

October 14, 2015

Mr. Joseph T. Martella, II  
Rhode Island Department of Environmental Management  
Office of Waste Management  
235 Promenade Street  
Providence, RI 02908-5767



**Re: Status Report: September 2015 Remedial Action Work Plan (RAWP) Activities**

Former Gorham Manufacturing Facility  
333 Adelaide Avenue, Providence, RI  
File No.: SR-28-0549D

Dear Joe:

Amec Foster Wheeler Environment and Infrastructure, Inc. (Amec Foster Wheeler) on behalf of Textron Inc. (Textron) has prepared this monthly status report on the remediation activities conducted under the Phase II, Phase III, and Parcel C Remedial Action Work Plan (RAWP) at the former Gorham Manufacturing Facility at 333 Adelaide Avenue, Providence, Rhode Island (Figure 1).

This third monthly status report describes the remedial and monitoring activities conducted at the Site through September 30, 2015 by Amec Foster Wheeler and Textron's contractor Charter.

**REMEDIAL ACTION WORK PLAN ACTIVITIES**

During September 2015, the following activities were conducted:

Parcel C

- ▶ Charter's subcontractor, Tree Tech, completed the clearing of brush and trees on Parcel C. The trees were logged and the brush and branches chipped and spread on site as a thin layer and mixed with the subgrade material. Stumps were stockpiled, and samples were collected to support their off-site disposal by Clean Harbors at a permitted facility.
- ▶ Charter spread and crushed the former debris pile previously located in the middle of Parcel C.
- ▶ Charter continued grading and compacting the Parcel C subgrade material using a vibratory roller. Only the static roller could be used during school hours as the vibrations were disturbing the students and teachers. The vibratory roller was then used after school hours. Compaction testing was conducted on the subgrade material to confirm this met the contract requirements.
- ▶ Charter completed digging the storm water drainage features, placed orange marker fabric within the three features, and began backfilling the features with imported fill. Charter continues to provide the analytical data and grain size analysis for common borrow and loam for every 500 cy of soil being imported to Parcel C for construction of the soil cap over the marker fabric. This data continues to meet RDEC.

- ▶ A drainage swale was constructed along the northeastern side of Parcel C, adjacent to the high school directing storm water runoff into the NE drainage feature. Five feet of clean imported fill extends above the marker fabric at finish grade for the three drainage features (NE, NW and SW corners of Parcel C). On September 29, these drainage features and the northern half of Parcel C were ready for hydroseeding on October 1, 2015.
- ▶ Charter was working to complete the installation, grading and compaction of the common borrow over the orange marker fabric in the southern portions of Parcel C, not including the truck tire pad. This will be removed once the Parcel C is completed and hydroseeded.
- ▶ On September 30, 2015 a major rain event impacted the Parcel C surface prior to hydroseeding. This caused extensive washout of the loam surface washing the soil into the drainage features. Charter worked through October 3, 2015 to restore these areas in preparation for hydroseeding October 5, 2015.
- ▶ Note that the finished grade of the northern upland portion of Parcel C (80 feet south of the drainage features) is approximately 1-foot below proposed finished grade due to a limited volume of subgrade soil on Parcel C. This area was graded from the upland into the completed drainage features at less than a 3:1 slope.
- ▶ Charter's subcontractor Drillex decommissioned ten (10) monitoring wells per the scope of work. These wells included: MW-B, MW-C, MW-FD, MW-111D, MW-235D, MW-236D, MW-237D, MW-239, MW-240 and MW-242. These were grouted in place and the risers cut off below grade. Well abandonment logs are being prepared by Drillex and will be included within the Remedial Action Closure Report.
- ▶ Charter and Amec developed a traffic safety plan with the high school principal to manage or restrict truck traffic during the morning arrival and afternoon release periods for student and parent safety. Traffic signs were installed and orange safety cones installed placed each day that school was open. Amec and Charter personnel were also stationed at the school and at the entrance to the property to manage the trucks. This plan was modified to allow trucks to be escorted by Amec personnel into the Parcel C gate during morning arrival hours. No truck traffic was allowed during afternoon release. Issues with truck traffic occurred one afternoon on September 15, 2015 as the drivers bringing the imported material into Parcel C drove through the traffic instead of being staged in the parking lot until the afternoon release was over. This was quickly resolved with the truck transport company and the high school. There have been no further issues with the truck traffic into Parcel C.
- ▶ Charter is nearly complete with the Parcel C construction so that they can close this gate and eliminate further truck traffic past the high school.

### Mashapaug Inner Cove

- ▶ Charter provided a revised construction schedule on September 22, 2015 following the vandalism and restoration of the Inner Cove for sediment removal (Attachment A).
- ▶ Charter repaired the damage to the Port-A-Dam (August 28, 2015) and used two, six-inch pumps to remove water from the Inner Cove pumping the water to the space between the turbidity curtain and the Port-A-Dam. Some wildlife found within the Inner Cove were

relocated by hand net outside the Port-A-Dam. Due to the soft sediment material present in the middle of the cove, this area was inaccessible and Charter was not able to relocate all aquatic life.

- ▶ Charter re-installed sumps within the Inner Cove and continued to pump water to the frac tank, and from the frac tank to the infiltration gallery to restore the cove for sediment removal.
- ▶ Charter rebuilt the timber mat roads within the Inner Cove and restarted sediment removal on September 10, 2015. Charter completed the sediment removal from the Inner Cove September 25, 2015 pending the removal of the temporary timber mat access roads being used for backfilling the bottom of the Inner Cove.
- ▶ Charter has removed approximately 4,300 cubic yards (cy) sediment to date from the Inner Cove.
- ▶ Sediment is currently stockpiled in the former Carriage House Area and has recently been temporarily stockpiled in the northeast corner of the Phase III Area after it is dried. This will be consolidated pending mixing and placing/compacting in lifts within the former Carriage House Area.
- ▶ 10% organic soil was imported to the Phase III Area and brought down to the Inner Cove for backfill within the southern and eastern sides of the Inner Cove where sediment removal was complete. Higher organic material (20%) will be imported and placed along the shoreline.
- ▶ Charter scraped silt from the infiltration gallery surface approximately every two weeks to improve the infiltration from the construction dewatering operations. This material was pulled up onto the side slopes surrounding the infiltration gallery and will later be spread on the Phase III Area and capped.

### Phase III Area

- ▶ Clean Harbors removed one roll-off of burnt wood debris from the Phase III Area for off-site disposal at a permitted facility based on the waste characterization results.
- ▶ Charter spread some chipped branches from the Phase III Area over the Phase III Area in a thin layer of no more than one inch. The wood chips will be mixed into the surface of the subgrade soil to help reduce the potential dust before the subgrade is covered with the marker fabric and the one foot of clean imported soil.

### Perimeter Air Monitoring

- ▶ Amec setup the four (4) perimeter air monitoring stations in the “B” positions as depicted on Fixed Air Perimeter Air Monitoring Locations (Attachment B). Additional wetting of the soil on the access road into the cove and across Parcel C was completed to manage the dust from the equipment. Air monitoring results of the previous week, along with 2-weeks of planned upcoming work were posted to the notification board.
- ▶ The Time Weighted Average (TWA) dust monitoring concentrations measured at the four fixed stations on the perimeter, and hand held dust monitoring concentrations measures in the work areas were all below 0.150 mg/m<sup>3</sup> limit.

- ▶ Brief exceedances of the action level were often related to the trucks delivering imported soil to the site and the grading and compacting of the soil cap on Parcel C. These were addressed by the water truck spraying Parcel C and the access road down to the Inner Cove prior to the student arrival beginning at 7:15 am and before their afternoon release and regularly scheduled passes across the site by the water truck.
- ▶ Several of the meters did exceed the action level for a few minutes when first started. These quickly stabilized or the meter(s) were recalibrated.
- ▶ The B-3 meter (Amtrak gate) was monitoring the dust, but did not record the data on September 1, 3 and 4, 2015. Amec worked with the equipment vendor to fix this meter during this period. There were no email notifications of exceedances of the 0.150 mg/m<sup>3</sup> limit (measured every minute). This unit was replaced on September 8, 2015 with a new unit.
- ▶ Meter B-2 (gate at the west end of the retail building) had a sustained exceedance of the 0.150 mg/m<sup>3</sup> limit on September 17 and 18, 2015 from 7:33 to 8:15 am and 7:03 and 8:12 am, respectively. Meter B-3 (Amtrak gate) had a similar exceedance on September 18, 2015 from 7:08 to 7:23 am. There were no exceedances at B-4, the upgradient meter (northwest corner Phase III Area). The exceedances at B-2 and B-3 were investigated with hand held meter and PID. No source of dust could readily be identified. The only activity being conducted in this area was the removal of the wet sediment from the Inner Cove and the transfer of the sediment by the rock truck to the drying area. The water truck did make several passes along the access road from the Amtrak gate down to the Inner Cove. The instruments were recalibrated and there were no more exceedances with these meters for the remainder of September 17 and 18, 2015.
- ▶ On September 21, 2015 meter B-3 (Amtrak gate) experienced a device error and would not record data. This was corrected in the field. All other monitors were working on that day.

#### Other

- ▶ Arrow Security continues w/ overnight security- no issues documented. They will continue overnight and weekend security until the Port-A-Dam is removed and the Inner Cove restoration is completed.
- ▶ Amtrak representatives have periodically been on site to inspect the area and make sure that the tarp is properly secured over the drying sediment within the former Carriage House Area.

#### Inspection of the Outfall Structure

Weekly inspection of the Mashapaug Pond Outfall Structure by Amec Foster Wheeler continued, with the most recent inspection conducted on September 28, 2015. The water depth in the outfall structure was measured to be 4.5 inches. The trash gate on the outfall pipe was clear of debris so the pond could readily drain maintaining a low water level for the Inner Cove work.

## FUTURE ACTIVITIES

A construction schedule dated September 21, 2015, prepared by Charter, has been included in this submittal. Amec Foster Wheeler will continue to provide weekly updates of the construction activities, air monitoring results and planned construction activities on a weekly basis.

If you have any questions regarding this report or require additional information, please contact Greg Simpson at Textron (401) 457-2635 or me at (978) 392-5327.

Sincerely,



David E. Heislein  
Senior Project Manager



Annette R. McLean  
Project Scientist

### Enclosures:

- Attachment A – Revised Construction Schedule dated September 22, 2015
- Attachment B – Air Monitoring Station Locations

cc: Greg Simpson, Textron (electronic)  
Bob Azar, Providence Redevelopment Agency (electronic)  
Mike Elliot, USACE (electronic)

## **Attachment A**

### **Revised Construction Schedule Dated September 22, 2015**

**Schedule Update 9.22.15**  
**Textron - Former Gorham Manufacturing Site**  
**Providence, RI**

ID	Task Name	Duration	% Complete	Start	Finish	June 1		July 1		August 1		September 1		October 1		November 1		December 1	
						5/24	6/7	6/21	7/5	7/19	8/2	8/16	8/30	9/13	9/27	10/11	10/25	11/8	11/22
1	AWARD	0.88 days	100%	Fri 6/12/15	Fri 6/12/15														
2	PREPARE & SUBMIT SUBMITTALS	66.13 days	85%	Tue 6/23/15	Mon 9/28/15														
3	REVIEW & APPROVE SUBMITTALS	62 days	85%	Wed 7/1/15	Fri 10/2/15														
4	MOBILIZE TO SITE (7/13/2015)	4.88 days	100%	Mon 7/13/15	Fri 7/17/15														
5	PARCEL C	50 days	71%	Mon 7/27/15	Mon 10/5/15														
6	R & D FENCE / INSTALL SCREENING	2.88 days	100%	Wed 7/29/15	Fri 7/31/15														
7	CLEAR & GRUB	4.88 days	100%	Wed 8/12/15	Tue 8/18/15														
8	EROSION CONTROL	0 days	100%	Mon 7/27/15	Mon 7/27/15														
9	GENERAL CLEAN UP	0.88 days	100%	Mon 8/17/15	Mon 8/17/15														
10	CUTS TO FILLS / ROUGH GRADE	16.88 days	100%	Tue 8/18/15	Thu 9/10/15														
11	F & I COMMON BORROW	14 days	90%	Thu 9/10/15	Wed 9/30/15														
12	F & I TOPSOIL	10.88 days	25%	Fri 9/18/15	Fri 10/2/15														
13	SEEDING	7 days	0%	Fri 9/25/15	Mon 10/5/15														
14	INNER COVE	77 days	44%	Wed 7/15/15	Mon 11/2/15														
15	CLEAR & GRUB	7 days	100%	Wed 7/15/15	Tue 7/28/15														
16	EROSION CONTROL	0 days	100%	Mon 7/27/15	Mon 7/27/15														
17	CONSTRUCT HAUL ROAD	1.88 days	100%	Tue 7/28/15	Wed 7/29/15														
18	WILDLIFE MITIGATION	0.88 days	100%	Thu 8/6/15	Thu 8/6/15														
19	INSTALL PORTADAM	2.88 days	100%	Tue 8/4/15	Thu 8/6/15														
20	SET UP DECANTING / DEWATERING	2.88 days	100%	Fri 7/31/15	Tue 8/4/15														
21	DEWATER POND	2 days	100%	Wed 8/5/15	Mon 8/10/15														
22	SEDIMENT REMOVAL	45 days	60%	Fri 8/14/15	Mon 10/19/15														
23	10% ORGANIC PLACEMENT	29.88 days	10%	Thu 9/10/15	Thu 10/22/15														
24	20% ORGANIC PLACEMENT	2 days	0%	Tue 10/6/15	Wed 10/7/15														
25	SEDIMENT DECANTING	45.88 days	59%	Fri 8/14/15	Tue 10/20/15														
26	SEDIMENT PLACEMENT (ONSITE)	20 days	0%	Mon 10/5/15	Mon 11/2/15														
27	FLOOD COVE	1 day	0%	Thu 10/22/15	Fri 10/23/15														
28	PORTADAM REMOVAL	2 days	0%	Fri 10/23/15	Tue 10/27/15														
29	WETLAND PLANTINGS	5 days	0%	Thu 10/8/15	Thu 10/15/15														
30	PHASE 3	86.88 days	9%	Mon 7/20/15	Fri 11/20/15														
31	CLEAR & GRUB	3 days	50%	Mon 7/20/15	Tue 10/13/15														
32	EROSION CONTROL	0 days	100%	Mon 7/27/15	Mon 7/27/15														
33	GENERAL CLEAN UP	1 day	100%	Mon 7/27/15	Tue 7/28/15														
34	CUTS TO FILLS / ROUGH GRADE	9 days	0%	Tue 10/20/15	Mon 11/2/15														
35	F & I COMMON BORROW	5 days	0%	Mon 11/2/15	Mon 11/9/15														
36	20% ORGANIC PLACEMENT	2 days	0%	Mon 11/2/15	Wed 11/4/15														
37	F & I TOPSOIL	5 days	0%	Mon 11/9/15	Tue 11/17/15														
38	SEEDING	3 days	0%	Tue 11/17/15	Fri 11/20/15														
39	SUBSTANTIAL COMPLETION (11/10/2015)	0 days	0%	Fri 11/20/15	Fri 11/20/15														
40	CLEAN UP / PUNCHLIST / DEMOB	5 days	0%	Fri 11/20/15	Tue 12/1/15														
41	FINAL COMPLETION (11/24/2015)	0 days	0%	Tue 12/1/15	Tue 12/1/15														

## **Attachment B**

### **Air Monitoring Station Locations**



Document: P:\old\_wakefield\_data\projects\TEXTORNGORHAM\GIS\MapDocuments\RAWP - Phase III\SitePlan.mxd PDF: P:\BOS\Texton\365214\0032 - Texton Gorham Remediation\8.0 Proj Deliverables\8.2 Work Plans\Figure 2 - Site Plan.pdf



**A1, B1, C1**

**Perimeter Air Monitoring Locations Sequenced with the Construction Work**

**Legend**

- Approximate Parcel Boundary
- Former Slag Area

Note: 2011 Ortho photo obtained from Rhode Island Geographic Information System (RIGIS)

Prepared/Date: **CEJ A 06 15**  
 Checked/Date: **DEH 6/25/15**

Former Gorham Manufacturing Site  
 333 Adelaide Avenue  
 Providence, RI



**Perimeter Air Monitoring Locations**

Project 3652-14-0032 Figure F