

## APPENDIX J


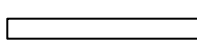
### RETURN THE TIDES PROJECT: Tidal Crossing Data Sheet- Phase II

**REFER TO INSTRUCTION SHEET FOR DETAILED INSTRUCTIONS**

Location <span style="float: right;">(copy from Phase I data sheet)</span>			
Map Reference Number		Unique number:	
Town			
Water Body/Stream Name			
Street			
Landmark/Location Description			

Field visit Information	
Date/time/volunteer name(s)	
Weather (circle applicable terms)	Sunny    Partly Cloudy    Overcast    Rain
Tide (from tide table)	High                      Low:

Water Levels : Time (Hours: Minutes)	Measure approx every 2 Height Upstream (Inches)	hours Height Downstream (Inches)

Sketch of Reference Points in Relation to Site
<div style="display: flex; align-items: center; gap: 20px;"> <div style="text-align: center;">  <p>North</p> </div> <div style="text-align: center;"> <p>1" = 100'</p>  <p>approximate scale (feet)</p> </div> </div>

**General Notes (continue on back):**

## **Casco Bay Return the Tides Instructions for Tidal Crossing Data Sheet, Phase II**

Phase II is a detailed measurement of the tidal heights at crossings that the Part I assessment indicated to be apparently restrictive. It is important to get a set of measurements spread over 12 hours so, in order to do all the measurements in daylight you will need to start about 7 AM!

**Field equipment:** Phase 2 data sheet with site info, location map, Phase 1 data sheet, Return the Tides Fact sheets, clip board, sharp pencils, weighted tape measure, yardstick, bug juice, sturdy shoes

**DETAILED INSTRUCTIONS FOR COMPLETING DATA SHEETS** (see sample attached):

**Location:** If necessary, insert Map Reference Number, Town name and Water body/stream names from Part 1 data sheet, also insert Field visit information, note unusual weather conditions such as storm, heavy rain, or strong wind which might affect water level.

**Determining Reference Points:** Unless reference points have been pre marked, reference points need to be defined on both the upstream and the downstream side of the bridge or culvert. The reference points should be chosen near the middle of the channel, to ensure that your measurements will catch the low water. Reference points should be marked with a small spot of paint or colored chalk. It is important to mark the reference point clearly, for each successive measurement should be performed from the exact same point. A weighted tape measure or a carpenter's tape (for smaller sites) should be used to measure the distance between the water surface and the reference point for both upstream and downstream reference points at each crossing.

**Sketch:** Referring to the Phase 1 Sketch, make a simple "bird's eye view" sketch of the site, Showing the reference points used to measure the tidal heights, include enough detail so that the reference points can be relocated on a later occasion.

**Measuring the Tide:** The rise and fall of the tide is measured as the distance between the water surface and your reference points. The measurements need only be to the nearest inch, A total of 6 measurements timed approximately 2 hours apart need to be collected during one day. Timing your 6 measurements at 2-hour intervals allows you to record an entire tide cycle. It is not important that the measurements are taken exactly 2 hours apart, as 15 or 20 minutes either way will not effect the computation of the tidal range. It is important to **note the exact time** at which each measurement is taken, however. If there is not water at the crossing, measure to the bottom of the channel and describe where the water is in a note- such as " no water on downstream side, water is out of sight across tide flats"

### **THINGS TO REMEMBER**

Collect complete and ACCURATE data – it's better to abort readings than to collect inaccurate data

Measure to nearest inch

Read measurements directly off tape

Record exact time of reading

Reference points need not be at same height

Measure with the bottom of the tape just touching the water (making ripples on surface)

Clean out trash to get a clear water surface

Describe any problems in a detailed comment on your data sheet; also include any other observations or comments about the site and your measurements that may be helpful.

**When you are finished, please make copies of your data sheets and mail the original sheets to me in the envelope provided in your package. Save the copies in case the originals get lost in the mail.**