10											
1. Supplier Name GSE Lining Technology		Address 19103 Gundle Road Houston, Texas 77073												
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 11-1-09											
6. All Previous SDDR (No's & Dates) -0-	7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A											
10. WCH PQAR Notified (Date & Method) N/A	11. WCH Eng. Notified (Date/Method) 2-2-10	12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Specification C0077; Section 2.1.1 "liner shall be smooth on both sides along the longitudinal edge of each panel."												
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>														
14. Cost Impact: None		15. Schedule Impact: None												
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. See attached letter from GSE Lining Technology addressing "lightly textured" VS smooth edge. All welded seams will meet the requirements of Spec C-0077, sections 3.4, 3.5, 3.6 & Spec G-0048, Section 2.11														
17. Associated Supplier Document Change(s): See attached														
18. Supplier's Authorized Representative: Name: Dave Sterley Signature:  Title: CQCSM Date: 2-10-10														
19. WCH Engineering Action: <table border="0"> <tr> <td rowspan="2"><input checked="" type="checkbox"/> Accepted</td> <td>Engineering Action</td> <td><input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)</td> <td><input type="checkbox"/> Licensing Document Change</td> </tr> <tr> <td><input checked="" type="checkbox"/> Spec/Req. Change 0600X-3P-C0077, Section 2.1.1</td> <td>(<input checked="" type="checkbox"/> WCH <input type="checkbox"/> Supplier)</td> <td><input type="checkbox"/> Price Adjustment</td> </tr> <tr> <td><input type="checkbox"/> Rejected</td> <td>Follow-Up</td> <td><input type="checkbox"/> Other Suppliers Affected</td> <td><input type="checkbox"/> Other</td> </tr> </table>				<input checked="" type="checkbox"/> Accepted	Engineering Action	<input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change	<input checked="" type="checkbox"/> Spec/Req. Change 0600X-3P-C0077, Section 2.1.1	(<input checked="" type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Price Adjustment	<input type="checkbox"/> Rejected	Follow-Up	<input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Accepted	Engineering Action	<input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change											
	<input checked="" type="checkbox"/> Spec/Req. Change 0600X-3P-C0077, Section 2.1.1	(<input checked="" type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Price Adjustment											
<input type="checkbox"/> Rejected	Follow-Up	<input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other											
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) THE PROPOSED GSE WELD EDGE TEXTURED GERM MEMBRANE IS ACCEPTABLE. (TEXTURED EDGES WERE USED ON PREVIOUS ERDF CELL PROJECTS AND USED ON END SEAMS AND REPAIRS). ALL SEAMS, INCLUDING TEXTURED, SHALL MEET REQUIREMENTS IN TABLE 3.														
21. WCH Disposition Approval/Signature FM:  Date: 3/31/10 PE/SE: W.A. Baluy Date: 3/30/2010 22. Supplier:  Date: 4/7/10 23. WCH PQAR: _____ Date: _____														

COMPLETED BY SUPPLIER

WCH



149800

March 17, 2010

TradeWind Services, LLC
Kurt N. Massey, Project Manager
2620 Fermi Ave. MSIN: T2-12
Richland, WA 99354

Subject: Subcontract No. S012308A00
**PROPOSED DISPOSITION FOR SUPPLIER DEVIATION DISPOSITION
REQUEST (SDDR) TW-002/ S012308A00-002
FUNDED BY THE AMERICAN RECOVERY AND REINVESTMENT
ACT OF 2009 (ARRA)**

Dear Mr. Massey:

Washington Closure Hanford (WCH) has reviewed and rejected TradeWind Services, LLC's (TWS's) proposed SDDR No. TW-002 regarding deletion of the curb between the footing and wall in the Crest Pad Buildings.

If you have any questions regarding this SDDR, please contact me at (509) 373-9151, or (509) 539-9701.

Sincerely,

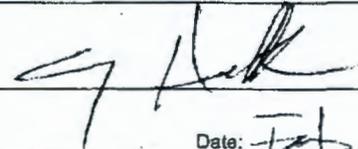
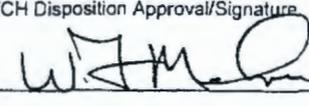
A handwritten signature in black ink that reads 'B. Jack Howard'. The signature is written in a cursive, slightly slanted style.

B. Jack Howard
Subcontract Technical Representative

BJH:djt

Attachment: SDDR TW-002/WCH S012308A00-002

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No.	Date Submitted	Project: ERDF Cells 9 & 01	WCH SDDR No.
002	2-16-2010	Job No.: S012308A00	5012308A00-002
1. Supplier Name		Address	
Delhur Industries, Inc.		P.O. Box 116	
		City, State & Zip	
		Port Angeles WA 98362	
2. Supplier's Order No.	3. Supplier's Part No.	4. Supplier's Part Name	5. Deviation Detected (Date & Method)
N/A	N/A	N/A	2-15-10
6. All Previous SDDR (No's & Dates)	7. WCH P.O. & Rev. No.	8. WCH MR No. (part, item, tag, etc.)	9. WCH Part Name
	N/A	N/A	N/A
10. WCH PQAR Notified (Date & Method)	11. WCH Eng. Notified (Date/Method)	12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable).	
2-16-10	2-16-10		
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>			
14. Cost Impact: N/A		15. Schedule Impact: None	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. Refer to attached deviation description.			
17. Associated Supplier Document Change(s): See attached			
18. Supplier's Authorized Representative:			
Name: <u>Craig Heckman</u>		Signature: 	
Title: _____		Date: <u>Feb 16 10</u>	
19. WCH Engineering Action:	Engineering Action	<input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change
<input type="checkbox"/> Accepted		<input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Price Adjustment
<input checked="" type="checkbox"/> Rejected	Follow-Up	<input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other
20. WCH Disposition Statement including Justification (Attach extra sheets, sketches, etc., as necessary)			
THE curb shall be part of monolithic slab to provide containment. The PROPOSED DEVIATION ADDS A JOINT AND DOES NOT PROVIDE CONTAINMENT			
21. WCH Disposition Approval/Signature		Field Support Action Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
FM: 		Date: <u>3/18/10</u>	
PE/SE: <u>W. A. Polang</u>		Date: <u>2 MARCH 2010</u>	
22. Supplier: _____		Date: _____	
23. WCH PQAR: _____		Date: _____	

COMPLETED BY SUPPLIER

WCH



2 - 16 - 10

Crest Pad Building Structural Plans and Sections

Drawing No. 0600x-DD-C0475

Section D

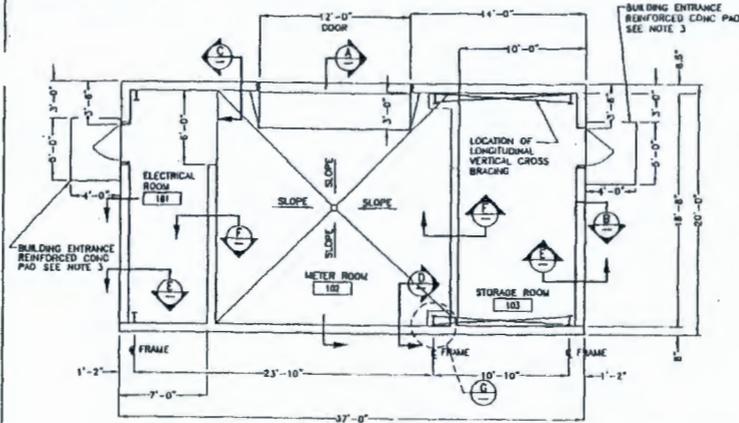
12. Deviation description:

- 1) Add #7 dowels 4'-6" @ 10" O.C.
- 2) Delete curb between footing and wall.

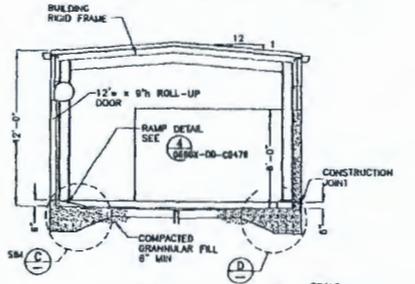
This eliminates two cold joints which could become a potential safety hazard. Also eliminates the need to extend 10' VTS bar out of the footing when the slab is poured. This would become an immediate safety hazard that would be eliminated. Secondary containment would be achieved by the existing 8' wall

16. Proposed Disposition:

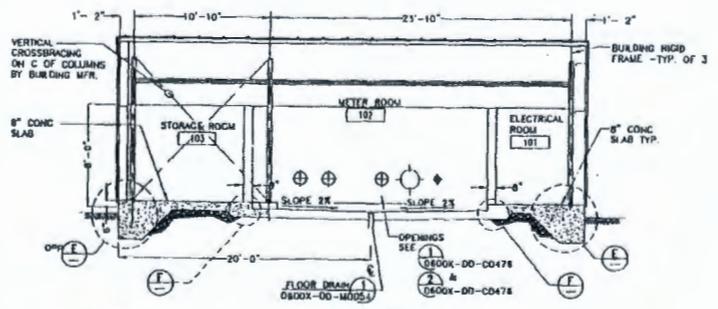
Added value to WCH at no cost, no schedule change.



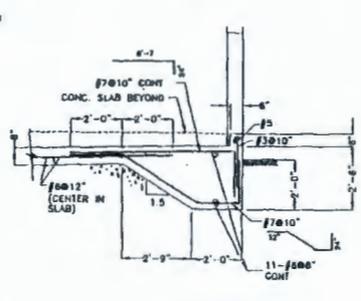
PLAN SCALE 0 5 10 feet



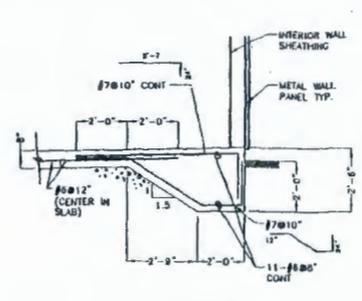
A SECTION SCALE 0 5 10 feet



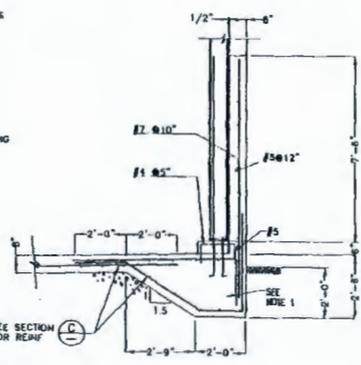
B SECTION SCALE 0 5 10 feet



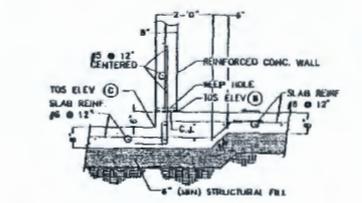
C SECTION SCALE 0 2.5 5 feet



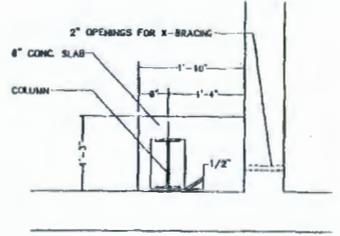
E SECTION SCALE 0 2.5 5 feet



D SECTION SCALE 0 2.5 5 feet



F SECTION SCALE 0 2.5 5 feet



G PLAN SCALE 0 2.5 5 feet

NOTES

- BUILDING FRAME ANCHOR BOLTS SHALL BE A MINIMUM OF (4)-3/4" DIA. W/ 90 OR 180 DEGREE HOOK EMBEDDED 15" COORDINATE WITH BUILDING SUPPLIER FOR BOLT NUMBER AND LOCATION.
- BUILDING TYPICAL (2 PLANS) FOR CELLS 9 & 10.
- BOTH OUTSIDE BUILDING ENTRANCE PADS SHALL BE 6" THICKNESS WITH #4@12" EW CENTERED IN SLAB THICKNESS. PADS SHALL BE SEPARATE FROM MAIN FOUNDATION SLAB. SLOPE PADS 1/4" FT AWAY FROM DOOR OPENINGS.
- THE INTERIOR CONCRETE SLABS AT DOORWAYS ARE TO BE FINISHED LEVEL. NO SLOPE.

NO.	REV.	DATE	BY	CHKD.	DESCRIPTION
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

RECEIVED
NOV 23 2008
WCH - DOCUMENT CONTROL



DOCUMENT CONTROL *Dr. W. J. J.*

NO.	REV.	DATE	BY	CHKD.	DESCRIPTION
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC.
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 9 - 10
CREST PAD BLDG STRUCTURAL PLANS AND SECTIONS

WCH -019 NO.	DOE CONTRACT NO.	CADD FILENAME
14555	DE-AC06-05RL-14655	6XDCC0475.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0475	0

RECORD INFORMATION
RECORD NO. H-6 16367 SH:01
BLDG NO. 600C
INDEX NO. 0901

DISTRIBUTION

	NAME	MISN	With Att.
	Ciszak, P.C	T2-10	
X	Howard, B.J.	T2-10	X
	Hanks, B	T2-10	
	Klickovich, B.D.	T2-10	
	Lawrence, H.K.	T2-05	
	Looney, D.	H4-17	
	Melvin, W.F.	T2-10	
X	Palmersheim, S.M.	H4-17	X
	Schilperoort, D.L.	T2-10	
X	Skiba, C.V.	T2-10	X
X	Wintle, T.E.	T2-03	X
X	DOCUMENT CONTROL	H4-11	X
X	ERDF Project Files	T2-10	X

	NAME	MISN	With Att.
	Bentz, C.A.	T2-02	
X	Borlaug, W.A.	T2-03	X
	Caulfield, R.A.	T2-03	
	Gough, A.S.	T2-03	
	Lamb, F.O.	T2-05	
	Laws, J.R.	T2-05	
	Nixon, B.C.	T2-05	
	Riley, D.A.	T2-05	
	Wimett, J.M.	T2-03	

<u>Subcontract/No.</u>	<u>Change Notice</u>	<u>Document Description</u>
TradeWind, S012308A00	CN- N/A	SDDR-003
DelHur, S010544A00	CN- _____	_____
W.Boos, 0600X-SC-G0524	CN- _____	_____
Envirotech, S66X528A00	CN- _____	_____

Comments: SDDR -003, UTILIZING AGGREGATE BASE COURSE
Distribution Completed: Yes: X No: Initials DJ

TO BE COMPLETED BY R&DC:

RECORD TYPE _____
 DATA ENTRY BY _____ SCANNED/# PGS _____
 REPRO BY _____ DOCS OPEN # _____



149842

April 1, 2010

TradeWind Services, LLC
Kurt N. Massey, Project Manager
2620 Fermi Ave. MSIN: T2-12
Richland, WA 99354

Subject: Subcontract No. S012308A00
**PROPOSED DISPOSITION FOR SUPPLIER DEVIATION DISPOSITION
REQUEST (SDDR) TW-003/ S012308A00-003
FUNDED BY THE AMERICAN RECOVERY AND REINVESTMENT
ACT OF 2009 (ARRA)**

Dear Mr. Massey:

Washington Closure Hanford (WCH) has reviewed and accepted TradeWind Services, LLC's proposed disposition for SDDR No. **S012308A00-003** regarding the proposed aggregate.

Please sign line 22 on the attached SDDR No. **S012308A00-003** and submit it to WCH if you agree with the WCH disposition.

If you have any questions regarding this disposition, please contact me at (509) 373-9151, or (509) 539-9701.

Sincerely,

A handwritten signature in black ink that reads 'B. Jack Howard'. The signature is written in a cursive style with a large, prominent 'B' and 'H'.

B. Jack Howard
Subcontract Technical Representative

BJH:djt

Attachments: (1) SDDR TW-003/WCH S012308A00-003

SUPPLIER DEVIATION DISPOSITION REQUEST

DATE
3/8/10

COMPLETED BY SUPPLIER

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No. 003	Date Submitted 3-9-10	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. S012308A00-003 Date Received 3-8-10
1. Supplier Name Delhur Industries, Inc.		Address P.O. Box 116 City, State & Zip Port Angeles WA 98362	
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 3-8-10
6. All Previous SDDR (No's & Dates) 1 & 2	7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A
10. WCH PQAR Notified (Date & Method) N/A	11. WCH Eng. Notified (Date/Method)	12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Specification SP-C0078, Rev. 0, Section 2.4 (Gradation Table) including requirements that Type C gravel shall be crushed, compacted to 90% and exhibit a permeability of 1x10-2 or greater.	
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>			
14. Cost Impact: N/A		15. Schedule Impact: None	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. Propose utilizing crushed aggregate base course meeting the requirements of WSDOT specification 9-03.9(3). As proposed material shall exhibit a permeability of 1x10-2 or greater. Gradation comparison is attached.			
17. Associated Supplier Document Change(s): See attached			
18. Supplier's Authorized Representative: Name: <u>Dave Sterley</u> Signature: <u>[Signature]</u> Title: <u>CQCSM</u> Date: <u>3/9/10</u>			
19. WCH Engineering Action:		Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Licensing Document Change <input checked="" type="checkbox"/> Accepted <input checked="" type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Price Adjustment <u>0600X-SP-C0078, Section 2.4</u> <input type="checkbox"/> Rejected Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other	
20. WCH Disposition Statement including Justification (Attach extra sheets, sketches, etc., as necessary) THE PROPOSED AGGREGATE IS ACCEPTABLE IF THE HYDRAULIC CONDUCTIVITY OF 1 X 10 ⁻² CM/SEC OR GREATER AS REQUIRED BY SPEC. 0600X-SP-C0078, 2.1.3. PASSINGLY CQA HYDRAULIC CONDUCTIVITY TESTS SHALL BE OBTAINED PRIOR TO INSTALLATION.			
21. WCH Disposition Approval/Signature Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No FM: <u>[Signature]</u> Date: <u>4/1/10</u> PE/SE: <u>W.A. Balay</u> Date: <u>3/30/2010</u>			
22. Supplier: _____ Date: _____			
23. WCH PQAR: _____ Date: _____			

WCH

Type C (as specified)

Base Course (as tested)

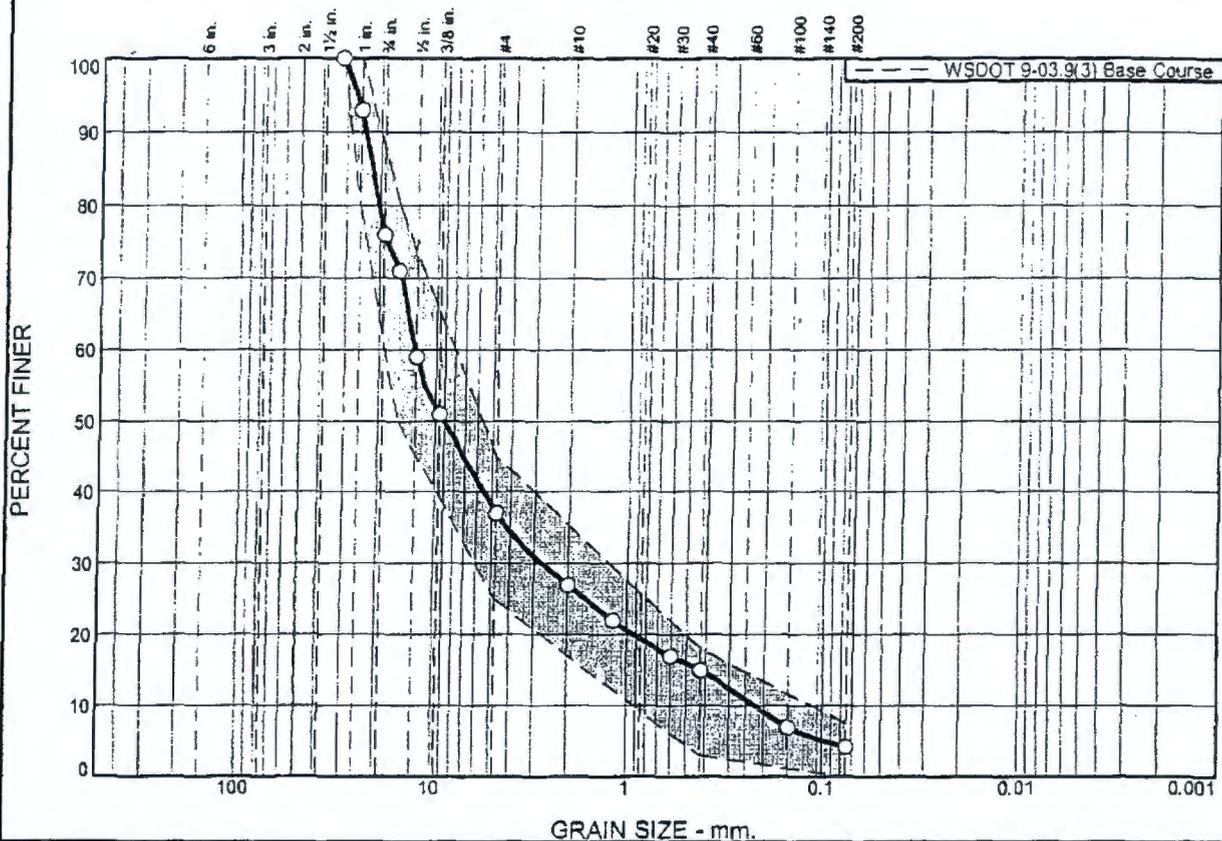
	<u>% passing</u>		<u>% passing</u>
1 1/2"	100		100
1"	70 - 100		93
3/4"	60 - 100		76
5/8"			71
3/8"	35 - 80		51
#4	20 - 60		37
#40	0 - 10		15
#100	0 - 4		7
#200	0 - 4		4

0.0 - 7.5

Permeability 1×10^{-2} or greater

Compaction 90% standard

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	24.0	39.0	10.0	12.0	10.8	4.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.25"	100.0	100.0 - 100.0	
1"	93.0	80.0 - 100.0	
3/4"	76.0		
5/8"	71.0	50.0 - 80.0	
1/2"	59.0		
3/8"	51.0		
#4	37.0	25.0 - 45.0	
#10	27.0		
#16	22.0		
#30	17.0		
#40	15.0	3.0 - 18.0	
#100	7.0		
#200	4.2	0.0 - 7.5	

Material Description

WSDOT CSBC

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₈₅= 22.3123 D₆₀= 12.9505 D₅₀= 9.0339
 D₃₀= 2.7559 D₁₅= 0.4250 D₁₀= 0.2254
 C_u= 57.46 C_c= 2.60

Classification
 USCS= AASHTO=

Remarks
 Results indicate compliance with project specs.
 Sampled by: IMT

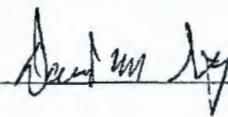
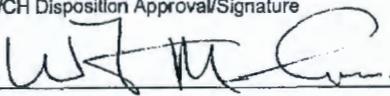
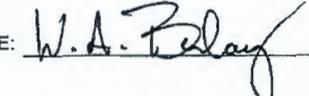
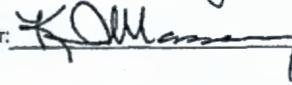
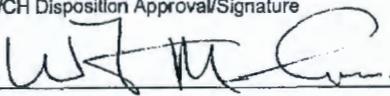
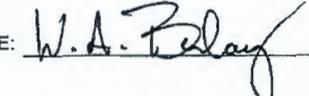
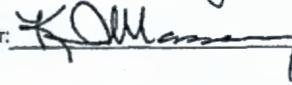
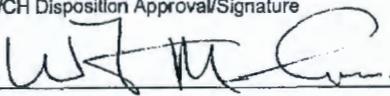
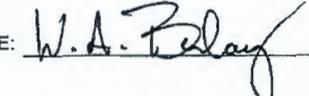
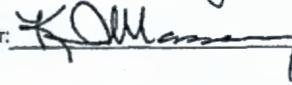
WSDOT 9-03.9(3) Base Course

Sample Number: 52215-CSBC 1 Source of Sample: American Rock Products CSBC Depth: Stockpile Date: 2/6/08

INTERMOUNTAIN MATERIALS TESTING	Client: Delhur Project: ERDF Cells 7 & 8 QC Project No: M08620-T Reviewed By:
--	--

SUPPLIER DEVIATION DISPOSITION REQUEST

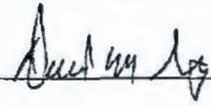
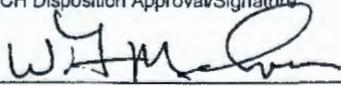
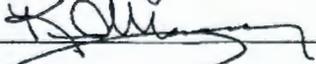
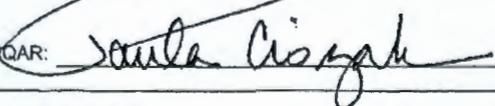
DATE
3/8/10

FOR SUPPLIER USE		FOR WCH USE													
Supplier SDDR No. 003	Date Submitted 3-9-10	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. S012308A00-003 Date Received 3-8-10												
1. Supplier Name Delhur Industries, Inc.		Address P.O. Box 116 City, State & Zip Port Angeles WA 98362													
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 3-8-10												
6. All Previous SDDR (No's & Dates) 1 & 2		11. WCH Eng. Notified (Date/Method)													
7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A	10. WCH PQAR Notified (Date & Method) N/A												
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Specification SP-C0078, Rev. 0, Section 2.4 (Gradation Table) including, requirements that Type C gravel shall be crushed, compacted to 90% and exhibit a permeability of 1x10-2 of greater.															
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>															
14. Cost Impact: N/A		15. Schedule Impact: None													
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. Propose utilizing crushed aggregate base course meeting the requirements of WSDOT specification 9-03.9(3). As proposed material shall exhibit a permeability of 1x10-2 or greater. Gradation comparison is attached.															
17. Associated Supplier Document Change(s): See attached															
18. Supplier's Authorized Representative: Name: Dave Sterley Signature:  Title: CQCSM Date: 3/9/10															
19. WCH Engineering Action: <table style="width: 100%; border: none;"> <tr> <td style="width: 20%;"><input checked="" type="checkbox"/> Accepted</td> <td style="width: 30%;">Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)</td> <td style="width: 20%;"><input type="checkbox"/> Licensing Document Change</td> </tr> <tr> <td><input type="checkbox"/> Rejected</td> <td><input checked="" type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)</td> <td><input type="checkbox"/> Price Adjustment</td> </tr> <tr> <td colspan="3" style="text-align: center;"><i>0600X-SP-C0078, Section 2.4</i></td> </tr> <tr> <td colspan="2">Follow-Up <input type="checkbox"/> Other Suppliers Affected</td> <td><input type="checkbox"/> Other</td> </tr> </table>				<input checked="" type="checkbox"/> Accepted	Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change	<input type="checkbox"/> Rejected	<input checked="" type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Price Adjustment	<i>0600X-SP-C0078, Section 2.4</i>			Follow-Up <input type="checkbox"/> Other Suppliers Affected		<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Accepted	Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change													
<input type="checkbox"/> Rejected	<input checked="" type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Price Adjustment													
<i>0600X-SP-C0078, Section 2.4</i>															
Follow-Up <input type="checkbox"/> Other Suppliers Affected		<input type="checkbox"/> Other													
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) <p style="font-size: 1.2em; margin: 0;">THE PROPOSED AGGREGATE IS ACCEPTABLE IF THE HYDRAULIC CONDUCTIVITY OF 1×10^{-2} CM/SEC OR GREATER AS REQUIRED BY SPEC. 0600X-SP-C0078, 2.1.3. PASSING CQA HYDRAULIC CONDUCTIVITY TESTS SHALL BE OBTAINED PRIOR TO INSTALLATION.</p>															
21. WCH Disposition Approval/Signature <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">FM: </td> <td style="width: 40%;">Date: 4/1/10</td> </tr> <tr> <td>PE/SE: </td> <td>Date: 3/30/2010</td> </tr> <tr> <td>22. Supplier: </td> <td>Date: 4/7/10</td> </tr> </table>				FM: 	Date: 4/1/10	PE/SE: 	Date: 3/30/2010	22. Supplier: 	Date: 4/7/10						
FM: 	Date: 4/1/10														
PE/SE: 	Date: 3/30/2010														
22. Supplier: 	Date: 4/7/10														
23. WCH PQAR: _____ Date: _____															

COMPLETED BY SUPPLIER

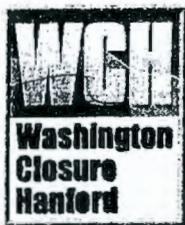
WCH

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No. TW-001	Date Submitted 3-17-10	Project: ERDF Cells 9 & 10 Job No.: S012308A00 (CN-001)	WCH SDDR No. 5012308A00-001 Date Received 3-16-10
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230 City, State & Zip Richland, WA 99352	
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 3-16-10
7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A	10. WCH PQAR Notified (Date & Method) 3-16-10
6. All Previous SDDR (No's & Dates)			
11. WCH Eng. Notified (Date/Method) 3-16-10			
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Base course compaction shall be 95% (CN-001 Rev.2) attached.			
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>			
14. Cost Impact: None		15. Schedule Impact: None	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. Subgrade of staging area was compacted to 90%. Subsequent revision to CN-001 reduced the thickness of base course to 3" to be compacted to 95%. After six passes with vibratory roller, it is apparent that the thin lift of base course is being incorporated into the relatively lower density subgrade making 95% unachievable. Recommend modifying the 95% compaction for base course to a specified method of 6 complete passes with a vibratory roller. Base course shall be compacted at a moisture content within 2% of optimum moisture.			
17. Associated Supplier Document Change(s):			
18. Supplier's Authorized Representative: Name: Dave Sterley Signature:  Title: <u>CQCSM</u> Date: 3-17-2010			
19. WCH Engineering Action: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Rejected Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Price Adjustment Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other			
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) <u>PROJECT ENGINEER AGREES WITH THE PROPOSED DISPOSITION AFTER COMPLETING INSPECTION OF BASE COURSE AFTER 6 PASSES WITH ROLLER</u>			
21. WCH Disposition Approval/Signature Field Support Action Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No FM: <u></u> Date: <u>3/18/10</u> PE/SE: <u>W.A. Boland</u> Date: <u>3/18/10</u>			
22. Supplier: <u></u> Date: <u>3/18/10</u>			
23. WCH PQAR: <u></u> Date: <u>3.30.10</u>			

COMPLETED BY SUPPLIER

WCH



149799

March 17, 2010

TradeWind Services, LLC
Kurt N. Massey, Project Manager
2620 Fermi Ave. MSIN: T2-12
Richland, WA 99354

Subject: Subcontract No. S012308A00
**PROPOSED DISPOSITION FOR SUPPLIER DEVIATION DISPOSITION
REQUEST (SDDR) TW-001/ S012308A00-004
FUNDED BY THE AMERICAN RECOVERY AND REINVESTMENT
ACT OF 2009 (ARRA)**

Dear Mr. Massey:

Washington Closure Hanford (WCH) has reviewed and accepted TradeWind Services, LLC's (TWS's) proposed disposition for SDDR No. TW-001 regarding Change Notice 001, Rev. 2, Transportation Laydown Expansion.

Please sign line 22 on the attached SDDR No. TW-001 and submit it to WCH after the work described in the SDDR is completed.

If you have any questions regarding this change notice, please contact me at (509) 373-9151, or (509) 539-9701.

Sincerely,

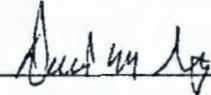
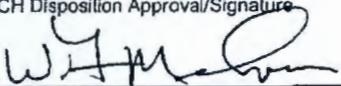
A handwritten signature in black ink that reads 'B. Jack Howard'. The signature is written in a cursive style with a large initial 'B'.

B. Jack Howard
Subcontract Technical Representative

BJH:djt

Attachment: SDDR TW-001/WCH S012308A00-004

SUPPLIER DEVIATION DISPOSITION REQUEST

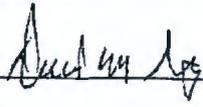
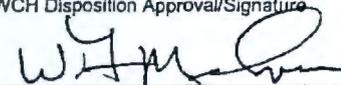
FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No. TW-001	Date Submitted 3-17-10	Project: ERDF Cells 9 & 10 Job No.: S012308A00 (CN-001)	WCH SDDR No. 5012308A00-001 Date Received 3-16-10
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230 City, State & Zip Richland, WA 99352	
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 3-16-10
7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, leg, etc.) N/A	9. WCH Part Name N/A	10. WCH PQAR Notified (Date & Method) 3-16-10
6. All Previous SDDR (No's & Dates) 11. WCH Eng. Notified (Date/Method) 3-16-10			
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Base course compaction shall be 95% (CN-001 Rev.2) attached.			
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>			
14. Cost Impact: None		15. Schedule Impact: None	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. Subgrade of staging area was compacted to 90%. Subsequent revision to CN-001 reduced the thickness of base course to 3" to be compacted to 95%. After six passes with vibratory roller, it is apparent that the thin lift of base course is being incorporated into the relatively lower density subgrade making 95% unachievable. Recommend modifying the 95% compaction for base course to a specified method of 6 complete passes with a vibratory roller. Base course shall be compacted at a moisture content within 2% of optimum moisture.			
17. Associated Supplier Document Change(s):			
18. Supplier's Authorized Representative: Name: <u>Dave Sterley</u> Signature:  Title: <u>CQCSM</u> Date: <u>3-17-2010</u>			
19. WCH Engineering Action: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Rejected	Engineering Action	<input type="checkbox"/> Drawing Change	(<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)
		<input type="checkbox"/> Spec/Req. Change	(<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)
	Follow-Up	<input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other
20. WCH Disposition Statement including Justification (Attach extra sheets, sketches, etc., as necessary) <u>PROJECT ENGINEER AGREES WITH THE PROPOSED DISPOSITION AFTER COMPLETING INSPECTION OF BASE COURSE AFTER 6 PASSES WITH ROLLER</u>			
21. WCH Disposition Approval/Signature FM: 		Field Support Action Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
PE/SE: <u>W.A. Polansky</u>		Date: <u>3/18/10</u>	
22. Supplier:		Date:	
23. WCH PQAR:		Date:	

COMPLETED BY SUPPLIER

WCH

SUPPLIER DEVIATION DISPOSITION REQUEST

COMPLETED BY SUPPLIER

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No. TW-001	Date Submitted 3-17-10	Project: ERDF Cells 9 & 10 Job No.: S012308A00 (CN-001)	WCH SDDR No. 502308A00-004 Date Received 3-16-10
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230 City, State & Zip Richland, WA 99352	
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 3-16-10
7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A	10. WCH PQAR Notified (Date & Method) 3-16-10
11. WCH Eng. Notified (Date/Method) 3-16-10			
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Base course compaction shall be 95% (CN-001 Rev.2) attached.			
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>			
14. Cost Impact: None		15. Schedule Impact: None	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. Subgrade of staging area was compacted to 90%. Subsequent revision to CN-001 reduced the thickness of base course to 3" to be compacted to 95%. After six passes with vibratory roller, it is apparent that the thin lift of base course is being incorporated into the relatively lower density subgrade making 95% unachievable. Recommend modifying the 95% compaction for base course to a specified method of 6 complete passes with a vibratory roller. Base course shall be compacted at a moisture content within 2% of optimum moisture.			
17. Associated Supplier Document Change(s):			
18. Supplier's Authorized Representative: Name: <u>Dave Sterley</u> Signature:  Title: <u>CCCSM</u> Date: <u>3-17-2010</u>			
19. WCH Engineering Action: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Rejected		<input type="checkbox"/> Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Price Adjustment <input type="checkbox"/> Other	
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) <u>PROJECT ENGINEER AGREES WITH THE PROPOSED DISPOSITION AFTER COMPLETING INSPECTION OF BASE COURSE AFTER 6 PASSES WITH ROLLER</u>			
21. WCH Disposition Approval/Signature FM:  PE/SE: <u>W.A. Balany</u>		Field Support Action Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: <u>3/18/10</u> Date: <u>3/18/10</u>	
22. Supplier:		Date:	
23. WCH PQAR:		Date:	

WCH

COPY



149799

March 17, 2010

TradeWind Services, LLC
Kurt N. Massey, Project Manager
2620 Fermi Ave. MSIN: T2-12
Richland, WA 99354

Subject: Subcontract No. S012308A00
**PROPOSED DISPOSITION FOR SUPPLIER DEVIATION DISPOSITION
REQUEST (SDDR) TW-001/ S012308A00-004
FUNDED BY THE AMERICAN RECOVERY AND REINVESTMENT
ACT OF 2009 (ARRA)**

Dear Mr. Massey:

Washington Closure Hanford (WCH) has reviewed and accepted TradeWind Services, LLC's (TWS's) proposed disposition for SDDR No. TW-001 regarding Change Notice 001, Rev. 2, Transportation Laydown Expansion.

Please sign line 22 on the attached SDDR No. TW-001 and submit it to WCH after the work described in the SDDR is completed.

If you have any questions regarding this change notice, please contact me at (509) 373-9151, or (509) 539-9701.

Sincerely,

A handwritten signature in black ink that reads 'B. Jack Howard'.

B. Jack Howard
Subcontract Technical Representative

BJH:djt

Attachment: SDDR TW-001/WCH S012308A00-004

SUPPLIER DEVIATION DISPOSITION REQ'

DATE

3-10-10

SDDR NO.

GAG

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO: WASHINGTON CLOSURE HANFORD 2620 FERMI AVENUE MSIN H4-11 Richland, WA 99352 Attention: Submittal Coordinator	FROM: GEORGE A GRANT P.O. BOX 789 RICHLAND, WA 99352	AGREEMENT NO. Subcontract No. S012308A00	
--	---	--	--

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED <i>(Type, size, model number, etc.)</i>	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO. <i>(See instruction No. 6)</i>	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE	VARIATION <i>(See instruction No. 6)</i>	FOR CE USE CODE
				SPEC. PARA. NO.	DRAWING SHEET NO.			
a.	b.	c.	d.	e.	f.	g.	h.	i.
1	CREST PAD BUILDING SIDING							

REMARKS

PLEASE SEND ALL COMMENTS TO SUBMITTALS TO: GEORGE A GRANT
 P.O. BOX 789
 RICHLAND, WA 99352

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED <i>(List by Item No.)</i>	NAME, TITLE, AND SIGNATURE OF APPROVING AUTHORITY	DATE
---	---	------

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		EROF SUPER CELLS		FOR WCH USE	
Supplier SDDR No. GAQ-001	Date Submitted 3/9/10	Project: 9 & 10 CONST.	Job No.:	WCH SDDR No. SD/2308A00-005	Date Received 3-10-10
1. Supplier Name GEORGE A. GRANT, INC		Address PO. BOX 789		City, State & Zip RICHLAND, WA 99352	
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name SIDING	5. Deviation Detected (Date & Method) 3-9-10	6. All Previous SDDR (No's & Dates) -	
7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A	10. WCH PQAR Notified (Date & Method) 3-10-10	11. WCH Eng. Notified (Date/Method) 3-10-10	
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). SPECIFICATION 0600X-SP-C0080 2.2 B.3. b CALLS FOR THE CREST PAD BUILDING SIDING TO HAVE CONCEALED FASTENERS. CREST PAD BLOCKS C 7 & 8 ARE EXPOSED FASTENERS					
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>					
14. Cost Impact:			15. Schedule Impact: NONE		
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. IS IT ACCEPTABLE TO USE SIDING WITH EXPOSED FASTENERS AT CREST PAD BLOCKS FOR SUPER CELLS 9 AND 10 TO MATCH SIDING AT CREST PAD BUILDINGS FOR CELLS 7 AND 8					
17. Associated Supplier Document Change(s): None					
18. Supplier's Authorized Representative: Name: R. W. RICHTER Signature:  Title: PRESIDENT Date: 3/9/2010					
10. WCH Engineering Action:		Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Accepted <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Price Adjustment <input type="checkbox"/> Rejected Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other			
20. WCH Disposition Statement including Justification (Attach extra sheets, sketches, etc., as necessary)					
VOID					
21. WCH Disposition Approval/Signature		Field Support Action Required?		<input type="checkbox"/> Yes <input type="checkbox"/> No	
FBI: _____		Date: _____			
PE/SE: _____		Date: _____			
22. Supplier: _____		Date: _____			
23. WCH PQAR: _____		Date: _____			

COMPLETED BY SUPPLIER

WCH

Document/CCN Number: 149843

Date: 4/1/10

DISTRIBUTION

	NAME	MISN	With Att.
	Ciszak, P.C	T2-10	
X	Howard, B.J.	T2-10	X
	Hanks, B	T2-10	
	Klickovich, B.D.	T2-10	
	Lawrence, H.K.	T2-05	
	Looney, D.	H4-17	
	Melvin, W.F.	T2-10	
X	Palmersheim, S.M.	H4-17	X
	Schilperoort, D.L.	T2-10	
X	Skiba, C.V.	T2-10	X
X	Wintle, T.E.	T2-03	X
X	DOCUMENT CONTROL	H4-11	X
X	ERDF Project Files	T2-10	X

	NAME	MISN	With Att.
	Bentz, C.A.	T2-02	
X	Borlaug, W.A.	T2-03	X
	Caulfield, R.A.	T2-03	
	Gough, A.S.	T2-03	
	Lamb, F.O.	T2-05	
	Laws, J.R.	T2-05	
	Nixon, B.C.	T2-05	
	Riley, D.A.	T2-05	
	Wimett, J.M.	T2-03	

Subcontract/No.

Change Notice

Document Description

TradeWind, S012308A00

CN- N/A

SDDR-006

DelHur, S010544A00

CN- _____

W.Boos, 0600X-SC-G0524

CN- _____

Envirotech, S66X528A00

CN- _____

Comments: SDDR -006, SUBGRADE TOLERANCE

Distribution Completed: Yes: X No: Initials DJ

TO BE COMPLETED BY R&DC:

RECORD TYPE _____

DATA ENTRY BY _____

REPRO BY _____

SCANNED/# PGS _____

DOCS OPEN # _____



149843

April 5, 2010

TradeWind Services, LLC
Kurt N. Massey, Project Manager
2620 Fermi Ave. MSIN: T2-12
Richland, WA 99354

Subject: Subcontract No. S012308A00
**PROPOSED DISPOSITION FOR SUPPLIER DEVIATION DISPOSITION
REQUEST (SDDR) TW-006/ S012308A00-006
FUNDED BY THE AMERICAN RECOVERY AND REINVESTMENT
ACT OF 2009 (ARRA)**

Dear Mr. Massey:

Washington Closure Hanford (WCH) has reviewed and accepted TradeWind Services, LLC's proposed disposition for SDDR No. S012388A00-006 regarding the proposed subgrade tolerance.

Please sign line 22 on the attached SDDR No. S012388A00-006 and submit it to WCH if you agree with the WCH disposition.

If you have any questions regarding this disposition, please contact me at (509) 373-9151, or (509) 539-9701.

Sincerely,

A handwritten signature in black ink that reads 'B. Jack Howard'. The signature is written in a cursive style with a large initial 'B'.

B. Jack Howard
Subcontract Technical Representative

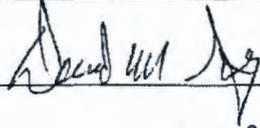
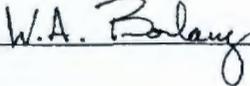
BJH:djt

Attachments: (1) SDDR TW-006/WCH S012308A00-006

DATE Acrobat 8.0
3/23/10

SUPPLIER DEVIATION DISPOSITION REQUEST

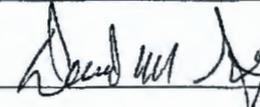
COMPLETED BY SUPPLIER

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No. TW-000 TW-005-AB 3/23	Date Submitted 3-23-10	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. 5012308A00-000 -006 Date Received 3/23/10
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230 City, State & Zip Richland, WA 99352	
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 3-23-10
6. All Previous SDDR (No's & Dates) SDDR 1-4	7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A
10. WCH PQAR Notified (Date & Method) 3-23-10	11. WCH Eng. Notified (Date/Method) 3-23-10	12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Sheet 0600X-DD-C0458, Detail 2 (Linear Grading Tolerance) indicates a subgrade grading tolerance of +0.00 to -0.10 FT.	
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>			
14. Cost Impact: None		15. Schedule Impact: None	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. TradeWind proposes modifying the subgrade grading tolerance to reflect +0.00 to -0.20 FT. This modification will result in a constructed admix thickness in excess of 3 feet (3 ft + 0.50 ft max) - tolerance of 0.00 to +0.30 for top admix elevation.			
17. Associated Supplier Document Change(s): None			
18. Supplier's Authorized Representative: Name: Dave Sterley Signature:  Title: CCCSM Date: 3-23-2010			
19. WCH Engineering Action:		<input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Rejected <input type="checkbox"/> Engineering Action <input type="checkbox"/> Drawing Change (<input checked="" type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Price Adjustment 0600X-DD-C0458, Detail 3	
		<input type="checkbox"/> Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other	
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) THE PROPOSED SUBGRADE TOLERANCE +0.00 TO -0.20 FT IS ACCEPTABLE. SUBCONTRACTOR MAINTAIN MINIMUM SLOPE REQUIREMENTS AS SPECIFIED ON DRAWING NO. 0600X-DD-C0458, NOTE 4.			
21. WCH Disposition Approval/Signature		Field Support Action Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
FM: 		Date: 3/23/10	
PE/SE: 		Date: 3/30/2010	
22. Supplier:		Date:	
23. WCH PQAR:		Date:	

WCH

DATE
3/23/10

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No. TW-006 TW-005 AS 3/23	Date Submitted 3-23-10	Project: ERDF Calls 9 & 10 Job No.: S012308A00	WCH SDDR No. 5012308A 00 -006 -006 Date Received 3/23/10
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230 Richland, WA 99352	
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 3-23-10
6. All Previous SDDR (No's & Dates) SDDR 1-4		7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A
9. WCH Part Name N/A		10. WCH PQAR Notified (Date & Method) 3-23-10	11. WCH Eng. Notified (Date/Method) 3-23-10
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Sheet 0600X-DD-C0458, Detail 2 (Liner Grading Tolerance) indicates a subgrade grading tolerance of +0.00 to -0.10 FT.			
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>			
14. Cost Impact: None		15. Schedule Impact: None	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. TradeWind proposes modifying the subgrade grading tolerance to reflect +0.00 to -0.20 FT. This modification will result in a constructed admix thickness in excess of 3 feet (3 ft + 0.50 ft max) - tolerance of 0.00 to +0.30 for top admix elevation.			
17. Associated Supplier Document Change(s): None			
18. Supplier's Authorized Representative: Name: <u>Dave Sterley</u> Signature:  Title: <u>CQCSM</u> Date: <u>3-23-2010</u>			
19. WCH Engineering Action: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Rejected		Engineering Action <input checked="" type="checkbox"/> Drawing Change (<input checked="" type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Price Adjustment <u>0600X-DD-C0458, Detail 2</u> Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other	
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) THE PROPOSED SUBGRADE TOLERANCE +0.00 TO -0.20FT IS ACCEPTABLE. SUBCONTRACTOR MAINTAIN MINIMUM SLOPE REQUIREMENTS AS SPECIFIED ON DRAWING No. 0600X-DD-C0458, NOTE 4.			
21. WCH Disposition Approval/Signature FM: <u>W. F. M. [Signature]</u>		Field Support Action Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: <u>3/31/10</u>	
PE/SE: <u>W.A. Balany</u>		Date: <u>3/30/2010</u>	
22. Supplier: <u>[Signature]</u>		Date: <u>4/7/10</u>	
23. WCH PQAR:		Date:	

COMPLETED BY SUPPLIER

WCH

Document/CCN Number: 150640

Date: 5/18/10

DISTRIBUTION

	NAME	MISN	With Att.
	Day, J.R.	T2-10	
X	Howard, B.J.	T2-10	X
X	Klickovich, B.D.	T2-10	X
	Looney, D.	H4-17	
	Melvin, W.F.	T2-10	
X	Palmersheim, S.M.	H4-17	X
X	Schilperoort, D.L.	T2-10	
X	Skiba, C.V.	T2-10	X
X	Wintle, T.E.	T2-03	X
X	Webb, M.	T2-03	
X	DOCUMENT CONTROL	H4-11	X
X	ERDF Project Files	T2-10	X

	NAME	MISN	With Att.
	Bentz, C.A.	T2-02	
X	Borlaug, W.A.	T2-03	X
	Caulfield, R.A.	T2-03	
	Hanks, B	T2-03	
	Lamb, F.O.	T2-05	
	Laws, J.R.	T2-05	
	Nixon, B.C.	T2-05	
	Riley, D.A.	T2-05	
	Wimett, J.M.	T2-03	
X	Voss, J. (Envirotech)	T2-11	X

Subcontract/No.

Change Notice

Document Description

TradeWind, S012308A00

CN- N/A

SDDR-007 - Backfill Utility Trench (Rejected)

DelHur, S010544A00

CN- _____

W.Boos, 0600X-SC-G0524

CN- _____

Envirotech, S66X528A00

CN- _____

Comments: SDDR TW-007

Distribution Completed: Yes: X No: Initials DJ7

TO BE COMPLETED BY R&DC:

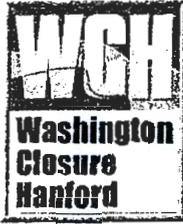
RECORD TYPE _____

DATA ENTRY BY _____

SCANNED/# PGS _____

REPRO BY _____

DOCS OPEN # _____



150640

May 18, 2010

TradeWind Services, LLC
Kurt N. Massey, Project Manager
2620 Fermi Ave. MSIN: T2-12
Richland, WA 99354

Subject: Subcontract No. S012308A00
**SUPPLIER DEVIATION DISPOSITION REQUEST (SDDR)
S012308A00-007, BACKFILLING OF UTILITY TRENCH
FUNDED BY THE AMERICAN RECOVERY AND REINVESTMENT
ACT OF 2009 (ARRA)**

Dear Mr. Massey:

Washington Closure Hanford (WCH) has reviewed and rejected TradeWind, LLC's proposed SDDR, No. TW-007, WCH No. S012308A00-007, regarding *Backfilling of Utility Trench*.

If you have any questions regarding this SDDR, please contact me at (509) 373-9476, or (509) 942-9275.

Sincerely,

A handwritten signature in black ink, appearing to read 'Charles V. Skiba', written in a cursive style.

Charles V. Skiba
Subcontract Technical Representative

CVS:djt

Attachment: SDDR No. TW-007, (With Attached Justification)

DATE
4/28/10 *[Signature]*

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No. TW-007	Date Submitted 4-28-2010	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. S012308A00-007 Date Received 4/28/10
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230 City, State & Zip Richland, WA 99352	
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 4-26-10
7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A	10. WCH PQAR Notified (Date & Method) N/A
6. All Previous SDDR (No's & Dates) TW 1-8			
11. WCH Eng. Notified (Date/Method) 4-26-10			
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Spec section 0600X-SP-C0075, Section 3.9 Backfilling and compaction of utility systems. "8 inch loose lift, 90% density".			
13. Supplier's Proposed Disposition: Use As-ls <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>			
14. Cost Impact: None		15. Schedule Impact: None	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. Propose changing above specification to the following: 0600X-SP-C0075 spec section 3.11 Fills and Embankments. " Top 5 feet, 6" lifts @ 95 %; Below 5 feet, 12" lifts @ 90 %.			
17. Associated Supplier Document Change(s): None			
18. Supplier's Authorized Representative: Name: <u>Dave Sterley</u> Signature: <i>[Signature]</i> Title: <u>CRCM</u> Date: <u>4-28-10</u>			
19. WCH Engineering Action: <input type="checkbox"/> Accepted Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Licensing Document Change <input checked="" type="checkbox"/> Rejected <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Price Adjustment <input type="checkbox"/> Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other			
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) <u>See Attached sheet for justification statement</u>			
21. WCH Disposition Approval/Signature Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No FM: <u>W. F. [Signature]</u> Date: <u>5/17/10</u> PE/SE: <u>Z. [Signature]</u> Date: <u>5/17/10</u>			
22. Supplier: _____ Date: _____			
23. WCH PQAR: _____ Date: _____			

COMPLETED BY SUPPLIER

WCH

No change is required in the specifications.

In general the utility trench will be backfilled in accordance with the following sections of 0600X-SP-C0075:

Section 3.9 Backfilling and Compaction of Utility Systems. Specifically “Backfill shall be placed in layers not exceeding 6 inches loose thickness for compaction by hand operated machine compactors, and 8 inches loose thickness for other than hand operated machines. Each layer shall be compacted to at least 90 percent maximum dry density (ASTM D1557), unless otherwise specified for backfill of roadways and buildings.”

Section 3.9.1.3 Bedding and Initial Backfill that states “... initial backfill material shall be placed and compacted by hand held tampering bars to a height of at least one foot above the top of the utility pipe...”

Section 3.9.1.4 Final Backfill “Backfill material shall be placed and compacted as required for the general area surrounding the utility trench.”

Therefore, once the bedding and initial foot of backfill material are placed and compacted in accordance with section 3.9.1.3, the remainder of the trench can be backfilled using methods defined in section 3.11 Fills and Embankments. Extra attention to materials and compaction must be taken in the area of the truck and pup ramp to ensure continuity with the existing roadway.

DATE
4/28/10 *[Signature]*

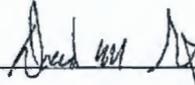
SUPPLIER DEVIATION DISPOSITION REQUEST

COMPLETED BY SUPPLIER

FOR SUPPLIER USE			FOR WCH USE	
Supplier SDDR No. TW-007	Date Submitted 4-28-2010	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. S012308A00-007	Date Received 4/28/10
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230		City, State & Zip Richland, WA 99352
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 4-26-10	6. All Previous SDDR (No's & Dates) TW 1-6
7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A	10. WCH PQAR Notified (Date & Method) N/A	11. WCH Eng. Notified (Date/Method) 4-26-10
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Spec section 0600X-SP-C0075, Section 3.9 Backfilling and compaction of utility systems. "8 inch loose lift, 90% density".				
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>				
14. Cost Impact: None		15. Schedule Impact: None		
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. Propose changing above specification to the following: 0600X-SP-C0075 spec section 3.11 Fills and Embankments. " Top 5 feet, 6" lifts @ 95 %; Below 5 feet, 12" lifts @ 90 %.				
17. Associated Supplier Document Change(s): None				
18. Supplier's Authorized Representative: Name: <u>Dave Sterley</u> Signature: <i>[Signature]</i> Title: <u>CRCSM</u> Date: <u>4-28-10</u>				
19. WCH Engineering Action:		Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Accepted <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Price Adjustment <input type="checkbox"/> Rejected Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other		
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary)				
21. WCH Disposition Approval/Signature Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No				
FM: _____		Date: _____		
PE/SE: _____		Date: _____		
22. Supplier: _____		Date: _____		
23. WCH PQAR: _____		Date: _____		

WCH

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE			FOR WCH USE									
Supplier SDDR No. TW-008	Date Submitted 4-28-2010	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. S012308A00-008	Date Received 5/3/10								
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230		City, State & Zip Richland, WA 99352								
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 4-28-10	6. All Previous SDDR (No's & Dates) TW 1-7								
7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A	10. WCH PQAR Notified (Date & Method) N/A	11. WCH Eng. Notified (Date/Method) 4-28-10								
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Specification 0600X-SP-M0032, Rev. 0 Section 3.5.1 paragraph 3, 4, and 8. <i>1</i>												
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>												
14. Cost Impact: None		15. Schedule Impact: None										
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. Paragraph 3 should read as follows: see attached Paragraph 4 should read as follows: see attached Paragraph 8 should read as follows: see attached												
17. Associated Supplier Document Change(s): None												
18. Supplier's Authorized Representative: Name: <u>Dave Sterley</u> Signature:  Title: <u>CQCSM</u> Date: <u>4-28-10</u>												
19. WCH Engineering Action: <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;"><input checked="" type="checkbox"/> Accepted</td> <td style="width: 35%;">Engineering Action <input checked="" type="checkbox"/> Spec/Req. Change <u>0600X-SP-M0032</u></td> <td style="width: 20%;">(<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) (<input checked="" type="checkbox"/> WCH <input type="checkbox"/> Supplier)</td> <td style="width: 30%;"><input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Price Adjustment</td> </tr> <tr> <td><input type="checkbox"/> Rejected</td> <td>Follow-Up <input type="checkbox"/> Other Suppliers Affected</td> <td colspan="2"><input type="checkbox"/> Other</td> </tr> </table>					<input checked="" type="checkbox"/> Accepted	Engineering Action <input checked="" type="checkbox"/> Spec/Req. Change <u>0600X-SP-M0032</u>	(<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) (<input checked="" type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Price Adjustment	<input type="checkbox"/> Rejected	Follow-Up <input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other	
<input checked="" type="checkbox"/> Accepted	Engineering Action <input checked="" type="checkbox"/> Spec/Req. Change <u>0600X-SP-M0032</u>	(<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) (<input checked="" type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Price Adjustment									
<input type="checkbox"/> Rejected	Follow-Up <input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other										
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) <i>Specification 0600X-SP-M0032 had mistakes regarding the pressure testing procedure and the revisions proposed correct the specification. A DCN will be issued for the corrections of pages 26, 27 and 28 of 0600X-SP-M0032 Rev. 1</i>												
21. WCH Disposition Approval/Signature Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No FM: <u>W.F. Melton</u> Date: <u>5-4-10</u> PE/SE: <u>W.A. Berlang</u> Date: <u>5/3/10</u>												
22. Supplier: <u>Dave Sterley</u> Date: <u>5/5/10</u>												
23. WCH PQAR: _____ Date: _____												

COMPLETED BY SUPPLIER

WCH

3.5.1 General

Provide test equipment and materials, including test pumps, gauges, water, volumetric measuring equipment, and other equipment required. Pressure gauges used shall be graduated in increments not greater than 1 psi and shall have range of approximately twice the test pressure. Use only calibrated gauges and instruments. Provide calibration certificates traceable to NIST. Gauge serial numbers shall be traceable to tests performed.

Pressure tests shall be performed by bringing the system to test pressure and holding for a minimum of 10 minutes before beginning inspection of joints for leakage. Visually inspect all joints for leakage. For pneumatic tests, Soap Bubble test the joints using Snoop or other approved product, to determine the source of any leakage. Maintain test pressure for the entire duration of the tests.

Test duration shall be as described above unless otherwise specified in this document.

The pipeline should be prepared prior to testing by filling it with water, in a manner to remove air (piping sections with elevation changes shall be vented in accordance with a fill and venting procedure prior to testing). The test pressure should be applied to stabilize the system. This should minimize losses due to entrapped air, changes in water temperature, distention of components under pressure, movement of gaskets, and absorption of air by the water and water by the pipe wall.

During testing, remove from systems any equipment that would be damaged by test pressure. Replace removed equipment after testing. Where new pipe connects to existing piping, the joint between the two pipes shall be tested. Correct leaks by remaking joints with new material; makeshift remedies will not be permitted. Welded pipe attachments (hangers, etc.) shall be installed prior to testing.

Systems may be tested in sections as work progresses; however, any previously tested portion shall become a part of any later test of composite system. Test records shall include marked up drawings indicating which piping was tested.

The SUBCONTRACTOR shall be responsible for providing temporary fillings, plugs, pressure relief devices, and thrust blocking for testing at the specified pressure. A pressure relief device shall be provided for each piping section being tested. The device shall have a set pressure not higher than 5 percent of the maximum test pressure.

Tests shall be made by the SUBCONTRACTOR in the presence of the CONTRACTOR. The certificate shown in NFPA 24 Figure 10.10.1 shall be completed by SUBCONTRACTOR.

Additives, corrosive chemicals such as sodium silicate, brine, or other chemicals shall not be used while hydrostatically testing systems or for stopping leaks.

Acceptance Criteria:

Where visual inspection of the joints is possible, the test is considered acceptable if there are no visible signs of leakage. Where visual inspection of the joints is not possible (i.e. the inner pipe of a dual wall pipe), the test is considered acceptable if measured pressure loss is not greater than 5 percent of the test beginning pressure throughout the specified test duration.

3.5.2 Buried Pipe Testing

The trench shall be backfilled between joints before testing to prevent movement of pipe. Tests shall be made before the joints are covered so that any leaks may be readily detected. Where any section of a pipe is provided with concrete thrust blocking, the tests shall not be made until at least 5 days after installation of the concrete thrust blocking, unless otherwise approved by the CONTRACTOR. If the joints are covered with backfill prior to testing, the SUBCONTRACTOR remains responsible for locating and correcting any leakage in excess of that permitted in Section 3.4.1.

3.5.2.1 HDPE Pump Discharge Pipes

Hydrostatically pressure test to 70 psi minimum (+ 5% allowed).

3.5.2.2 PVC Crest Pad Pipe

Test with piping in final location. Hydrostatically pressure test to 70 psi (+ 5% allowed) with gage located in crest pad building.

3.5.2.3 HDPE Double Contained Pipe

Test with piping in final location. The carrier pipe (inner pipe) of double containment piping shall be hydrostatically pressure tested with a beginning test pressure between 30 psi and 40 psi. Once full test pressure is applied, disconnect the pressure source by use of isolation valves, de-energizing the source, or by physically removing the source from the system. Once full test pressure is applied to system, pressure shall be held for 1 hour.

The containment pipe (outer pipe) of double containment piping can be either hydrostatically or pneumatically tested with a beginning test pressure between 10 psi and 15 psi.

Carrier pipe (inner pipe) shall be full of water when containment pipe is pressure tested.

3.5.3 Raw Water Pipe

Permanent raw water lines installed by the SUBCONTRACTOR to support construction activities shall be tested hydrostatically at 175 psi (+ 5% allowed) for two hours. Test time will be accrued only while full test pressure is applied to the system.

Minimum test procedure is as follows: The water pressure is to be increased to 100-psi and held while observations are to be made of the stability of the joints. These observations are to include such items as protrusion or extrusion of the gasket, leakage, or other factors likely to affect the

continued use of a pipe in service. After observations are complete, increase in pressure to the 175 psi (+5%) test pressure and perform 2 hour pressure test.

The amount of leakage in buried piping shall be measured at the specified test pressure by pumping from a graduated container. For new pipe, the amount of leakage at the joints shall not exceed two quarts per hour per 100 gaskets or joints irrespective of pipe diameter. No visible leakage shall be allowed in aboveground piping. The amount of allowable leakage shall be permitted to be increased by one fluid ounce per inch valve diameter per hour for each metal seated valve isolating the test section.

3.6 CLEANING

Clean all piping as required to remove foreign materials including dirt, grease, shavings, and other matter. Debris and surplus materials resulting from work, as a result of this installation effort, shall be removed.

3.7 QUALITY ASSURANCE/QUALITY CONTROL

Construction Quality Control and Testing requirements are provided in Construction Quality Requirements, Specification No. 0600X-SP-G0048.

At locations where the field testing conducted by either the SUBCONTRACTOR, CONTRACTOR, or CQA Subcontractor indicates that conditions are outside the acceptable limits of the specifications, the filing area shall be reworked or removed and replaced. These areas shall be retested and the repair process repeated as necessary until passing results are achieved.

The SUBCONTRACTOR shall maintain and supply to CONTRACTOR records of his quality control for operations including but not limited to the following:

- (1) Delivery, storage, and handling of devices and equipment used.
- (2) Conformance of materials to the requirements of this specification.
- (3) Inspection of devices and equipment installed
- (4) Field testing of devices and equipment.
- (5) Installation of devices and equipment to these requirements and applicable codes and standards.

Copies in duplicate of these records and tests, as well as records of corrective action taken when results are unsatisfactory, shall be furnished to the CONTRACTOR within 1 working day following the inspection or test.

SUPPLIER DEVIATION DISPOSITION REQUEST

DATE

5-08-2010

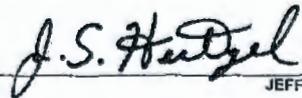
TRANSMITTAL NO.

TW-0L. *wy*

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (This section will be Initiated by the contractor)

TO: WASHINGTON CLOSURE HANFORD 2620 Fermi Avenue MSIN: H4-17 Richland, WA 99354 ATTENTION: Sue Palmersheim	FROM: TradeWind Services LLC 1933 Jadwin Avenue, Ste. 230 Richland, WA 99354	AGREEMENT NO. S012308A00	
--	--	------------------------------------	--

ITEM NO.	DESCRIPTION OF SDDR	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE	VARIATION	FOR CE USE CODE
				SPEC. PARA. NO.	DRAWING SHEET NO.			
a.	b.	c.	d.	e.	f.	g.	h.	i.
1	Slope Subgrade Tolerance							

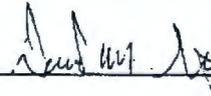
REMARKS PLEASE SEND ALL COMMENTS TO SUBMITTALS TO: TradeWind Services LLC 1933 Jadwin Avenue, Ste. 230 Richland, WA 99354 ATTENTION: JEFF HERTZEL jeffh@tradewindllc.com	I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.  JEFF HERTZEL
---	--

SECTION II - APPROVAL ACTION (WASHINGTON CLOSURE HANDFORD LLC)

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE, AND SIGNATURE OF APPROVING AUTHORITY	DATE

COMMENTS:	COMMENTS:

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No. TW-009	Date Submitted 5-6-2010	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. 509 Date Received 5/10/10
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230 City, State & Zip Richland, WA 99352	
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 5-4-10
7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A	6. All Previous SDDR (No's & Dates) TW 1-8
10. WCH PQAR Notified (Date & Method) 5-4-10			
11. WCH Eng. Notified (Date/Method) 5-4-10			
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Drawing 0600X-DD-C0458, Rev. 0, indicates a slope subgrade tolerance of +0.00 to -.020 feet.			
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>			
14. Cost Impact: None		15. Schedule Impact: None	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. Initial QA survey indicated the south slope & floor subgrade met specified tolerances. After strong winds, subsequent QA survey reflected the top of south slope to be .25 to .40 low. Rather than constructing a sliver fill, TradeWind purposes bringing low subgrade up to acceptable tolerances utilizing admix.			
17. Associated Supplier Document Change(s): None			
18. Supplier's Authorized Representative: Name: <u>Dave Sterley</u> Signature:  Title: <u>CACSM</u> Date: <u>5-6-2010</u>			
19. WCH Engineering Action: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Rejected		<input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Price Adjustment <input type="checkbox"/> Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other	
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) See attached			
21. WCH Disposition Approval/Signature		Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	
FM: <u>W. J. M. [Signature]</u>		Date: <u>6/21/10</u>	
PE/SE: <u>T. W. [Signature]</u>		Date: <u>6/21/10</u>	
22. Supplier:		Date:	
23. WCH PQAR:		Date:	

COMPLETED BY SUPPLIER

WCH

WCH has reviewed the request for deviation form submitted by TWS and has made the following determination:

WCH accepts the deviation and recommends the SUBBCONTRACTOR to "Use As-Is." WCH will allow the SUBCONTRACTOR to correct the deviation per their request by increasing the admix thickness to make up for localized low spots in the subgrade. It is determined that due to the limited size of the deviation and the independent oversight and certification provided by the Construction Quality Assurance (CQA) Subcontractor, that there would be no decrease in performance by placing the additional admix. For future similar occurrences, the CONTRACTOR maintains the right to apply the same logic in the resolution of questions concerning subgrade and admix tolerances.

Due to the unique circumstances causing the deviation, no changes to the design or specifications are required. The SUBCONTRACTOR is expected to build the remainder of the cell(s) to the tolerances shown in the design and specifications.

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE

FOR WCH USE

Supplier SDDR No. 100-010	Date Submitted 5-7-2010	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. S012308A00-D10	Date Received 5/7/10
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1. Supplier Name TradeWind Services LLC	Address 1933 Jadwin Ave Suite 230	City, State & Zip Richland, WA 99352
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2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 5-6-10	6. All Previous SDDR (No's & Dates) TW 1-9
7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A	10. WCH PQAR Notified (Date & Method) 5-6-10	11. WCH Eng. Notified (Date/Method) 5-6-10

12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable).
0600X-SP-C0077, Rev. 0 Section 3.5.1 Trial Seams: "Trial seams shall be made at beginning of each seaming period, and at least once each four hours..."

13. Supplier's Proposed Disposition: Use As-Is Repair Modify WCH Requirement

14. Cost Impact: None 15. Schedule Impact: None

16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. Propose modifying above specification to read as follows: "At a minimum, trial seams shall be made at the beginning of each seaming period, and again at mid shift..." (This will eliminate stopping before lunch in order to perform trail welds.)

17. Associated Supplier Document Change(s): None

Supplier's Authorized Representative:
Name: Dave Sterley Signature: *Dave Sterley*
Title: CCCSM Date: 5-7-2010

19. WCH Engineering Action:

<input checked="" type="checkbox"/> Accepted	Engineering Action	<input type="checkbox"/> Drawing Change	(<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change
<input type="checkbox"/> Rejected	<input checked="" type="checkbox"/> Spec/Req. Change	(<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Price Adjustment	
	Follow-Up	<input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other	

20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary)
Specification No 0600X-SP-C0077, Rev 1 Section 3.5.1 Trial Seams will be revised to read "... Trial seams shall be made at the beginning of each seaming period, and again at Midshift for each..."

21. WCH Disposition Approval/Signature Field Support Action Required? Yes No

FM: *W. J. M...* Date: 5/25/10

PE/SE: *W.A. B...* Date: 5/25/10

Supplier: *Dave Sterley* Date: 6-1-10

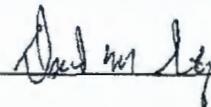
23. WCH PQAR: _____ Date: _____

COMPLETED BY SUPPLIER

WCH

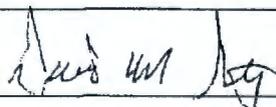
SUPPLIER DEVIATION DISPOSITION REQUEST

COMPLETED BY SUPPLIER

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No. TW-011	Date Submitted 5-24-2010	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. S012308A00-011 Date Received 5/24/10
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230 Clty, State & Zip Richland, WA 99352	
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 5-21-10
6. All Previous SDDR (No's & Dates) TW 1-10	7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A
10. WCH PQAR Notified (Date & Method) N/A	11. WCH Eng. Notified (Date/Method) 5-21-10	12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). CN-016; DRAWING 0600X-DD-C0468, C0469, REV.1 SHOWS NEW TANK DRAIN TIE-IN AND NEW TANK LEAK DETECTION LINE SLOPED AT 2%.	
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>			
14. Cost Impact: TBD		15. Schedule Impact: None	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. IN ORDER TO MATCH EXISTING PIPING AT MH22, THE DRAIN SHALL BE SLOPED AT 1/2%. IN ORDER TO SET LEAK DETECTION VAULT AT GRADE, THE 2" PIPE SHALL BE SLOPED AT 1/2%.			
17. Associated Supplier Document Change(s): None			
18. Supplier's Authorized Representative: Name: <u>Dave Sterley</u> Signature:  Title: <u>CRCSM</u> Date: <u>5-24-2010</u>			
19. WCH Engineering Action: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Rejected		Engineering Action <input checked="" type="checkbox"/> Drawing Change (<input checked="" type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other Licensing Document Change <input type="checkbox"/> Price Adjustment <input type="checkbox"/>	
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) <u>Drawing Nos 0600X-DD-C0468 and 0600X-DD-C0469 will be revised to reflect the changes described in the "proposed disposition and technical justification"</u>			
21. WCH Disposition Approval/Signature FM: <u>W. J. M...</u>		Field Support Action Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: <u>5/26/10</u>	
PE/SE: <u>T.E. Will</u>		Date: <u>5/26/10</u>	
22. Supplier: <u>Dave Sterley</u>		Date: <u>6-1-10</u>	
23. WCH PQAR:		Date:	

WCH

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No. TW-012	Date Submitted 6-21-10	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. S012308A00-012
		Date Received 6/21/10	
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230	
		City, State & Zip Richland, WA 99352	
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 6-21-10
		6. All Previous SDDR (No's & Dates) TW 1-11	
7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A	10. WCH PQAR Notified (Date & Method) N/A
		11. WCH Eng. Notified (Date/Method) 6-21-10	
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). DRAWING 0600X-DD-C0477, REV.0, NOTE 2. "CLEARANCE FOR REINFORCEMENT BARS SHALL BE 3" WHEN PLACED ON GROUND." SPECIFICATION 0600X-SP-C0079 REV. 0 SECTION 2.8.3 SUPPORTS. "BAR SUPPORTS SHALL BE 3"X3" WHEN SUPPORTING REINFORCEMENT ON THE GROUND."			
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>			
14. Cost Impact: N/A		15. Schedule Impact: None	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. PROPOSE UTILIZING A 2" CLEARANCE WHEN USING #4 REBAR. THIS IS CONSISTANT WITH ACI 301 AND ACI 318. P.E. STAMPED TANK FOUNDATION IS CONSISTANT WITH ABOVE REFERENCE SPECIFICATIONS.			
17. Associated Supplier Document Change(s): None			
18. Supplier's Authorized Representative: Name: <u>Dave Sterley</u> Signature: 			
Title: <u>CQCSM</u>		Date: <u>5-24-2010</u>	
19. WCH Engineering Action:			
<input type="checkbox"/> Accepted	Engineering Action	<input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change
<input type="checkbox"/> Rejected		<input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Price Adjustment
	Follow-Up	<input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary)			
21. WCH Disposition Approval/Signature			
FM: _____		Date: _____	
PE/SE: _____		Date: _____	
22. Supplier: _____		Date: _____	
23. WCH PQAR: _____		Date: _____	

COMPLETED BY SUPPLIER

WCH

SUPPLIER DEVIATION DISPOSITION REQUEST

DATE

6-21-2010

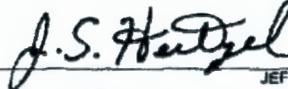
TRANSMITTAL NO.

TW-4

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (This section will be initiated by the contractor)

TO: WASHINGTON CLOSURE HANFORD 2620 Fermi Avenue MSIN: H4-17 Richland, WA 99354 ATTENTION: Sue Palmersheim	FROM: TradeWind Services LLC 1933 Jadwin Avenue, Ste. 230 Richland, WA 99354	AGREEMENT NO. S012308A00 -0/2	
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ITEM NO.	DESCRIPTION OF SDDR	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE	VARIATION	FOR CE USE CODE
				SPEC. PARA. NO.	DRAWING SHEET NO.			
a.	b.	c.	d.	e.	f.	g.	h.	i.
1	2" Clearance using #4 rebar							

REMARKS PLEASE SEND ALL COMMENTS TO SUBMITTALS TO: TradeWind Services LLC 1933 Jadwin Avenue, Ste. 230 Richland, WA 99354 ATTENTION: JEFF HERTZEL jeffh@tradewindllc.com	I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.  JEFF HERTZEL
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SECTION II - APPROVAL ACTION (WASHINGTON CLOSURE HANDFORD LLC)

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE, AND SIGNATURE OF APPROVING AUTHORITY	DATE

COMMENTS:	COMMENTS:

SUPPLIER DEVIATION DISPOSITION REQUEST

DATE

7-07-2010

TRANSMITTAL NO.

TW-0

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (This section will be initiated by the contractor)

TO: WASHINGTON CLOSURE HANFORD 2620 Ferni Avenue MSIN: H4-17 Richland, WA 99354 ATTENTION: Sue Palmersheim	FROM: TradeWind Services LLC 1933 Jadwin Avenue, Ste. 230 Richland, WA 99354	AGREEMENT NO. S012308A00
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ITEM NO.	DESCRIPTION OF SDDR	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE	VARIATION	FOR CE USE CODE
				SPEC. PARA. NO.	DRAWING SHEET NO.			
a.	b.	c.	d.	e.	f.	g.	h.	i.
1	Butting geocomposite to existing secondary drainage layer							
VOIDED								

<p>REMARKS</p> <p>PLEASE SEND ALL COMMENTS TO SUBMITTALS TO: TradeWind Services LLC 1933 Jadwin Avenue, Ste. 230 Richland, WA 99354 ATTENTION: JEFF HERTZEL jeffh@tradewindllc.com</p>	<p>I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.</p> <p style="text-align: right;"><i>J. S. Hertzell</i> JEFF HERTZEL</p>
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SECTION II - APPROVAL ACTION (WASHINGTON CLOSURE HANDFORD LLC)

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE, AND SIGNATURE OF APPROVING AUTHORITY	DATE
COMMENTS:	COMMENTS:	

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No.	Date Submitted	Project: ERDF CELLS 9 & 10	WCH SDDR No.
SDDR-013	7/6/10	Job No.: S012308A00	013
1. Supplier Name		Address	
TradeWind Services, LLC.		1933 Jadwin Ave Suite 230	
		City, State & Zip	
		Richland, WA 99352	
2. Supplier's Order No.	3. Supplier's Part No.	4. Supplier's Part Name	5. Deviation Detected (Date & Method)
N/A	N/A	N/A	7-6-2010
6. All Previous SDDR (No's & Dates)	11. WCH Eng. Notified (Date/Method)		
1-12	7-6-2010		
7. WCH P.O. & Rev. No.	8. WCH MR No. (part, item, tag, etc.)	9. WCH Part Name	10. WCH PQAR Notified (Date & Method)
N/A	N/A	N/A	N/A
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). As designed, Drawing 0600X-DD-C0463 Section A shows a 2' minimum overlap of drainage gravel at the Cells 7 & 8 tie-in over the geocomposite.			
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>			
14. Cost Impact: None		15. Schedule Impact: None	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. To expose the amount of geotextile as indicated on the referenced drawing, material would either have to be mucked onto itself (which would create a greater than 1.5:1 slope) or laid out on a rub sheet on top of the secondary liner. Placing the material on a rub sheet on top of the secondary liner has the potential to damage the liner. To maintain the integrity of the secondary liner and to eliminate a safety hazard, TWS proposes butting the geocomposite to the existing secondary drainage layer on the floor tie-in. The gravel layer will still be confined by the geotextile drainage in the secondary layer will still be carried on the secondary liner.			
17. Associated Supplier Document Change(s): None			
18. Supplier's Authorized Representative:			
Name: <u>Nick Clapper</u>		Signature: 	
Title: <u>Project Engineer</u>		Date: <u>7/6/10</u>	
19. WCH Engineering Action:	Engineering Action	<input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change
	<input type="checkbox"/> Accepted	<input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Price Adjustment
<input type="checkbox"/> Rejected	Follow-Up	<input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary)			

COMPLETED BY SUPPLIER

WCH

SUPPLIER DEVIATION DISPOSITION REQUEST

21. WCH Disposition Approval/Signature

Field Support Action Required?

Yes

No

FM: _____

Date: _____

PE/SE: _____

Date: _____

22. Supplier: _____

Date: _____

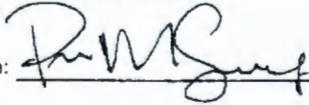
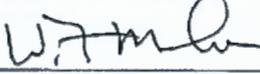
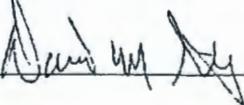
23. WCH PQAR: _____

Date: _____

COMPLETED BY SUPPLIER

WCH

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No.	Date Submitted	Project: ERDF Cells 9 & 10	WCH SDDR No.
TW-014	07-08-2010	Job No.: S012308A00	-014
1. Supplier Name		Address	
TradeWind Services LLC		1933 Jadwin Ave Suite 230	
		City, State & Zip	
		Richland, WA 99352	
2. Supplier's Order No.	3. Supplier's Part No.	4. Supplier's Part Name	5. Deviation Detected (Date & Method)
N/A	N/A	N/A	07-07-2010
6. All Previous SDDR (No's & Dates)	TW 1-12		
7. WCH P.O. & Rev. No.	8. WCH MR No. (part, item, lag, etc.)	9. WCH Part Name	10. WCH PQAR Notified (Date & Method)
N/A	N/A	N/A	07-07-2010
11. WCH Eng. Notified (Date/Method)			
07-07-2010			
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). 0600X-SP-C0082, Rev.1- Lined Bolted Steel Liquid Storage Tank Section 1.5.5-Design Assessment Report Paragraphs 1-6			
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>			
14. Cost Impact: N/A		15. Schedule Impact: None	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. - Delete paragraph 1 (site map) from section 1.5.5 and add to section 1.5.7-Installation Report - Delete paragraph 4 (secondary containment) from section 1.5.5 and add to section 1.5.7- Installation Report			
17. Associated Supplier Document Change(s): None			
18. Supplier's Authorized Representative:			
Name: <u>Dave Sterley</u>		Signature: 	
Title: <u>CQCSM</u>		Date: <u>07-08-2010</u>	
19. WCH Engineering Action:			
<input checked="" type="checkbox"/> Accepted	Engineering Action	<input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change
	<input checked="" type="checkbox"/> Spec/Req. Change	(<input checked="" type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Price Adjustment
<input type="checkbox"/> Rejected	Follow-Up	<input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) <u>WCH Accepts the changes to specification 0600X-SP-C0082, Rev 1 as described in section 16.</u>			
21. WCH Disposition Approval/Signature		Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	
FM: 		Date: <u>7/13/10</u>	
PE/SE: <u>Z. White</u>		Date: <u>7/13/10</u>	
22. Supplier: 		Date: <u>7/13/10</u>	
23. WCH PQAR:		Date:	

COMPLETED BY SUPPLIER

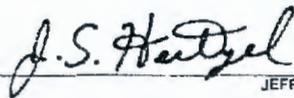
WCH

SUPPLIER DEVIATION DISPOSITION REQUEST	DATE 8-03-2010	TRANSMITTAL NO. TW-
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SECTION I – REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (This section will be initiated by the contractor)

TO: WASHINGTON CLOSURE HANFORD 2620 Fermi Avenue MSIN: H4-17 Richland, WA 99354 ATTENTION: Sue Palmersheim	FROM: TradeWind Services LLC 1933 Jadwin Avenue, Ste. 230 Richland, WA 99354	AGREEMENT NO. S012308A00	WCH SDDR # S012308A00-015
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ITEM NO.	DESCRIPTION OF SDDR	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		DATE			
				SPEC. PARA. NO.	DRAWING SHEET NO	FOR CONTRACTOR USE ONLY	VARIATION	FOR CE USE CODE	
a	b	c	d	e	f	g	h	i	
1	Change 3" conduit to a 2" conduit						DATE 8/3/10		

REMARKS PLEASE SEND ALL COMMENTS TO SUBMITTALS TO: TradeWind Services LLC 1933 Jadwin Avenue, Ste. 230 Richland, WA 99354 ATTENTION: JEFF HERTZEL jeffh@tradewindllc.com	I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated  JEFF HERTZEL
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SECTION II – APPROVAL ACTION (WASHINGTON CLOSURE HANDFORD LLC)

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE, AND SIGNATURE OF APPROVING AUTHORITY	DATE
COMMENTS:	COMMENTS:	

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE				
Supplier SDDR No. TW-016	Date Submitted 08-05-2010	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. - 016 Date Received 8/05/10			
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230 City, State & Zip Richland, WA 99352				
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 07-28-2010			
6. All Previous SDDR (No's & Dates) TW 1-15	7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A			
10. WCH PQAR Notified (Date & Method) N/A						
11. WCH Eng. Notified (Date/Method) N/A						
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Specification 0600X-SP-C0078, Rev.0; Section 2.2 Drainage Gravel Type A. Variability of specific lenses of sands and gravels in Pit 30 make it difficult to control the product to meet the specified grading. Meeting the 3/8" grading requirement makes the product a gravelly sand instead of a sandy gravel.						
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>						
14. Cost Impact: N/A		15. Schedule Impact: None				
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. Change 3/8" grading spec from 35-80 to 25-80. This minor change would "clean-up" the product and facilitate permeability in the drainage layer. It would also allow for more liquid storage in the drainage layer if the need were to arise.						
17. Associated Supplier Document Change(s): None						
18. Supplier's Authorized Representative: Name: <u>Dave Sterley</u> Signature: <u><i>Dave M Sterley</i></u> Title: <u>CQCSM</u> Date: <u>08-05-2010</u>						
19. WCH Engineering Action: <table style="width: 100%; border: none;"> <tr> <td style="width: 20%; vertical-align: top;"> <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Rejected </td> <td style="width: 20%; border: none;"> Engineering Action <input type="checkbox"/> Drawing Change <input checked="" type="checkbox"/> Spec/Req. Change Follow-Up <input type="checkbox"/> Other Suppliers Affected </td> <td style="width: 40%; border: none;"> (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) (<input checked="" type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Price Adjustment <input type="checkbox"/> Other </td> </tr> </table>				<input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Rejected	Engineering Action <input type="checkbox"/> Drawing Change <input checked="" type="checkbox"/> Spec/Req. Change Follow-Up <input type="checkbox"/> Other Suppliers Affected	(<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) (<input checked="" type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Price Adjustment <input type="checkbox"/> Other
<input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Rejected	Engineering Action <input type="checkbox"/> Drawing Change <input checked="" type="checkbox"/> Spec/Req. Change Follow-Up <input type="checkbox"/> Other Suppliers Affected	(<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) (<input checked="" type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Price Adjustment <input type="checkbox"/> Other				
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) <u>WCH accepts the proposed disposition and will make the necessary changes to the design documents.</u>						
21. WCH Disposition Approval/Signature Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No FM: <u><i>WFM</i></u> Date: <u>8/12/10</u> PE/SE: <u><i>J. Winters</i></u> Date: <u>8/11/10</u> 22. Supplier: <u><i>Dave M Sterley</i></u> Date: <u>8/17/10</u> 23. WCH PQAR: _____ Date: _____						

COMPLETED BY SUPPLIER

WCH

SUPPLIER DEVIATION DISPOSITION REQUEST

DATE

8-05-2010

TRANSMITTAL NO.

TW-01

SECTION I – REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (This section will be initiated by the contractor)

TO: WASHINGTON CLOSURE HANFORD 2620 Femi Avenue MSIN: H4-17 Richland, WA 99354 ATTENTION: Sue Palmersheim	FROM: TradeWind Services LLC 1933 Jadwin Avenue, Ste. 230 Richland, WA 99354	AGREEMENT NO. S012308A00	
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ITEM NO.	DESCRIPTION OF SDDR	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE	VARIATION	FOR CE USE CODE
				SPEC. PARA. NO.	DRAWING SHEET NO.			
a.	b.	c.	d.	e.	f.	g.	h.	i.
1	Change 3/8" grading spec from 35-80 to 25-80							

REMARKS PLEASE SEND ALL COMMENTS TO SUBMITTALS TO: TradeWind Services LLC 1933 Jadwin Avenue, Ste. 230 Richland, WA 99354 ATTENTION: JEFF HERTZEL jeffh@tradewindllc.com	I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.  JEFF HERTZEL
---	--

SECTION II – APPROVAL ACTION (WASHINGTON CLOSURE HANDFORD LLC)

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE, AND SIGNATURE OF APPROVING AUTHORITY	DATE

COMMENTS:	COMMENTS:

SUPPLIER DEVIATION DISPOSITION REQUEST

DATE

8-24-2010

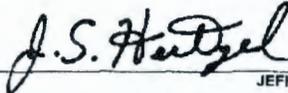
TRANSMITTAL NO.

TW-01

SECTION I – REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (This section will be initiated by the contractor)

TO: WASHINGTON CLOSURE HANFORD 2620 Fernl Avenue MSIN: H4-17 Richland, WA 99354 ATTENTION: Sue Palmersheim	FROM: TradeWind Services LLC 1933 Jadwin Avenue, Ste. 230 Richland, WA 99354	AGREEMENT NO. S012308A00
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ITEM NO.	DESCRIPTION OF SDDR	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE	VARIATION	FOR CE USE CODE
				SPEC. PARA. NO.	DRAWING SHEET NO.			
a.	b.	c.	d.	e.	f.	g.	h.	i.
1	Change section 3.9.2J of spec 0600X-SP-C0077 to 30 calendar days							

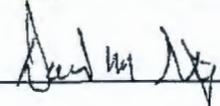
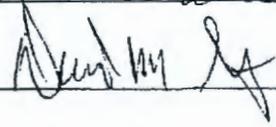
<p>REMARKS</p> <p>PLEASE SEND ALL COMMENTS TO SUBMITTALS TO: TradeWind Services LLC 1933 Jadwin Avenue, Ste. 230 Richland, WA 99354 ATTENTION: JEFF HERTZEL jeffh@tradewindllc.com</p>	<p>I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.</p> <p> JEFF HERTZEL</p>
--	--

SECTION II – APPROVAL ACTION (WASHINGTON CLOSURE HANFORD LLC)

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE, AND SIGNATURE OF APPROVING AUTHORITY	DATE
COMMENTS:	COMMENTS:	

SUPPLIER DEVIATION DISPOSITION REQUEST

DATE
8/24/10

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No. TW-017	Date Submitted 08-24-2010	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. S012308A00 -017 Date Received 8/24/10
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230 City, State & Zip Richland, WA 99352	
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 08-23-2010
6. All Previous SDDR (No's & Dates) TW 1-16		7. WCH P.O. & Rev. No. N/A	
8. WCH MR No. (part, item, tag, etc.) N/A		9. WCH Part Name N/A	
10. WCH PQAR Notified (Date & Method) 08-24-2010		11. WCH Eng. Notified (Date/Method) 08-24-2010	
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Specification 0600X-SP-C0077, Rev.0 Section 3.9.2.J, Geotextile handling and placement. "Textile shall be covered within 14 calendar days."			
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>			
14. Cost Impact: None		15. Schedule Impact: None	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. The geotextile supplied meets or exceeds the specified greater than 70% at 500 hours of u.v. exposure. 500 hours of u.v. exposure equates to a minimum of 30-35 calendar days. Given the size of cells 9 & 10 (36 acres) and the necessary construction sequencing, it is impractical to cover every geotextile component after 14 calendar days. Recommend changing section 3.9.2.J from 14 calendar days to 30 calendar days given the material property spec of greater than 70% strength after 500 hours of u.v. exposure.			
17. Associated Supplier Document Change(s): None			
18. Supplier's Authorized Representative: Name: <u>Dave Sterley</u> Signature:  Title: <u>CQCSM</u> Date: <u>08-24-2010</u>			
19. WCH Engineering Action:			
<input checked="" type="checkbox"/> Accepted	Engineering Action	<input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input checked="" type="checkbox"/> Spec/Req. Change (<input checked="" type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Price Adjustment
<input type="checkbox"/> Rejected	Follow-Up	<input checked="" type="checkbox"/> Other Suppliers Affected <u>Envirotech</u>	<input type="checkbox"/> Other
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) <u>WCH will revise the geotextile spec. as shown on the attached sheet.</u>			
21. WCH Disposition Approval/Signature		Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	
FM: <u>W. J. M. L.</u>		Date: <u>8/30/10</u>	
PE/SE: <u>J. White</u>		Date: <u>8/30/10</u>	
22. Supplier: 		Date: _____	
23. WCH PQAR: _____		Date: _____	

COMPLETED BY SUPPLIER

WCH

WCH will revise Section 3.9.2.J of Specification 0600X-SP-C0077 to read:

“After Deployment, geotextile shall be covered to prevent exposure to ultraviolet (UV) radiation (sunlight) within a maximum period of 28 calendar days.”

The revision to the specification is based on several factors. The strength testing specification requires the geotextile material to maintain 70% of its strength after being exposed to UV radiation for 500 hours. At latitude 46.5° N (The approximate latitude of ERDF) the maximum hours of sunlight during the year is 15.6, which occurs between June 12 and June 30. If the test hours are divided by the hours of sunlight the result is approximately 32 days. The months that the geotextile is being deployed have lower daily sunlight hours but the peak rate was used as a conservative measure. 28 days was selected which doubles the existing duration.

The area where the strength of the material becomes the largest concern is on the side slopes. The geotextile is an integral part of the stability of the side slopes and special care should be given to the exposure duration in these locations.

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE							
Supplier SDDR No. TW-018	Date Submitted 09-13-2010	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. - 018 Date Received 9/13/10						
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230 City, State & Zip Richland, WA 99352							
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 09-13-2010						
6. All Previous SDDR (No's & Dates) TW 1-17		7. WCH P.O. & Rev. No. N/A							
8. WCH MR No. (part, item, tag, etc.) N/A		9. WCH Part Name N/A							
10. WCH PQAR Notified (Date & Method) 09-13-2010		11. WCH Eng. Notified (Date/Method) 09-13-2010							
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). DeiHur proposes deleting the destructive testing of primary + secondary liners for the new leachate storage tanks. 0600X-SP-C0082-3.3.2 Rev.1									
13. Supplier's Proposed Disposition: Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>									
14. Cost Impact: None		15. Schedule Impact: None							
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. The electronic leak test 0600X-SP-C0082-3.3.2 Rev. 1 will achieve the same results without compromising the integrity of the liner.									
17. Associated Supplier Document Change(s): None									
18. Supplier's Authorized Representative: Name: <u>Jake Williams</u> Signature: <u>[Signature]</u> Title: <u>Quality Control</u> Date: <u>09-13-2010</u>									
19. WCH Engineering Action: <table style="width: 100%; border: none;"> <tr> <td style="width: 20%; vertical-align: top;"> <input type="checkbox"/> Accepted <input checked="" type="checkbox"/> Rejected </td> <td style="width: 20%; border: none;"> Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) </td> <td style="width: 20%; border: none;"> <input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Price Adjustment </td> <td style="width: 20%; border: none;"> <input type="checkbox"/> Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other </td> </tr> </table>				<input type="checkbox"/> Accepted <input checked="" type="checkbox"/> Rejected	Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Price Adjustment	<input type="checkbox"/> Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other		
<input type="checkbox"/> Accepted <input checked="" type="checkbox"/> Rejected	Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Price Adjustment	<input type="checkbox"/> Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other						
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) <u>See Attached</u>									
21. WCH Disposition Approval/Signature <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">FM: <u>[Signature]</u></td> <td style="width: 40%;">Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>PE/SE: <u>[Signature]</u></td> <td>Date: <u>9/27/10</u></td> </tr> <tr> <td>Supplier: <u>[Signature]</u></td> <td>Date: <u>9-28-10</u></td> </tr> </table>				FM: <u>[Signature]</u>	Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	PE/SE: <u>[Signature]</u>	Date: <u>9/27/10</u>	Supplier: <u>[Signature]</u>	Date: <u>9-28-10</u>
FM: <u>[Signature]</u>	Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No								
PE/SE: <u>[Signature]</u>	Date: <u>9/27/10</u>								
Supplier: <u>[Signature]</u>	Date: <u>9-28-10</u>								
23. WCH PQAR: _____ Date: _____									

COMPLETED BY SUPPLIER

WCH

Response to SDDR 018

Request to delete the destructive testing of the primary and secondary liners for the new leachate storage tanks and perform an electronic leak test instead.

It is the position of WCH that SDDR-018 be rejected based on the following requirements in the specifications: Section 3.2 Tank Installation and 3.3.2 Tank Liner Inspection of Specification No. 0600X-SP-C0082 state "The geomembrane liners shall be tested and installed in accordance with Specification No. 0600X-SP-C0077."

Specification No. 0600X-SP-C0077 discusses two types of testing: 3.5.2 Nondestructive Seam Continuity Testing and 3.5.3 Destructive Seam Strength Testing. Section 3.5.3 specifically states that "The purpose of these tests is to evaluate seam strength." and "The samples shall meet the requirements of the table titled 'Required Seam Properties'."

While the electronic leak test will satisfy the requirements for the seam continuity testing (leak test) it will not give any information as to the strength of the seam. The properties for the seam can be found at the bottom of the table in section 2.5.3 Tank Secondary and Primary Liners of Specification No. 0600X-SP-C0082.

Additionally, the CQA subcontractor will endeavor to locate the destructive test so as avoid having a repair in critical locations within the liner system.

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE			FOR WCH USE	
Supplier SDDR No. TW-019	Date Submitted 10-04-2010	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. 019	Date Received 10/4/10
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230		City, State & Zip Richland, WA 99352
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 10-01-2010	6. All Previous SDDR (No's & Dates) TW 1-18
7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A	10. WCH PQAR Notified (Date & Method) N/A	11. WCH Eng. Notified (Date/Method) 10-1-2010
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). 0600X-SP-C0075, Rev. 0, Section 3.11.3. Fill shall be compacted by a hand help mechanical or rubber tired compaction equipment.				
13. Supplier's Proposed Disposition: Use As-is <input type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input checked="" type="checkbox"/>				
14. Cost Impact: None			15. Schedule Impact: None	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. Propose utilizing a hoe-pak mounted on small excavator. Trench is too small for rubber tired roller and not practical to utilize hand held plate whacker. 6" lifts shall be maintained.				
17. Associated Supplier Document Change(s): None				
18. Supplier's Authorized Representative: Name: <u>Dave Sterley</u> Signature: <u><i>Dave Sterley</i></u> Title: <u>CQCSM</u> Date: <u>10-04-2010</u>				
19. WCH Engineering Action:				
<input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Rejected		Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Price Adjustment Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other		
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) <u>WCH accepts the disposition proposed by TWS and will allow the use of a hoe-pak mounted on a small excavator for the compaction of the Anchor Trench.</u>				
21. WCH Disposition Approval/Signature Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No				
FM: <u><i>W. J. Miller</i></u>		Date: <u>10/4/10</u>		
PE/SE: <u><i>Jay W. White</i></u>		Date: <u>10/4/10</u>		
22. Supplier: <u><i>Dave Sterley</i></u>		Date: <u>10/4/10</u>		
23. WCH PQAR: _____ Date: _____				

COMPLETED BY SUPPLIER

WCH

SUPPLIER DEVIATION DISPOSITION REQUEST	DATE 10-04-2010	TRANSMITTAL NO. TW-0
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SECTION I – REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (This section will be initiated by the contractor)

TO: WASHINGTON CLOSURE HANFORD 2620 Femi Avenue MSIN: H4-17 Richland, WA 99354 ATTENTION: Sue Palmersheim	FROM: TradeWind Services LLC 1933 Jadwin Avenue, Ste. 230 Richland, WA 99354	AGREEMENT NO. S012308A00
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ITEM NO.	DESCRIPTION OF SDDR	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE	VARIATION	FOR CE USE CODE
				SPEC. PARA. NO.	DRAWING SHEET NO.			
a.	b.	c.	d.	e.	f.	g.	h.	i.
1	Fill to be compacted by hand held compaction							

REMARKS PLEASE SEND ALL COMMENTS TO SUBMITTALS TO: TradeWind Services LLC 1933 Jadwin Avenue, Ste. 230 Richland, WA 99354 ATTENTION: JEFF HERTZEL jeffh@tradewindllc.com	I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. <div style="text-align: right;">  _____ JEFF HERTZEL </div>
--	---

SECTION II – APPROVAL ACTION (WASHINGTON CLOSURE HANFORD LLC)

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE, AND SIGNATURE OF APPROVING AUTHORITY	DATE

COMMENTS:	COMMENTS:

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE			FOR WCH USE		
Supplier SDDR No. TW-020	Date Submitted 10-20-2010	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. 020	Date Received 10/20/10	
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230	City, State & Zip Richland, WA 99352		
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 10-12-2010	6. All Previous SDDR (No's & Dates) TW 1-19	
7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, lag, etc.) N/A	9. WCH Part Name N/A	10. WCH PQAR Notified (Date & Method) 10-12-10	11. WCH Eng. Notified (Date/Method) 10-12-2010	
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Approved submittal (5-32-001A) geomembrane installation plan shows proposed deployment direction and proposed sequential numbering system.					
13. Supplier's Proposed Disposition: Use As-Is <input checked="" type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input type="checkbox"/>					
14. Cost Impact: None			15. Schedule Impact: None		
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. In order to optimize geomembrane deployment and reduce wasting liner, many partial rolls were incorporated into the secondary geomembrane placement. The panel placement plan does not reflect partial rolls as it is essentially a directional plan.					
17. Associated Supplier Document Change(s): None					
18. Supplier's Authorized Representative: Name: <u>Dave Sterley</u> Signature: <u>[Signature]</u> Date: <u>10-20-2010</u> Title: <u>CQCSM</u>					
19. WCH Engineering Action: <input checked="" type="checkbox"/> Accepted Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Rejected <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Price Adjustment <input type="checkbox"/> Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other					
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) WCH accepts the proposed disposition and will allow the use of partial rolls as described above.					
21. WCH Disposition Approval/Signature Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No FM: <u>[Signature]</u> Date: <u>10/26/10</u> PE/SE: <u>[Signature]</u> Date: <u>10/25/10</u>					
22. Supplier: <u>[Signature]</u> Date: <u>10/26/10</u>					
23. WCH PQAR: _____ Date: _____					

COMPLETED BY SUPPLIER

WCH

COPY

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE	
Supplier SDDR No. TW-021	Date Submitted 10-20-2010	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. 021
		Date Received 10/20/10	
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230	
		City, State & Zip Richland, WA 99352	
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 10-19-2010
		6. All Previous SDDR (No's & Dates) TW 1-20	
7. WCH P.O. & Rev. No. N/A	8. WCH MR No. (part, item, tag, etc.) N/A	9. WCH Part Name N/A	10. WCH PQAR Notified (Date & Method) 10-19-10
		11. WCH Eng. Notified (Date/Method) 10-19-2010	
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Specification 0600X-SP-C0078, Rev. 0; Section 3.4.1 "Place and compact operations material in one lift."			
13. Supplier's Proposed Disposition: Use As-is <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Modify WCH Requirement <input type="checkbox"/>			
14. Cost Impact: None		15. Schedule Impact: None	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. Specification 0600X-SP-C0078; Section 3.2-2 "A minimum thickness of 1 foot or material shall be maintained...." A minimum of 1 foot is being spread utilizing an LGP (wide track D-6) dozer.			
17. Associated Supplier Document Change(s): None			
18. Supplier's Authorized Representative: Name: <u>Dave Sterley</u> Signature: <u><i>Dave Sterley</i></u> Date: <u>10-20-2010</u> Title: <u>CQCSM</u>			
19. WCH Engineering Action: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Rejected	Engineering Action	<input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change
		<input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Price Adjustment
	Follow-Up	<input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other
20. WCH Disposition Statement including Justification (Attach extra sheets, sketches, etc., as necessary) <u>WCH will allow the deviation from the following specifications 0600X-SP-C0078 Sections 3.4.1 a and d and apply the less stringent requirements of section 3.2.2.</u>			
21. WCH Disposition Approval/Signature FM: <u><i>W7m...</i></u> Date: <u>10/26/10</u>		Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	
PE/SE: <u><i>Zi Wulke</i></u> Date: <u>10/25/10</u>			
22. Supplier: <u><i>Dave Sterley</i></u> Date: <u>10/26/10</u>			
23. WCH PQAR: _____ Date: _____			

COMPLETED BY SUPPLIER

WCH

COPY

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE		FOR WCH USE									
Supplier SDDR No. TW-022	Date Submitted 11-10-2010	Project: ERDF Cells 9 & 10 Job No.: S012308A00	WCH SDDR No. <i>022</i> Date Received <i>11/10/10</i>								
1. Supplier Name TradeWind Services LLC		Address 1933 Jadwin Ave Suite 230 City, State & Zip Richland, WA 99352									
2. Supplier's Order No. N/A	3. Supplier's Part No. N/A	4. Supplier's Part Name N/A	5. Deviation Detected (Date & Method) 11-10-2010								
6. All Previous SDDR (No's & Dates) TW 1-21		7. WCH P.O. & Rev. No. N/A									
8. WCH MR No. (part, item, tag, etc.) N/A		9. WCH Part Name N/A									
10. WCH PQAR Notified (Date & Method) 11-10-2010		11. WCH Eng. Notified (Date/Method) 11-10-2010									
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable). Request deviation from subgrade point #2024. Subgrade point #2024 was redesigned by DCN and relocated to the new location. As a result, the as-built subgrade elevation exceeded the specified tolerance by .3 feet. However, the as-built survey of the admix layer indicated the admix was placed 3 feet thick in that location											
13. Supplier's Proposed Disposition: Use As-Is <input checked="" type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input type="checkbox"/>											
14. Cost Impact: None		15. Schedule Impact: None									
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary. Leave as is											
17. Associated Supplier Document Change(s): None											
18. Supplier's Authorized Representative: Name: <u>Dave Sterley</u> Signature: <i>[Signature]</i> Title: <u>CQCSM</u> Date: <u>11-10-2010</u>											
19. WCH Engineering Action: <table style="width: 100%; border: none;"> <tr> <td style="width: 20%; border: none;"><input checked="" type="checkbox"/> Accepted</td> <td style="width: 20%; border: none;">Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Licensing Document Change</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Rejected</td> <td style="border: none;"><input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Price Adjustment</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;">Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other</td> </tr> </table>				<input checked="" type="checkbox"/> Accepted	Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Licensing Document Change	<input type="checkbox"/> Rejected	<input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Price Adjustment		Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other		
<input checked="" type="checkbox"/> Accepted	Engineering Action <input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Licensing Document Change										
<input type="checkbox"/> Rejected	<input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Price Adjustment										
	Follow-Up <input type="checkbox"/> Other Suppliers Affected <input type="checkbox"/> Other										
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary) <i>WCH accepts the deviation from the subgrade tolerance for Point #2024. Survey has confirmed the minimum 3' of admix coverage at this location.</i>											
21. WCH Disposition Approval/Signature <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">FM: <i>[Signature]</i></td> <td style="width: 50%; border: none;">Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td style="border: none;">PE/SE: <i>[Signature]</i></td> <td style="border: none;">Date: <i>11/11/10</i></td> </tr> <tr> <td style="border: none;">22. Supplier: <i>[Signature]</i></td> <td style="border: none;">Date: <i>11/10/10</i></td> </tr> <tr> <td style="border: none;">23. WCH PQAR:</td> <td style="border: none;">Date: <i>11/15/10</i></td> </tr> </table>				FM: <i>[Signature]</i>	Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	PE/SE: <i>[Signature]</i>	Date: <i>11/11/10</i>	22. Supplier: <i>[Signature]</i>	Date: <i>11/10/10</i>	23. WCH PQAR:	Date: <i>11/15/10</i>
FM: <i>[Signature]</i>	Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No										
PE/SE: <i>[Signature]</i>	Date: <i>11/11/10</i>										
22. Supplier: <i>[Signature]</i>	Date: <i>11/10/10</i>										
23. WCH PQAR:	Date: <i>11/15/10</i>										

COMPLETED BY SUPPLIER

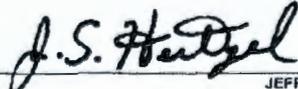
WCH

SDDR	DATE 12-2-2010	SDDR NO. 023
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SECTION I – REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (This section will be initiated by the contractor)

TO: WASHINGTON CLOSURE HANFORD 2620 Fermi Avenue MSIN: H4-17 Richland, WA 99354 ATTENTION: Sue Palmersheim	FROM: TradeWind Services LLC 1933 Jadwin Avenue, Ste. 230 Richland, WA 99354	AGREEMENT NO. <p style="text-align: center;">S012308A00</p>
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ITEM NO.	DESCRIPTION OF ITEM SUBMITTED	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE	VARIATION	FOR CE USE CODE
				SPEC. PARA. NO.	DRAWING SHEET NO.			
a	b	c	d	e	f	g	h	i
	CQA field density testing on backfills of MH 37 & 38		1					

REMARKS PLEASE SEND ALL COMMENTS TO SUBMITTALS TO: TradeWind Services LLC 1933 Jadwin Avenue, Ste. 230 Richland, WA 99354 ATTENTION: JEFF HERTZEL jeffh@tradewindllc.com	I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. <div style="text-align: right;">  _____ JEFF HERTZEL </div>
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SECTION II – APPROVAL ACTION (WASHINGTON CLOSURE HANDFORD LLC)

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE, AND SIGNATURE OF APPROVING AUTHORITY	DATE
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COMMENTS:	COMMENTS:

SUPPLIER DEVIATION DISPOSITION REQUEST

FOR SUPPLIER USE			FOR WCH USE	
Supplier SDDR No.	Date Submitted	Project: ERDF CELLS 9 & 10	WCH SDDR No.	Date Received
023	12/2/2010	Job No.: S012308A00		
1. Supplier Name		Address		City, State & Zip
TradeWind Services, LLC		1933 Jadwin Ave Suite 230		Richland, WA 99352
2. Supplier's Order No.	3. Supplier's Part No.	4. Supplier's Part Name	5. Deviation Detected (Date & Method)	6. All Previous SDDR (No's & Dates)
N/A	N/A	N/A	12-1-2010	0-022
7. WCH P.O. & Rev. No.	8. WCH MR No. (part, item, tag, etc.)	9. WCH Part Name	10. WCH PQAR Notified (Date & Method)	11. WCH Eng. Notified (Date/Method)
N/A	N/A	N/A	12-1-2010	12-1-2010
12. Deviation Description (Attach extra sheets, photographs, sketches, etc., as necessary and identify quantity and serial No.'s as applicable).				
CQA field density testing on backfill lifts 1 & 2 between manholes 37 and 38 failed to meet the minimum requirements of 90% relative density.				
13. Supplier's Proposed Disposition: Use As-Is <input checked="" type="checkbox"/> Repair <input type="checkbox"/> Modify WCH Requirement <input type="checkbox"/>				
14. Cost Impact: N/A			15. Schedule Impact: N/A	
16. Proposed Disposition and Technical (plus Cost/Schedule, if applicable). Justification: Attach extra sheets, sketches, etc., as necessary.				
The attached QC testing report represents lifts 1 & 2 between manholes 37 and 38 indicate that adequate density was achieved.				
17. Associated Supplier Document Change(s):				
18. Supplier's Authorized Representative:				
Name: <u>Dave Sterley</u>		Signature: <u><i>Dave M Sterley</i></u>		
Title: <u>CQCSM</u>		Date: <u>12/2/2010</u>		
19. WCH Engineering Action:				
<input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Rejected	Engineering Action	<input type="checkbox"/> Drawing Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier) <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> WCH <input type="checkbox"/> Supplier)	<input type="checkbox"/> Licensing Document Change <input type="checkbox"/> Price Adjustment	
	Follow-Up	<input type="checkbox"/> Other Suppliers Affected	<input type="checkbox"/> Other	
20. WCH Disposition Statement Including Justification (Attach extra sheets, sketches, etc., as necessary)				
WCH accepts TW/DHI disposition.				
21. WCH Disposition Approval/Signature				
FM: _____			Field Support Action Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	
PE/SE: <u><i>Li Wille</i></u>			Date: <u>12/2/10</u>	
22. Supplier: <u><i>Dave M Sterley</i></u>			Date: <u>12/2/10</u>	
23. WCH PQAR: _____			Date: _____	

COMPLETED BY SUPPLIER

WCH



INTERMOUNTAIN MATERIALS TESTING & GEOTECHNICAL

PO Box 2801
Pasco, WA 99302
(509) 545-9217 • (509) 545-9243 FAX

Page 1 of 2

DeHur Industries, Inc.
Mr. Dave Sterley
P.O. Box 883
Hermiston, OR 97838

June 30, 2010

Project Number M10014

PROJECT: ERDF Cells 9 & 10 Construction
Hanford, WA

SUBJECT: Results of Field and Laboratory Testing
Report #20
June 21 through 25, 2010

At your request, we have provided field and laboratory testing services for the subject project. Services were limited to the examination and testing of specific construction components, selected at your discretion.

For this period our involvement has been limited to laboratory testing of one soil sample collected by us on June 22, 2010 and compaction testing of backfill and base course. Results were verbally reported in the field to your representative. Laboratory tests were conducted in accordance with methods listed on the attached *Laboratory Summary*.

Field densities were determined at random locations according to Nuclear Methods. We believe that results are representative of the lift or course exposed in the immediate area of our test during our site visit. Results should not be considered representative of other lifts, courses, or areas, if any.

Compaction results are presented on the attached *Results of Compaction Tests* form. Daily activities are summarized in the following paragraphs:

Monday, June 21, 2010
Weather: Clear, 70°

Technician: Leo Perales
3 hrs portal to portal/20 miles mobilization

TRANSMISSION LINE /DUCT BANK BACKFILL

The contractor completed compaction of backfill between manholes #35 and #36 and duct bank prior to our site visit. Tests were conducted at the surfaces of lifts 1, 2, and 12 with results indicating compaction ranging from 95% to 99+%, meeting or exceeding the specified minimum (95%).

COMPACTION

Tuesday, June 22, 2010
Weather: Clear, 70°

Technician: Leo Perales
3 hrs portal to portal/11 miles mobilization

TRANSMISSION LINE /DUCT BANK BACKFILL

The contractor completed compaction of backfill between manholes #37 and #38 and duct bank prior to our site visit. Tests were conducted at the surfaces of lifts 1 and 2 with results indicating compaction ranging from 90% to 99+%, meeting or exceeding the specified minimums (90%, 95%).

COMPACTION/SAMPLE

We collected one soil sample and transported it to the laboratory for testing.

Wednesday, June 23, 2010
Weather: Clear, 70°

Technician: Leo Perales
3.5 hrs portal to portal/16 miles mobilization

TRANSMISSION LINE BACKFILL/LYSIMETER SUMP PAD CSBC

The contractor completed compaction of backfill between manholes #37 and #38 and base course for the lysimeter sump pad prior to our site visits. Tests were conducted at the surfaces of lifts 2 and 3 and the 15" fill with results indicating compaction ranging from 90% to 99+%, meeting or exceeding the specified minimum (90%).

COMPACTION

Thursday, June 24, 2010
Weather: Clear, 70°

Technician: Leo Perales
4 hrs portal to portal/16 miles mobilization

TRANSMISSION LINE BACKFILL

COMPACTION

The contractor completed compaction of backfill between manholes #37 and #38 prior to our site visits. Tests were conducted at the surfaces of lifts 4, 5 and 6 with results indicating compaction ranging from 91% to 96%, exceeding the specified minimum (90%).

Friday, June 25, 2010
Weather: Clear, 85°

Technician: Leo Perales
3 hrs portal to portal/40 miles mobilization

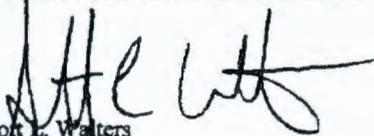
TRANSMISSION LINE BACKFILL

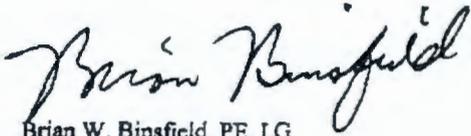
COMPACTION

The contractor completed compaction of backfill between manholes #37 and #38 prior to our site visit. Tests were conducted at the surfaces of lifts 7 and 8 with results indicating compaction ranging from 90% to 95%, meeting or exceeding the specified minimum (90%).

If you have any questions regarding this report, please call.

Respectfully Submitted:
INTERMOUNTAIN MATERIALS TESTING


Scott L. Walters
Mgr. Construction Services


Brian W. Binsfield, PE, LG
Mgr. Engineering Services

SLW/saf
Addressee - dmsterie@wch-tcc.com
Attachments:

- Results of Compaction Tests (2 pages)
- Laboratory Summary (1 page)
- Particle Size Distribution Report (1 page)
- Moisture/Density Report (1 page)

RESULTS OF COMPACTION TESTS

TEST #	DATE	LOCATION	DEPTH BELOW FSG	THICKNESS OF FILL	MOISTURE		DENSITY		COMPACTION	
					FIELD (5)	OPT. (2)	FIELD (5)	MAX. (2)	(%)	SPEC
<u>TRANSMISSION LINE BACKFILL</u>										
<u>BETWEEN MANHOLES #35 & #36</u>										
<u>Leo Perales/Gauge 5576</u>										
525	6/21/10	East side	Lift 12	-	5.9	9.5	123.9	124.0	99+	95
526	"	West side	Lift 12	-	5.8	9.5	121.1	124.0	98	95
<u>DUCT BANK BACKFILL</u>										
527	"	West side	Lift 1	-	6.3	12.0	111.3	115.5	96	95
528	"	West side	Lift 2	-	7.0	12.0	110.9	115.5	96	95
529	"	West center	Lift 1	-	10.0	12.0	111.0	115.5	96	95
530	"	East center	Lift 1	-	11.7	12.0	109.5	155.5	95	95
<u>DUCT BANK BACKFILL</u>										
<u>Leo Perales/Gauge 5576</u>										
531	6/22/10	West center	Lift 2	-	9.5	12.0	111.4	115.5	96	95
532	"	East center	Lift 2	-	11.3	12.0	116.5	115.5	99+	95
533	"	East side	Lift 1	-	8.7	12.0	111.5	115.5	97	95
534	"	East side	Lift 2	-	13.5	12.0	110.5	115.5	96	95
<u>TRANSMISSION LINE BACKFILL</u>										
<u>BETWEEN MANHOLES #37 & #38</u>										
535	"	West side	Lift 1	-	14.8	12.0	107.7	115.5	93	90
536	"	East side	Lift 1	-	14.5	12.0	105.0	115.5	90	90
<u>TRANSMISSION LINE BACKFILL</u>										
<u>BETWEEN MANHOLES #37 & #38</u>										
<u>Leo Perales/Gauge 5576</u>										
537	6/23/10	West side	Lift 2	-	7.3	12.0	106.1	115.5	92	90
538	"	East side	Lift 2	-	11.8	12.0	103.8	115.5	90	90
539	"	West side	Lift 3	-	12.0	12.0	105.1	115.5	91	90
540	"	East side	Lift 3	-	5.8	12.0	106.9	115.5	93	90
<u>LYSIMETER SUMP PAD/CIBC</u>										
541	"	Center of pad	0"	15"	5.4	5.0	141.9	141.5	99+	90

(1) ASTM D-698 (2) ASTM D-1557
 (3) AASHTO T-99 (4) AASHTO T-180
 (5) ASTM D-4938 (6) WSDOT 606

RESULTS OF COMPACTION TESTS

TEST #	DATE	LOCATION	DEPTH BELOW FSG	THICKNESS OF FILL	MOISTURE		DENSITY		COMPACTION	
					FIELD (5)	OPT. (2)	FIELD (5)	MAX. (2)	(%)	SPEC
<u>TRANSMISSION LINE BACKFILL BETWEEN MANHOLES #37 & #38</u>										
<u>Leo Perales/Gauge 5576</u>										
542	6/24/10	West side	Lift 4	-	11.1	12.0	105.0	115.5	91	90
543	"	East side	Lift 4	-	12.8	12.0	106.0	115.5	92	90
544	"	East side	Lift 5	-	13.5	12.0	107.0	115.5	93	90
545	"	West side	Lift 5	-	13.9	12.0	104.8	115.5	91	90
546	"	West side	Lift 6	-	14.3	12.0	107.5	115.5	93	90
547	"	East side	Lift 6	-	11.8	12.0	110.5	115.5	96	90
<u>TRANSMISSION LINE BACKFILL BETWEEN MANHOLES #37 & #38</u>										
<u>Leo Perales/Gauge 5576</u>										
548	6/25/10	West side	Lift 7	-	9.7	12.0	104.0	115.5	90	90
549	"	East side	Lift 7	-	12.7	12.0	104.4	115.5	91	90
550	"	West side	Lift 8	-	14.0	12.0	109.9	115.5	95	90
551	"	East side	Lift 8	-	8.1	12.0	105.4	115.5	91	90

(1) ASTM D-698 (2) ASTM D-1557
 (3) AASHTO T-99 (4) AASHTO T-180
 (5) ASTM D-4938 (6) WSDOT 606

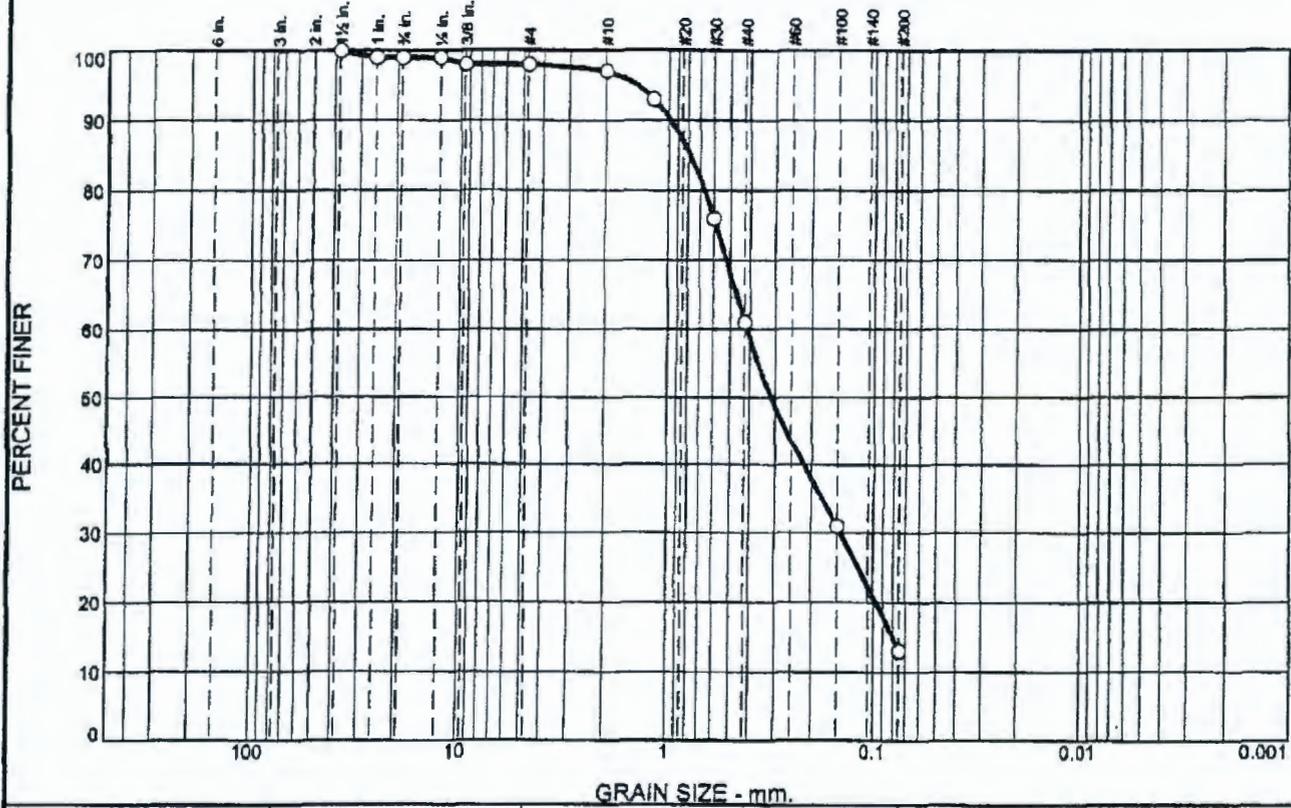
**PROCTOR
LABORATORY SUMMARY**

LABORATORY NUMBER			55159	55204	55334
SAMPLE NUMBER			7	8	9
SAMPLE DATE			5/5/10	5/24/10	6/22/10
SAMPLE TYPE			Bulk	Bulk	Bulk
SAMPLED BY			IMT	IMT	IMT
DATE RECEIVED			5/5/10	5/24/10	6/22/10
SAMPLE LOCATION			On-site Cell 10 Berm	Manhole #21 Tank SG	Manhole #37 - #38 Backfill
	<u>UNITS</u>	<u>Test Methods</u>			
PROCTOR		ASTM D-1557			
Maximum Density	pcf		110.0	119.0	120.5
Optimum Moisture	%		14.0	12.0	11.5
Sample Moisture	%	ASTM D-2216	7.6	9.4	7.9
SIEVE ANALYSIS		ASTM D-422			
	3"				
	2 1/2"				
	2"				
S	1 1/2"	%	100		100
I	1"		100-		99
E	3/4"	P	100-	100	99-
V	1/2"	A	100-	99	99-
E	3/8"	S	100-	98	98
	#4	S	100-	97	98-
S	#10	I	98	95	97
I	#16	N	93	94	93
Z	#30	G	69	91	76
E	#40		47	71	61
	#100		11	36	31
	#200		6.0	16.9	13.0

Intermountain Materials Testing & Geotechnical

Construction Materials Testing & Inspection

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	1.0	1.0	1.0	36.0	48.0	13.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5"	100.0		
1"	99.0		
3/4"	99.0		
1/2"	99.0		
3/8"	98.0		
#4	98.0		
#10	97.0		
#16	93.0		
#30	76.0		
#40	61.0		
#100	31.0		
#200	13.0		

Material Description

silty sand

Atterberg Limits
 PL= NP LL= NV PI= NP

Coefficients
 D₉₀= 0.9771 D₈₅= 0.7858 D₆₀= 0.4148
 D₅₀= 0.3138 D₃₀= 0.1440 D₁₅= 0.0808
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-2-4(0)

Remarks

Sampled by: IMT

(no specification provided)

Source of Sample: Manhole #37 to #38 Backfill
 Sample Number: 55334

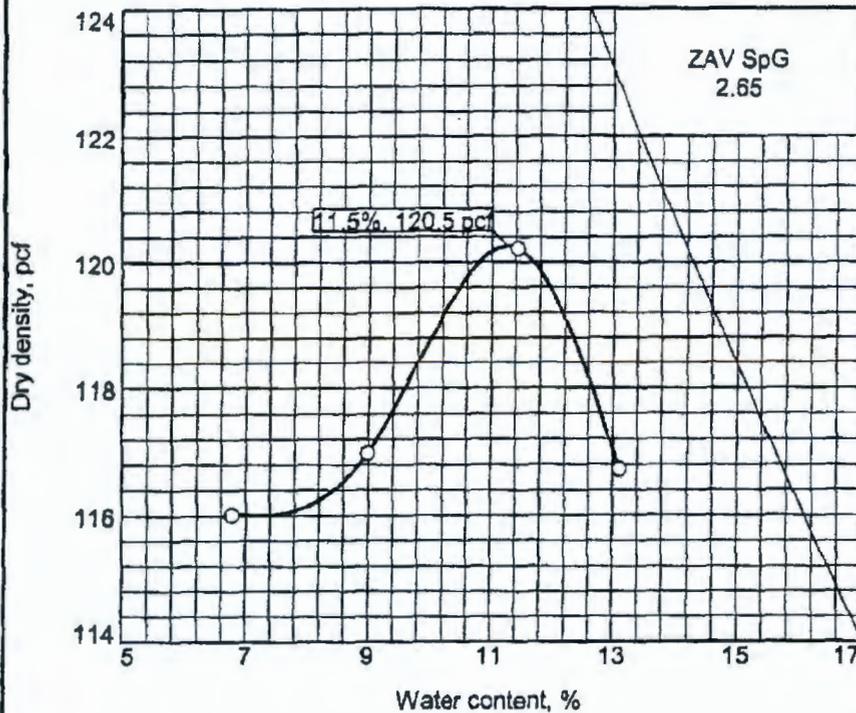
Date: 6/22/10

INTERMOUNTAIN MATERIALS TESTING	Client: DelHur Industries, Inc. Project: ERDF Cells 9 & 10 Construction Project No: M10014 Reviewed By:
--	--

Tested By: PH

Moisture-Density Test Results

Curve No.
6191.0



Test Specification:
ASTM D 1557-07 Method B Modified

Preparation Method Moist
Hammer Wt. 10 lb.
Hammer Drop 18 in.
Number of Layers five
Blows per Layer 25
Mold Size 0.03333 cu. ft.

Test Performed on Material
Passing 3/8 in. **Sieve**

NM 7.9 **LL** NV **PI** NP

Sp.G. (ASTM D 854) _____

%>3/8 in. 2.0 **%<No.200** 13.0

USCS SM **AASHTO** A-2-4(0)

Date Sampled 6/22/10

Date Tested 6/22/10

Tested By MW

TESTING DATA

	1	2	3	4	5	6
WM + WS	6067.8	6122.5	6220.1	6191.0	6186.0	
WM	4196.8	4196.8	4196.8	4196.8	4196.8	
WW + T #1	514.1	504.7	548.8	521.2	519.8	
WD + T #1	481.5	463.1	492.5	460.8	451.9	
TARE #1	0.0	0.0	0.0	0.0	0.0	
WW + T #2						
WD + T #2						
TARE #2						
MOISTURE	6.8	9.0	11.4	13.1	15.0	
DRY DENSITY	116.0	117.0	120.2	116.7	114.5	

TEST RESULTS

Maximum dry density = 120.5 pcf

Optimum moisture = 11.5 %

Project No. MI0014 **Client:** DelHur Industries, Inc.

Project: ERDF Cells 9 & 10 Construction

o **Sample Source:** Manhole #37 to #38 Backfill

Sample No.: 55334

INTERMOUNTAIN MATERIALS TESTING

Material Description

silty sand

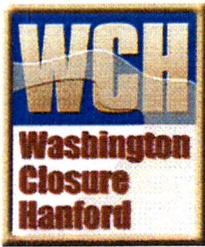
Remarks:

Sampled by: IMT

Checked by: BWB

Title: GSM

Reviewed By:



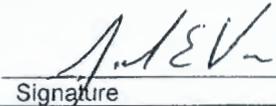
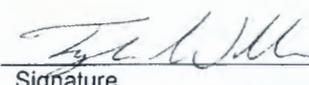
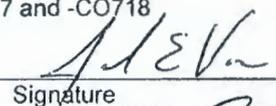
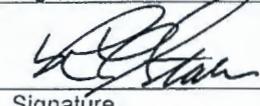
1.3

NON-CONFORMANCE REPORTING

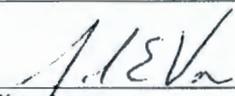
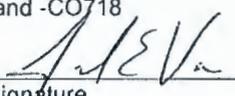
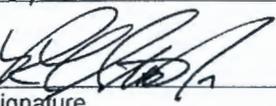
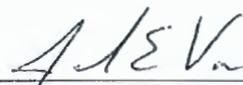
Envirotech Nonconformance Report Form

NCR No. NCR-ERDF 9/10 - 03	Project: Hanford	Date: 1/13/10
Item/Part: CQA geomembrane liner survey as-built	Serial/Lot No. N/A	Supplier: N/A
Nonconforming Condition: CQA surveyors did not accurately survey and record all repair locations on the secondary and primary geomembrane.		
Referenced Inspection/Calibration Reports: As defined by Exhibit D 2.1.9.2 – In the CQA as-built surveys, no repair location information exists for SR-74, or PR-31, 71-77.		
Reported By: Joseph Voss		
Name	 Signature	1/13/10 Date
Validated By/Reported to: Tyler Williams		
Name	 Signature	1-13-11 Date
Disposition: <input type="checkbox"/> Rework <input type="checkbox"/> Repair <input type="checkbox"/> Reject <input type="checkbox"/> Use As-Is		
Affected Documents:		
Name	Signature	Date
Concurrence:		
Name	Signature	Date
Re-work / Repair:		
Rejected Materials Disposition:	Re-inspection Results	
	<input type="checkbox"/> Unsatisfactory	<input type="checkbox"/> Satisfactory
Verification of Disposition:		
Name	Signature	Date

Envirotech Nonconformance Report Form

NCR No. NCR-ERDF 9/10 - 02	Project: Hanford	Date: 11/8/10
Item/Part: CQA geomembrane liner survey as-built	Serial/Lot No. N/A	Supplier: N/A
Nonconforming Condition: CQA surveyors did not accurately survey and record all repair locations on the secondary and primary geomembrane.		
Referenced Inspection/Calibration Reports: As defined by Exhibit D 2.1.9.2 – In the CQA as-built surveys, no repair location information exists for SR-74, or PR-31, 71-77.		
Reported By: Joseph Voss		
Name	 Signature	11/13/11 Date
Validated By/Reported to: Tyler Williams		
Name	 Signature	1-13-11 Date
Disposition: <input checked="" type="checkbox"/> Rework <input type="checkbox"/> Repair <input type="checkbox"/> Reject <input type="checkbox"/> Use As-Is		
The CQA geosynthetic lead, the CQC liner technician, and the leak location survey accurately recorded the location of the repairs through the use of field stationing based on the panel layout, which was surveyed by the CQA surveyors. Note: primary repairs PR-71 to PR-77 could not be surveyed due to coordination with the leak location survey. The sheets will be updated with the repair locations based upon work by the CQC liner technician and CQA geosynthetic lead. Affected Documents: 0600X-DD-CO717 and -CO718		
Joseph Voss		
Name	 Signature	11/13/11 Date
Concurrence: Robert Stallings		
Name	 Signature	1/13/11 Date
Re-work / Repair:		
Rejected Materials Disposition:	Re-inspection Results <input type="checkbox"/> Unsatisfactory <input type="checkbox"/> Satisfactory	
Verification of Disposition:		
Name	Signature	Date

Envirotech Nonconformance Report Form

NCR No. NCR-ERDF 9/10 - 02	Project: Hanford	Date: 11/8/10
Item/Part: CQA geomembrane liner survey as-built	Serial/Lot No. N/A	Supplier: N/A
Nonconforming Condition: CQA surveyors did not accurately survey and record all repair locations on the secondary and primary geomembrane.		
Referenced Inspection/Calibration Reports: As defined by Exhibit D 2.1.9.2 – In the CQA as-built surveys, no repair location information exists for SR-74, or PR-31, 71-77.		
Reported By: Joseph Voss		
Name	 Signature	11/13/11 Date
Validated By/Reported to: Tyler Williams		
Name	 Signature	1-13-11 Date
Disposition: <input checked="" type="checkbox"/> Rework <input type="checkbox"/> Repair <input type="checkbox"/> Reject <input type="checkbox"/> Use As-Is		
The CQA geosynthetic lead, the CQC liner technician, and the leak location survey accurately recorded the location of the repairs though the use of field stationing based on the panel layout, which was surveyed by the CQA surveyors. Note: primary repairs PR-71 to PR-77 could not be surveyed due to coordination with the leak location survey. The sheets will be updated with the repair locations based upon work by the CQC liner technician and CQA geosynthetic lead. Affected Documents: 0600X-DD-CO717 and -CO718		
Joseph Voss		
Name	 Signature	11/13/11 Date
Concurrence: Robert Stallings		
Name	 Signature	11/13/11 Date
Re-work / Repair: CQA engineer and the CQA surveyor located the repairs on the as-built drawings. The locations were then assigned a northing and easting based upon surveyed seam locations and field stationing data.		
Rejected Materials Disposition:	Re-inspection Results <input type="checkbox"/> Unsatisfactory <input checked="" type="checkbox"/> Satisfactory	
Verification of Disposition: Joseph Voss		
Name	 Signature	11/13/11 Date