

PHOTOGRAPH LOG



Environment and Infrastructure, Inc.
7376 SW Durham Road
Portland, Oregon 97224

PROJECT NAME: Pasco Landfill Cap Project - Cap Construction Project

Project No: 4-61M-10705-1 P-02

Date: May 20, 2013

Site Location: Pasco, Washington

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Photo 1: View of the site from the north side of the site. Note the new monitoring well in the foreground (see yellow posts).



Photo 2: Loading tumbleweeds into dump truck along west side of the site (outside cyclone fence). View looking east.

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Photo 3: Water trailer spraying water on the site roadway. Loading grubbing debris (tumbleweeds) into dump truck for off-site disposal at adjacent transfer station. View looking east.



Photo 4: Installation of orange construction fence around perimeter of construction zone near the southeast corner of the site. Fence mounted to new T-bars. View looking southeast.

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Photo 5: View of the new orange perimeter construction fencing along the western edge of the site. View looking north.

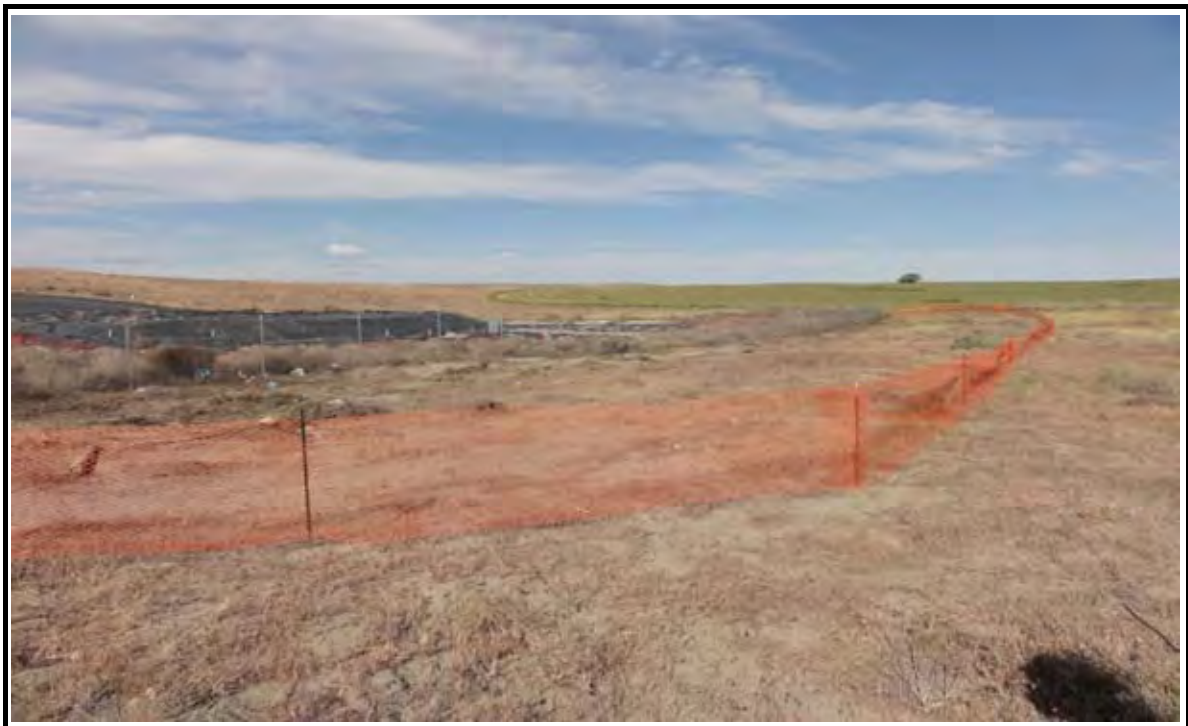


Photo 6: View of the new orange perimeter construction fence along the southern side of the site. View looking east from the northwest corner of the site.

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Photo 1: View of the western half of the site at the beginning of the day. Note the stockpiled metal fencing ready for recycling.



Photo 2: AEC watering the site roadways at the beginning of the day with trailer mounted watering equipment. View looking south along western side of CAP.

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Photo 3: View of excavation areas AE-1 and AE-2 (background) along the western edge of the CAP. AE areas are marked out with orange spray paint. View looking north along western edge of CAP.



Photo 4: View of first G-layer material drop by dump trucks. Material is being dropped inside loop area west of the new CAP. View looking south/southwest from northern edge of the CAP.

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Photo 5: View of AE-3 area marked out in orange spray paint prior to fence removal. View looking east from western side of AE-3.



Photo 6: View of the AE-4 marked out in orange spray paint along the eastern edge of the CAP. View looking southeast from the northern side of the CAP.

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Photo 7: View of AEC loading metal fencing material into dump truck for recycling. View looking west from the SW corner of the CAP area.



Photo 8: Jobsite trailer being delivered to the site. Trailer placed along west side of the access road west of the western side of the CAP. View looking NW from the western side of the CAP.

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Photo 9: View of AEC installing base layer of G-layer material to provide access to the construction area for trucks and equipment for further G-layer installation. View of SE corner of the CAP from center of CAP.



Photo 10: View of AEC installing G-layer access road into the construction zone for trucks and equipment. Photo taken at the end of the work day. View looking south from NE corner of the CAP.

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Environment and Infrastructure, Inc.
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Photo 1: View of the site at the beginning of work for the day. View looking to the SE corner (adjacent to trackhoe).



Photo 2: AEC preparing to excavate AE-3 (see triangular area with orange paint outline and cut out liner). View looking to the west from the eastern edge of the site.

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Photo 3: AEC decontaminating the trackhoe bucket over the lined wash sump (SE corner of the site) after excavating AE-3 to 4-ft bgs. View looking east from SE corner.



Photo 4: AE-3 after final 5-ft bgs excavation work. View looking NW from SE corner of AE-3.

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Photo 5: AE-3 backfilled and compacted to existing grade. View looking east from NW corner of AE-3 excavation.



Photo 6: View of AE-2 after final 5-ft bgs excavation work. Note gravel stockpiles that will be used for backfilling AE-1 and AE-2. View looking south from north side of AE-2.

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Photo 7: View of AE-1 after final 5-ft bgs excavation work. Note gravel stockpiles that will be used for backfilling AE-1 and AE-2. View looking north from south side of AE-1.



Photo 8: View of AE-2 getting backfilled with gravel with trackhoe and load from AEC dump truck. View looking south from the north side of AE-2.

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Photo 9: AEC laying out 12-mil liner over the AE-1 and AE-2 excavated soils. AEC uses clean gravel to hold down the edges and middle of the liner. View looking south from north side of the site.



Photo 10: View of the site at the conclusion of work for the day. Orange construction fence is up around the site and gravel is stockpiled for next day's excavation and backfilling work at AE-4 and AE-5. View looking north from hill south of the southern end of the site.

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Photo 1: View of the site at the beginning of work for the day. View looking to the South / SE towards the trackhoe. Note that all of the soils from AE-1 and AE-2 were covered with 12-mil and then covered with gravel.



Photo 2: AEC beginning to excavate the northern edge of AE-4. View looking to the south.

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Photo 3: View of AE-4 after AEC completes excavating down to 4-ft bgs. View looking to the south across the excavation of AE-4.



Photo 4: AEC begins the excavation of AE-5 down to 4-ft bgs. View of AE-5 looking to the north/northwest.

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Photo 5: View of excavation AE-5 down to 4-ft bgs. Stockpiled soils from AE-5 shown on the right side of photo.



Photo 6: View of AEC decontaminating the trackhoe bucket over the containment sump. View looking to the northwest towards the job trailer.

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Photo 7: View of the excavated soils from AE-4 and AE-5 being spread around the base of the "hump" by the bulldozer. View looking to the Northwest.



Photo 8: View of AEC watering truck watering the backfill materials in AE-4. View looking to the south over the top of the water truck.

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Photo 9: View of the area of soils from AE-4 and AE-5 under the 12-mil plastic liner. Note trackhoe spreading gravel over the cover liner. View looking to the north/northwest.



Photo 10: View of the site at the conclusion of work for the day. Orange construction fence is up around the site and the 12-mil tarps covering the excavated soils is covered mostly with gravel. View of the site looking north.

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Environment and Infrastructure, Inc.
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Photo 1: View of the site at the beginning of work for the day. View looking to the South / SE towards the trackhoe.



Photo 2: View of AEC loading cyclone fencing for scrap metal recycling.

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Photo 3: View of Rick's Custom Fencing beginning the installation of the corner fence posts for the perimeter fencing outside the construction zone. View looking to the south.



Photo 4: View of AEC water truck wetting down G-layer materials on cap. View looking to the southeast.

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Photo 5: View of new fence corner posts (two in foreground are for new double gate on SW site of perimeter). View looking north from SW corner of site.



Photo 6: View of northern cyclone fencing area completely removed. View looking west from northern end of site.

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Photo 7: View of the site at the end of the work day from the NE corner. View looking south from NE corner.



Photo 8: View of the site near the end of the work day. View looking north from hill past southern end of site.

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Environment and Infrastructure, Inc.
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Photo 1: View of the site at the beginning of work for the day. View looking to the north from the south (off of site).



Photo 2: AEC rolling out the "Old GCL" rolls along the NW corner of the existing liner. AEC did not drive their trackhoe over the existing original cap liner. View looking north from south side of site.

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Environment and Infrastructure, Inc.
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Photo 3: View of the decon pond after decon water has evaporated from the pond. AMEC authorizes burying the pond under the G layer material. View looking west from the SE corner of the CAP.



Photo 4: View of AEC water truck watering down G layer gravel that is spread over original cap liner. View looking to the North/Northwest from the SE corner of the site. Note the water truck is on top of the covered "Hump".

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Photo 5: View of the Old GCL rolls completely rolled out onto area along western edge of the original cap. Note the gravel on the right side. AEC is beginning to cover the old GCL with G layer gravel. View looking to the east from the western side of the site.



Photo 6: View of the site at the end of the work day. Note that the entire "hump" is covered with G layer gravel and parts of original cap liner and Old GCL is also covered. G layer gravel is stockpiled for the next morning. View looking to the north from the south side of the site.

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Photo 1: View of the site at the beginning of work for the day. View looking to the SE towards the Roller. Note that all of the surface is wet due to early morning rain.



Photo 2: View of the site and AEC's surveyor setting up over northern control point to set out stakes for G-layer grade. View looking south from northern end of site.

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Photo 3: View of gravel trucks dropping gravel on G-layer on top of old GCL rolls and original cap liner. View looking south from northern edge of original cap liner.



Photo 4: View of the southern edge of the G-layer. Note southern edge of shallow excavation on left site. View of site looking west from area near southern end of AE-4.

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Photo 5: View of the southern edge of G-layer near end of the day with watering truck and roller. Note that former holes in Photo 4 have been backfilled and compacted. View looking west/northwest from AE-5.



Photo 6: View of the site from the end of the day. Note that almost all of the original cap liner is cover (except for small area on NE corner) with G-layer gravel. View looking north from area beyond southern end of site.

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Photo 1: View of the site at the beginning of work for the day. View looking to the South / SE towards the roller.



Photo 2: AEC using the trackhoe to empty the gravel from the trailer that is having mechanical issues. View looking west from SE corner.

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Photo 3: View of AEC trackhoe cleaning up sand area along the eastern edge of the site. View looking south from NE corner.



Photo 4: AEC begins grubbing for NE swale area. Note orange lines that locate the EOL and EOC for the NE swale. View looking North to Northwest from east side of site.

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Photo 5: View of the layout lines (orange) for NW swale between the EOC and EOL. View looking NE from the western edge of the site.



Photo 6: View of the south side of the cap at the end of the day. The G-layer is near final G-layer grade. View looking NW towards the job trailer.

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Photo 7: View of the NE swale after grubbing work at the end of the day. View looking NW from eastern side of the site.



Photo 8: View of the site from the southern end of the property. View looking north.

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Photo 1: View of the site at the beginning of work for the day. View looking to the South / SE towards the roller.



Photo 2: AEC beginning grubbing work on northern end of the site between Edge of Cap and Edge of Liner extension. View looking to the east from the NW corner of the site.

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Photo 3: View of the Liner extension area / NW swale area prior to grubbing work by trackhoe. Note orange line denoting edge of liner extension. View looking to the southwest from the northwest corner of the site.



Photo 4: View of the eastern side nearing completion and the NE corner / swale area after grubbing completed. View looking north from the SE corner of the site.

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Photo 5: View of the northern end of the liner extension area after majority of grubbing completed. View looking to the east from the NW corner of the site.



Photo 6: View of the NW corner of the liner extension/swale area after grubbing work. View looking NE from the western side of the site.

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Photo 7: View of the AEC trackhoe loading remaining debris and garbage into the AEC dump truck along the western side of the site. View looking to the SE from the NW corner of the site.



Photo 8: View of compaction density testing along the eastern side of the G-layer. View looking to the SE from the northern end of the CAP area.

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Photo 9: View of the site at the end of the work day. View looking to the south from beyond the northern end of the site.



Photo 10: View of the site at the conclusion of work for the day. Orange construction fence is up around the site and all crews gone. View of the site looking north from beyond the southern edge of the site.

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Photo 1: View of the site at the beginning of work for the day. View looking to the South / SE beyond the dump truck. Note the NW swale in the foreground and grading control points.



Photo 2: View of the first sand (interior of "loop" - trackhoe is in "loop") and topsoil (down below sand - see red truck) stockpiles on the site. View looking to the SW from the NW corner of the site.

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Photo 3: View of the Cap area during G-layer grading work. Note side dump truck, roller, bulldozer, and watering truck on cap. View looking north from area beyond south end of the site.



Photo 4: View of AEC's surveyor (Tim Scott) installing grade control points with topsoil (left) and sand (right) layer stockpiles behind him. View looking west from eastern side of the cap.

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Photo 5: View of the topsoil (foreground) and sand (behind topsoil) stockpiles at the end of the day. View looking north from area beyond south side of site.



Photo 6: View of the cap at the end of the day. View looking north from area beyond the south end of the site.

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Photo 1: View of the site at the beginning of work for the day. View looking to the South / SE towards the trackhoe.



Photo 2: View of AEC managing sand (foreground) and topsoil (background) stockpiles during the day. View looking south from northwest corner of the site.

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Photo 3: View of the northern end of the G-layer. Note the peak along the northern edge of the cap area. View looking northeast by east from western side of site.



Photo 4: View of the southern end of the G-layer. View looking west from SE corner of the site.

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Photo 5: View of the topsoil (front) and sand (back) stockpiles at the end of the day. View looking NW from area beyond south side of site.



Photo 6: View of the site and G-layer near completion. Small area in SW corner is unfinished. View looking north from area beyond south end of site.

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Photo 1: View of the site at the beginning of work for the day. View looking to the South / SE towards the water trailer.



Photo 2: View of infiltration basin area prior to grubbing/grading work. Note AEC is moving OCF back to posts for the new perimeter fencing. View looking south from south end of cap.

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Photo 3: View of SW corner of cap nearing completion and AEC trackhoe beginning grubbing/grading work in the infiltration basin area during bulldozer repair. Note OCF installed along new outer fence posts. View looking south from NW corner of site.



Photo 4: View of AEC off loading three rolls of geomembrane from NW Linings truck. Note trailer in background dumping load of topsoil on stockpile. View looking SW toward SW corner of cap from northern end of site.

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Photo 5: View of label on first roll of 40-mil HDPE Microspike / smooth geomembrane. Roll # = 822334-13
Thickness = 40-mil, Width = 23-ft, Length = 760-ft for a total area of roll = 17,480-sf
Microspike side is considered "textured".



Photo 6: View of label on second roll of 40-mil HDPE Microspike / smooth geomembrane. Roll # = 822335-13
Thickness = 40-mil, Width = 23-ft, Length = 760-ft for a total area of roll = 17,480-sf
Microspike side is considered "textured".

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Photo 7: View of label on third roll of 40-mil HDPE Microspike / smooth geomembrane. Roll # = 822336-13
Thickness = 40-mil, Width = 23-ft, Length = 760-ft for a total area of roll = 17,480-sf
Microspike side is considered "textured".



Photo 8: View of the three new rolls of geomembrane liner delivered and stockpiled beyond SW corner of the cap with five rolls of plastic welding cord. View looking NW from the SW corner of the site.

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Photo 9: View of the topsoil (front) and sand (back) stockpiles at the end of the work day and three new rolls of geomembrane (left of trackhoe). Note that the other two geomembrane rolls are stockpiled up on the road and will be brought down to the others tomorrow. View looking NW from area south of the site.



Photo 10: View of the site at the conclusion of work for the day. OCF has been installed along the south end of the new perimeter fencing posts. Note infiltration basin grading stockpile that will be installed in the G-layer along the eastern edge of the cap (along AE-4 western edge). View looking north from area beyond south end of site.

PHOTOGRAPH LOG



Environment and Infrastructure, Inc.
7376 SW Durham Road
Portland, Oregon 97224

PROJECT NAME: Pasco Landfill Cap Project - Cap Construction Project

Project No: 4-61M-10705-1 P-02 **Date:** June 6, 2013

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Photo 1: View of the site at the beginning of work for the day. View looking to the South / SE.



Photo 2: AEC compacting NW swale area and northern edge of cap for preparation for GLC/geomembrane
View looking east from NW corner of the site. Un-compacted area needs slight grading work.

PHOTOGRAPH LOG



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PROJECT NAME: Pasco Landfill Cap Project - Cap Construction Project

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Photo 3: View of the two geomembrane rolls from original work that are accepted by geosynthetic vendor. See field notes for specs/roll number. Rolls located up on roadway near original g-layer stockpile area. View looking west.



Photo 4: AEC begins grading area beyond the SE corner of the cap in accordance with design. Note AEC roller compacting area along SE corner of g-layer cap. View looking SE from center of cap

PHOTOGRAPH LOG



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Photo 5: View of AEC grading eastern edge of the site between the EOC (edge of cap) and fence line in accordance with the design. View looking north from SE corner of the site. Note AEC laborer in background smoothing out compaction edges with rake.



Photo 6: View of AEC compaction roller nearing completion of compacting and smoothing the top of the G-layer cap. View looking NW from SE corner of the site.

PHOTOGRAPH LOG



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Photo 7: View of the ends of the 20 geosynthetic rolls (barrier between sand and topsoil layers) on delivery truck. View looking west from area near SW corner of the CAP.



Photo 8: View of 3 geomembrane rolls (new ones) and 20 geosynthetic rolls stockpiles in area just SW of the SW corner of the CAP. Note the double fence posts in background for fence gate. View looking south from the SW corner of the CAP.

PHOTOGRAPH LOG



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Photo 9: View of the completed and compacted area along the eastern side of the cap and area along the eastern fence line and NE swale area. View looking north from the SE corner of the CAP. Note the stakes in the foreground for EOC and EOL in SE corner.



Photo 10: View of the site at the conclusion of work for the day. Orange construction fence is up around the site. Note geomembrane and geosynthetic stockpiled on left side of picture next to trackhoe. G-layer is complete and prepared for GCL and geomembrane installation.

PHOTOGRAPH LOG



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PROJECT NAME: Pasco Landfill Cap Project - Cap Construction Project

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Photo 1: View of the site at the beginning of work for the day. View looking to the South / SE towards the trackhoe.



Photo 2: View of the sand (right side) and topsoil (left) stockpiles located to the west and southwest of the CAP. View looking south from NW corner of the site.

PHOTOGRAPH LOG



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Photo 3: View of the EOC and EOL stakes and orange lines showing the boundaries of the EOL. View looking north from SE corner (note eastern cyclone fencing).



Photo 4: View of the SW corner and the stakes for the EOC and EOL corners and orange marking lines for the boundaries of the EOL. View looking east from SW corner of CAP.

PHOTOGRAPH LOG



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Photo 5: View of AEC trackhoe off loading the rolls of GCL (red rolls) from the flat bed truck. View looking NW from southern end (infiltration basin area) of site.



Photo 6: View of all 13 GCL rolls, 3 new geomembrane rolls (black) and 20 geosynthetic fabric rolls (small black rolls). Note NWL crew making sand bags on right side. View looking East from SW corner of the site.

PHOTOGRAPH LOG



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Photo 7: View of the site at the end of the day. Note NWL telehandler, rolls of GCL (red), geomembrane and fabric rolls (black by trackhoe), NWL white truck and sand pile for sand bags. View looking north beyond southern infiltration basin.



Photo 8: View of the Cap from the SE corner of the Cap (SE EOC). Note the job trailer new the NW corner of the site. View looking NW from SE corner.

PHOTOGRAPH LOG



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Photo 9: View of the eastern half of the site, cap, and perimeter swale (eastern swale). View from the area beyond the northern end of the site construction fencing looking south.



Photo 10: View of the western half of the CAP, NW swale, and soil (right) and topsoil (left) stockpiles. Note geosynthetic stockpile around trackoe near the SW corner of the EOL. View looking south/SW from area north of the site.

PHOTOGRAPH LOG



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PROJECT NAME: Pasco Landfill Cap Project - Cap Construction Project

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Photo 1: View of the site at the beginning of work for the day. View looking to the South / SE towards the staged materials and NW Linings (NWL) trailer and telehandler.



Photo 2: NWL rolling out the first GCL roll with telehandler along the western Edge of Liner (EOL). GCL roll starts at the NW corner of EOL (where NWL crew is standing on it). View looking west from western edge of cap (EOC).

PHOTOGRAPH LOG



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Photo 3: View of NWL positioning to roll out the second GCL roll along the eastern edge of the first GCL roll (which is installed along the western EOL down to the SW corner - see background). View looking south from NW corner of EOL. Note roller assembly held up by telehandler.



Photo 4: View of the first two GCL rolls laid out along the western side of the EOL and CAP area. Note remaining roll of GCL on telehandler is getting ready to install it along the northern EOL. View looking north from SW corner of EOL. Note that NWL will trim up the southern EOL later.

PHOTOGRAPH LOG



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Photo 5: View of NWL installing small piece of GCL just north of the first GCL roll to finish off the western EOL. Note that NWL has cut the northern edge to match the angle of the EOL perimeter. View looking south from the northwestern EOL.

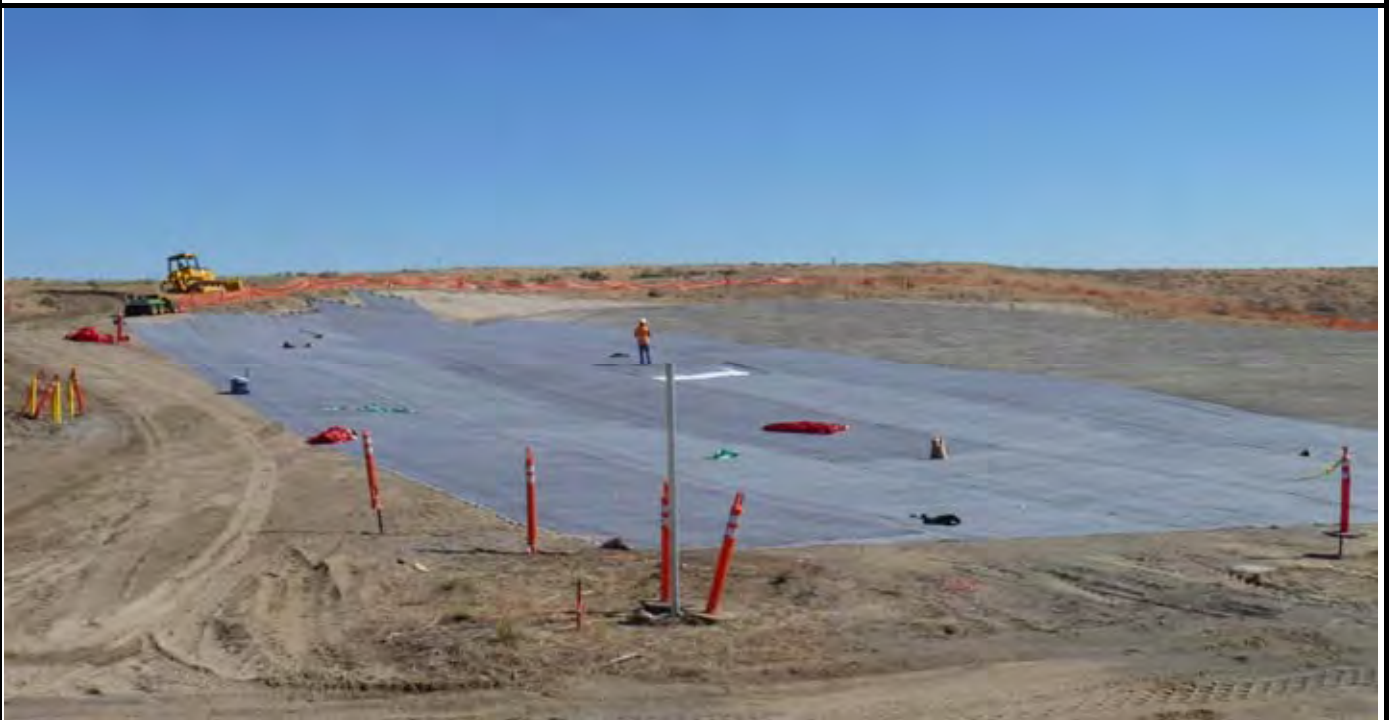


Photo 6: View of about 5 passes of GCL along the western side of the CAP. GCL covers the entire western side of the EOL and part of the western CAP. View looking North to Northeast from area SW of the SW corner of the EOL. Note corner post of the new perimeter fence.

PHOTOGRAPH LOG



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Photo 7: View of AEC trackhoe and crew off loading 14 new GCL rolls from the flatbed truck and staging them in area south/southeast of the CAP (note GCL rolls in the background that were off loaded yesterday). View looking west from area south of the SE corner of the EOL.



Photo 8: View of NWL rolling out the first pass of geomembrane over the GCL along the western edge of the EOL. Note the different roller assembly held up by the telehandler. View looking north from area near the SW corner of the EOL.

PHOTOGRAPH LOG



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Photo 9: View of the first two passes of the geomembrane (40-mil HDPE liner with microspike texture on one side). Note second liner overlaps the first. View looking south from area north of the NW corner of the EOL.



Photo 10: View of NWL worker welding the first and second pass of geomembrane together with welding machine. Note that there are three passes of geomembrane over the GCL now. View looking south from NW corner of EOL.

PHOTOGRAPH LOG



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Photo 11: View of the pressure gauge monitoring the inflated welded seam between geomembrane pass P-1 and P-2. Note pressure is about 28 psi. This weld held pressure and was approved by AMEC. View looking down at pressure gauge assembly located new the SW corner of the EOL.



Photo 12: View of NWL worker conducting air test on small section of the weld (S-2) between passes 2 and 3 (P-2/P-3). Seam S-2 failed and NWL conducted several air tests to find the leak. Leak was found on the northern end of the weld and patched by NWL. View looking south from northern end of EOL.

PHOTOGRAPH LOG



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Photo 13: View of NWL installing patch around an area of seam S-2 that was removed for testing. Note tool on left that extrudes bead of molten HDPE along the edge of the patch. Patch was vacuum tested and passed the test and seam S-2 approved. View looking west from geomembrane pass P-3.



Photo 14: View of NWL worker patching the leak area on seam S-2. Note AEC in the background is beginning to cover the geomembrane with a 1-ft thick layer of sand. See orange dashed line that shows the EOC. View looking south from northwest corner of EOL.

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Photo 15: View of EOC installing sand layer over the geomembrane along the western side of the geomembrane (only three passes of geomembrane). Note orange dashed lines (foreground = EOL and center is EOC lines) and geosynthetic fabric (geo-fabric) rolls on sand that AEC is about to roll out over top of sand. View looking south from northern edge of EOL.



Photo 16: View of NWL installing 4th pass (P-4) of the geomembrane along the eastern edge of pass P-3. View looking south from northern EOL.

PHOTOGRAPH LOG



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Photo 17: View of western side of the CAP showing NWL installing fifth pass (P-5) of geomembrane and AEC installing topsoil over orange construction fencing (OCF) visual barrier over the Geo-fabric and sand layer along the western edge of the CAP. View looking north by northwest from area south of the southern edge of the infiltration basin (area just inside the installed OCF in foreground).



Photo 18: View of the site at the end of the day. NWL has installed approximately 35% of the GCL and geomembrane. AEC has just begun covering the geomembrane with sand and topsoil layers along the western edge of the CAP. View looking north from the area south of the southern end of the site.

PHOTOGRAPH LOG



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Photo 1: View of the site at the beginning of work for the day. View looking to the South / SE towards the water truck. Note AEC crew prepping for work prior to NWL crew arriving (at 7AM) at about 6:15AM.



Photo 2: Status of the liner cover at 7AM when NWL crew arrives and begins to install more GCL rolls (see red rolls along southern edge of CAP). View looking North from area south of site.

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Photo 3: View of NWL crew cutting out destructive test sample DS-2 along seam S-4 for field testing. View looking southwest towards SW corner of CAP.



Photo 4: View of NWL crew sealing patch at location of DS-2 sample. Note AEC bulldozer laying out 1-ft thick sand layer on geomembrane panel 3. View looking SW from center of geomembrane panel 5.

PHOTOGRAPH LOG



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Photo 5: View of NWL starting to lay out rolls of GCL prior to geomembrane installation. Note geomembrane being pulled back (foreground) for GCL installation and orange dash lines (denotes EOC along NW corner of CAP). View looking south from northern EOL. Note GCL roll on telehandler on left side of picture.



Photo 6: View of field testing equipment used to test the DS samples of the seams. Note two parallel tracks testing two seam samples at the same time.

PHOTOGRAPH LOG



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Photo 7: View of the CAP after NWL has exhausted all but three rolls of GCL (left for tomorrow AM work) and is preparing to install geomembrane panels. View looking north from area south of the site.



Photo 8: View of NWL pulling last geomembrane panel of the day up to butt joint over final GCL panel. View of AEC dropping and grading topsoil (see dump truck) over OCF overlying black geo-fabric which overlies the 1-ft sand layer. View looking north from area south of the site.

PHOTOGRAPH LOG



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Photo 9: View of the CAP after NWL completes their work for the day. Note sand bags along the outer perimeter of the geomembrane. Note AEC grading topsoil over OCF/geo-fabric layer in background. AEC trackhoe loading AEC dump truck with topsoil and AEC loader moving sand. View looking SW from area NE of the site.



Photo 10: View of the site at the conclusion of work for the day. Note large sand layer over all but one exposed geomembrane panel and topsoil covering nearly all of the exposed OCF/geo-fabric (so it won't blow away). View looking north from area south of the site.

PHOTOGRAPH LOG



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Photo 1: View of the site at the beginning of work for the day. View looking north from area south of the site. Note that geomembrane and GCL layer (small sliver of GCL on eastern edge of geomembrane) are about 55% installed.



Photo 2: View of graded sand layer ready for Geo-Fabric and OCF installation before topsoil placement (see background of Geo-Fabric and OCF edge along eastern edge of topsoil layer. View looking SW from center of CAP.

PHOTOGRAPH LOG



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Photo 3: View of NWL recovering geomembrane roll #4 (one of two original rolls) from stockpile area along entry roadway. View looking north to northwest from area adjacent to job trailer (west of NW corner of CAP).



Photo 4: NWL laying out first panel from geomembrane roll #4. Note NWL using JD Gator to pull roll downhill (south) over GCL later. Note AEC laying out OCF over Geo-Fabric (center) and sand layer. View looking north from area south of the south end of site.

PHOTOGRAPH LOG



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Photo 5: View of geomembrane panel fully laid out and ready for seam welding. NWL is moving sandbags to eastern edge of geomembrane panel. AEC ready for topsoil placement over OCF layer. View looking north from area south of the site.



Photo 6: Close-up view of the patch welding machine welding an HDPE seam along patch for seam sample DS-4.

PHOTOGRAPH LOG



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Photo 7: View of AEC laying out thin sand layer over geomembrane in the NW swale area. Note orange dashed line is the EOL for NW swale. View looking SW from northern/northwestern edge of the EOL.



Photo 8: View of AEC off loading last (3rd) shipment of GCL rolls (14 rolls on truck for total of 41 rolls of GCL delivered). View looking east from area south of the southern edge of the EOL.

PHOTOGRAPH LOG



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Photo 9: View of NWL laying out geomembrane panel from northern edge of the site with telehandler and JD Gator. Note AEC in background grading and spreading sand layer near the existing eastern edge of the geomembrane. View looking south/southwest from area north of the site.



Photo 10: View of the site at the conclusion of work for the day. Note that GCL layer is about 80% done and geomembrane layer is about 75% installed. View looking north from area south of the site.

PHOTOGRAPH LOG



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Photo 1: View of the site at the beginning of work for the day. Note NWL setting up to begin rolling out GCL layer on the eastern side of the CAP. View looking north from area south of the south side of the site. Note AEC spreading and grading sand layer just to the west of NWL's workers.



Photo 2: View of NWL rolling out GCL layer on east side of CAP. Note AEC working on sand layer on the right side of the picture. View looking south from north side of the EOL.

PHOTOGRAPH LOG



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Photo 3: View of NWL rolling out last roll of GCL along the eastern edge of the CAP (EOL zone along fence). View looking south from area north of the northern OCF (see foreground).



Photo 4: NWL begins rolling out the first geomembrane panel for the day (Panel 11). Note windy conditions and GCL construction along the eastern edge of the CAP. GCL has been installed all the way to the fence line. View looking north from area just south of the SE corner of the CAP.

PHOTOGRAPH LOG



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Photo 5: View of NWL patching the seam sample DS-5. Note worker with grinder (right) roughing up new patch seam and worker welding seam (left). View looking east from geomembrane panel P-10.



Photo 6: View of NWL starting seam weld between geomembrane panels P-11 and P-12. View looking SE from northern edge of EOL. Note small yellow seam welding machine in center of picture.

PHOTOGRAPH LOG



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Photo 7: View of the installation and welding (see yellow worker in center of picture) of seam between geomembrane panels P-13 and P-14 (both panels required butt joint welding). Note that geomembrane panel P-14 is installed all the way to the fence line. View looking south from area just north of the NE corner of the EOL.



Photo 8: View of the NE corner of the completed geomembrane area (showing NE and east swale area between the EOC and EOL. Note patch for seam sample DS-6 between panels P-12 and P-13. Orange dashed line is the EOC. View looking north from center of the eastern side of the EOC.

PHOTOGRAPH LOG



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Photo 9: View of the completed geomembrane area (eastern side of CAP) and AEC spreading and grading sand layer. View looking south from area north of the northern OCF edge.



Photo 10: View of the northern and northwestern portions of the CAP. Note sand and topsoil layers (center and left) and the sand layer placed in the northern and northwestern sides of the north and northwestern swale area. View looking southwest to west from area north of the northern OCF.

PHOTOGRAPH LOG



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Photo 11: View of the NW and western swale (between EOC and EOL) with sand installed and ready for Geo-Fabric and overlying perimeter rock layer. View looking NE from area just west of the SW corner of the CAP.



Photo 12: View of the site at the conclusion of work for the day. Note completed geomembrane installation and sand (approximately 75% complete) and topsoil (approximately 60% complete) layers. View looking north from area south of the southern edge of the site.

PHOTOGRAPH LOG



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Photo 1: View of the site at the beginning of work for the day. View looking to the north from area south of the site. Note extent of topsoil layer (west edge of OCF shows it) and sand layer (see bulldozer grading it).



Photo 2: AEC managing the topsoil stockpile. Photo taken near beginning of the work day. View looking NW from area south of the site.

PHOTOGRAPH LOG



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Photo 3: View of the western side of the CAP. Note the western and NW swales have not yet been graded out with the EOC. View looking north from SW corner of the site.



Photo 4: AEC trackhoe grading out the EOC with western and NW swales with sand and topsoils. Note that the water truck has watered the roadway and top of cap to keep dust down. View looking N from SW corner of the site.

PHOTOGRAPH LOG



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Photo 5: View of the eastern edge of the CAP during mid-day. Note bulldozer grading the sand layer over the geomembrane and AEC dump truck placing topsoil piles for later grading. Note Geo-Fabric and OCF between the sand and topsoil layers. View looking north from the SE corner of the site.



Photo 6: View of the eastern edge of the CAP showing the NE swale prior to sand and grading work. Note bulldozer grading sand layer. View looking south from NE corner of the site.

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Photo 7: View of AEC personnel laying out Geo-Fabric and OCF over recently graded sand layer. View looking south/southeast from area east of the center of the CAP.



Photo 8: View of the topsoil and perimeter rock stockpiles at the end of the day. View looking northwest from area south of the site.

PHOTOGRAPH LOG



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Photo 9: View of the NW and W swale area at the end of the day with sand and topsoil grading completed and ready for perimeter rock and Geo-Fabric placement. View looking NE from western EOL.



Photo 10: View of the eastern half of the CAP and showing that the sand layer has been completed to the boundaries of the EOC (edge of CAP). Remaining work for CAP include Geo-Fabric/OCF placement and topsoil placement and grading. View looking south from area north of the site (near survey pin).

PHOTOGRAPH LOG



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Photo 11: View of the NW corner of the CAP and NW / N perimeter swale areas after completion of sand and topsoil grading work at the end of the day. Note OCF fencing has been opened for trackhoe access to place sand into swale areas. View looking SW from area north of the site.



Photo 12: View of the site at the conclusion of work for the day. Note completion of sand layer over entire EOC zone and nearly complete topsoil layer. View looking north from area south of the site.

PHOTOGRAPH LOG



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Photo 1: View of the site at the beginning of work for the day. View looking to the South / SE. Note that the NW and western EOC has been graded down into the western and northwestern swales.



Photo 2: View of the southern end of the western swale as AEC begins to install the perimeter rock. Note perimeter rock stockpile in upper right. View looking south from western EOL.

PHOTOGRAPH LOG



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Photo 3: View of AEC installing perimeter rock over the Geo-Fabric (over the sand layer) along the northern end of the western swale area. View looking south from NW corner of the EOL.



Photo 4: View of the western and northwestern swales (with perimeter rock installed) and top of the western side of the CAP after surface grading. View looking north from point just SW of the SW corner of the EOL.

PHOTOGRAPH LOG



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Photo 5: View of the eastern edge of the CAP (EOC) and northeastern and eastern swale areas (showing only the geomembrane liner with sandbags on it). View looking south from NE corner of the site. Note AEC laying out Geo-Fabric and OCF over the sand layer which extends to the EOC and adjacent topsoil layer.



Photo 6: View of the eastern half of the CAP and eastern and northeastern swales with installed sand layer over the geomembrane at the end of the day. View looking south from area just north of the site.

PHOTOGRAPH LOG



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Photo 7: View of the northern swale area as AEC grades the EOC into the swale with topsoil and sand layers. Note the Geo-Fabric and perimeter rock layer installed on NW corner of the swale. View looking west/southwest from area along the northern end of the site.



Photo 8: View of the northern swale area at the end of the day. Note that EOC grading is complete and perimeter rock has been installed beyond the swale ridge on the northern end. View looking SW from north end of the site.

PHOTOGRAPH LOG



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Photo 9: View of the entire CAP near the beginning of the day. View looking north from area south of the site.



Photo 10: View of the site at the conclusion of work for the day. Note the change in the surface grade of the top of the CAP and the work completed on the SE corner of the CAP and western swale. View looking north from area south of the site.

PHOTOGRAPH LOG



Environment and Infrastructure, Inc.
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Photo 1: View of the site at the beginning of work for the day. View looking to the south. Note the perimeter rock in the NW and western swale adjacent to the NW side of the CAP.



Photo 2: AEC grading perimeter swale sand and laying out Geo-Fabric and perimeter rock on Northeastern swale. View looking south from NE corner of the site.

PHOTOGRAPH LOG



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Photo 3: View of AEC working on the NE and eastern swales. Note loader bringing roll of Geo-Fabric to be installed over the sand layer on the eastern swale. View looking south from NE corner of the site.



Photo 4: AEC fine grading the EOC along the eastern perimeter of the CAP. Note the bulldozer has graded the perimeter sand layer and prepared it for the Geo-Fabric. View looking north from SE corner of CAP.

PHOTOGRAPH LOG



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Photo 5: View of AEC grading perimeter rock over the Geo-Fabric in the eastern swale. View looking SE from the northern end of the CAP.



Photo 6: View of the rough grading along the southern EOC to EOL and almost ready to accept perimeter rock. Note AEC equipment nearly completing eastern swale rock work. View looking east/NE from rock pile SW of the SW corner of the CAP.

PHOTOGRAPH LOG



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Photo 7: View of AEC completing the perimeter rock installation on the eastern swale and starting the perimeter rock work on the southern EOC to EOL zone. View looking north from the SE corner of the site.



Photo 8: View of AEC trackhoe installing and grading the perimeter rock along the center of the southern EOC to EOL. View looking east/NE from rock pile located SW of the SW corner of the CAP.

PHOTOGRAPH LOG



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Photo 9: View of the site at the conclusion of the work day. Note the northern and eastern perimeter swales are completed and the top of the CAP is rough graded and ready for final grading on Monday. View looking south from area north of the site.



Photo 10: View of the site at the conclusion of work for the day. Note the perimeter rock is installed along the southern EOC to EOL and the CAP is rough graded and ready for final finish grading on Monday and for QC survey on Monday. View looking north from area south of the site.

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Photo 1: View of the site at the beginning of the day. Note the erosion protection rock stockpile (right edge of photo) and lack of fence posts. View looking south from NW corner of the CAP.



Photo 2: View of AEC placing erosion protection rock and watering along the southern EOL / Cap. View looking NE from area SW of the CAP.

PHOTOGRAPH LOG



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Photo 3: View of AEC grading EOC to EOL area on the SW corner of the CAP and placing rock with loader in the background. View looking north on western half of the CAP from area SW of the CAP.



Photo 4: View of AEC finish grading the erosion protection rock roadway access point on the northern end of the EOC to EOL area. View looking east from NW corner of the CAP.

PHOTOGRAPH LOG



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Photo 5: View of DSE conducting the quality control survey of the final CAP grading. View looking NE from western side of the CAP area.



Photo 6: View of AEC loading out the remaining debris from the site during the DSE quality control survey work. View of area west of the CAP from area SW of the CAP.

PHOTOGRAPH LOG



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Photo 7: View of the fence posts staged along the northern side of the CAP zone perimeter. View looking east from the NW corner of the CAP perimeter.



Photo 8: View of the fence posts installed along the northern edge of the CAP perimeter. View looking east to SE from area NW of the CAP perimeter. Note the fencing rolls are not staged for installation.

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Photo 9: View of Rick's Custom Fencing using a pneumatic hammer (see green compressor in background) to install the majority of the fence posts. Corner posts were installed with concrete early in the project with larger posts. View looking south from NW corner of the CAP.



Photo 10: View of the site near the end of the work day. View looking north from area south of the site. Note Rick's Custom Fencing crew trucks, posts, and equipment.

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Photo 1: View of the site at the beginning of the work day. Note that many of the fence posts have not yet been installed on the western side of the CAP perimeter. View looking south from NW corner of the CAP.



Photo 2: View of AEC moving the towable compressor for Rick's Custom Fencing to the western perimeter of the CAP so they can use it to install the fence posts. View looking east from the western side of the CAP.

PHOTOGRAPH LOG



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Photo 3: View of the western side of the CAP prior to installation of the fencing posts. Note the towable compressor near the monitoring well. View looking north/northeast from SW corner of the CAP.



Photo 4: View of Rick's Custom Fencing installing the top bar and barb wire mounts along the western perimeter fence. View looking south from NW corner of the CAP.

PHOTOGRAPH LOG



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Photo 5: View of AEC using the bulldozer to complete finish grading and smoothing of the perimeter erosion rock and Rick's custom fencing installing the top bar and bar wire mounts to posts along the western perimeter of the CAP. View looking southwest from area north of the site.



Photo 6: View of the western perimeter fencing with the posts, top bar, and barb wire mounts installed. View looking south from NW corner of the CAP.

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Photo 7: View of Rick's Custom Fencing beginning the installation of the first couple rolls of cyclone fencing material. Note the winch and spreader bar pulling the fencing to the post. View of area along SE corner of the CAP looking to the North/Northwest.



Photo 8: View of the entire site near the end of the working day from area south of the site. Note that fencing work is underway with rolls staged around fence perimeter.

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Photo 1: View of the hydroseeding truck (Wildlands, Inc.) along the southern side of the CAP just prior to them commencing with hydroseeding work. View of the southern edge of the CAP (EOL) from SW corner of the CAP.



Photo 2: View of Wildlands hydroseeding the eastern half of the CAP surface from the eastern perimeter access road (erosion protection rock road). View of the eastern half of CAP from SE corner of the CAP.

PHOTOGRAPH LOG



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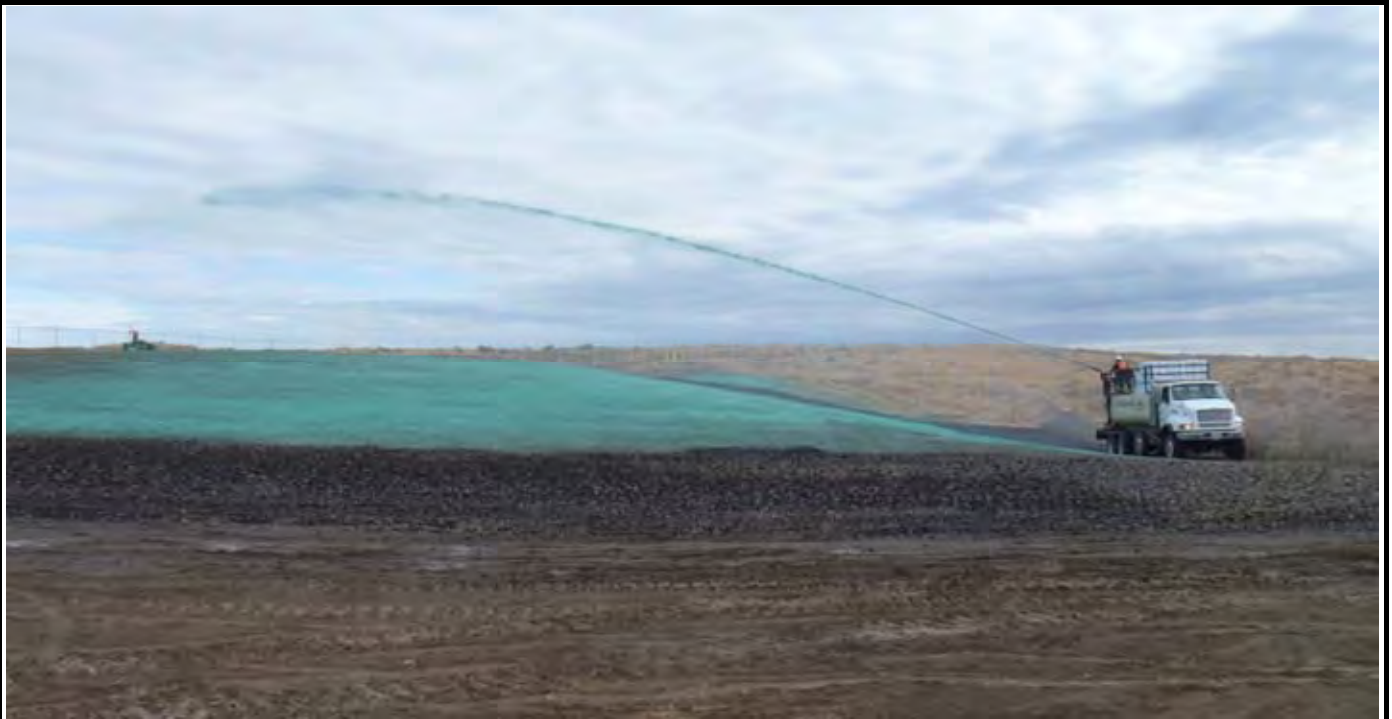


Photo 3: View of Wildlands hydroseeding the eastern half of the CAP surface from the eastern perimeter access road (erosion protection rock road). View of the eastern half of CAP from infiltration basin.



Photo 4: View of Wildlands hydroseeding the eastern half of the CAP surface from the eastern perimeter access road (erosion protection rock road). View of the entire CAP from area south of the site.

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Photo 5: View of Wildlands hydroseeding the SW corner of the CAP. Note water truck and bulldozer on right side. View of the western half of the CAP from area south of the site. Note fencing is staged for installation.



Photo 6: View of Wildlands completing the hydroseeding of the western half of the CAP from the western perimeter access road. View of the site from area south of the site.

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Photo 7: View of AEC using bulldozer to plow the infiltration basin area to break up the surface soils to allow for easier infiltration of precipitation. View of the southern side of the CAP from area south of the site.



Photo 8: View of Rick's Custom Fencing (RCF) crew installing perimeter fencing components. Note the rolls of fencing materials staged along the perimeter. View of the western side of the CAP from area south of the site.

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Photo 9: View of the west and southwestern side of the CAP where RCF is installing the fencing on the posts. View of the western side of the CAP from area south of the site.



Photo 10: View of the site at the conclusion of work for the day. Note the perimeter fencing is up (no gates or barb wire yet) and hydroseeding work has been completed by Wildlands. View looking north from area south of the site.

PHOTOGRAPH LOG



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Photo 1: View of the site from the western edge of Zone B. Note the completed hydroseeding and perimeter fencing. View of the CAP from west of the CAP.



Photo 2: View of the southern portion of the CAP area and disturbed area SW of the perimeter fencing. Note that hydroseeding has been applied to the areas of disturbed soils. View looking east to southeast from west.

PHOTOGRAPH LOG



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Photo 3: View of typical irrigation sprinkler head and stabilizing bars. Many of these heads were installed across the CAP surface to help establish the vegetation layer.



Photo 4: View of the completed perimeter fencing access double swing gate and roadway into the CAP. This work was completed by Rick's Custom Fencing. View looking NE from the SW corner of the CAP.

PHOTOGRAPH LOG



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Photo 5: View of the completed CAP, perimeter fencing, hydroseeding, and irrigation system (currently installed in the picture). View of the CAP from area NE of the CAP.



Photo 6: View of the completed CAP, perimeter fencing, hydroseeding, and irrigation system (currently installed in the picture). View of the CAP from area south of the CAP. Note that the yellow container has been moved back inside the CAP perimeter fencing.

PHOTOGRAPH LOG



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Photo 7: View of the completed CAP and perimeter fencing and hydroseeding on the CAP and surrounding areas that were disturbed during the CAP construction. This is an aerial photograph taken in the sky southeast of the landfill.



Photo 8: View of the southern portions of the former Pasco Landfill property. Zone B is visible in the upper left side of the photograph (see light green coloring). Aerial photograph was taken in sky northwest of the landfill.