



NEW BEDFORD REGIONAL AIRPORT
RUNWAY 5-23 – PHASE 4

Reconstruct, Mark and Grove

Weekly Environmental Report

WEEK 3

2014 May 12-16

May 12, 2014

Observer: Joe Rogers

Time: 7:00 AM – 5:00 PM

Today's weather: Mostly Sunny, High 70's, 5 – 20 mph winds

Observed Conditions

1. Shrubs along the West Ditch bank stabilization area that were affected by silt fence installation last month were thoroughly inspected. Dead shoots and broken limbs were trimmed to above the closest bud. Of the 55 affected shrubs, 53 showed good signs of growth. Two were determined to be dead, one of which was likely dead before the disturbance took place. Fourteen of the 53 shrubs showed a higher degree of stress and were just beginning to bud. The shrubs will be monitored on a regular basis until they become established.
2. Excavation of areas of unsuitable fill continued in the area of the Taxiway A extension. Two large areas of peat were found under the top layers of loam. The area will be excavated, lined with geotextile and filled with crushed stone before being brought up to grade.
3. The old storm drain pipe was removed along both sides of Runway 5.
4. The top layer of asphalt covering the concrete at the end of Runway 23 was stripped and piled for removal.
5. Grinding and mixing of the remaining asphalt continued on Runway 23.
6. Stripping and windrowing of loam continued along the south end of Runway 23.
7. A water truck was used frequently throughout the day to keep dust down in the work site and on the haul roads.
8. Hay bales were delivered and staked along a portion of the previously fenced ILS road.



Compliance Issues

1. Shrubs along the West Ditch stream bank restoration area were inspected for their health per the area's restoration plan – COMPLETED.
2. A gap in the temporary turtle barrier blocking the end of the ILS road was closed – COMPLETED.

May 13, 2014

Observer: Joe Rogers

Time: 7:00 AM – 5:00 PM

Today's weather: Partly Sunny, Mid 50's, 5 – 20 mph winds

Observed Conditions

1. Excavation of unsuitable fill, mostly peat, continued in the area where the Taxiway A extension will be placed.
2. A stilling well was installed at the far end of the area containing "unsuitable" fill. A trench was dug to direct standing water toward the gravel back-filled well.
3. Loam was stripped adjacent to the north and south sides of Runway 23. This work was completed and the material is windrowed. Stripping of loam along the south side of the runway on the opposite side of the windrow was started.
4. An issue that caused a silt fence breach identified in last week's report was addressed. An old silt fence scar across the end of Runway 23 appears to be acting as a channel for runoff, which overwhelmed the old infiltration trench. The breach in both the silt fence and the infiltration trench wall were repaired.
5. Water was pumped from the stilling well into a temporary cistern separator before draining out through 100' of hose into the runway fill.
6. Once an acceptable base was reached in the area of unusable fill, geofabric was laid down and then backfilled with at least 3 feet of crushed stone. This area was then compacted and brought up to grade with clean fill.
7. Sweeping of Shawmut Ave. to be done daily

Compliance Issues

1. Numerous plastic straps from the silt fence installation were collected while walking the silt fence perimeter around Runway 23. They were disposed of properly. – COMPLETED.
2. A blow-out on the north side of Runway 23 that was identified in last week's report was repaired along with its root cause.– COMPLETED.
3. Trucks leaving the A-1 Property on Shawmut Ave were tracking a lot of dirt today toward the New Plainville Road intersection. The gate guard was notified and the sweeper was used. – COMPLETED.



May 14, 2014

Observer: Randall Shuey

Time: 7:00 AM – 5:00 PM

Today's weather: Mostly Sunny, High 65, 5 – 20 mph winds

Observed Conditions

1. Excavation of unsuitable fill, mostly peat, continued in the area where the Taxiway A extension
2. Monitored dewatering to ensure no discharge off construction site.
3. Stripping loam 23 end runway.
4. Water truck working full time both in dust control and compaction
5. Removal of old drainage system continues. Some work done up to perimeter controls. All areas backfilled before end of day. Areas close to perimeter controls were mulched as soon as work was completed.

Compliance Issues

1. None

May 15, 2014

Observer: Randall Shuey

Time: 7:00 AM – 5:00 PM

Today's weather: Mostly Sunny, High 75, 15 – 20 mph winds

Observed Conditions

1. Excavation of unsuitable fill continued in the area where the Taxiway A extension
2. Monitored dewatering to ensure no discharge off construction site.
3. Stripping loam 23 end runway.
4. Water truck working full time both in dust control and compaction
5. Removal of old drainage system continues. Some work done up to perimeter controls. All areas backfilled before end of day. Areas close to perimeter controls were mulched as soon as work was completed.
6. Weekly site inspection with Sarah Porter, City of New Bedford Conservation Commission.
7. Discussion with EM and Sarah Porter regarding new work on 23 end, stripping loam and excavating that will disturb existing infiltration swale that discharges to wetland. Plan to be developed and implemented by end day Friday to ensure no discharge from expected rain event over weekend.
8. Reviewed and laid out revised proposed turtle barrier / silt fence by Colonial hanger. ASG resident engineer approved relocation need to schedule RAMCO
9. Repaired small breach in silt fence identified by GZA along access road silt fence.



Compliance Issues

1. None

May 16, 2014

Observer: Randall Shuey

Time: 7:00 AM – 5:00 PM

Today's weather: Mostly Sunny, High 70's, 10-20 mph winds with higher gusts

Observed Conditions

1. Impemented restoration plan for silt fence issue along West Ditch.
 - a. Removed hay mulch
 - b. Removed large stones
 - c. Regraded and flattened disturbed areas
 - d. Seeded area with 2 LB of New England Wetland Plants Plants Seed Erosion Control Seed Mix for Detention Basins and Moist Sites.
 - e. Replaced hay mulch over all exposed soils
 - f. Watered area with water truck to mat down hay to prevent blowing.
2. Excavation of unsuitable fill completed, dewatering ceased.
3. Trucking in of final grade material for runway.
4. Removal of stockpiled unsuitable material that was stockpiled on site because it was too wet to truck off site previously.
5. Removal of topsoil from 23 end of runway extension.
6. To protect infiltration swale below 23 runway extension area, ETL construct a berm and shallow sediment trap at the current limit of disturbance to prevent runoff from small level area from entering swale.
7. ETL adding loam to pile at end of Runway 5

Compliance Issues

1. None

Action Items

1. Replace upper row of silt fence along access road as requested by Epsilon and approved by ASG. Need to verify in writing approval by ASG. This is approximately 390 feet of fencing east of the West Ditch.
2. Install additional turtle barrier along Colonial hanger.
3. Reposition end turtle barrier on south side of west ditch culvert to terminate at allen block wall.
4. Awaiting approval of restoration plan for west ditch silt fence issue by MADEP



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5. Awaiting approval of change to filter sock on ILS road for logging operation – MADEP
6. Review status and quantities of adequate erosion control BMPs stock piled on site with ETL for compliance with Spec P-156-3.5 CONSTRUCTION DETAILS



Photo 1: Shrubs on slope adjacent to the west ditch were inspected and dead and damaged branches were removed.

Photo 2: below – old concrete pipe drainage was removed along runway 5 through the entire week.





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Photo 3: (left) View of excavation of unsuitable materials on new Taxiway A area of 5 End. Dewatering to a stilling basin and discharge to uplands occurred as needed.

Photo 4 (below): View of repaired silt fence with hay bales added on 23 End RSA. This area received concentrated flow from above with velocities sufficient to bypass infiltration trench in foreground. Back berm of infiltration trench repaired by hand.





Photo 5 – View of excavation of unsuitable material. Once depth is reached, geo-textile fabric is installed and 3 feet of 6” minus stone is placed in excavation.



Photo 6 – Stripping loam at 23 End of runway. Infiltration swale is at right of photo.



Photo 7 - During weekly site tour, GZA identified a short section of improperly toed silt fence along west ditch. No evidence of a breach at this location. Section was immediately repaired.



Photo 8 – Removal of rocks along access road slope



Photo 9 – Removal of existing hay mulch in preparation of seeding and smoothing.



Photo 10: Smoothing of slope with flat part of bucket, used as needed with continuous monitoring.



Photo 11 – View of restoration area after seeding and hay mulch reapplied.



Photo 12 – View of completed excavation of un-suitable material on Taxiway A – dewatering ceased.