

MEMORANDUM

To: MRC Board of Directors
From: George Aronson, Principal, CRMC
RE: Hampden Facility Commissioning Plan
Date: 13 February 2019

This memorandum summarizes the Commissioning Plan (the Plan) that Coastal Resources of Maine, LLC (Coastal) prepared regarding the completion, testing and achievement of commercial operation of their advanced recycling facility in Hampden, Maine (the Facility). Note that the Plan itself is considered a confidential document containing proprietary information. This memo provides information that has been released as public in other contexts or that Coastal has consented to allow to be presented to the MRC Board in a public setting.

Generally, the schedules provided in the Plan are consistent with what Coastal has presented to the MRC for the last few months. MRF commissioning will start in March. Processing of single-sort recyclables (SSRs) and MSW will start by April and ramp up through May and June. The Performance Test to meet the requirement in Section 7 of the Site Lease is scheduled for mid-June. Full completion and signoff by investors are scheduled for late July or early August.

The Plan provides additional detail on the following stages of activity leading up to commercial operation:

- **The utilities turnover and pre-commissioning phase.** In this phase, systems for providing utility services to the Facility will be completed and ready to perform; the truck scale, odor control and other essential supporting systems will be ready to enter service; and the Facility will acquire an interim occupancy permit.
- **The commissioning of the MRF.** This stage will involve testing of the front-end recycling equipment provided by CP Manufacturing in two phases: first without feeding materials to the equipment, then with feeding first of SSRs, then MSW. Feed rates would be on a start/stop basis initially, then gradually ramp up and become more stable. The plastics briquetter (not provided by CP Manufacturing) would be commissioned and tested in this stage.
- **The commissioning of the wet-end,** including pulping and washing equipment, operation of the fines processing unit, and low-level wastewater treatment and bio-gas production. The objective would be to achieve stable steady-state operation and at least 50 percent diversion of incoming MSW. For the purposes of the Site Lease, the Commercial Operation Date would occur when the Facility has demonstrated the capability to divert 50 percent of incoming MSW over a three-day test period, even with the anaerobic digester and other systems not yet on-line or operating below full capacity.
- **Ramp-up to full operation** of the anaerobic digestion system, full plant integration and optimization of operations. The Plan also identifies specific testing requirements and performance standards for the MRF, the wet end and the Facility as a whole after the AD element has ramped up. The final tests of the Facility would involve a 7-day measured performance test and a 28-day period during which performance would be monitored to confirm it can be sustained on an ongoing basis.