

0094055

FINAL REPORT

CONSTRUCTION QUALITY ASSURANCE (CQA)

SECTION

20 OF 20

CQA PHOTOGRAPH LOG WEEK 29
(8/23/10 TO 8/27/10)

Cell 10 Secondary Riser Trench and Sump



08/23/2010 06:59 AM

Facing NW – TWS spreading and grading the Type B drainage gravel in the Cell 10 sump with the aid of the TWS surveyor.



08.23.2010 11.47

Facing NW – TWS placing additional drainage gravel into the Cell 10 secondary sump.



08.23.2010 13.21

Facing NW – TWS completed placing and grading the Type B drainage gravel in the Cell 10 secondary sump.



08.23.2010 13.21

Facing SW – TWS moisture conditioning the admix surface prior to recompacting the admix.



08.23.2010 13.39

Facing S – ESI preparing to use the CAT 825 to compact the admix on the Cell 10 secondary sump haul road.



08.24.2010 10.12

Facing SE – After the admix was compacted and clipped to grade, CQA inspected the surface. Due to the large amount of overbuilt admix, CQA determined that rutting did not extended into the admix.

CQA PHOTOGRAPH LOG WEEK 29
(8/23/10 TO 8/27/10)

Cell 10 Secondary Riser Trench and Sump	
 <p>08.23.2010 15:11</p>	 <p>08.23.2010 15:17</p>
<p>Facing NW – TWS preparing the admix surface for secondary geomembrane placement with the double smooth drum roller.</p>	<p>Facing S – TWS preparing the admix surface for secondary geomembrane placement with the double smooth drum roller.</p>
 <p>08.23.2010 15:18</p>	 <p>08.23.2010 15:25</p>
<p>Facing S – The final admix surface prior to placing secondary geomembrane.</p>	<p>Facing NW – ESI placing secondary geomembrane over the Cell 10 secondary sump haul road.</p>
 <p>08.23.2010 16:37</p>	
<p>Facing S – ESI completed deployment of secondary geomembrane over the Cell 10 secondary sump haul road.</p>	

CQA PHOTOGRAPH LOG WEEK 29
(8/23/10 TO 8/27/10)

Drainage Gravel Placement



Facing SW – Extents of rock placement in Cell 9.



Facing N – TWS utilizing a spotter to aid the CAT D6 LGP dozer during placement of gravel near the Cell 9 tie-in.



Facing SE – TWS placing drainage gravel on the south half of Cell 9 with the aid of a laborer.



Facing SE – TWS placing drainage gravel on the south half of Cell 9 with the aid of a laborer.



Facing N – TWS preparing and grading the Cell 9 secondary drainage gravel tie-in by hand.



Facing SE – The extents of gravel placement in Cell 9. TWS completing grading activities in Cell 9.



ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 29 (8/23/10 TO 8/27/10)

Drainage Gravel Placement (Continued)	
	
Facing SE – WCH preparing to use ground penetrating radar to check the admix for ruts under the three (3) primary gravel haul roads.	Facing SW – WCH utilizing ground penetrating radar on the primary gravel haul roads.

CQA PHOTOGRAPH LOG WEEK 29
(8/23/10 TO 8/27/10)

Earthwork	
	
<p>Facing E – TWS excavating for the leachate transmission pipe trench between MH-36 and MH-37.</p>	<p>Facing W – TWS excavating for the leachate transmission pipe trench between MH-36 and MH-37.</p>
	
<p>Facing N – TWS backfilling the Tank #3 foundation ring wall.</p>	<p>Facing W – TWS placing, moisture conditioning, and compacting fill over the leachate transmission pipes between MH-36 and MH-37.</p>
	
<p>Facing W – TWS placing and moisture conditioning backfill over the leachate transmission trench between MH-36 and MH-37</p>	

ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 30
(8/30/10 TO 9/3/10)

Geosynthetic Placement	
 <p>08.30.2010 06.33</p>	 <p>08.30.2010 06.33</p>
Facing SE – Extent of geocomposite placement in Cell 10.	Facing S – Extent of geocomposite placement in Cell 9.
 <p>08.30.2010 09.12</p>	 <p>08.30.2010 14.26</p>
Facing NW – ESI deploying secondary geocomposite on the north slope of Cell 9.	Facing N – ESI removing blow sand from the Cell 9 secondary riser trench.
 <p>08.30.2010 15.20</p>	 <p>08.30.2010 15.35</p>
Facing SW – ESI conducting pressure testing on the primary geomembrane in Cell 9.	Facing NW – ESI deploying secondary geocomposite in the Cell 9 riser trench.

**CQA PHOTOGRAPH LOG WEEK 30
(8/30/10 TO 9/3/10)**

Geosynthetic Placement (Continued)



Facing S – ESI deploying secondary geocomposite on the north slope of Cell 10.



Facing SW – ESI joining the geocomposite in Cell 9 together with zip ties.



Facing NE – ESI deploying secondary geocomposite on the north slope and floor west of the Cell 10 sump.



Facing N – ESI deploying secondary geocomposite on the north slope of Cell 10.



Facing SE – ESI zip tying secondary geocomposite in Cell 10, while a second crew completes repairs on the secondary geomembrane.



Facing S – ESI deploying secondary geocomposite on the north slope and floor of Cell 10, east of the Cell 10 sump.

ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 30
(8/30/10 TO 9/3/10)

Geosynthetic Placement (Continued)	
<p>Facing N – ESI deploying primary geomembrane east of the sump in Cell 9.</p>	<p>Facing S – ESI placing secondary panel S-118 on the south half of Cell 10 to repair a failed seam S4/S5.</p>
<p>Facing SE – Extents of geocomposite deployment in Cell 10.</p>	<p>Facing S – Extents of secondary geomembrane and secondary geocomposite deployment in Cell 9.</p>

CQA PHOTOGRAPH LOG WEEK 30
(8/30/10 TO 9/3/10)

Cell 9 Sump Repair	
 <p>08 31 2010 14:20</p>	 <p>09 01 2010 10:23</p>
<p>Facing S – Rain showers created small pools of water on the secondary geomembrane in Cell 10.</p>	<p>Facing SW – The storm water pooled in the Cells 9 and 10 sumps (TWS shown removing water from the Cell 10 sump).</p>
 <p>09 02 2010 11:56</p>	 <p>09 02 2010 12:53</p>
<p>Facing E – After ESI had remove the water from the Cell 9 sump, water was discovered under the Cell 9 secondary geomembrane.</p>	<p>Facing W – ESI, CQA, and TWS investigation of the trapped water in the Cell 9 sump.</p>
 <p>09 02 2010 15:06</p>	 <p>09.03.2010 07:15</p>
<p>Facing SW – ESI and TWS removing the drainage gravel in the Cell 9 sump to investigate the storm water infiltration.</p>	<p>Facing NW – ESI, TWS, and CQA continuing the investigation the following day.</p>

CQA PHOTOGRAPH LOG WEEK 30
(8/30/10 TO 9/3/10)

Cell 9 Sump Repair (Continued)	
 <p>09 03 2010 07:23</p>	 <p>09 03 2010 07:46</p>
<p>Facing SW – ESI, TWS, and CQA tracing the source of the stormwater to the northwest corner of the sump.</p>	<p>Facing SW – The source of the stormwater infiltration.</p>
 <p>09 03 2010 08:13</p>	 <p>09 03 2010 08:28</p>
<p>Facing SW – ESI cutting a release hole in the secondary geomembrane in the Cell 9 sump.</p>	<p>Facing W – TWS and ESI "walking" the stormwater out from below the secondary geomembrane.</p>
 <p>09 03 2010 08:47</p>	 <p>09 03 2010 12:47</p>
<p>Facing NE – TWS left the admix to dry under the secondary geomembrane.</p>	<p>Facing Down – Patch over original investigation hole in the northwest corner of the Cell 9 sump.</p>

**CQA PHOTOGRAPH LOG WEEK 30
(8/30/10 TO 9/3/10)**

Cell 9 Sump Repair (Continued)



Facing S – After CQA investigated and verified that the admix surface met stability requirements, ESI patched the release hole.



Facing NW – ESI joining the geocomposite over the repair area.



Facing NE – ESI replacing the secondary geotextile in the Cell 9 sump.



Facing SW – TWS replacing and grading the drainage gravel in the Cell 9 sump with a CAT 303 excavator.



ERDF CONSTRUCTION CELLS 9-10

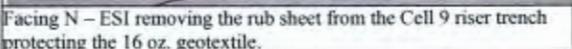
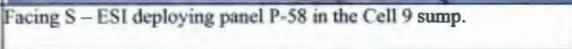
CQA PHOTOGRAPH LOG WEEK 30 (8/30/10 TO 9/3/10)

Earthwork	
	
Facing W – TWS backfilling the leachate transmission trench between MH-36 and MH-37.	Facing W – TWS compacting the leachate transmission trench backfill between MH-36 and MH-37 with a smooth drum roller.
	
Facing NW – TWS backfilling and compacting the base course on the operations haul ramp that was removed for the placement of the leachate transmission trench between MH-36 and MH-37	Facing NE – ESI grading and compacting the base course rock on the operations haul road.

CQA PHOTOGRAPH LOG WEEK 30
(8/30/10 TO 9/3/10)

Tank #1 Demolition	
	
<p>Facing NW – BMWC and TWS removing the transfer pipe between Tank #1 and Tank #2.</p>	<p>Facing NW – TWS cutting the liner from the tank wall.</p>
	
<p>Facing NW – TWS removing the metal tank wall with an excavator.</p>	<p>Facing NW – TWS removing the anchor bolts from the metal tank walls.</p>
	
<p>Facing N – TWS removed the tanks walls and folded the geomembrane for disposal in roll-off containers.</p>	

CQA PHOTOGRAPH LOG WEEK 31
(9/7/10 TO 9/10/10)

Geosynthetic Placement	
 <p>08.07.2010 08:47</p>	 <p>08.08.2010 07:02</p>
<p>Facing NW – ESI placing geocomposite in Cell 10.</p>  <p>09.08.2010 08:11</p>	<p>Facing SW – ESI placing geocomposite in Cell 10.</p>  <p>08.08.2010 18:14</p>
<p>Facing NE – ESI joining the composite rolls together with zip ties.</p>  <p>09.08.2010 14:14</p>	<p>Facing SW – ESI deploying secondary geomembrane panel P-57 to the east of the Cell 9 sump.</p>  <p>09.08.2010 15:18</p>
<p>Facing N – ESI removing the rub sheet from the Cell 9 riser trench protecting the 16 oz. geotextile.</p> 	<p>Facing S – ESI deploying panel P-58 in the Cell 9 sump.</p> 

CQA PHOTOGRAPH LOG WEEK 31
(9/7/10 TO 9/10/10)

Geosynthetic Placement (Continued)	
 <p>09.09.2010 08:13</p>	 <p>09.09.2010 09:14</p>
 <p>09.09.2010 08:33</p>	 <p>09.09.2010 09:58</p>
 <p>09.09.2010 14:38</p>	 <p>09/09/2010 12:18 PM</p>
<p>Facing NW – ESI joining the secondary geocomposite on the Cell 10 floor.</p>	<p>Facing NE – ESI deploying secondary geocomposite on the north slope of Cell 10, east of the Cell 9 riser trench.</p>
<p>Facing W – ESI sewing approved geocomposite seams on the floor of Cell 10.</p>	<p>Facing N – ESI deploying secondary geocomposite on the north slope of Cell 10.</p>
<p>Facing NE – ESI zip tying secondary geocomposite in on the north slope of Cell 10.</p>	<p>Facing NW – ESI deploying panel P-59 to the east of the panel P-56 on the north berm and slope of Cell 9.</p>

ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 31
(9/7/10 TO 9/10/10)

Geosynthetic Placement (Continued)	
 <p>09/09/2010 04:23 PM</p>	 <p>09/10/2010 09:01 AM</p>
<p>Facing N – ESI welding primary geomembrane panels P-11/P-12 on the north slope and floor of Cell 10.</p>	<p>Facing SW – ESI placing secondary panel P-17 on the north slope and floor of Cell 10.</p>
 <p>09/10/2010 07:42</p>	 <p>09/10/2010 03:34 PM</p>
<p>Facing SE – ESI performing repairs on the secondary geomembrane in Cell 10 south of the sump.</p>	<p>Facing S – ESI deploying primary geomembrane panels P-65 and P-66 over the Cell 9 riser trench and sump.</p>
 <p>09/10/2010 06:37 PM</p>	 <p>09/10/2010 10:43</p>
<p>Facing NW – ESI welding the primary geomembrane panels P-62 to P-67 over the riser trench, sump, and floor of Cell 9.</p>	<p>Facing E – ESI spark testing the lysimeter pipe boot in the anchor trench of Cell 10.</p>

CQA PHOTOGRAPH LOG WEEK 31
(9/7/10 TO 9/10/10)

Cell 9 Sump Repair



Facing W – TWS surveyor setting the grade for the secondary drainage gravel in Cell 9.



Facing SW – ESI removing the CAT 303 excavator from the Cell 9 sump after spreading the drainage gravel as per design drawings.



Facing N – CQA surveyor verifying that the drainage gravel matches the design drawings.



Facing NE – TWS removing storm water from the Cell 10 sump.



Facing N – TWS removing storm water from the Cell 9 sump prior to geomembrane deployment.



Facing NW – ESI deploying 16 oz geotextile in the Cell 9 sump.



ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 31 (9/7/10 TO 9/10/10)

Tank #1 Demolition	
 <p>09.08.2010 15:12</p>	 <p>09.08.2010 15:12</p>
Facing NW – TWS loading the last roll off container with tank liner material.	Facing NW – TWS removing last of the tank materials.

CQA PHOTOGRAPH LOG WEEK 32
(9/13/10 TO 9/17/10)

Geosynthetic Placement	
 <p>09/13/2010 07:49 AM</p>	 <p>09.13.2010 07:39</p>
<p>Facing SE – ESI performing an air pressure test on the Cell 9 primary geomembrane, while a second technician patches the hole in the liner.</p>	<p>Facing NE – ESI vacuum testing repairs on the secondary geomembrane in Cell 10 south of the sump.</p>
 <p>09.13.2010 15:09</p>	 <p>09.13.2010 03:05</p>
<p>Facing SE – ESI deploying secondary geocomposite over the secondary geomembrane in Cell 10.</p>	<p>Facing SW – ESI joining the secondary geocomposite in Cell 10 together with zip ties.</p>
 <p>09.13.2010 12:25</p>	 <p>09/14/2010 07:00 AM</p>
<p>Facing S – ESI placing the blow sand in the riser trench into sand bags to be used during geosynthetic placement.</p>	<p>Facing N – EIS deploying primary geomembrane on the north slope of Cell 10.</p>

CQA PHOTOGRAPH LOG WEEK 32
(9/13/10 TO 9/17/10)

Geosynthetic Placement (Continued)	
 <p>09/14/2010 08:41 AM</p>	 <p>09/14/2010 02:04 PM</p>
<p>Facing N – ESI deploying primary geomembrane in the Cell 10 sump and riser trench.</p>	<p>Facing N – ESI deploying primary geomembrane on the east side of the Cell 10 sump.</p>
 <p>09/15/2010 07:01 AM</p>	 <p>09.15.2010 09:11</p>
<p>Facing NE – ESI deploy primary geomembrane on the north slope of Cell 10.</p>	<p>Facing NW – ESI continuing to deploy primary geomembrane on the north slope of Cell 10.</p>
 <p>09.15.2010 11:50</p>	 <p>09.15.2010 12:37</p>
<p>Facing N – ESI cutting the primary geomembrane on the floor of the Cell 10 termination.</p>	<p>Facing NW – ESI pulling the trimmed remnant of primary geomembrane into place to construct the Cell 10 primary termination.</p>

CQA PHOTOGRAPH LOG WEEK 32
(9/13/10 TO 9/17/10)

Geosynthetic Placement (Continued)	
 <p>09.15.2010 16:38</p>	 <p>09/16/2010 07:47 AM</p>
<p>Facing E – ESI deploying secondary geocomposite south of Cell 10.</p>	<p>Facing E – ESI joining the secondary geocomposite in Cell 10 together with zip ties.</p>
 <p>09.16.2010 07:35</p>	 <p>09/16/2010 09:16 AM</p>
<p>Facing S – ESI vacuum testing the Cell 9 primary geomembrane tie-in.</p>	<p>Facing N – TWS pumping storm water from the Cell 9 sump.</p>
 <p>09/16/2010 01:09 PM</p>	 <p>09.16.2010 14:45</p>
<p>Facing N – ESI determining the extents of the failed Cell 10 primary seam P-11/P-12 (DP-03).</p>	<p>Facing SE – Extent of geosynthetic deployment on September 16, 2010.</p>

ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 32
(9/13/10 TO 9/17/10)

Geosynthetic Placement (Continued)	
	
Facing S – ESI welding the Cell 10 primary geomembrane east to west, south of the Cell 10 sump.	Facing W – ESI deploying 16 oz. primary geotextile over the primary geomembrane in Cell 9.
	
Facing SE – Extent of geosynthetic deployment in Cell 10.	Facing S – Extent of geosynthetic deployment in Cell 9.
	
Facing SE – Extent of geosynthetic deployment in Cell 10.	Facing S – Extent of geosynthetic deployment in Cell 9.

CQA PHOTOGRAPH LOG WEEK 32
(9/13/10 TO 9/17/10)

Tank #4	
 <p>09.14.2010 14:45</p>	 <p>09.14.2010 14:46</p>
<p>Facing NW – TWS compacting the southwest half of the Tank 4 foundation.</p>	<p>Facing NW – BMWC welding the 16x10-in double containment inlet line for Tank 4.</p>
 <p>09.15.2010 09:04</p>	 <p>09.16.2010 15:12</p>
<p>Facing SW – TWS and BMWC installing the 4x8-in drain line for Tank 4.</p>	<p>Facing SW – BMWC pressure testing the inner pipe of the 10x16-in inlet pipe for Tank 4.</p>
 <p>09.16.2010 14:08</p>	 <p>09.17.2010 09:51</p>
<p>Facing NE –TWS backfilling the 4x8-in drain line for Tank 4.</p>	<p>Facing NE – TWS compacting the Tank 4 inlet pipe backfill with both a jumping jack hand compactor and a hoe-pack.</p>

CQA PHOTOGRAPH LOG WEEK 33
(9/20/10 TO 9/24/10)

Stormwater	
 <p>09.20.2010 06:48</p>	 <p>09/20/2010 09:10 AM</p>
<p>Facing SW – TWS removing the storm water from the sumps that accumulated over the weekend.</p>	<p>Facing SW – Stormwater accumulation in the Cell 9 sump over the weekend.</p>
 <p>09/20/2010 10:30 AM</p>	 <p>09.21.2010 07:33</p>
<p>Facing NW – ESI removing stormwater from the subgrade haul road that splits Cell 10.</p>	<p>Facing SW – ESI pumping stormwater from the Cell 9 sump</p>
 <p>09.23.2010 12.41</p>	
<p>Facing SE – The TWS stormwater overflow pond/area on the east side of the Cell 10 termination.</p>	

CQA PHOTOGRAPH LOG WEEK 33
(9/20/10 TO 9/24/10)

Geosynthetic Placement	
	
<p>Facing N – ESI deploying primary geocomposite on the north slope of Cell 9.</p>	<p>Facing NW – ESI deploying primary geocomposite on the north slope of Cell 9.</p>
	
<p>Facing S – ESI performing repairs on the primary geomembrane on the Cell 10 floor.</p>	<p>Facing S – ESI deploying primary geotextile on the floor of Cell 10.</p>
	
<p>Facing NW – ESI installing the pipe boot and sock on the Cell 9 lysimeter pipe.</p>	<p>Facing N – ESI deploying primary geocomposite on the north slope of Cell 10.</p>

CQA PHOTOGRAPH LOG WEEK 33
(9/20/10 TO 9/24/10)

Geosynthetic Placement (Continued)	
 <p>09/21/2010 03:33 PM</p>	 <p>09/22/2010 12:36 PM</p>
 <p>09/22/2010 02:07 PM</p>	 <p>09/22/2010 12:01</p>
 <p>09.22.2010 13.28</p>	 <p>09/23/2010 09:28 AM</p>
<p>09.22.2010 13.28</p>	<p>09/23/2010 09:28 AM</p>

CQA PHOTOGRAPH LOG WEEK 33
(9/20/10 TO 9/24/10)

Geosynthetic Placement (Continued)



Facing N – Extrusion welding the primary termination of Cell 10 as per the design drawings.



Facing N – ESI performing vacuum testing on the extrusion welded primary termination on the north side of Cell 10.



Facing N – ESI cutting the primary geomembrane and exposing the secondary geomembrane on the Cell 10 north slope termination.



Facing NE – ESI leistering down the primary geomembrane to the secondary geomembrane on the Cell 10 north slope termination.



Facing NW – ESI deploying primary geocomposite on the north slope of Cell 10.



Facing NE – ESI deploying primary geocomposite on the north slope of Cell 10.

CQA PHOTOGRAPH LOG WEEK 33
(9/20/10 TO 9/24/10)

Drainage Gravel Placement



Facing W – TWS spreading the stockpiled drainage gravel in Cell 9 onto the north quarter of the Cell 9 floor.



Facing W – TWS constructing a 7-ft high haul road to the Cell 9 sump.



Facing SW – TWS constructing a 7-ft high haul road to the Cell 9 sump.



Facing S – TWS spreading the gravel from the Cell 9 sump haul road across the north half of the Cell 9 floor with a CAT D6 LGP dozer.



Facing SE – TWS removing excess drainage gravel that was spread too close to the Cell 9 sump.



Facing E – The gravel was pulled back from the Cell 9 sump to allow the 100 mil geomembrane rub sheet to be installed.

CQA PHOTOGRAPH LOG WEEK 33
(9/20/10 TO 9/24/10)

Drainage Gravel Placement (Continued)	
 <p>09 22 2010 13 27</p>	 <p>09 23 2010 12 36</p>
<p>Facing S – TWS constructing the northeast gravel haul road across Cell 10.</p>	<p>Facing SW – TWS constructing the Cell 10 north gravel haul road to the toe of the Cell 10 slope.</p>
 <p>09.23.2010 12:16</p>	 <p>09.23.2010 14:22</p>
<p>Facing S – TWS spreading gravel on the Cell 10 north haul road with a CAT 312 excavator to minimize wrinkles to the liner.</p>	<p>Facing S – TWS spreading gravel on the Cell 10 northeast haul road with a CAT 312 excavator to minimize wrinkles to the liner.</p>
 <p>09 23 2010 12 36</p>	 <p>09 23 2010 17 20</p>
<p>Facing SE – TWS constructing the 7-ft high northeast drainage gravel haul road across Cell 10.</p>	<p>Facing S – TWS trimming the gravel to grade in Cell 9 with a CAT GPS D6 LGP dozer.</p>



ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 33 (9/20/10 TO 9/24/10)

Drainage Gravel Placement (Continued)	
 <p style="text-align: right; color: yellow;">09/24/2010 07:07 AM</p>	 <p style="text-align: right; color: yellow;">09/24/2010 07:11 AM</p>
Facing N – WCH ground penetrating radar (GPR) preparing to survey the gravel haul roads in Cell 9.	Facing N – WCH surveying the gravel haul roads with GPR to determine if rock placement caused damage to the admix surface.
 <p style="text-align: right; color: yellow;">09/24/2010 09:46 AM</p>	 <p style="text-align: right; color: yellow;">09/24/2010 12:06 PM</p>
Facing SE – TWS spreading gravel from the Cell 10 north east haul road across the north half of the Cell 10 floor.	Facing S – TWS removing a portion of the drainage gravel ramp into Cell 9.
 <p style="text-align: right; color: orange;">09.24.2010 16:26</p>	 <p style="text-align: right; color: orange;">09.24.2010 16:26</p>
Facing SE – TWS trimming gravel to grade in Cell 10.	Facing SW – TWS trimming gravel to grade in Cell 10.

CQA PHOTOGRAPH LOG WEEK 33
(9/20/10 TO 9/24/10)

Drainage Gravel Repairs	
<p>Facing SW – The Hitachi excavator accidentally tipped during gravel placement, damaging the underlying liner.</p>	<p>Facing SE – Although the bucket rested on drainage gravel, the force from the bucket damaged the underlying liner.</p>
<p>Facing SE – TWS excavated and area to investigate the damage.</p>	<p>Facing NW – ESI repaired the damage to the underlying primary geomembrane.</p>
<p>Facing NW – ESI performing vacuum testing on the repaired primary geomembrane liner.</p>	

CQA PHOTOGRAPH LOG WEEK 33
(9/20/10 TO 9/24/10)

Drainage Gravel Repairs	
<p>Facing E – The dozer clipped the geocomposite while placing drainage gravel on the toe of the Cell 9 slope, west of the sump.</p>	<p>Facing NW – CQA investigation found no damage to the underlying primary geomembrane.</p>
<p>Facing NE – ESI repair the damaged geocompoiste</p>	

CQA PHOTOGRAPH LOG WEEK 33
(9/20/10 TO 9/24/10)

Tank 4	
<p>09.20.2010 14:21</p>	<p>09.20.2010 14:08</p>
<p>Facing SE – The TWS surveyor staking out the ringwall on the Tank 4 foundation.</p>	<p>Facing W – TWS excavating the ringwall trench in the Tank 4 foundation.</p>
<p>09.21.2010 07:39</p>	
<p>Facing SE – The Tank 4 ringwall trench.</p>	



ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 34 (9/27/10 TO 10/2/10)

Subgrade	
	
<p>Facing E - ESI uncovering the admix tie-in, while TWS stockpiles the unacceptable subgrade material in Cell 10.</p>	<p>Facing SE - TWS stockpiling and removing the unacceptable subgrade material from Cell 10.</p>
	
<p>Facing E - TWS preparing to place admix on the Cell 10 subgrade. The admix tie-in was moisture conditioned and abraded prior to admix placement.</p>	

CQA PHOTOGRAPH LOG WEEK 34
(9/27/10 TO 10/2/10)

Admix Placement	
 <p>09-28-2010 12:57</p>	 <p>09-29-2010 07:12</p>
 <p>09-29-2010 07:45</p>	 <p>09-29-2010 05:38</p>
 <p>09/30/2010 02:12 PM</p>	 <p>10-01-2010 08:55</p>
<p>Facing N – TWS moisture conditioning the exposed dry admix in Cell 10.</p>	<p>Facing E – TWS moisture conditioning and reworking the admix surface prior to admix placement.</p>
<p>Facing NW – TWS placing admix on the Cell 10 subgrade.</p>	<p>Facing E – TWS placing, spreading, and compacting admix in Cell 10.</p>
<p>Facing NE – TWS placing and compacting admix in Cell 10, while two (2) smooth drum rollers finished the 6th lift of admix.</p>	<p>Facing NE – TWS completing the final proof rolling of the last of the admix in Cell 10.</p>

ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 34
(9/27/10 TO 10/2/10)

Geosynthetic Placement	
	
<p>Facing N – ESI placing and joining the primary geocomposite on the north slope of Cell 10.</p>	<p>Facing S – ESI performing vacuum testing on the rain flap detail in Cell 10.</p>
	
<p>Facing N – ESI performing the primary to secondary weld for the rain flap on the north slope of Cell 10.</p>	<p>Facing N – ESI completes placement of primary geocomposite west of the Cell 10 rain flap.</p>
	
<p>Facing SW – ESI deploying 8 oz. geotextile in Cells 9 and 10.</p>	<p>Facing N – ESI sewing the deployed 8 oz. geotextile in Cell 9.</p>

ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 34
(9/27/10 TO 10/2/10)

Geosynthetic Placement (Continued)	
	
<p>Facing NW – ESI conducting vacuum testing on the secondary geomembrane on the south slope of Cell 10.</p>	<p>Facing E – ESI deploying secondary geocomposite on the south slope of Cell 10 at the Cell 9/10 tie-in.</p>
	
<p>Facing E – ESI welding the pipe boot and sock for the secondary leachate riser pipes in Cell 10.</p>	<p>Facing SE – ESI joining the butt seams of the primary geocomposite in Cell 9 with plastic zip ties.</p>
	
<p>Facing NE – ESI deploying 8 oz. geotextile on the floor of Cell 10.</p>	<p>Facing N – ESI welding the primary to secondary geomembrane weld to the east side of the Cell 10 rain flap.</p>

CQA PHOTOGRAPH LOG WEEK 34
(9/27/10 TO 10/2/10)

Geosynthetic Placement (Continued)	
 <p>09/30/2010 07:34 AM</p>	 <p>09/30/2010 08:44 AM</p>
<p>Facing S - ESI sewing the 8 oz. geotextile on the floor of Cell 9.</p>	<p>Facing SE - ESI deploying geotextile on the floor of Cell 9, while a crew joins the butt seams of the geocomposite together with zip ties.</p>
 <p>10/01/2010 12:05 PM</p>	 <p>10/01/2010 09:55</p>
<p>Facing W - ESI deploying secondary geomembrane in Cell 10.</p>	<p>Facing S - ESI deploying geomembrane in the center of Cell 10.</p>
 <p>10/01/2010 01:37 PM</p>	 <p>10/02/2010 12:37</p>
<p>Facing W - ESI completing geomembrane deployment in the center of Cell 10.</p>	<p>Facing SW - ESI deploying and sewing the 8 oz. geotextile on the floor of Cell 9.</p>



ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 34 (9/27/10 TO 10/2/10)

Drainage Gravel	
	
Facing NE – WCH utilizing ground penetrating radar to survey the admix under the north east gravel haul road.	Facing SW – TWS grading the drainage gravel on the south half of the Cell 10 floor.

CQA PHOTOGRAPH LOG WEEK 34
(9/27/10 TO 10/2/10)

Leachate Collection Pipe	
<p>Facing S – ESI bringing the leachate collection pipe into Cell 10.</p>	<p>Facing NW – TWS utilizing hand shovels to remove the drainage gravel to place the primary leachate collection pipe.</p>
<p>Facing S – ESI removing the drainage gravel from the south half of the Cell 10 floor for the placement of the leachate collection pipe.</p>	<p>Facing N – CQA surveyors performing the as-built survey of the Cell 10 leachate collection pipe.</p>
<p>Facing S – ESI excavating the primary drainage gravel for the Cell 9 leachate collection pipe.</p>	<p>Facing SE – ESI placing primary geocomposite down the south embankment in preparation for the Cell 9 leachate clean out pipe.</p>

ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 34
(9/27/10 TO 10/2/10)

Leachate Collection Pipe (Continued)	
<p>Facing S – TWS bringing the leachate collection pipe down the south slope of Cell 9.</p>	<p>Facing NE – TWS walking the Cell 10 leachate collection pipe across the Cell 9 floor.</p>
<p>Facing S – TWS constructing the 1-ft high berm over the leachate collection pipe in Cell 9. The clean out riser pipe rests on the south berm of Cell 9.</p>	<p>Facing N – The completed leachate collection pipe berm bisecting Cell 9.</p>

CQA PHOTOGRAPH LOG WEEK 34
(9/27/10 TO 10/2/10)

Operations Placement	
<p>Facing SE – TWS building up the operations soil ramp, while a dozer grades the primary gravel in Cell 10.</p>	<p>Facing S – TWS constructing the operations soil ramp into Cell 10.</p>
<p>Facing SE – TWS utilizing hand equipment to place operations soil over the Cell 10 tie-in to anchor the leading edge of the geotextile.</p>	<p>Facing SE – TWS placing operations soil into Cell 10.</p>
<p>Facing S – TWS constructing a 9-ft high operations soil haul road east to west across Cell 10.</p>	<p>Facing NE – TWS continuing to place a 9ft high operations soil haul road across Cell 10.</p>

ERDF CONSTRUCTION CELLS 9-10

**CQA PHOTOGRAPH LOG WEEK 34
(9/27/10 TO 10/2/10)**

Operations Placement (Continued)



Facing SE – TWS placing a 9ft high operations soil haul road across Cell 10.



Facing SE – TWS spread operation soil 3-ft high across the geotextile in Cells 9 and 10 to anchor the geotextile.



Facing SW – TWS placing a 9ft high operations soil haul road into Cell 9.



Facing W – TWS placing and compacting backfill soil into the Cell 9 anchor trench.



Facing NW – TWS placing operations soil onto the Cell 9 slope with a CAT 312 excavator.



Facing NW – TWS placing operations soil onto the Cell 9 slope with a CAT 312 excavator.

**CQA PHOTOGRAPH LOG WEEK 34
(9/27/10 TO 10/2/10)**

Leachate Transmission System



Facing E – TWS lifting the MH-33 lid into place.



Facing E – TWS placing the lid onto MH-33.



Facing – TWS and BMWC placing the lid over the rubber gasket and onto MH-33.



Facing W – TWS construction concrete forms around Tank #4.



Facing N – BMWC placing the center connections for Tank 3, while installing the drain line manhole.



Facing NW – TWS placing concrete for the Tank 4 wingwall.

CQA PHOTOGRAPH LOG WEEK 35
(10/4/10 TO 10/9/10)

Geosynthetic Placement	
 <p>10.04.2010 11:44</p>	 <p>10.04.2010 14:21</p>
<p>Facing S – ESI deploying secondary geocomposite deployment on the south slope of Cell 10.</p>	<p>Facing S – ESI placing the 100-mil rub sheet in the Cell 9 sump.</p>
 <p>10.04.2010 14:23</p>	 <p>10.05.2010 09:58</p>
<p>Facing SW – ESI placing the 100-mil rub sheet in the Cell 9 sump.</p>	<p>Facing SE – ESI placing the primary geotextile in the Cell 9 sump.</p>
 <p>10.05.2010 10:57</p>	 <p>10.08.2010 14:58</p>
<p>Facing SE – ESI and TWS placing the HDPE flat stock in the Cell 9 sump.</p>	<p>Facing W – ESI deploying secondary geocomposite on the north side of the Cell 10 floor.</p>

CQA PHOTOGRAPH LOG WEEK 35
(10/4/10 TO 10/9/10)

Geosynthetic Placement (Continued)



Facing NW – ESI deploying secondary geocomposite on the north side of the Cell 10 floor.



Facing NW – Deployment of geocomposite in Cell 10.



Facing SW – ESI is continuing with the secondary geocomposite deployment on the south slope.



Facing S – ESI completing deployment of secondary geocomposite on the floor of Cell 10.



Facing N – ESI finishing the primary geocomposite near the rain flap on the north embankment of Cell 10.



Facing S – ESI is placing 8-oz. geotextile over the primary drain rock directly south of the Cell 9 sump.



ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 35 (10/4/10 TO 10/9/10)

Geosynthetic Placement (Continued)	
	
Facing N – ESI completing repairs to the primary geomembrane in the Cell 10 sump prior to installing the 100-mil rub sheet.	Facing N – ESI placing primary composite on the north slope of the Cell 10 near the sump. Also, ESI is welding the 100-mil rub sheet together in the Cell 10 sump.
	
Facing NE – the Cell 10 sump is complete with the 100-mil rub sheet and 16-oz fabric in place.	



ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 35 (10/4/10 TO 10/9/10)

Drainage Gravel	
 <p>10_05_2010 09:26</p>	 <p>10_05_2010 11:02</p>
Facing W – TWS is beginning the placement of the Type C drainage gravel in the Cell 9 sump.	Facing SW – TWS placing Type C drainage gravel in the cell 9 sump.

CQA PHOTOGRAPH LOG WEEK 35
(10/4/10 TO 10/9/10)

Leachate Collection Pipe	
 <p>10/07/2010 12:18 PM</p>	 <p>10/07/2010 12:43 PM</p>
<p>Facing S – TWS placing the primary 12-in riser pipe through the Cell 9 crest pad building and riser trench.</p>	<p>Facing S – TWS walking the primary 12-in riser pipe down the Cell 9 riser.</p>
 <p>10.07.2010 14:11</p>	 <p>10.07.2010 15:22</p>
<p>Facing W – BMWC utilizing a fusion coupler to join the leachate collection pipe to the riser pipe in Cell 9.</p>	<p>Facing S – TWS placing the primary 18-in riser pipe onto the HDPE flat stock in the Cell 9 sump.</p>
 <p>10.07.2010 15:02</p>	 <p>10.08.2010 07:23</p>
<p>Facing N – All the primary and secondary riser pipes penetrating through the Cell 9 crest pad stem wall.</p>	<p>Facing N – TWS placing drainage gravel over the leachate collection pipe in Cell 9.</p>

CQA PHOTOGRAPH LOG WEEK 35
(10/4/10 TO 10/9/10)

Operations Placement	
	
Facing S – TWS placing the north operations haul road into Cell 9.	Facing S – TWS turning the north operations haul road north to the toe of the north slope of Cell 9.
	
Facing S – TWS placing operations up the north slope of Cell 9.	Facing S – TWS beginning to place operations at the top of the north slope of Cell 9. (Placement was subsequently halted by WCH)
	
Facing S – TWS turning the north operations road toward the south berm in Cell 9, while a dozer spreads soil up the north berm.	Facing NW – TWS placing operations fill on the north berm of Cell 9, while two (2) excavators backfill the north anchor trench.



ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 35 (10/4/10 TO 10/9/10)

Operations Placement



Facing NW – TWS placing operations fill on the north berm of Cell 9.



Facing S – TWS placing operations fill on the north berm of Cell 9.



Facing S – TWS spreading operations soil in a 3-ft high lift across the floor of Cell 9.

CQA PHOTOGRAPH LOG WEEK 35
(10/4/10 TO 10/9/10)

Leachate Transmission System



Facing NW – TWS installing a riser ring on MH-35.



Facing NE – TWS backfilling around MH-35.



Facing NE – TWS backfilling and grading around MH-35.



Facing W – TWS compacting backfill around MH-35.



Facing S – TWS stripping concrete forms from around the Tank #4 ringwall.



Facing NW – TWS stripping concrete forms from around the Tank #4 ringwall.

CQA PHOTOGRAPH LOG WEEK 35
(10/4/10 TO 10/9/10)

Leachate Transmission System (Continued)



Facing NW – TWS installing a riser ring on MH-35.



Facing NE – TWS backfilling around MH-35.



Facing NE – TWS backfilling and grading around MH-35.



Facing W – TWS compacting backfill around MH-35.

ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 35
(10/4/10 TO 10/9/10)

Anchor Trench



Facing E – TWS placing fill in the north anchor trench of Cell 10.



Facing E – TWS backfilling the Cell 9 anchor trench with an excavator, while a second excavator compacts the fill in Cell 10.



Facing NE – TWS compacting the backfilling the Cell 9 anchor trench.

CQA PHOTOGRAPH LOG WEEK 36
(10/11/10 TO 10/16/10)

Geosynthetic Placement



Facing W – ESI installing primary liner on the floor of Cell 10.



Facing W - ESI double wedge welding primary liner on the floor of Cell 10.



Facing N - ESI double wedge welding primary liner on the south slope of Cell 10.



Facing S – ESI moving the rub sheet used to deploy primary liner over the secondary geocomposite.



Facing E - ESI double wedge welding primary liner in Cell 10.



Facing Down – ESI performing non-destructive seam pressure test using a small air compressor and pressure gauges.

CQA PHOTOGRAPH LOG WEEK 36
(10/11/10 TO 10/16/10)

Geosynthetic Placement (Continued)	
 <p>10.15.2010 07:31</p>	 <p>10.15.2010 13:39</p>
<p>Facing SE – ESI deploying primary geocomposite on the south slope of Cell 10.</p>	<p>Facing N – ESI deploying and double wedge welding geotextile on the floor of Cell 10.</p>
 <p>10.16.2010 08:03</p>	 <p>10.16.2010 10:19</p>
<p>Facing S – ESI deploying primary geotextile on the floor of Cell 10.</p>	<p>Facing W - ESI deploying primary geocomposite on the south slope of Cell 10.</p>
 <p>10.16.2010 11:59</p>	
<p>Facing S – ESI zip tying primary geocomposite on the south slope of Cell 10.</p>	

**CQA PHOTOGRAPH LOG WEEK 36
(10/11/10 TO 10/16/10)**

Cell 9 Sump



Facing W – TWS is preparing to place Type B drainage gravel in the Cell 9 primary sump.



Facing W – The Cell 9 primary sump prior to placing the primary drainage gravel.



Facing S – TWS haunching Type B drainage gravel under the primary riser pipes in the Cell 9 primary sump.



Facing N – TWS placing and grading Type B drainage gravel in the Cell 9 primary sump.



Facing S – TWS grading type C drainage gravel in the Cell 9 sump with the aid of the TWS surveyor.



Facing NE – TWS and BMWC preparing to tie the 6-in drain line in to the 18-in riser pipe outside of the crest pad 9 building.



ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 36 (10/11/10 TO 10/16/10)

Cell 9 Sump



Facing N – TWS and BMWC preparing to tie the 6-in drain line in to the 18-in riser pipe outside of the crest pad 9 building.



Facing NE – TWS and BMWC tying the 6-in drain line in to the 18-in riser pipe outside of the crest pad 9 building.

CQA PHOTOGRAPH LOG WEEK 36
(10/11/10 TO 10/16/10)

Cell 10 Sump



Facing N – TWS surveyor marking the location of the primary riser pipe.



Facing S – TWS placing the 12-in primary riser pipe into the Cell 10 sump.



Facing W – BMWC connecting the 12-in primary riser pipe to the in-place leachate collection pipe on the floor of Cell 10.



Facing W – BMWC grinding the ends prior to fusion welding the 12-in primary riser to the leachate collection pipe in Cell 10.



Facing S – TWS placing Type B drainage gravel in the Cell 10 sump.



Facing Down – BMWC using stainless steel straps to secure the primary 18-in riser pipe to the HDPE flatstock in the Cell 10 sump.

CQA PHOTOGRAPH LOG WEEK 36
(10/11/10 TO 10/16/10)

Operations Placement	
	
<p>Facing SW – TWS spreading operations soil in Cell 9.</p>	<p>Facing S – TWS using three CAT dozers to push operations soil up the north slope of Cell 9.</p>
	
<p>Facing SW – TWS grading operations soil in Cell 9 to 3-ft in height.</p>	<p>Facing S – TWS spreading operations soil in Cell 9.</p>
	
<p>Facing S – TWS using a CAT 312 with attached hoe-pack to compact the backfill in the Cell 9 primary riser trench.</p>	<p>Facing E – TWS using a Cat D8 to push operations soil up from the toe of the slope.</p>

**CQA PHOTOGRAPH LOG WEEK 36
(10/11/10 TO 10/16/10)**

Operations Placement (Continued)	
<p>10.12.2010 12:55</p>	<p>10.12.2010 08:42</p>
<p>Facing SE – TWS loading Komatsu trucks with a CAT 5110 excavator from the operations soil stockpile.</p>	<p>Facing S – TWS placing operations soil into the Cell 9 riser trench.</p>
<p>10.12.2010 05:57</p>	<p>10.13.2010 16:18</p>
<p>Facing S – TWS placing an operations haul road across the floor of Cell 9 toward the south berm.</p>	<p>Facing S – TWS using a Cat D6 push operations road up the north slope adjacent to the Cell 10 riser trench.</p>
<p>10.14.2010 09:32</p>	<p>10.14.2010 14:32</p>
<p>Facing W – TWS clipping the operations soil in the north slope of Cell 9 to grade with a CAT D6 GPS</p>	<p>Facing S – TWS placing operations soil on the floor of Cell 9.</p>

CQA PHOTOGRAPH LOG WEEK 36
(10/11/10 TO 10/16/10)

Operations Placement (Continued)



Facing W – TWS using a CAT 312 with attached hoe-pack to compact backfill in the north anchor trench.



Facing E – TWS backfilling and compacting the north anchor trench.



Facing E – TWS backfilling and compacting the north anchor trench in Cell 10.

CQA PHOTOGRAPH LOG WEEK 36
(10/11/10 TO 10/16/10)

Leachate Transmission System	
 <p>10 11 2010 14 22</p>	 <p>10 11 2010 14 29</p>
<p>Facing S – BMWC installing the primary high flow pump in the Cell 9 Crest Pad.</p>	<p>Facing S – BMWC and TWS performing the 2-hour pump test for the secondary pump in Cell 10.</p>
 <p>10 14 2010 10 42</p>	 <p>10 14 2010 14 09</p>
<p>Facing NE – TWS compacting the fill around MH-35.</p>	<p>Facing E – TWS backfilling and compacting the Tank #4 concrete ringwall.</p>
 <p>10 16 2010 10 20</p>	 <p>10 16 2010 10 29</p>
<p>Facing N – TWS subcontractors constructing Tank #3.</p>	<p>Facing N – TWS subcontractors constructing Tank #3.</p>

**CQA PHOTOGRAPH LOG WEEK 37
(10/18/10 TO 10/23/10)**

Geosynthetic Placement



Facing S – ESI trying end-to-end seams on the secondary composite liner on the south slope of Cell 10.



Facing N – ESI extrusion welding the primary to secondary along the east liner termination.



Facing E – ESI continuing deployment of primary geomembrane on the south slope of Cell 10.



Facing N – ESI deploying 16-oz geotextile along the east termination of Cell 10.



Facing S – ESI deploying 16-oz geotextile along the east termination of Cell 10.



CQA PHOTOGRAPH LOG WEEK 37
(10/18/10 TO 10/23/10)

Geosynthetic Placement (Continued)



Facing E – ESI continuing deployment of primary geomembrane on the south slope of Cell 10.



Facing E – ESI performing non-destructive seam pressure test on primary seams in Cell 10.



Facing SE – ESI deploying 16-oz fabric across the floor of Cell 10.

Facing Down – Due to failing destructive testing ESI located and repaired extrusion welds that had been covered by 16-oz fabric.

**CQA PHOTOGRAPH LOG WEEK 37
(10/18/10 TO 10/23/10)**

Drainage Gravel	
 <p>10.19.2010 05:11</p>	 <p>10.19.2010 05:55</p>
<p>Facing N – TWS spreading drainage gravel in the northeast corner of Cell 10 with a track hoe.</p>	<p>Facing N – TWS grading the drainage gravel in the northeast corner of Cell 10.</p>
 <p>10/20/2010 12:19 PM</p>	 <p>10.21.2010 08:25</p>
<p>Facing NW – TWS using a CAT D6 dozer to place primary drainage gravel on the floor of Cell 10.</p>	<p>Facing N – TWS using a CAT D6 dozer to place primary drainage gravel on the floor of Cell 10.</p>
 <p>10.22.2010 07:47</p>	 <p>10/22/2010 07:37 AM</p>
<p>Facing NW – TWS using 2-CAT D6 dozers to place primary drainage gravel on the floor of Cell 10.</p>	<p>Facing W – TWS a CAT D6 dozers to place primary drainage gravel on the floor of Cell 10.</p>

CQA PHOTOGRAPH LOG WEEK 37
(10/18/10 TO 10/23/10)

Cell 10 Sump	
<p>10-19-2010 09:36</p>	<p>10-19-2010 09:29</p>
<p>Facing Down – BMWC completing the weld the 12-in primary collector pipe immediately south of the Cell 10 sump.</p>	<p>Facing N – TWS using the CAT 312 to place Type B drainage gravel in the Cell 10 sump.</p>
<p>10-18-2010 10:56</p>	<p>10-19-2010 09:55</p>
<p>Facing S – ESI placing and sewing 16 oz. geotextile over the Type B drainage gravel in the Cell 10 sump.</p>	<p>Facing S – TWS placing operations soil in the Cell 10 primary riser trench. A TWS labor continuously haunched the soil under the pipes.</p>
<p>10-23-2010 09:00</p>	
<p>Facing S – TWS moisture conditioning and compacting the Cell 10 primary riser pipe backfill.</p>	

CQA PHOTOGRAPH LOG WEEK 37
(10/18/10 TO 10/23/10)

Operations Placement	
 <p>10. 18. 2010 07:15</p>	 <p>10. 18. 2010 07:16</p>
 <p>10. 18. 2010 09:33</p>	 <p>10. 18. 2010 14:54</p>
 <p>10. 19. 2010 09:00</p>	 <p>10. 19. 2010 11:25</p>
<p>Facing SW – Two CAT D6 dozers are placing operations soil on the north slope of Cell 10.</p>	<p>Facing N – A Komatsu truck is dumping a load of operations soil at the toe of Cells 9/10.</p>
<p>Facing NW – A CAT D6 dozer is placing operations soil on the north slope of Cell 10 in a 1-ft high lift.</p>	<p>Facing SE – TWS is placing operations soil near the NE corner of the floor of Cell 10.</p>
<p>Facing S – TWS propping the Cell 10 termination rain flap on the north slope up with sand bags prior to operations placement.</p>	<p>Facing NW – TWS spreading operations soil on the north slope of Cell 10 in a 1-ft high lift.</p>

ERDF CONSTRUCTION CELLS 9-10

**CQA PHOTOGRAPH LOG WEEK 37
(10/18/10 TO 10/23/10)**

Operations Placement (Continued)



Facing NW – TWS spreading operations soil up the north slope in a 3-ft high lift over the in-place 1-ft high lift.



Facing N – TWS pushing operations soil on the north slope of Cell 10 to the rain flap



Facing SW – TWS spreading operations soil on the north slope of Cell 10 in a 1-ft high lift.



Facing NW – TWS spreading operations soil up the north slope in a 3-ft high lift over the in-place 1-ft high lift.



Facing NW – TWS spreading operations soil up the north slope in a 3-ft high lift over the in-place 1-ft high lift.



Facing S – The rainflap on the north slope of Cell 10.

CQA PHOTOGRAPH LOG WEEK 37
(10/18/10 TO 10/23/10)

Anchor Trench Backfill



Facing W – TWS moisture conditioning the north anchor trench backfill.



Facing W – TWS placing backfill in the north anchor trench east of the Cell 10 crest pad building.



Facing W – TWS excavating the un-welded air release holes left open in liner in the north anchor trench so ESI could complete the welds.



Facing W – TWS excavating the un-welded air release holes left open in liner in the north anchor trench so ESI could complete the welds.



Facing SW – TWS cleaning and removing loose soil from the geomembrane in the anchor trench.



Facing W – ESI completing the welding of the air-release holes in the north anchor trench.

ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 37
(10/18/10 TO 10/23/10)

Anchor Trench Backfill (Continued)	
<p>10/20/2010 10:44 AM</p>	<p>10/20/2010 02:41 PM</p>
<p>Facing W – ESI also completed welding the anchor trench in the location of the Cell 10 riser pipes.</p>	<p>Facing W – After the welds were completed, TWS backfilled and compacted the excavated holes.</p>
Leachate Transmission System	
<p>10.20.2010 15:23</p>	<p>10.19.2010 15:44</p>
<p>Facing SW – BMWC constructing the Cell 10 leachate collection piping in Crest Pad 10.</p>	<p>Facing N – TWS compacting the backfill around manhole #36</p>

CQA PHOTOGRAPH LOG WEEK 37
(10/18/10 TO 10/23/10)

Leachate Transmission System (Continued)



10/20/2010 01:07 PM

Facing N – Tank installers working on erecting Tank #4.



10/20/2010 01:33 PM

Facing E – Tank installers tightening bolts on the tank ringwall.



10/20/2010 01:17 PM

Facing W – Tank installers drilling the holes for the anchor bolts in the Tank #4 ringwall.



10/20/2010 01:28 PM

Facing W – Tank installers removing the dust and drilling fines from the drilling the anchor bolt holes in the Tank #4 ringwall.



10/20/2010 01:14 PM

Facing W – Tank installers installing the anchor bolt in the Tank #4 ringwall.

CQA PHOTOGRAPH LOG WEEK 38
(10/25/10 TO 10/30/10)

Geosynthetic Placement



Facing NW – ESI deploying primary geotextile on the floor of Cell 10.



Facing S – ESI performing vacuum box tests on all extrusion welds.



Facing E – ESI sewing the 16-oz fabric covering the primary liner.



Facing N – ESI preparing the weld the primary liner to the secondary liner along the east termination of Cell 10.



Facing Down – ESI hot wedge welding the 16-oz fabric covering the primary liner.



Facing W – ESI welding the secondary pipe boots to the HDPE pipe south of the Cell 9 crest pad building.

CQA PHOTOGRAPH LOG WEEK 38
(10/25/10 TO 10/30/10)

Geosynthetic Placement



10.27.2010 13:41

Facing NE – ESI extrusion welding the pipe boots for the secondary riser pipes in Cell 10.



10.26.2010 06:12

Facing N – ESI rewelding the pipe skirt for the Cell 9 lysimeter pipe.



10.26.2010 08:58

Facing Down – Due to the configuration of the pipe, a new boot was welded on the Cell 9 lysimeter pipe.



10.26.2010 06:51

Facing SE – ESI rewapping the Cell 9 lysimeter pipe boot with geotextile.



10.26.2010 10:40

Facing N – ESI deploying geotextile on the floor of Cell 10.



10.26.2010 13:44

Facing S – ESI is deploying and sewing primary geocomposite on the south slope of Cell 10.

CQA PHOTOGRAPH LOG WEEK 38
(10/25/10 TO 10/30/10)

Geosynthetic Placement



Facing E – ESI is deploying primary geocomposite on the south slope of Cell 10.



Facing N – ESI deploying primary geocomposite on the south slope of Cell 9.



Facing NW – ESI continuing to deploy primary geocomposite on the south slope of Cell 9.



Facing S – ESI is deploying primary geocomposite on the south slope of Cell 9.



Facing S – ESI is deploying primary geocomposite on the south slope of Cell 10.



Facing W – ESI backtracking and completing the butt seaming of the geocomposite on the south slope of Cell 9.

CQA PHOTOGRAPH LOG WEEK 38
(10/25/10 TO 10/30/10)

Leachate Collection



Facing S – TWS is backfilling primary drainage gravel around the 12-in collection pipe in Cell 10.



Facing SW – TWS grading the primary drainage gravel in Cell 10 with a CAT D6 with GPS.



Facing NW – TWS placing primary drainage gravel in Cell 10 with a CAT D6 with GPS.



Facing N – TWS preparing to set a section of 12-in collection pipe in the floor of Cell 10.



Facing Down – TWS preparing to weld the recently placed section of 12-in collection pipe with the existing 12-in collection pipe.



Facing Down – TWS preparing to weld the recently placed section of 12-in collection pipe with the existing 12-in collection pipe.



ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 38 (10/25/10 TO 10/30/10)

Leachate Collection (Continued)	
 <p>10-29-2010 15:17</p>	 <p>10-29-2010 15:28</p>
<p>Facing S – TWS backfilling the 12-in collection pipe in Cell 10 with a CAT 312.</p>	<p>Facing S – TWS covering the 12-in collection pipe in Cell 10 with 1-ft of primary drainage gravel.</p>
 <p>10-29-2010 14:17</p>	
<p>Facing N – TWS completing gravel placement on the north half of Cell 10.</p>	

CQA PHOTOGRAPH LOG WEEK 38
(10/25/10 TO 10/30/10)

Operations Placement	
	
<p>Facing SW – TWS propping the rainflap up at an angle while placing operations soil on the north slope.</p>	<p>Facing SW – TWS propping the rainflap up at an angle while placing operations soil on the north slope.</p>
	
<p>Facing NE – TWS placing and grading the termination berm on the north slope of Cell 10 with a CAT D6 GPS dozer.</p>	<p>Facing W – TWS placing operations soil in Cells 9 and 10.</p>
	
<p>Facing NW – TWS is building the Cell 9/10 berm using a CAT D6 with GPS.</p>	<p>Facing S – TWS placing operations soil on the north half of Cell 10.</p>

CQA PHOTOGRAPH LOG WEEK 38
(10/25/10 TO 10/30/10)

Operations Placement (Continued)



Facing SW – TWS constructing a south haul road across Cell 9 to the toe of the south slope.



Facing S – TWS placing operations soil on the north half of Cell 10.



Facing SE – TWS is loading Komatsu trucks using the CAT 5110 excavator on the operations soil stockpile located southeast of Cell 10



Facing SW – TWS spreading the south road across Cell 9 with two (2) dozers. A second south road across Cell 10 was constructed.



Facing N – TWS constructing a second haul road south across Cell 10. A D6 dozer continues to place the Cell 9/10 termination berm.



Facing NW – TWS constructing a center ramp into Cell 10 at the mid-point of the north and south access ramps.

CQA PHOTOGRAPH LOG WEEK 39
(11/1/10 TO 11/6/10)

Geosynthetic Placement



Facing W – ESI is completely welding primary liner to secondary liner in the south anchor trench.



Facing N – ESI is tying the new primary geocomposite in cell 9 to the existing primary composite in Cells 7/8



Facing E – ESI is welding the primary liner to the secondary liner in the south anchor trench.



Facing N – ESI is placing primary composite on the south slope of Cell 10.



Facing Down – ESI is using zip ties to secure the seams of the primary geocomposite in the south anchor trench in Cell 10.



Facing NE – ESI placing geocomposite on the south slope of Cell 10.

CQA PHOTOGRAPH LOG WEEK 39
(11/1/10 TO 11/6/10)

Geosynthetic Placement (Continued)



Facing SW – ESI continuing to deploy geocomposite on the south slope of Cell 10.



Facing N – ESI deploying 8oz. geotextile over the south toe of Cell 9.



Facing E – ESI is securing the 8-oz fabric on the floor of Cell 10 to the primary geocomposite on the south slope of cell 10.



Facing W – ESI deploying 8 oz. geotextile near the toe of the south slope of Cell 9.



Facing W – ESI is placing primary geocomposite on the south slope of Cell 10.



Facing NW – ESI continuing to place geocomposite on the floor of Cells 9 and 10 at the toe of the south slope.

CQA PHOTOGRAPH LOG WEEK 39
(11/1/10 TO 11/6/10)

Geosynthetic Placement (Continued)



Facing NE – ESI is placing primary geocomposite on the south slope of Cell 10.



Facing N- ESI using plastic zip tie to connect the geocomposite panels together.



Facing Down – ESI is repairing the 16-oz fabric on the floor of Cell 10. TWS snagged the fabric while excavating for the collector pipe.



Facing SW – ESI deploying geocomposite on the Cell 10 slope and geotextile on the floor of Cell 10.

CQA PHOTOGRAPH LOG WEEK 39
(11/1/10 TO 11/6/10)

Drainage Gravel



11/01/2010 01:08 PM

Facing S – TWS beginning to place drainage gravel along the south toe of Cell 10.



11/01/2010 03:07 PM

Facing E – TWS placing drainage gravel along the south toe of Cell 10.



11/02/2010 09:18 AM

Facing NE – TWS placing drainage gravel along the south toe of Cell 10.



11/02/2010 09:21 AM

Facing NW – TWS placing drainage gravel near the toe of the south slope with a CAT D6 dozer.



11.02.2010 09:27

Facing N – TWS continuing to place drainage gravel on the floor of Cell 10.



11.02.2010 12:11

Facing NW – TWS spreading the drainage gravel in a 1-ft thick loose lift with the CAT 312 excavator.

CQA PHOTOGRAPH LOG WEEK 39
(11/1/10 TO 11/6/10)

Drainage Gravel (Continue)



11.02.2010 13:33



11.02.2010 16:14

Facing NE – TWS spreading drainage gravel on the Cell 10 floor with a trackhoe.

Facing NE – TWS spreading gravel with a dozer and trackhoe on the floor of Cell 10.



11.03.2010 10:12



11.03.2010 12:32

Facing NE – TWS hauling and spreading drainage gravel on the floor of Cell 10.

Facing NE – TWS completing spreading of the primary drainage gravel in Cell 10.



11.03.2010 16:26



11.04.2010 09:58

Facing N – TWS grading the drainage gravel to a thickness of 1-ft in on the floor of Cell 10.

Facing NE – TWS continuing to cut the drainage gravel to grade in Cell 10.

ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 39
(11/1/10 TO 11/6/10)

Leachate Collection Pipe



Facing N – TWS preparing to place the last section of 12-in collection pipe in Cell 10.



Facing SE – TWS moving the 12-in collection pipe in position to be slid down the south embankment of Cell 10.



Facing NE – TWS pushing the 12-in collection pipe down the south slope of Cell 10.



Facing N – TWS pulling the last section of 12-in collection pipe onto the floor of Cell 10.



Facing NE – TWS joining the last section of 12-in collection pipe on the floor of Cell 10.



Facing N – TWS placing drainage gravel over the 12-in leachate collection pipe in Cell 10.

ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 39
(11/1/10 TO 11/6/10)

Operations Placement



Facing SW – TWS hauling operations soil into Cell 10.



Facing N – TWS placing the last portions of operation on slope of Cell 10 near the NE shoulder.



Facing N – TWS spreading operations soil in the north east corner of Cell 10.



Facing N – TWS placing an operations road diagonally though Cells 9 and 10 to the midpoint of the Cell 9 south slope.



Facing NW – TWS hauling operations soil to the south berm of Cell 9.



Facing N – TWS placing operations soil up the south slope of Cell 9.



ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 39 (11/1/10 TO 11/6/10)

Operations Placement (Continued)



Facing N – TWS placing operations soil on the south slope of Cell 9.



Facing NE – TWS placing operations soil on the south slope of Cell 9.



Facing SW – TWS placing operations soil up the south slope of Cell 10.

ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 39
(11/1/10 TO 11/6/10)

Leachate Transmission System



11-02-2010 13:06



11.02.2010 14:02

Crest Pad 10 – BMWC preparing to pressure test the Leachate transmission system inside of the crest pad 10 building.

Crest Pad 10 – BMWC pressure gauge for testing the Leachate transmission system inside of the crest pad 10 building.



11-02-2010 14:03



11-02-2010 15:02

Crest Pad 10 – Beginning pressure of approx. 75-psi.

Crest Pad 10 – Ending pressure of approx. 73-psi.

ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 39
(11/1/10 TO 11/6/10)

Anchor Trench Backfill



Facing E – TWS moisture conditioning the backfill in the Cell 9 anchor trench prior to compaction.



Facing E – TWS using the CAT 330 to place operations soil into the Cell 9 anchor trench.



Facing W – TWS using the CAT 312 with attached hoe-pack to compact the backfill placed in the south anchor trench for Cell 9.

CQA PHOTOGRAPH LOG WEEK 39
(11/1/10 TO 11/6/10)

Tank Liner Installation	
 <p>11.01.2010 09:01</p>	 <p>11.01.2010 09:25</p>
Tank 3 – ESI placing materials into Tank 3.	Tank 3 – ESI beginning to place 16-oz textile on the walls of Tank 3.
 <p>11.01.2010 16:02</p>	 <p>11.01.2010 16:39</p>
Tank 3 – ESI placing 16-oz textile on the floor of Tank 3.	Tank 3 – ESI placing 16-oz textile on the floor of Tank 3.
 <p>11.02.2010 08:29</p>	 <p>11.02.2010 10:35</p>
Tank 3 – ESI beginning to place secondary 40-mill LLDHE line on the walls in Tank 3.	Tank 3 – ESI placing secondary 40-mill LLDHE line on the walls in Tank 3.

CQA PHOTOGRAPH LOG WEEK 39
(11/1/10 TO 11/6/10)

Tank Liner Installation (Continued)



Tank 3 – ESI using a Demtech double wedge welder to weld the secondary wall panels in Tank 3.



Tank 3 – ESI beginning to place the secondary 40-mil LLDPE liner on the floor of Tank 3.



Tank 3 – ESI placing secondary 40-mil LLDPE liner on the floor of Tank 3.



Tank 3 – ESI fitting the 40-mil liner in Tank 3 to fit around the tank penetrations in the floor.



Tank 3 – ESI using a Demtech double wedge welder to weld the wall panels in Tank 3.



Tank 3 – ESI fitting the 40-mil liner in Tank 3 to fit around the tank penetrations in the floor.

CQA PHOTOGRAPH LOG WEEK 39
(11/1/10 TO 11/6/10)

Tank Liner Installation (Continued)



Tank 3 – ESI pressure testing the secondary seams inside of Tank 3.



Tank 3 – ESI installing the baton strip at the top of Tank 3. Only 1/3 were installed at this time.



Tank 3 – ESI installing the baton strip at the top of Tank 3



Tank 3 – ESI leistering the floor panels to the wall panels in Tank 3 in preparation for extrusion welding.



Tank 3 – The secondary floor panels have been leistered to the wall panels in preparation for extrusion welding.



Tank 3 – ESI extrusion welding the secondary floor panels to the secondary wall panels in Tank 3.

CQA PHOTOGRAPH LOG WEEK 39
(11/1/10 TO 11/6/10)

Tank Liner Installation (Continued)



Tank 3 – ESI making secondary repairs on the wall of Tank 3.



Tank 3 – ESI vacuum testing all extrusion welds in Tank 3 with CQA oversight.



Tank 4 – ESI installing the secondary wall panels in Tank 4.



Tank 4 – Secondary wall panels installed in Tank 4.



Tank 4 – ESI unrolling precut secondary wall panels in Tank 4.



Tank 4 – ESI installing secondary wall panels in Tank 4.

**CQA PHOTOGRAPH LOG WEEK 40
(11/8/10 TO 11/13/10)**

Geosynthetic Placement	
 <p>11-08-2010 09:34</p>	 <p>11-08-2010 14:02</p>
 <p>11-08-2010 15:08</p>	 <p>11-08-2010 17:08</p>
 <p>11-10-2010 08:00</p>	 <p>11-10-2010 14:50</p>
<p>Facing W – ESI continuing to place primary geocomposite on the south slope of Cell 10.</p>	<p>Facing Down – ESI performing vacuum tests on primary repairs on the south slope of Cell 10.</p>
<p>Facing S – ESI placing primary geocomposite on the south slope of Cell 10.</p>	<p>Facing SE – ESI placing primary geocomposite on the south slope of Cell 10.</p>
<p>Facing N – ESI working the rain flap detail on the south slope of Cell 10.</p>	<p>Facing NE – ESI working the rain flap detail on the south slope of Cell 10.</p>

**CQA PHOTOGRAPH LOG WEEK 40
(11/8/10 TO 11/13/10)**

Geosynthetic Placement (Continued)



Facing N – ESI working the rain flap detail on the south slope of Cell 10.



Facing N – ESI working the rain flap detail on the south slope of Cell 10.



Facing N – ESI making repairs on the south slope of Cell 10.



Facing N – ESI preparing to vacuum test the rain flap extrusion welds on the south slope of Cell 10.



Facing NW – ESI making repairs on the south slope of Cell 10.



Facing W – ESI deploying primary geocomposite on the east end of the south slope of Cell 10.

ERDF CONSTRUCTION CELLS 9-10

**CQA PHOTOGRAPH LOG WEEK 40
(11/8/10 TO 11/13/10)**

Geosynthetic Placement (Continued)	
<p style="text-align: right; color: orange;">11.12.2010 14:39</p>	<p style="text-align: right; color: orange;">11.12.2010 14:54</p>
<p>Facing N – ESI placing 16-oz fabric over the east termination of Cell 10 on the south slope.</p>	<p>Facing NE – ESI sewing the 16-oz fabric over the east termination of Cell 10 on the south slope.</p>
<p style="text-align: right; color: orange;">11.12.2010 15:23</p>	<p style="text-align: right; color: orange;">11.12.2010 16:27</p>
<p>Facing N – ESI vacuum testing the rain flap on the south slope of Cell 10.</p>	<p>Facing N – ESI sewing the flaps for the primary geocomposite near the Cell 10 rain flap in the south anchor trench.</p>

CQA PHOTOGRAPH LOG WEEK 40
(11/8/10 TO 11/13/10)

Operations Placement	
 <p>11/08/2010 09:30 AM</p>	 <p>11/08/2010 01:34 PM</p>
Facing NE – TWS placing operations soil on the south half of Cell 9.	Facing NE – TWS placing operations soil on the south half of Cell 9.
 <p>11.08.2010 11:27</p>	 <p>11.08.2010 11:27</p>
Facing NW – TWS placing operations soil on the south half of Cell 9.	Facing N – TWS placing operations soil on the south half of Cell 9 with 2- CAT D6 dozers
 <p>11.08.2010 11:27</p>	 <p>11.08.2010 11:28</p>
Facing NE – TWS placing operation on the south half of Cell 9.	Facing W – TWS dumping operations soil near the south toe of Cell 9.

**CQA PHOTOGRAPH LOG WEEK 40
(11/8/10 TO 11/13/10)**

Operations Placement (Continued)



Facing W – TWS using Komatsu trucks to transport operations soil into Cells 9 and 10.



Facing SE – TWS is using a CAT 5110 excavator to load operations soil into Komatsu trucks to be transported into the Cells.



Facing NE – TWS is placing operations soil in Cells 9 and 10.



Facing N – TWS is using 3-CAT D6 dozers to push operations soil up the south slope of Cell 9.



Facing N – TWS is using 1-CAT D6 dozer to push operation soil up the south slope of Cell 9.



Facing NE – TWS building a road out of operations soil along the south toe of Cell 10.

**CQA PHOTOGRAPH LOG WEEK 40
(11/8/10 TO 11/13/10)**

Anchor Trench Backfill	
 <p>11/08/2010 09:40 AM</p>	 <p>11/09/2010 09:40 AM</p>
<p>Facing E – TWS using the CAT 312 with attached hoe-pack to compact the backfill placed in the south anchor trench of Cell 9.</p>	<p>Facing E – TWS watering the backfill placed in the south anchor trench of Cell 9.</p>
 <p>11/08/2010 16:51</p>	 <p>11/09/2010 12:04</p>
<p>Facing E – TWS using the CAT 312 with attached hoe-pack to compact the backfill placed in the south anchor trench of Cell 9.</p>	<p>Facing E – TWS using the CAT 312 with attached hoe-pack to compact the backfill placed in the south anchor trench of Cell 10.</p>
 <p>11/11/2010 13:34</p>	
<p>Facing E – The CAT D6 dozer has placed the final lift over the south anchor trench of Cell 10.</p>	

**CQA PHOTOGRAPH LOG WEEK 40
(11/8/10 TO 11/13/10)**

Tank Liner Installation	
 <p>11-08-2010 09:07</p>	 <p>11-08-2010 09:18</p>
<p>Tank 3- Overnight rains have left standing water in Tank 3.</p>	<p>Tank 3- ESI sweeping Tank 3 so the water can be pumped out of the tank.</p>
 <p>11-08-2010 10:36</p>	 <p>11-08-2010 10:49</p>
<p>Tank 3- ESI sweeping Tank 3 so the water can be pumped out of the tank.</p>	<p>Tank 4- ESI is using a double wedge welder to weld the secondary wall seams in Tank 4.</p>
 <p>11-08-2010 11:45</p>	 <p>11-08-2010 13:52</p>
<p>Tank 4-ESI is preparing the secondary floor panels for Tank 4.</p>	<p>Tank 4-ESI has begun placing the secondary 40-mill LLDPE liner on the floor of Tank 4.</p>

CQA PHOTOGRAPH LOG WEEK 40
(11/8/10 TO 11/13/10)

Tank Liner Installation



Tank 4- ESI is pressure testing the secondary seams in Tank 4.



Tank 4- ESI is fitting the secondary liner to the pipe penetrations in the floor of Tank 4.



Tank 4- ESI is fitting the secondary liner to the pipe penetrations in the floor of Tank 4.



Tank 4- The floor of Tank 4 is in place.



Tank 4- ESI is installing the batton strip in Tank 4.



Tank 3- Overnight rains have left standing water in Tank 3.

CQA PHOTOGRAPH LOG WEEK 40
(11/8/10 TO 11/13/10)

Tank Liner Installation	
 <p>11-10-2010 09:04</p>	 <p>11-10-2010 09:54</p>
<p>Tank 4- Overnight rains have left standing water in Tank 4.</p>	<p>Tank 4 – ESI is sweeping the floor of Tank 4 so the rainwater can be removed.</p>
 <p>11-10-2010 09:58</p>	 <p>11-10-2010 10:40</p>
<p>Tank 4- TWS is pumping the water out of Tank 4.</p>	<p>Tank 3 – ESI is installing more bolts in the bottom strips in Tank 3.</p>
 <p>11-10-2010 10:58</p>	 <p>11-11-2010 09:27</p>
<p>Tank 4-ESI is using an electric leaf blower to dry the liner in Tank 4 so they can continue to weld.</p>	<p>Tank 4-ESI is using an electric leaf blower to dry the liner in Tank 4 so they can continue to weld.</p>

ERDF CONSTRUCTION CELLS 9-10

**CQA PHOTOGRAPH LOG WEEK 40
(11/8/10 TO 11/13/10)**

Tank Liner Installation	
	
<p>Tank 3- TWS is beginning to fill Tank 3 with water in preparation for the electronic leak test.</p>	<p>Tank 4-ESI is spark testing the welds in Tank 4 that are inaccessible to the vacuum box.</p>

CQA PHOTOGRAPH LOG WEEK 41
(11/15/10 TO 11/20/10)

Geosynthetic Placement	
 <p>11 15 2010 11 26</p>	 <p>11 15 2010 11 26</p>
<p>Facing S – ESI is vacuum box testing the extrusion welds on the rain flap on the south slope of Cell 10.</p>	<p>Facing N – ESI is placing the secondary geocomposite around the rain flap on the south slope of Cell 10.</p>
 <p>11 15 2010 11 26</p>	 <p>11 15 2010 11 48</p>
<p>Facing N – ESI is placing the secondary geocomposite around the rain flap on the south slope of Cell 10.</p>	<p>Facing N – ESI is placing the secondary geocomposite around the rain flap on the south slope of Cell 10.</p>
 <p>11 16 2010 14:41</p>	
<p>Facing NE – ESI is leistering the 8-oz fabric over the last of the primary drainage gravel in the SE corner of Cell 10.</p>	

**CQA PHOTOGRAPH LOG WEEK 41
(11/15/10 TO 11/20/10)**

Operations Placement	
 <p>11-15-2010 08:28</p>	 <p>11-15-2010 11:49</p>
<p>Facing N – TWS is placing operation soil on the south half of Cell 10.</p>	<p>Facing NE – TWS is placing operation soil on the south half of Cell 10.</p>
 <p>11-15-2010 13:17</p>	 <p>11-15-2010 13:18</p>
<p>Facing N – TWS is placing operation soil on the south half of Cell 10 near the south toe.</p>	<p>Facing NW – TWS is using a CAT D6 dozer to grade the operations soil in Cell 9 to design grade.</p>
 <p>11-16-2010 11:41</p>	 <p>11-16-2010 13:25</p>
<p>Facing N – TWS is construction the east termination berm on the north half of Cell 10.</p>	<p>Facing NW – TWS is placing operation on the south slope of Cell 10.</p>

**CQA PHOTOGRAPH LOG WEEK 41
(11/15/10 TO 11/20/10)**

Operations Placement (Continued)	
 <p>11.17.2010 06:24</p>	 <p>11.19.2010 10:29</p>
<p>Facing N – TWS is pushing operations soil up the north slope of Cell 10.</p>	<p>Facing N – TWS is placing operations soil on the south half of Cell 10.</p>
 <p>11.18.2010 10:33</p>	 <p>11.19.2010 10:33</p>
<p>Facing SW – TWS is working to finish the operations soil on the south slope of Cell 9.</p>	<p>Facing SW – The south half of the Cell 9 floor and the Cell 9 north slope is finished to grade.</p>

**CQA PHOTOGRAPH LOG WEEK 41
(11/15/10 TO 11/20/10)**

Tank Liner Installation	
 <p>11-15-2010 10:21</p>	 <p>11-17-2010 17:02</p>
<p>Tank 4 – ESI is finishing the secondary vacuum tests in Tank 4.</p>	<p>Tank 3 – While Tank 3 was filled with water portion of the secondary liner were pulled downward tearing the liner and leaving holes below the button strips.</p>
 <p>11-18-2010 17:10</p>	 <p>11-19-2010 09:49</p>
<p>Tank 4 – ESI making secondary repairs to leaks found during the electronic leak survey.</p>	<p>Tank 3 – ESI cleaning the floor of Tank 3 in preparation for placing secondary geocomposite.</p>
 <p>11-19-2010 10:34</p>	 <p>11-19-2010 11:34</p>
<p>Tank 3 – ESI installing secondary geocomposite.</p>	<p>Tank 3 – ESI installing secondary geocomposite.</p>

**CQA PHOTOGRAPH LOG WEEK 41
(11/15/10 TO 11/20/10)**

Tank Liner Installation	
 <p>11 19 2010 11 37</p>	 <p>11 20 2010 11 09</p>
<p>Tank 3 – ESI wrapped the edges of the secondary geocomposite to protect the secondary and primary liner systems.</p>	<p>Tank 4 – ESI is installing secondary geocomposite in Tank 4.</p>
 <p>11 20 2010 11 08</p>	 <p>11 20 2010 11 10</p>
<p>Tank 4 – ESI is installing secondary geocomposite in Tank 4.</p>	<p>Tank 4 – ESI is installing secondary geocomposite in Tank 4.</p>

ERDF CONSTRUCTION CELLS 9-10

**CQA PHOTOGRAPH LOG WEEK 42
(11/22/10 TO 11/27/10)**

Operations Placement	
<p>Facing S – Overnight and early morning snow has blanketed the site.</p>	<p>Facing W – TWS is continuing to construct the Cell 9 and Cell 10 east termination berms.</p>
<p>Facing W – TWS is continuing to construct the Cell 9 and Cell 10 east termination berms.</p>	<p>Facing NW – TWS is using a CAT D6 with GPS to clip the Cell 10 operations soil on the floor to grade.</p>
<p>Facing S – TWS is using a CAT D6 with GPS to clip the Cell 10 operations soil on the floor to grade.</p>	



ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 44 (12/6/10 TO 12/10/10)

South Access Road	
	
Facing W – TWS has placed and compacted the top course on the south access road, south of Cells 9 and 10.	Facing E – TWS has placed and compacted the top course on the south access road, south of Cells 9 and 10.

ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 44
(12/6/10 TO 12/10/10)

Operations – Termination Fencing	
 <p>12 08 2010 05 46</p>	 <p>12 08 2010 11 43</p>
<p>Facing N – Termination fence between Cells 9 and 10 prior to hanging the chain link fabric.</p>	<p>Facing SW – American Fence installing chain link fabric on the Cell 9/10 termination fence.</p>
 <p>12 08 2010 11 47</p>	 <p>12 08 2010 11 47</p>
<p>Facing N – American Fence has installed the Cell 9/10 Termination Berm.</p>	<p>Facing N – American Fence has installed the Cell 9/10 Termination Berm.</p>

CQA PHOTOGRAPH LOG WEEK 44
(12/6/10 TO 12/10/10)

Raw Water Line	
<p>Facing E – TWS has excavated the trench for the raw water line extension south of Cell 10.</p>	<p>Facing W – TWS backfilling over the raw water line located south of Cell 10.</p>
<p>Facing Down – CQA conducting field compaction testing on the raw water line backfill.</p>	

**CQA PHOTOGRAPH LOG WEEK 44
(12/6/10 TO 12/10/10)**

Crest Pad 9



Facing S – TWS beginning to place drainage gravel along the south toe of Cell 10.



Facing E – TWS placing drainage gravel along the south toe of Cell 10.



Facing NE – TWS placing drainage gravel along the south toe of Cell 10.



Facing NW – TWS placing drainage gravel near the toe of the south slope with a CAT D6 dozer.

CQA PHOTOGRAPH LOG WEEK 44
(12/6/10 TO 12/10/10)

Tank #3 Liner Installation	
 <p>12-04-2010 09:33</p>	 <p>12-05-2010 13:29</p>
<p>Facing E – Weekend snowstorms blanketed the floor of Tank #3 with snow and ice.</p>	<p>Facing Down – ESI used shovels and heaters to remove snow and ice from the geocomposite on the tank floor.</p>
 <p>12-06-2010 15:46</p>	 <p>12-07-2010 16:34</p>
<p>Facing E – ESI and TWS began constructing the center support for a tent to cover Tank #3.</p>	<p>Facing N – TWS and ESI are pulling a 150'x150' tarp over tank #3 so work can continue through the adverse weather conditions.</p>
 <p>12-08-2010 13:31</p>	 <p>12-09-2010 09:18</p>
<p>Facing N – The tarp has been installed over Tank #3.</p>	<p>Facing N – High winds began to cause damage to the tent over Tank #3. The tarp was subsequently removed.</p>

CQA PHOTOGRAPH LOG WEEK 44
(12/6/10 TO 12/10/10)

Tank #4 Liner Installation	
<p>Facing W – TWS is beginning to remove storm water from the secondary liner in Tank #4.</p>	<p>Facing S – After a majority of the storm water was removed, ESI began to hang primary liner panels on the walls of Tank #4.</p>
<p>Facing SW – ESI is hanging primary panel P-1 on the south wall of Tank #4.</p>	<p>Facing SW – ESI is continuing to hang primary liner panels on the walls of Tank #4.</p>
<p>Tank #4 – Bolt tears in the secondary liner on the north side of Tank #4. ESI repaired all bolt tears and more baton strip bolts were installed.</p>	<p>Facing SW – ESI utilizing a double wedge fusion welder to seam the primary panels on the walls of Tank #4.</p>



ERDF CONSTRUCTION CELLS 9-10

CQA PHOTOGRAPH LOG WEEK 44 (12/6/10 TO 12/10/10)

Manholes	
 <p>12/10/2010 12:54</p>	 <p>12/10/2010 12:50</p>
<p>Facing E – American Electric has utilized a Ditch Witch trencher to trench in electrical conduit to MH-38 and MH-39.</p>	<p>Facing NE – American Electric has utilized a Ditch Witch trencher to trench in electrical conduit to MH-38 and MH-39 near Tank #3.</p>
 <p>12/10/2010 12:52</p>	
<p>Facing Down – American Electric has utilized a Ditch Witch trencher to trench in electrical conduit to Tank #3 transducer and MH's #21, #38 and #39.</p>	