

Figure E-1. Silt Curtain Pilot Study Location



Figure E-2. A section of the silt curtain with anchor buoys.



Figure E-3. Large debris, such as logs, caused structural damage to the curtain.

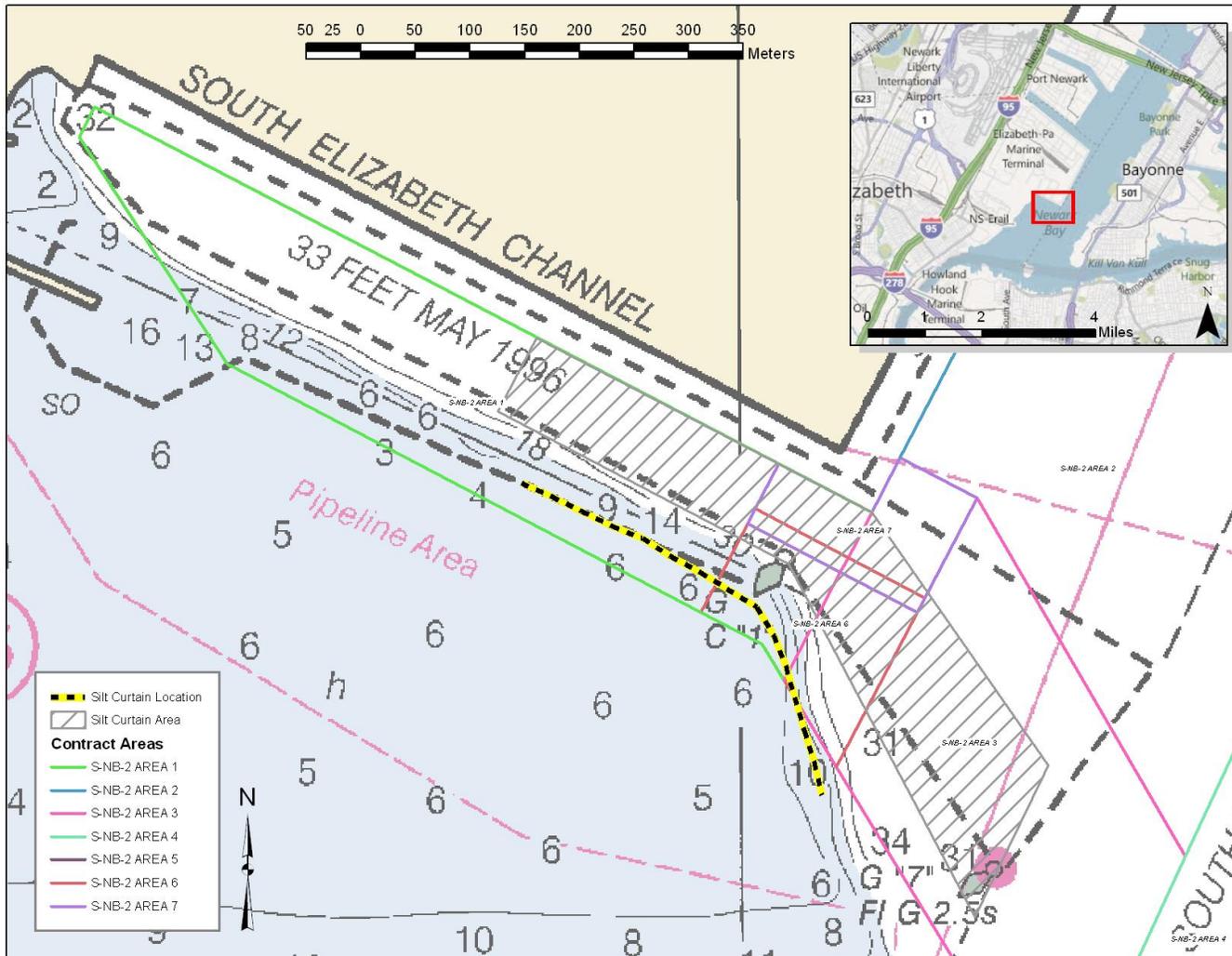


Figure 1-1. Silt Curtain Pilot Study Location



Figure 3-1. The initial configuration of the curtain. The curtain boom is anchored in place but the curtain is not unfurled.



Figure 3-2. Unfurling of the silt curtain. Tidal forces are beginning to push the curtain to the surface.



Figure 3-3. An example of silt curtain “flaring” due to current.



Figure 3-4. The inner most section of the silt curtain deployed at the NW end of the SEC where current velocities are lowest. Although initially deployed in a straight line, the curtain is deformed by current flow.



Figure 3-5. Floating debris collected on the silt curtain.



Figure 3-6. A section of the damaged silt curtain is shown during silt curtain removal.



Figure 3-7. A section of the silt curtain damaged and pulled away from the boom.



Figure 4-1. Silt curtain separating and flaring by tidal forces.

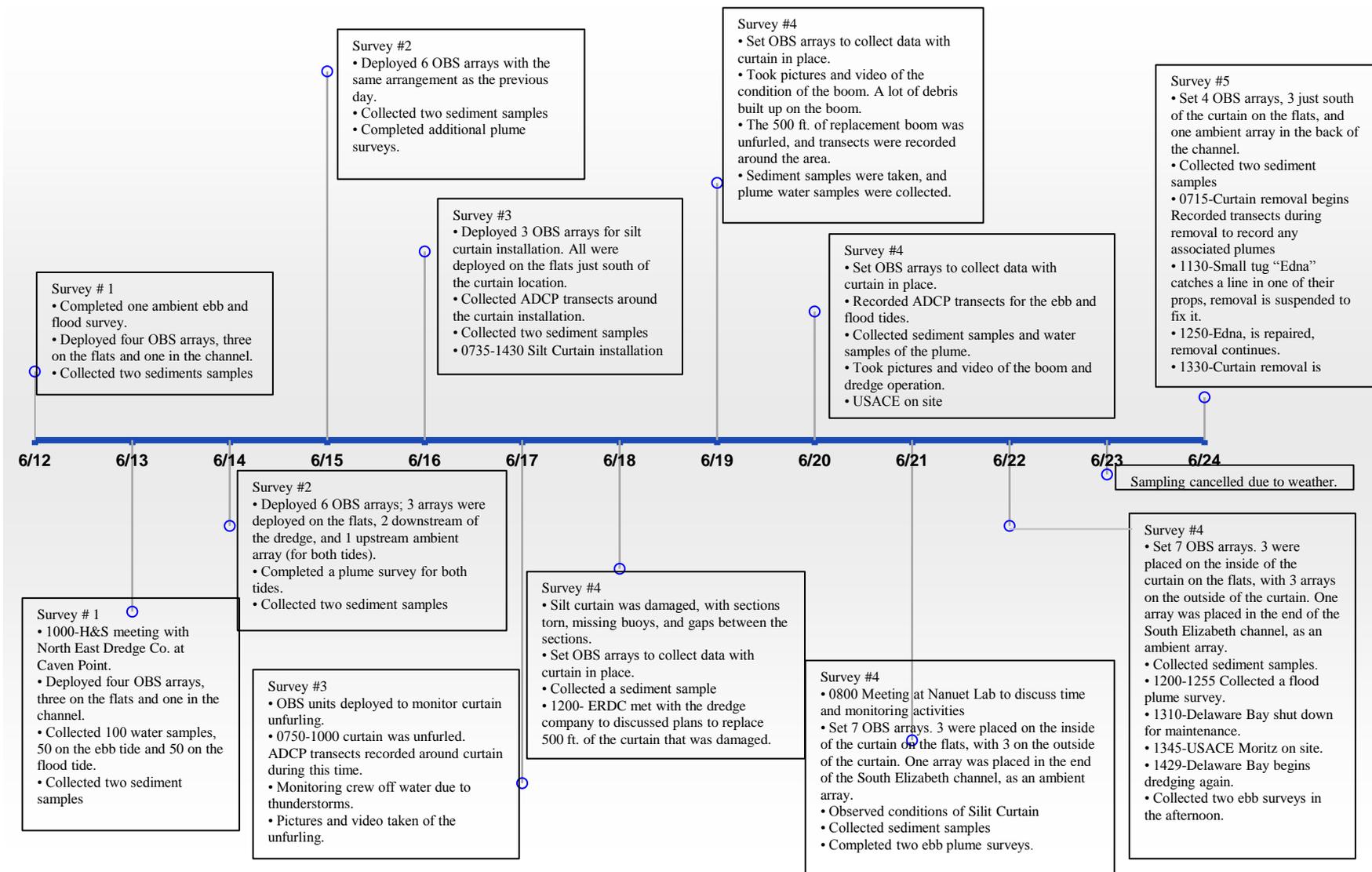
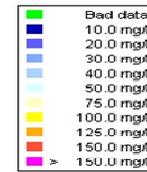
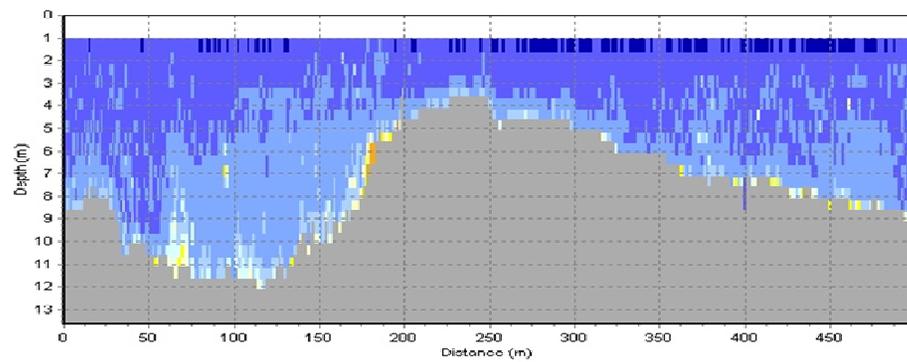
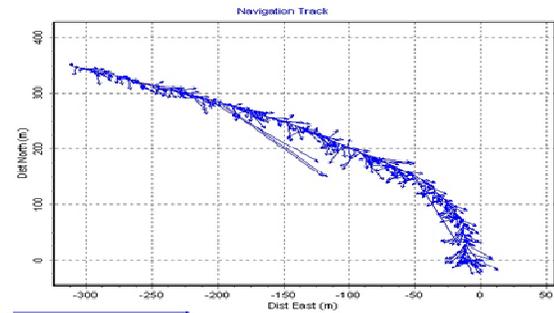


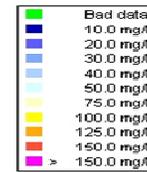
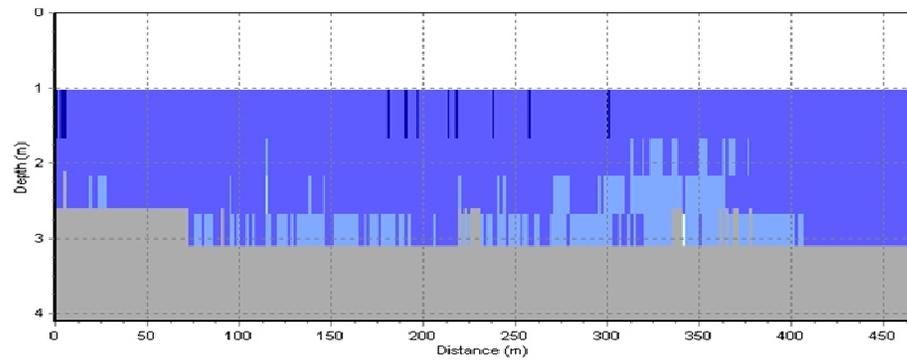
Figure 4-2. Summary timeline of Silt Curtain Pilot Study.



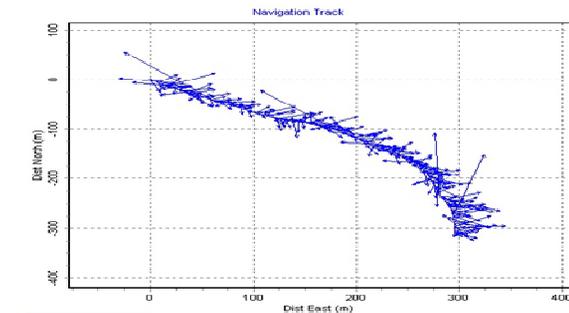
SCXB1



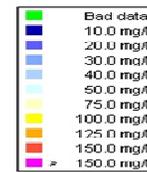
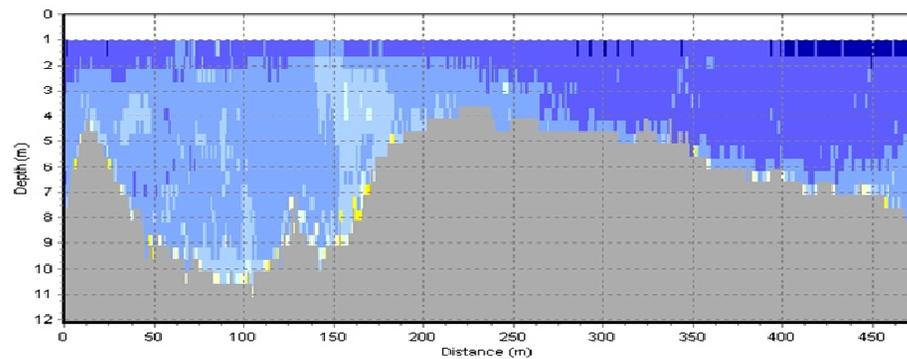
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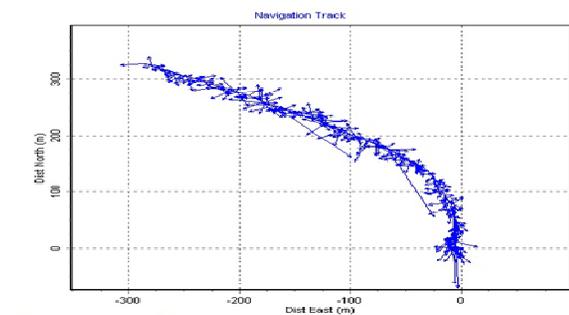
SCXB2



Reference velocity vector is 1.44 m/s



SCXB3



Reference velocity vector is 1.50 m/s

Figure 4-4. Vertical profiles of TSS concentrations and navigation tracks with depth-averaged current vectors for Survey SCXB completed during an ebbing tide after silt curtain deployment. Transect SCXB1 runs in a NW direction, 20 m outside of the silt curtain. Transect SCXB2 runs in a SE direction, 47 m inside of the silt curtain. Transect SCXB3 runs in a NW direction, 20 m outside of the silt curtain.

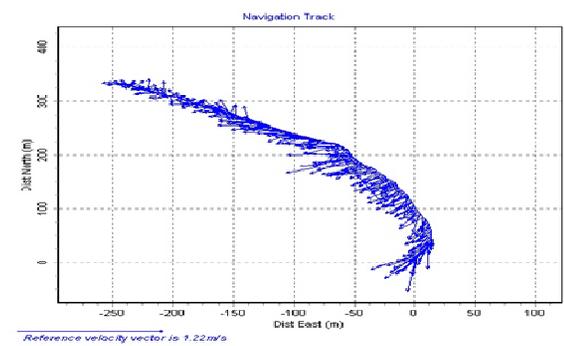
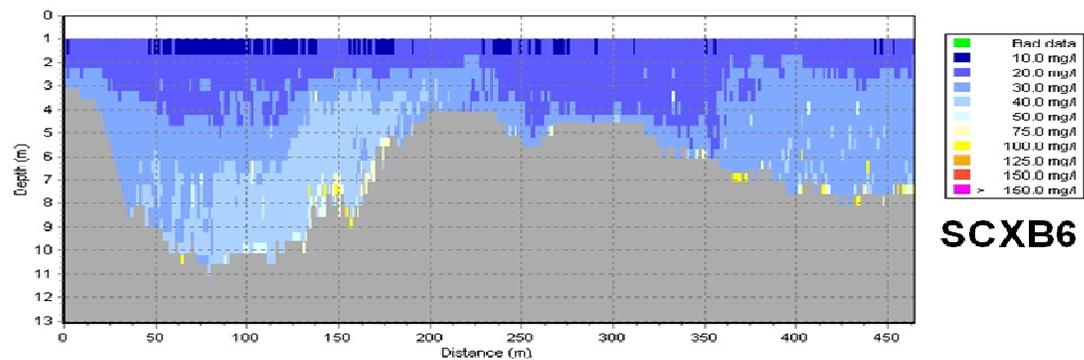
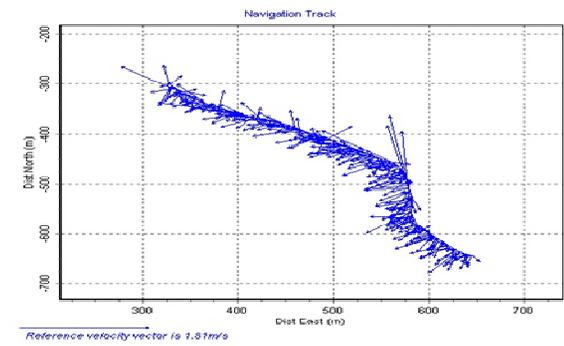
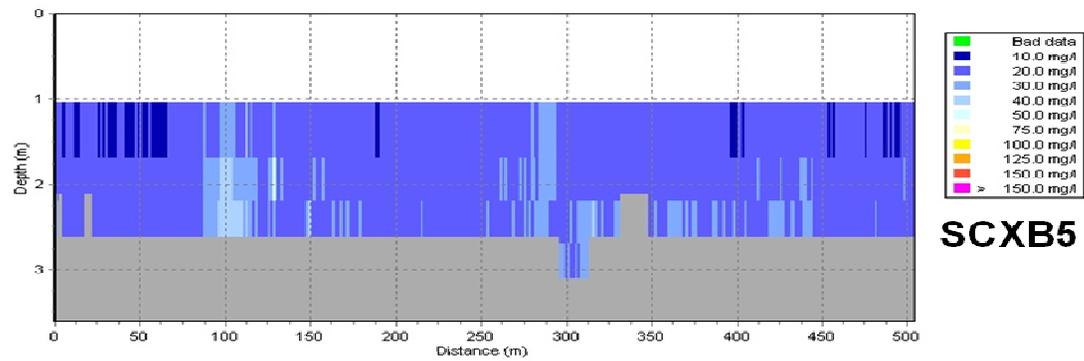
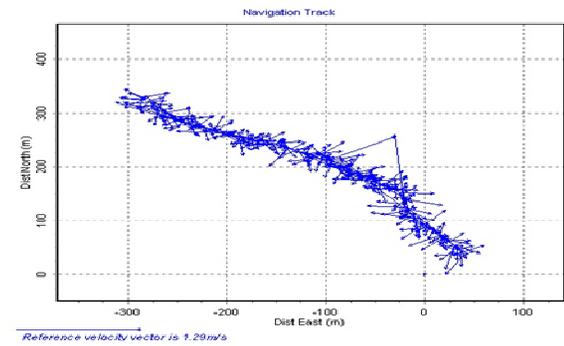
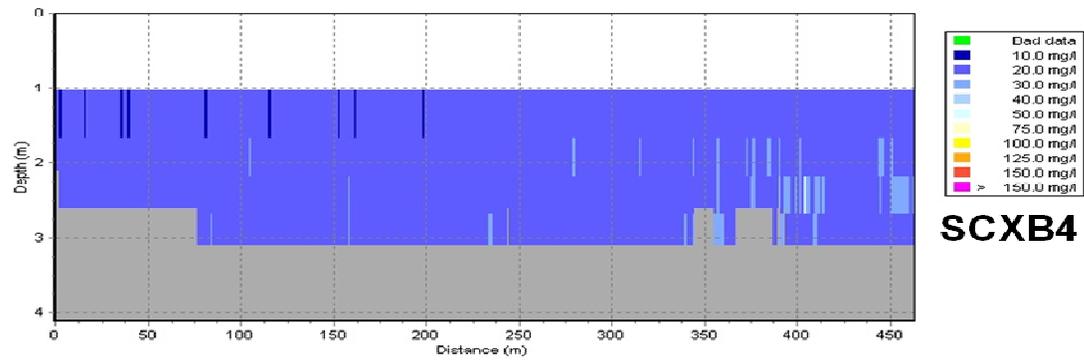
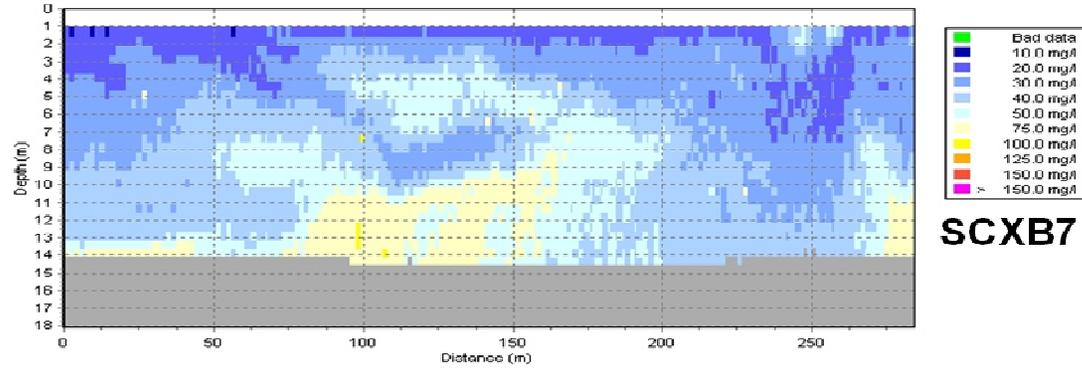
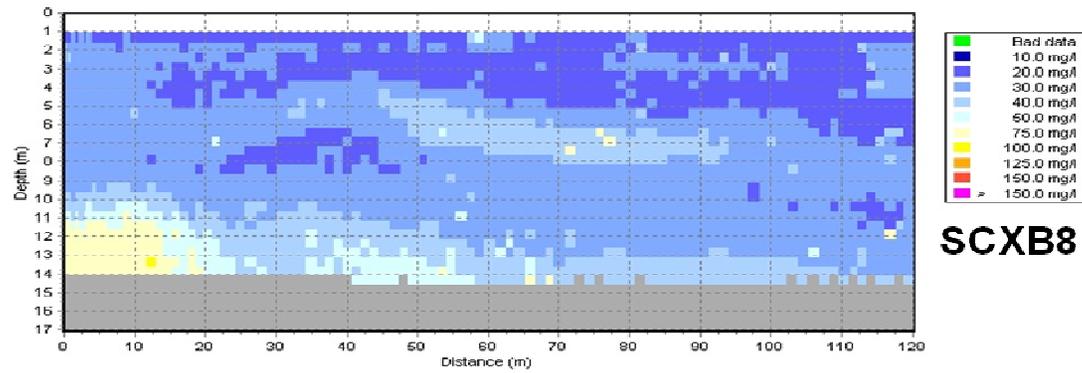
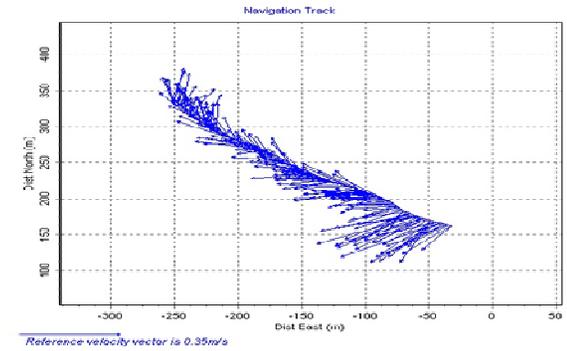


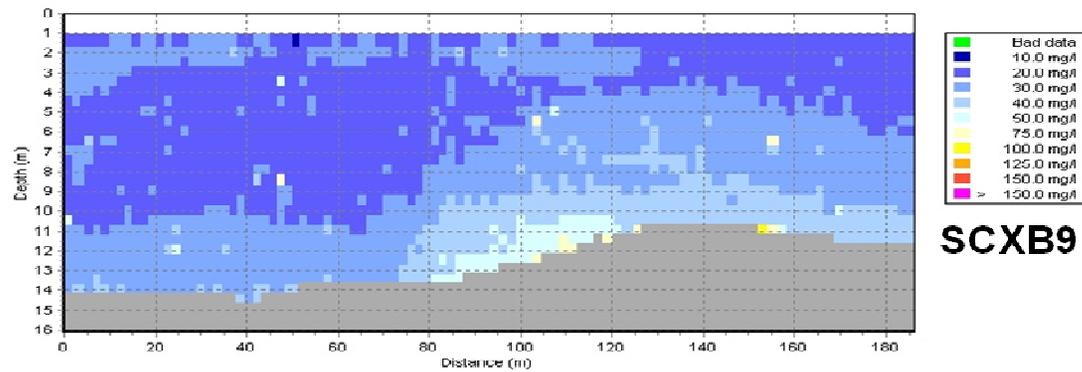
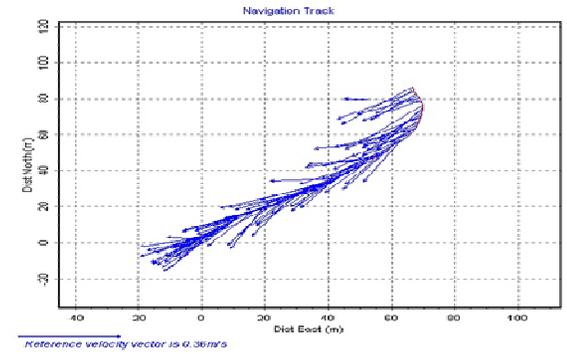
Figure 4-4 (Continued). Transect SCXB4 runs in a SE direction, 45 m inside of silt curtain. Transect SCXB5 runs in a SE direction, 55 m inside of the silt curtain. Transect SCXB runs in a NW direction, 30 m outside of the silt curtain.



SCXB7



SCXB8



SCXB9

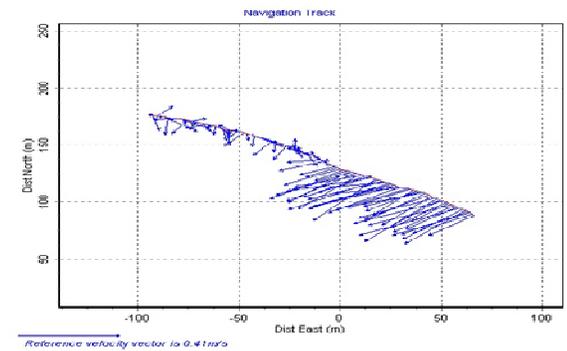
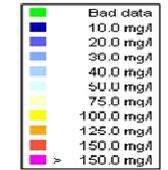
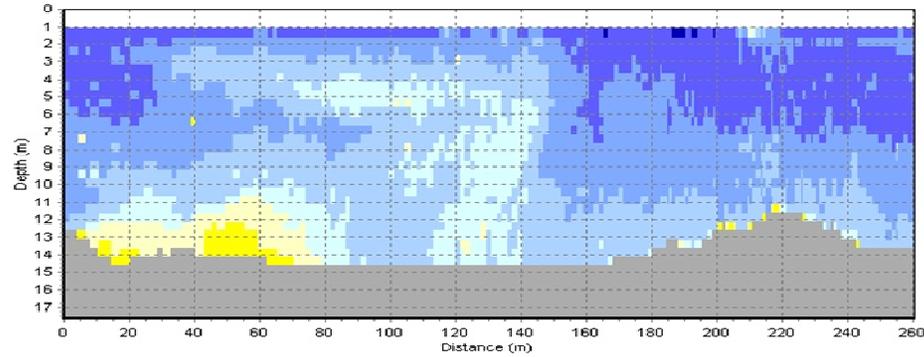
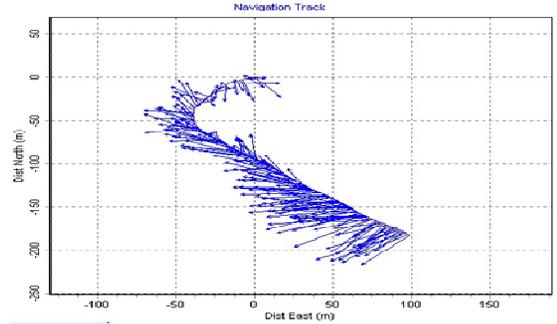


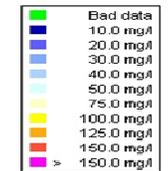
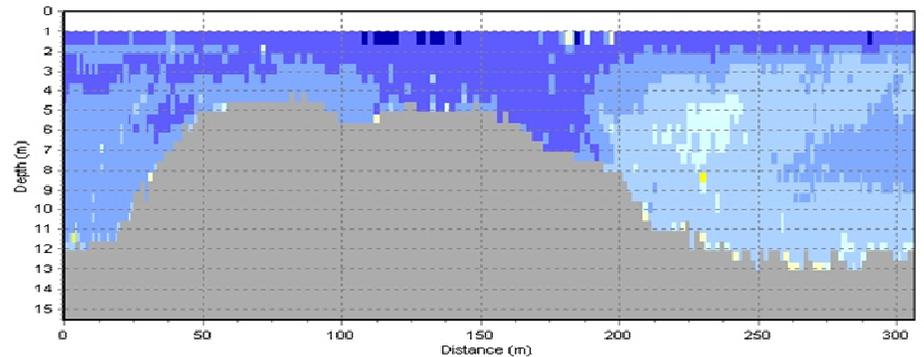
Figure 4-4 (Continued). Transect SCXB7 runs in a SE direction parallel to the dredge, 60 m off the port side. Transect SCXB8 runs in a NE direction, 62 m astern of the dredge. Transect SCXB9 runs in a NW direction parallel to the dredge, 51 m off the starboard side.



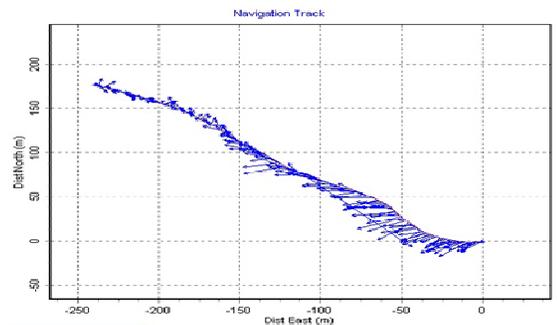
SCXB10



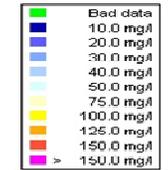
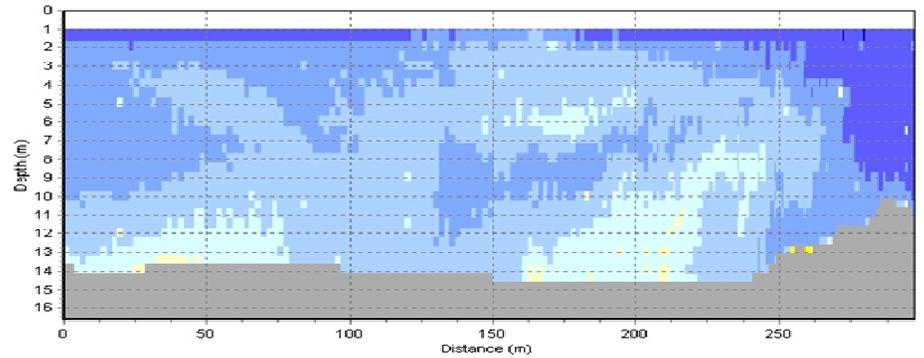
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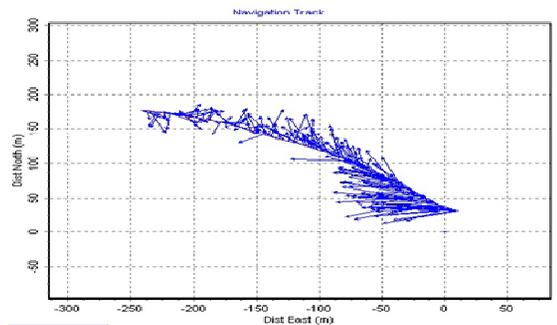
SCXB11



Reference velocity vector is 1.35m/s



SCXB12



Reference velocity vector is 0.38m/s

Figure 4-4 (Continued). Transect SCXB10 runs in a SE direction parallel to the dredge, 81 m off the port side and then cross bow. Transect SCXB11 runs in a NW direction, 28 m on the outside of the silt curtain. Transect SCXB12 runs in a SE direction parallel to the dredge, 50 m off the port side.

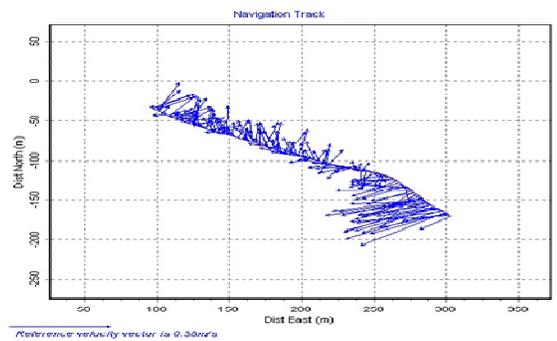
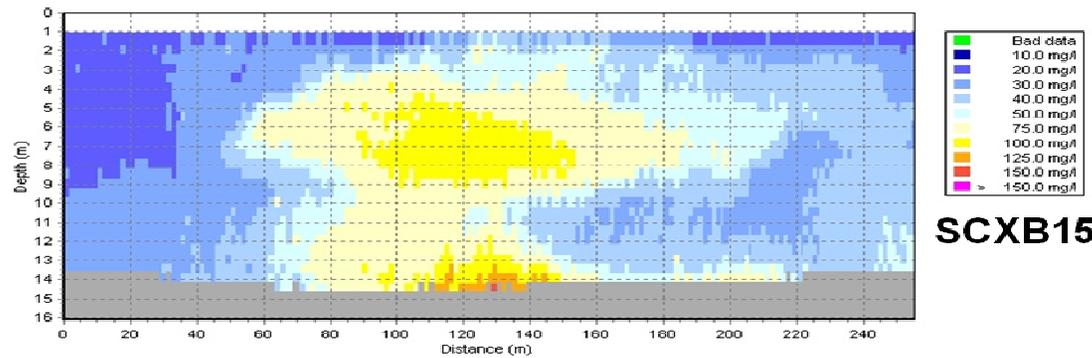
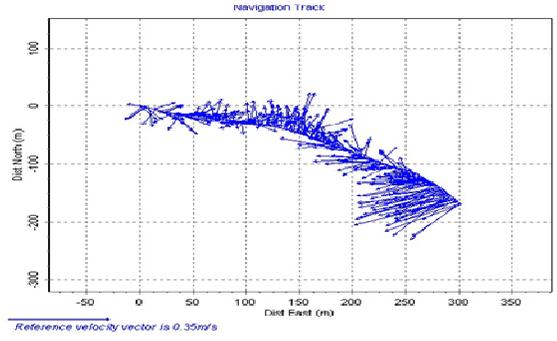
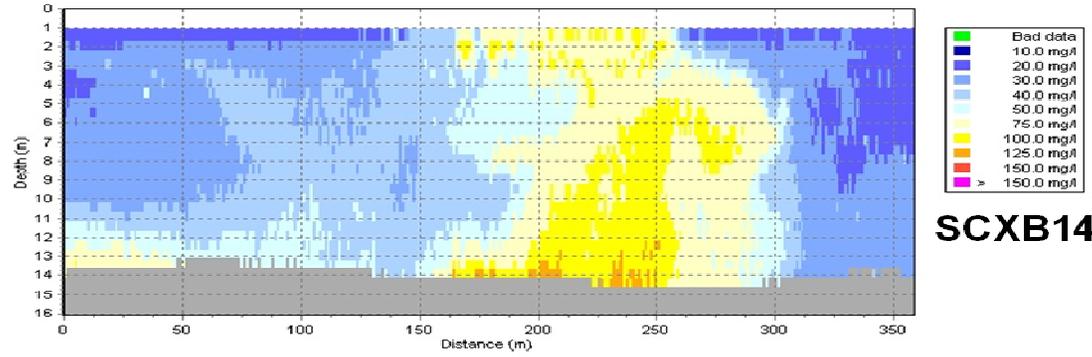
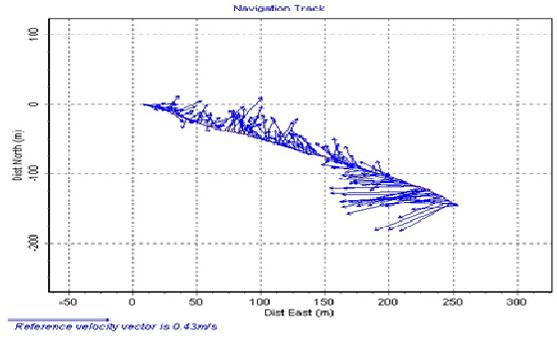
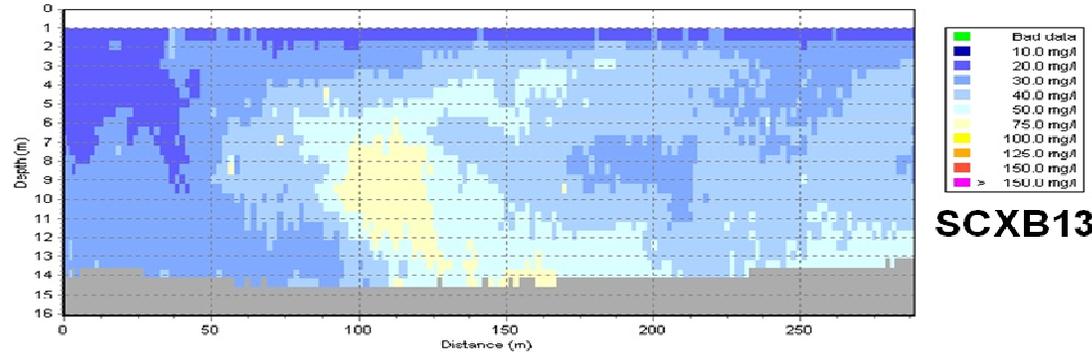


Figure 4-4 (Continued). Transect SCXB13 runs in a NW direction parallel to the dredge, 51 m off the port side. Transect SCXB14 runs in a SE direction parallel to the dredge, 51 m off port side and 50 m off the outside of the silt curtain. Transect SCXB15 runs in a NW direction parallel to the dredge, passing within 48 m of the bucket on the port side.

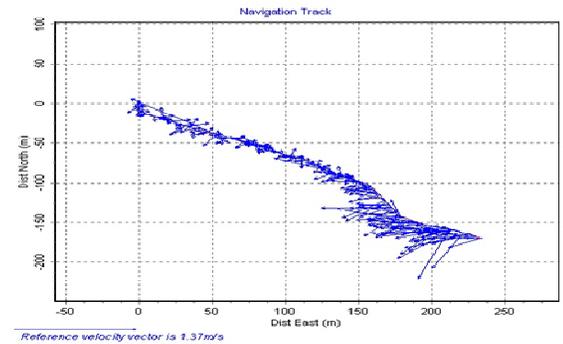
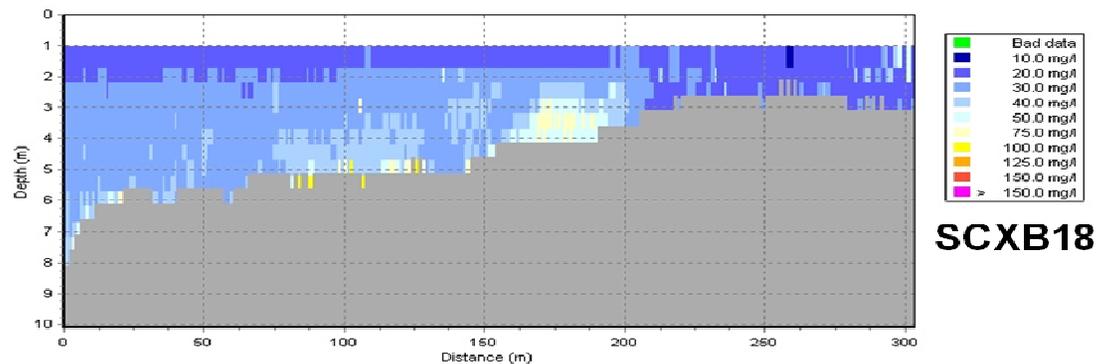
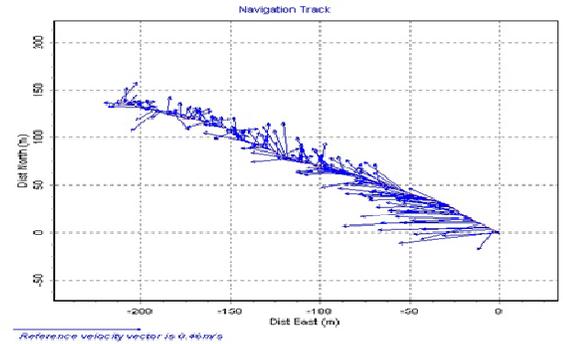
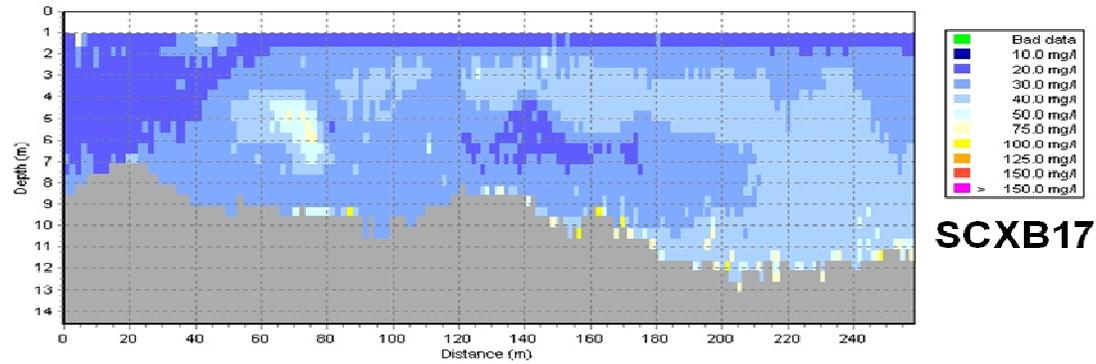
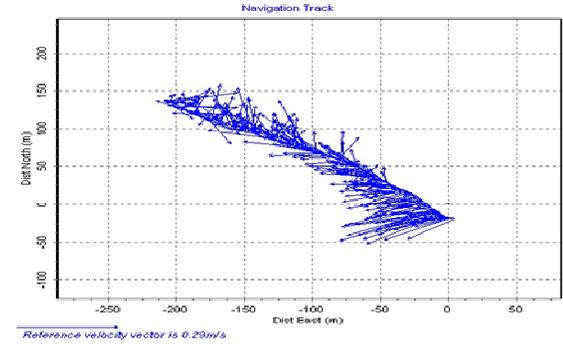
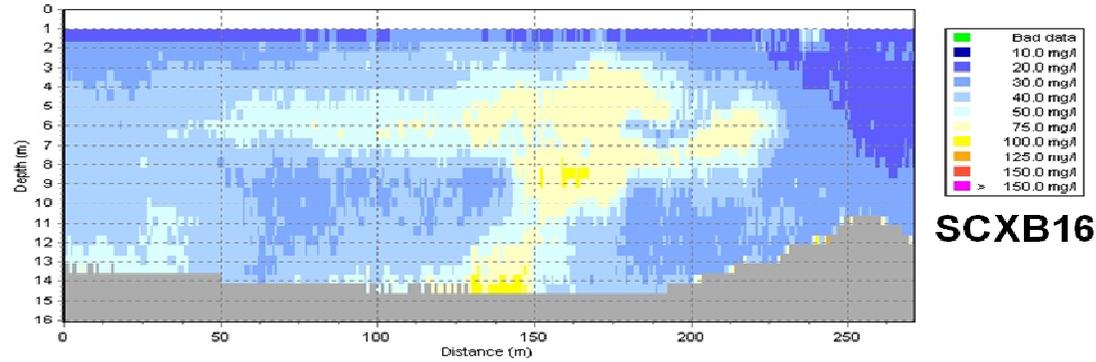
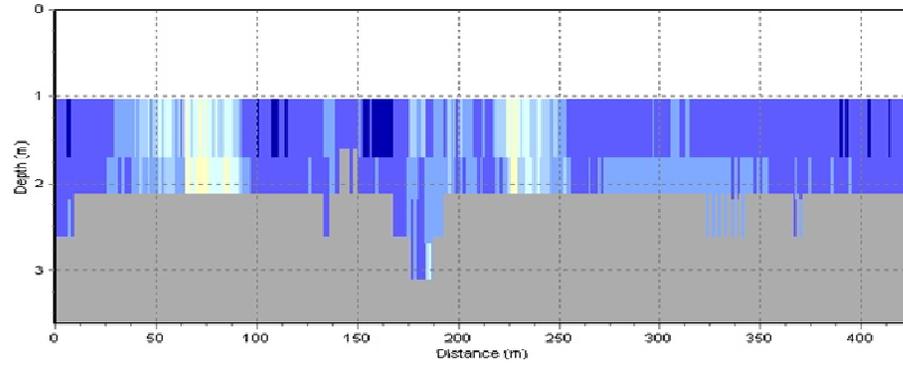
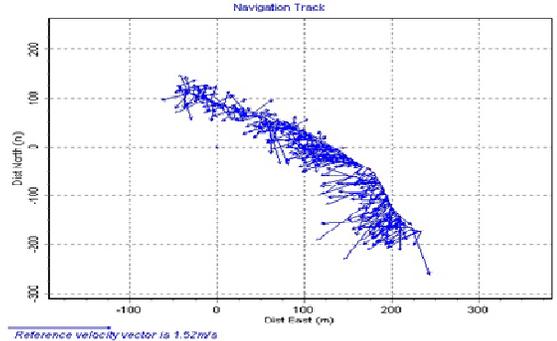


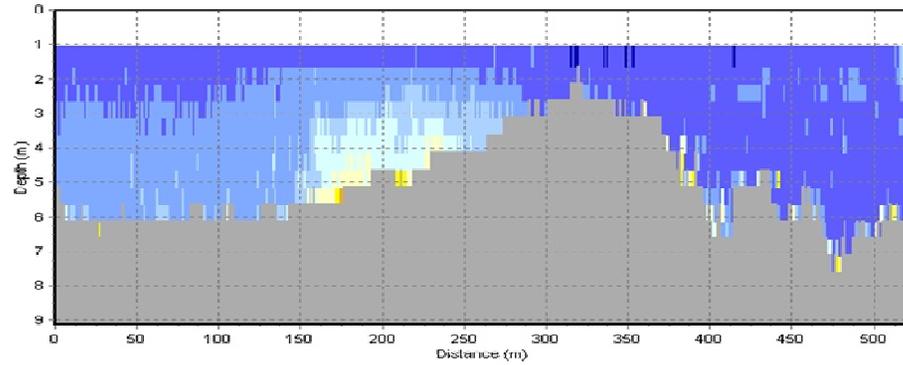
Figure 4-4 (Continued). Transect SCXB16 runs in a SE direction parallel to the dredge, 58 m off the port side. Transect SCXB15 runs in a NW direction parallel to the dredge, 90 m off port side and 59 m off the outside of the silt curtain. Transect SCXB18 runs in a SE direction parallel to the dredge, passing within 155 m of the bucket on the port side and 20 m off the outside of the silt curtain.



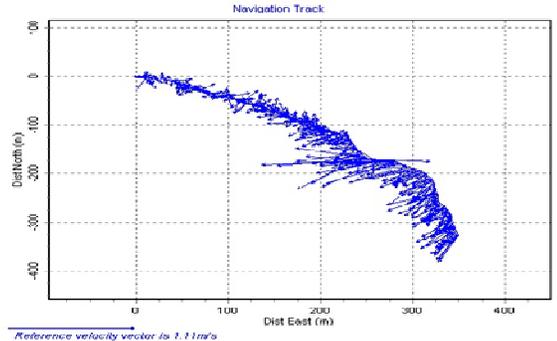
SCXB19



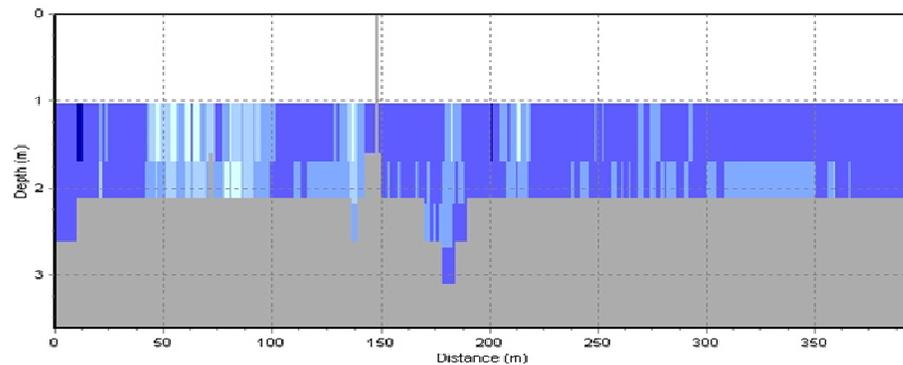
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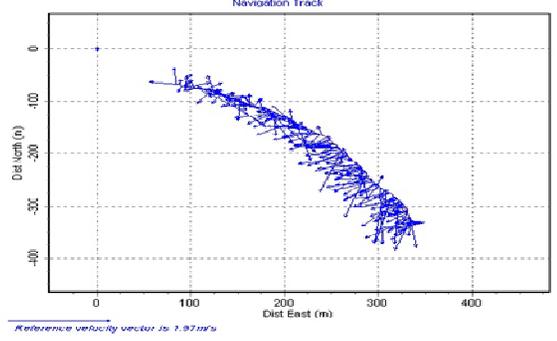
SCXB20



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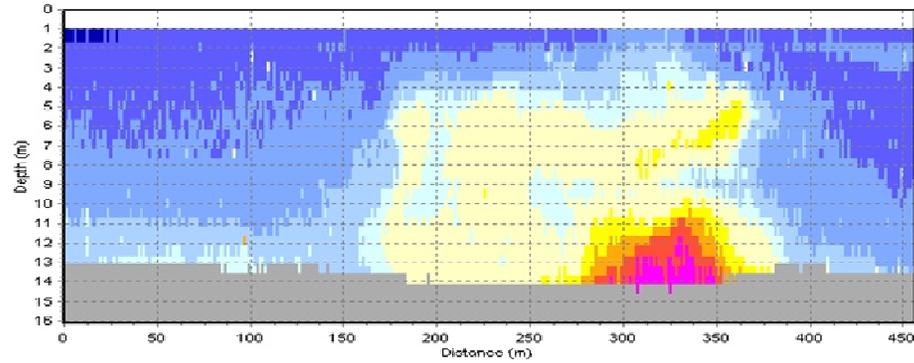


SCXB21

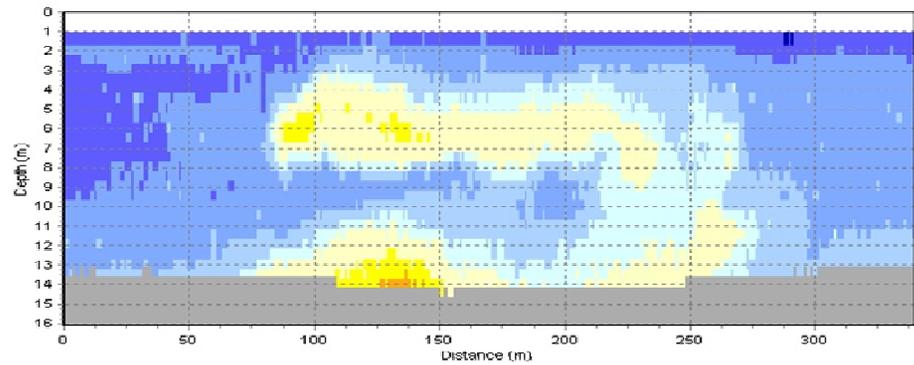
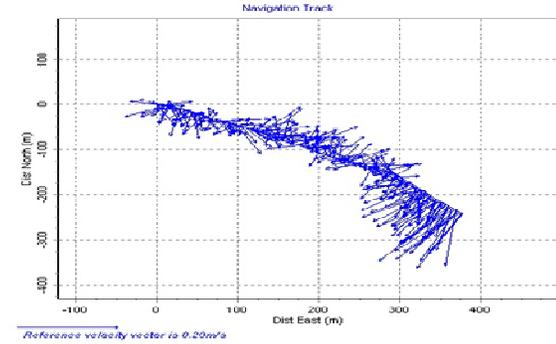


Reference velocity vector is 1.97m/s

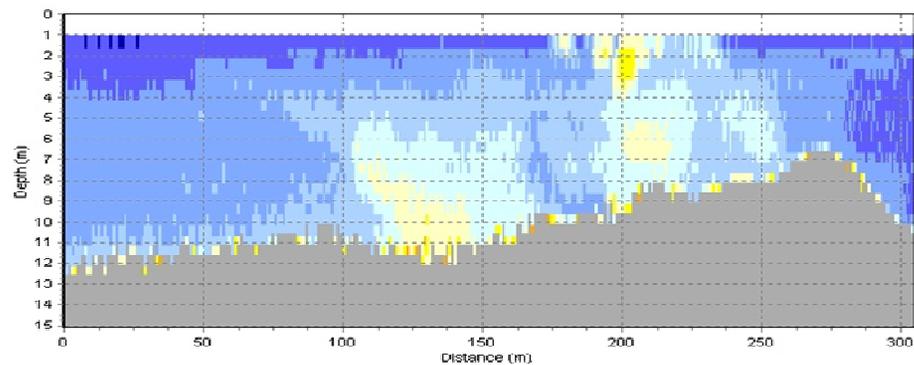
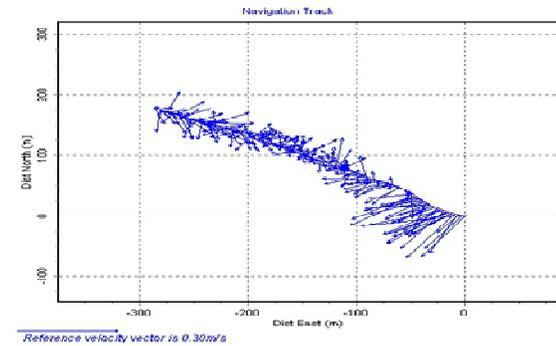
Figure 4-4 (Continued). Transect SCXB19 runs in a NW direction, 45 m on the inside of silt curtain. Transect SCXB20 runs in a SE direction parallel to the dredge, 115 m off port side and 20 m on the outside of the silt curtain. Transect SCXB21 runs in a NW direction parallel to the dredge, passing within 185 m of the bucket on the port side and 52 m on the inside of the silt curtain.



SCXB22



SCXB23



SCXB24

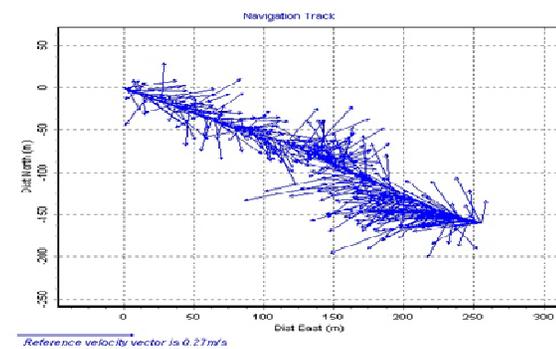


Figure 4-4 (Continued). Transect SCXB22 runs in a SE direction, 33 m from the bucket and 100 m on the inside of the silt curtain. Transect SCXB23 runs in a NW direction parallel to the dredge, 60 m off port side and 85 m on the outside of the silt curtain. Transect SCXB24 runs in a SE direction parallel to the dredge, passing within 96 m of the bucket on the port side and 34 m on the outside of the silt curtain.

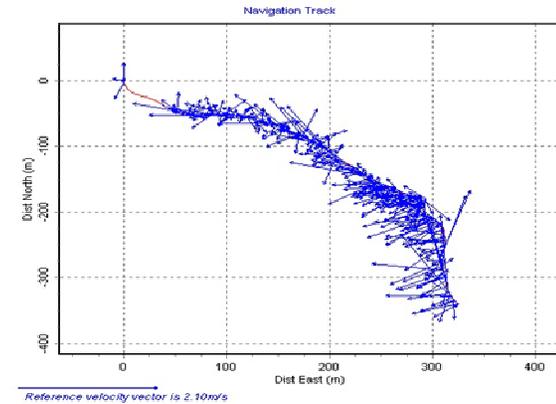
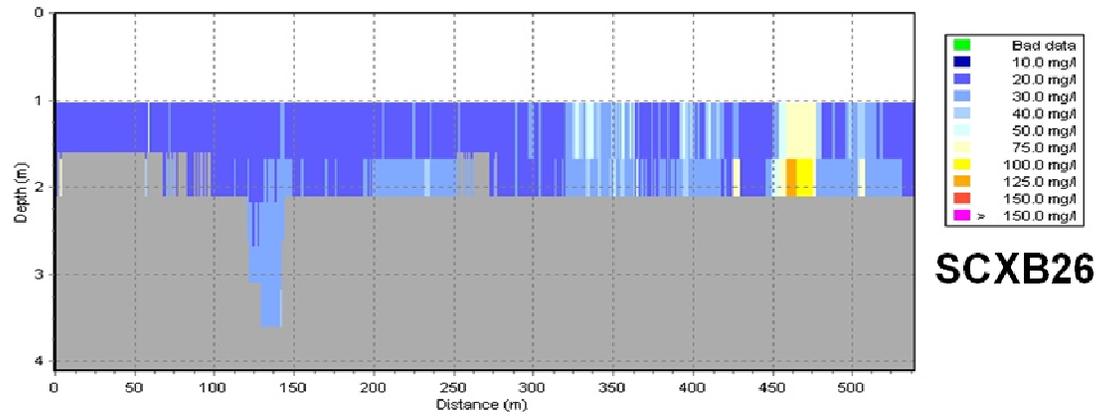
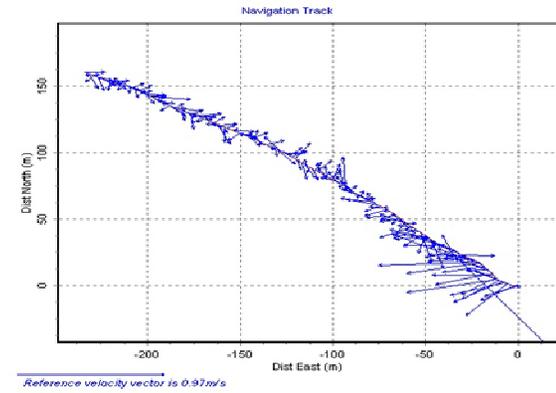
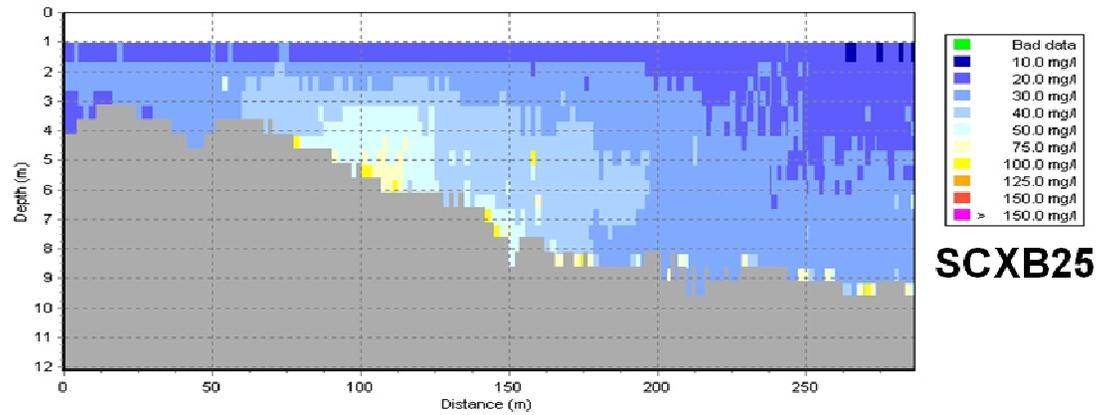


Figure 4-4 (Concluded). Transect SCXB25 runs in a NW direction, 103 m from the bucket and 26 m on the outside of the silt curtain. Transect SCXB26 runs in a SE direction parallel to the port side of the dredge, passing 143 m from the bucket and 20 m on the inside of the silt curtain.

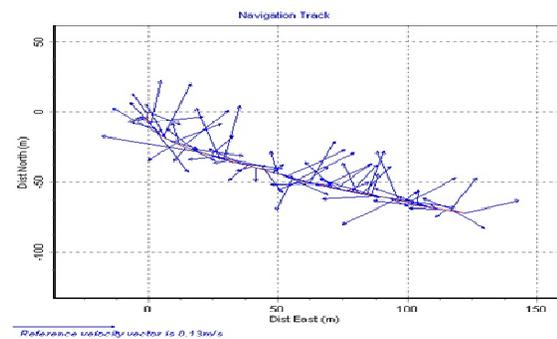
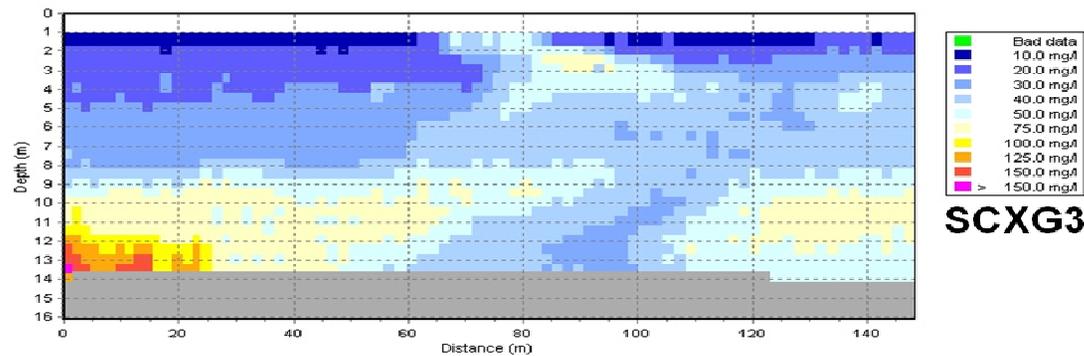
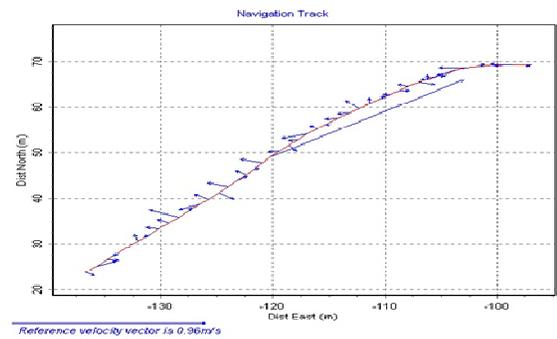
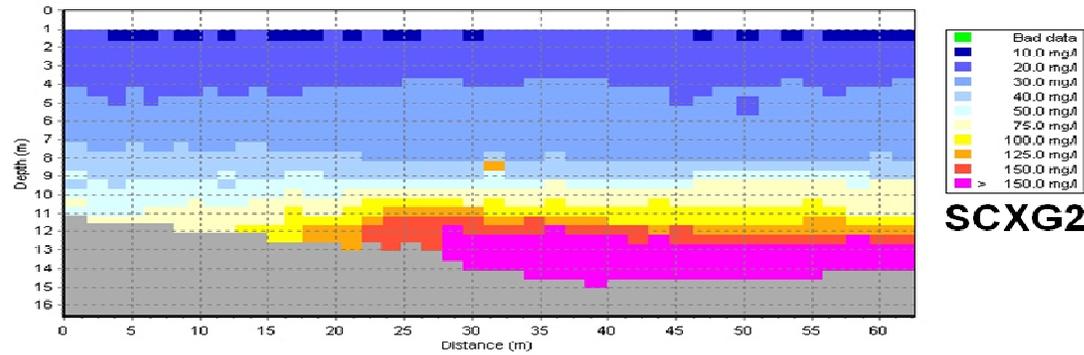
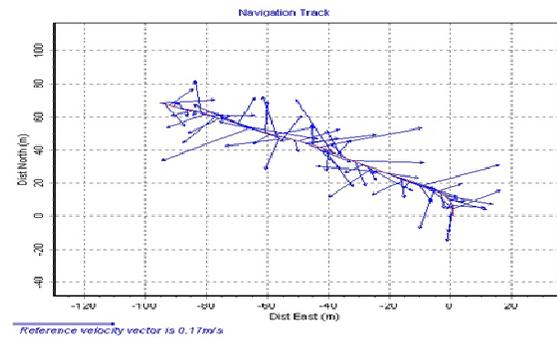
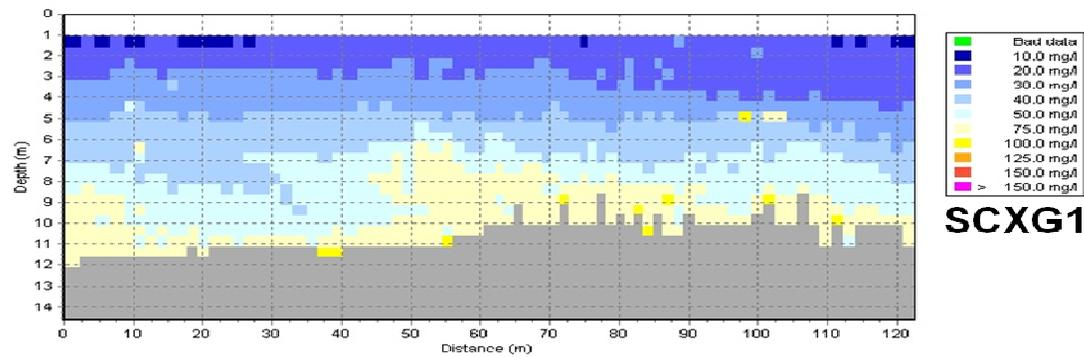


Figure 4-5. Vertical profiles of TSS concentrations and navigation tracks with depth-averaged current vectors for Survey SCXG completed during an ebbing tide after silt curtain deployment. Transect SCXG1 runs in a NW direction parallel to the dredge, 46 m off the starboard side. Transect SCXG2 runs in a SW direction across the dredge bow, 43 m from bucket. Transect SCXG3 runs in a SE direction parallel to the dredge, 30 m off the port side.

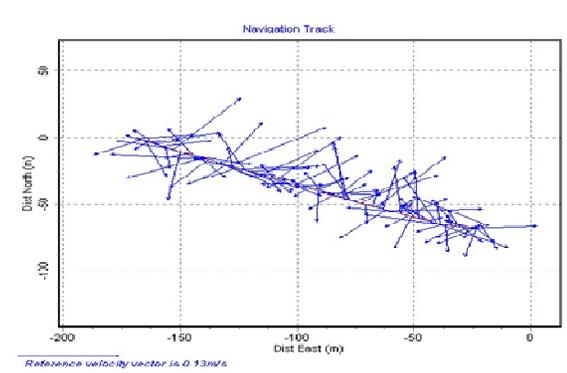
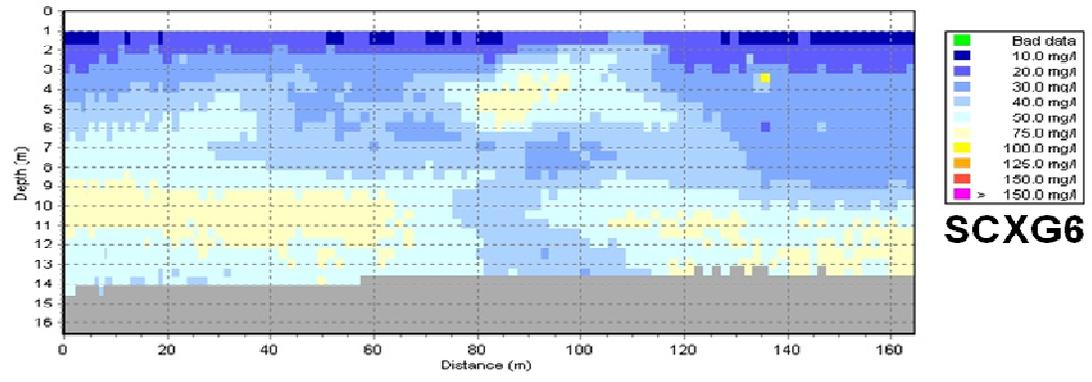
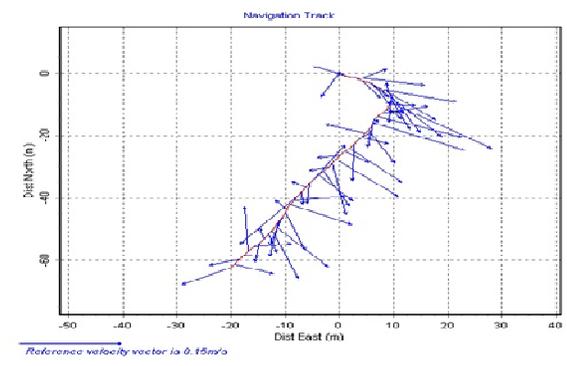
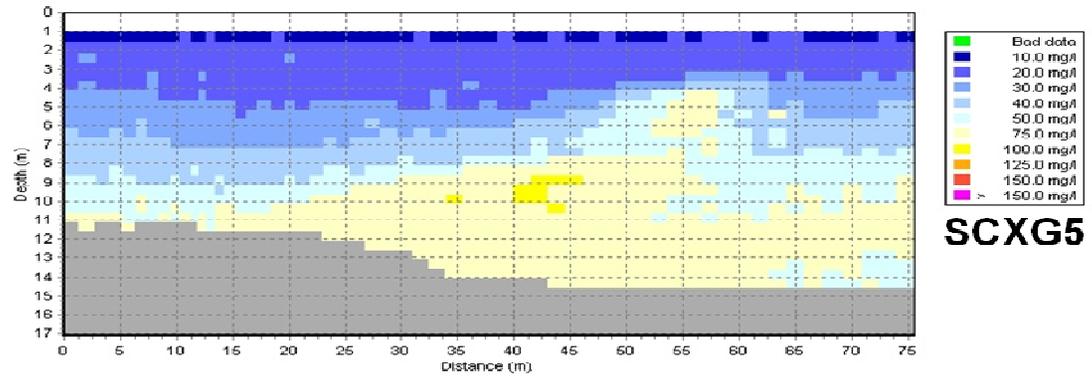
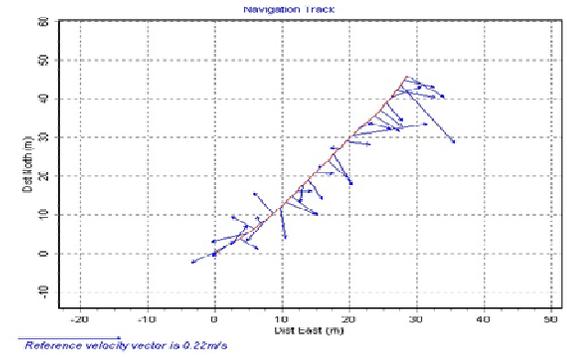
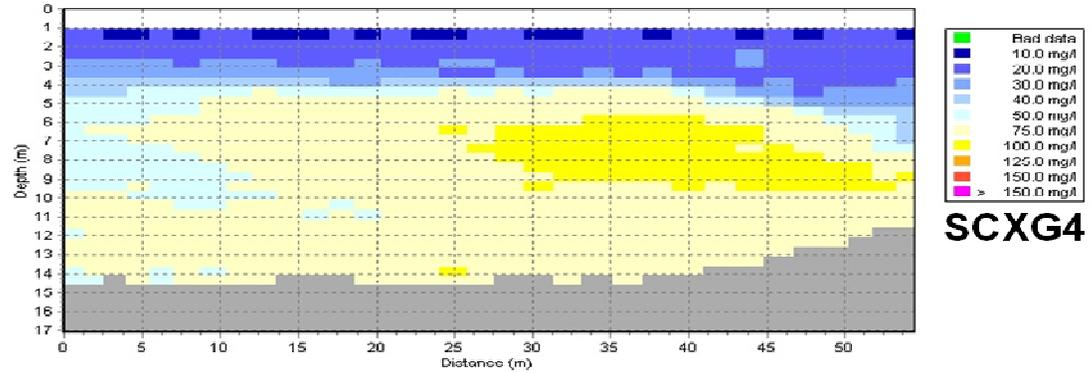
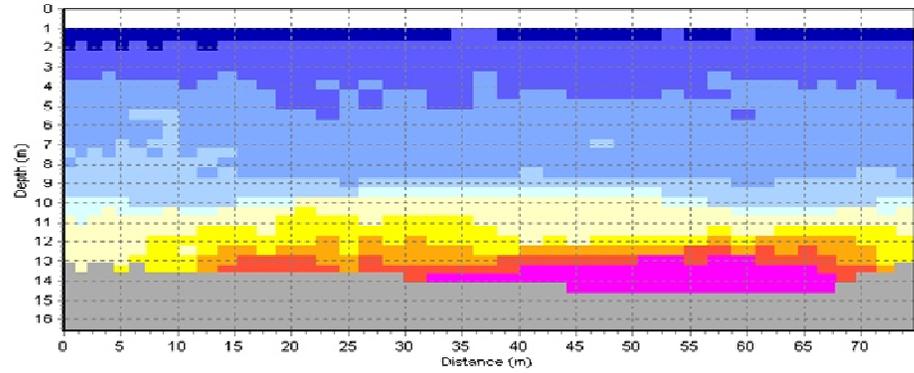
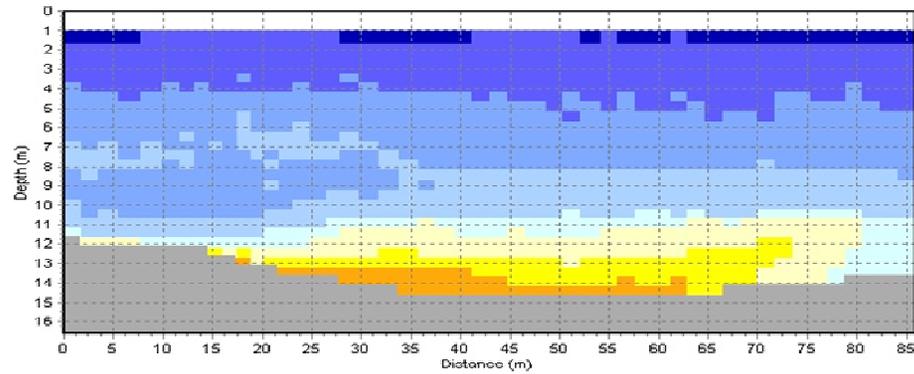
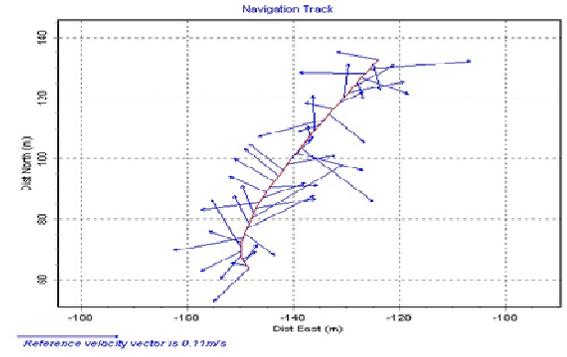


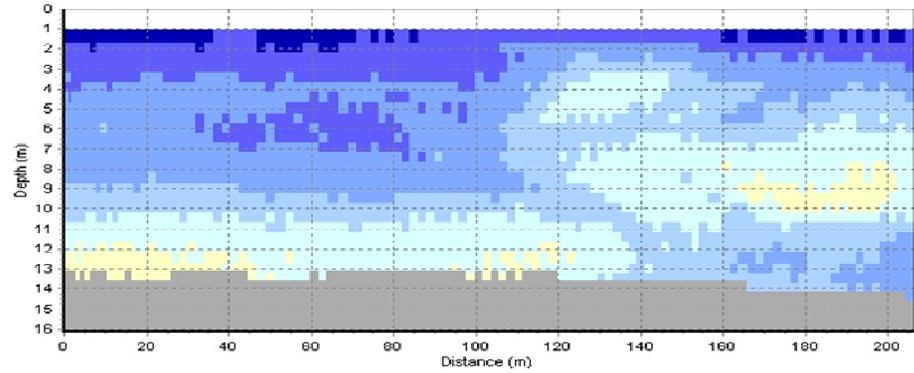
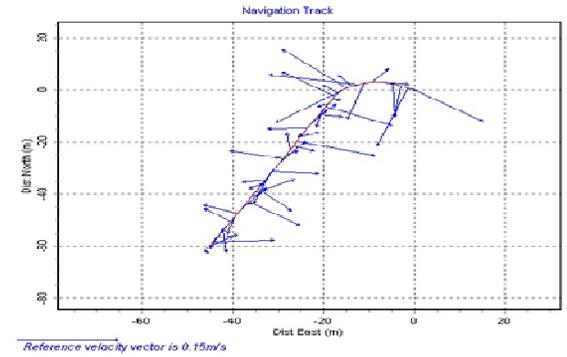
Figure 4-5 (Continued). Transect SCXG4 runs in a NE direction, 115 m astern of the dredge. Transect SCXG5 runs in a SW direction, 129 m astern of the dredge. Transect SCXG6 runs in a NW direction parallel to the dredge, 43 m off the port side.



SCXG7



SCXG8



SCXG9

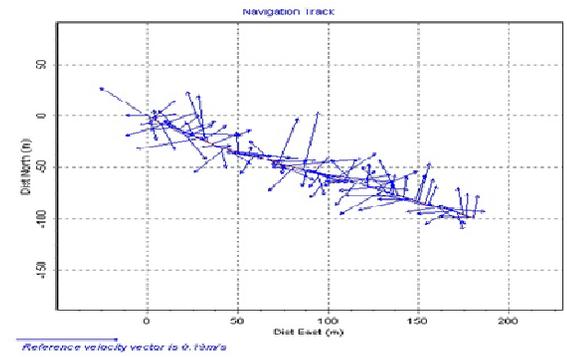
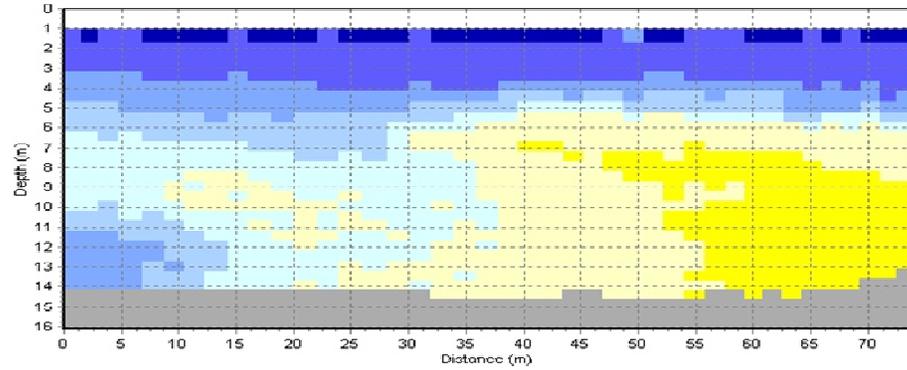
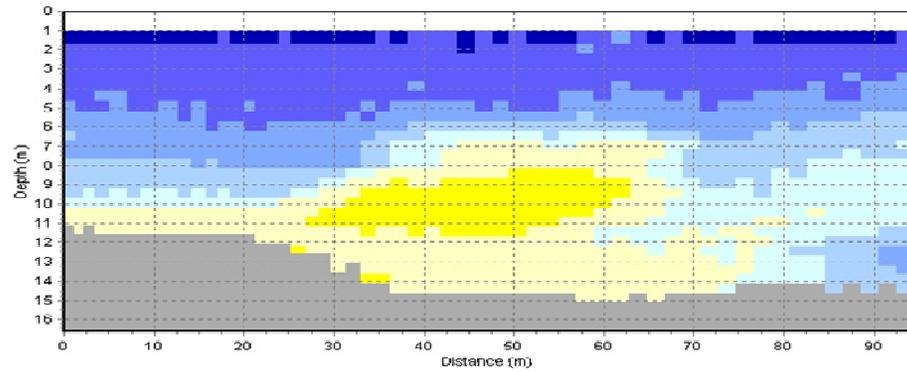
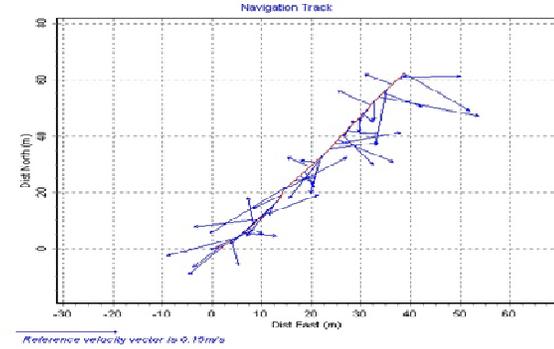


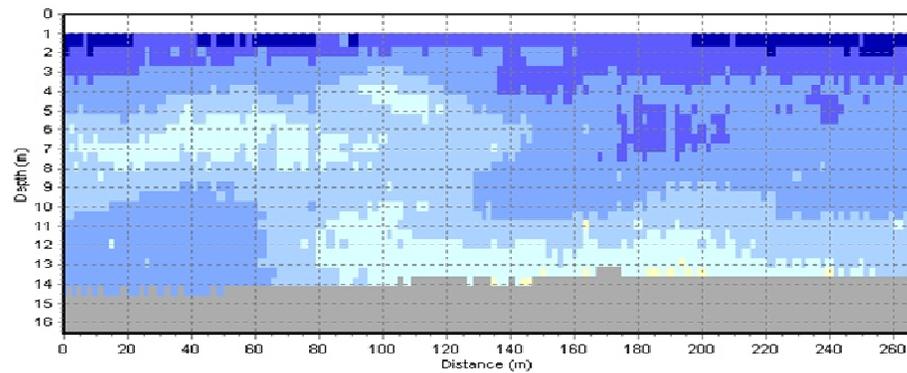
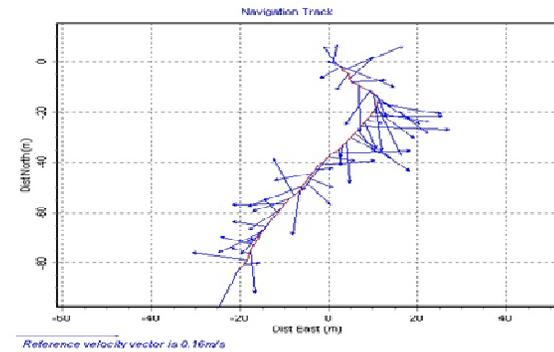
Figure 4-5 (Continued). Transect SCXG7 runs in a NE direction across the dredge bow, 55 m from the bucket. Transect SCXG8 runs in a SW direction across the bow of the dredge, 69 m from the bucket. Transect SCXG9 runs in a SE direction parallel to the dredge, 52 m off the port side.



SCXG10



SCXG11



SCXG12

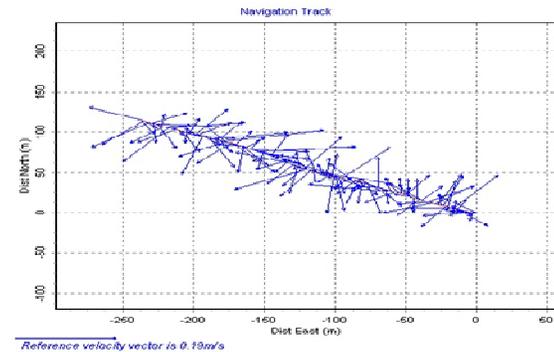


Figure 4-5 (Continued). Transect SCXG10 runs in a NE direction, 138 m astern of the dredge. Transect SCXG11 runs in a SW direction, 153 m astern of the dredge. Transect SCXG12 runs in a NW direction parallel to the dredge, 62 m off the port side.

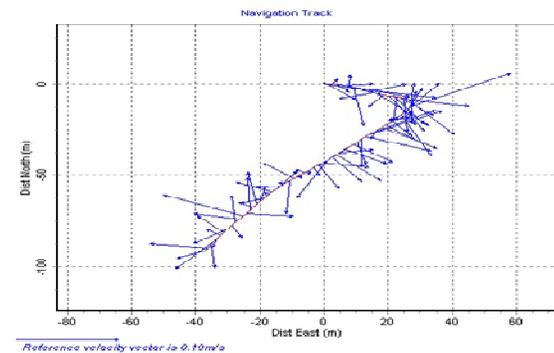
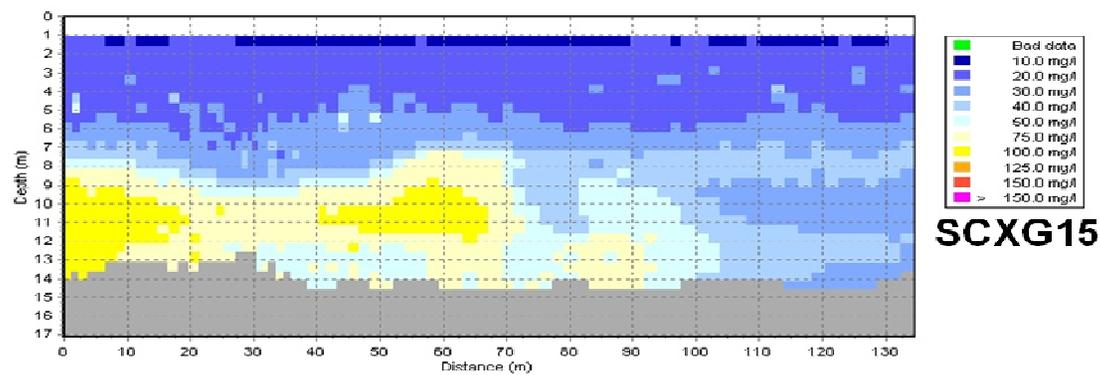
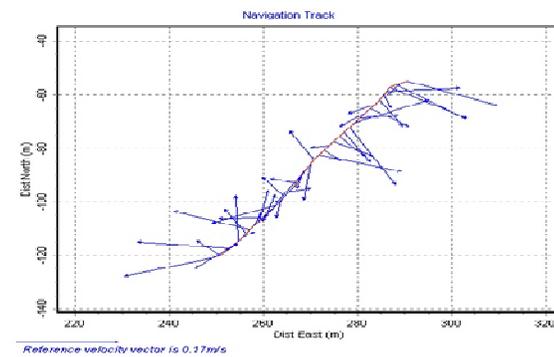
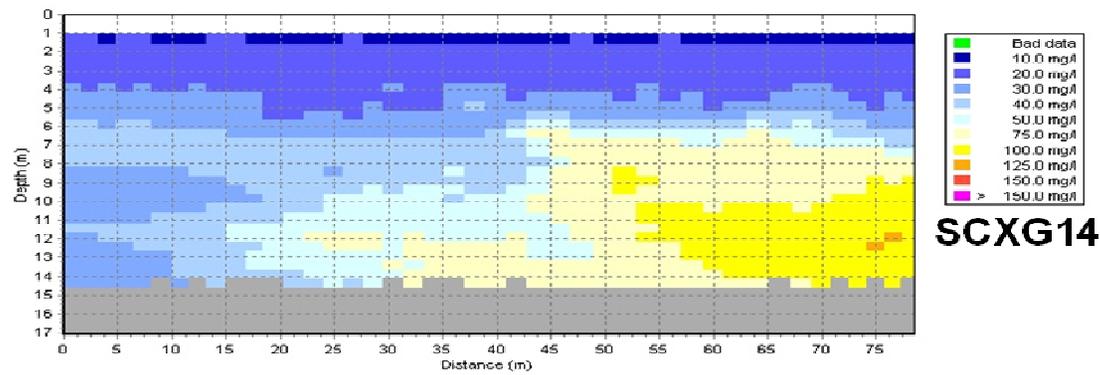
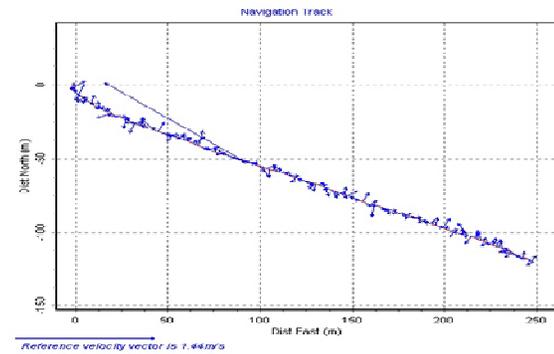
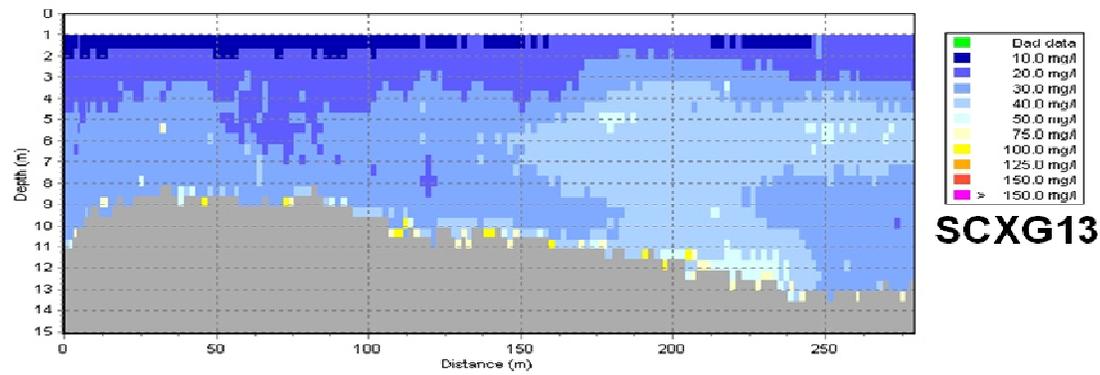


Figure 4-5 (Continued). Transect SCXG13 runs in a SE direction parallel to the dredge, 75 m off the port side. Transect SCXG14 runs in a NE direction, 158 m astern of the dredge. Transect SCXG15 runs in a SW direction, 187 m astern of the dredge.

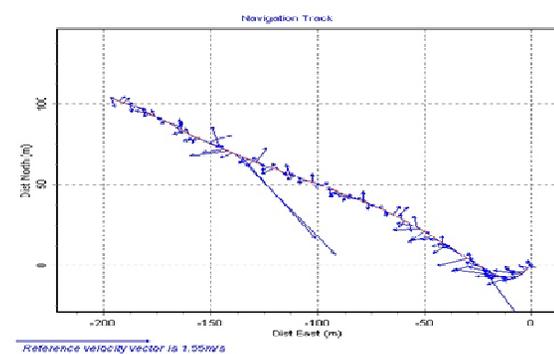
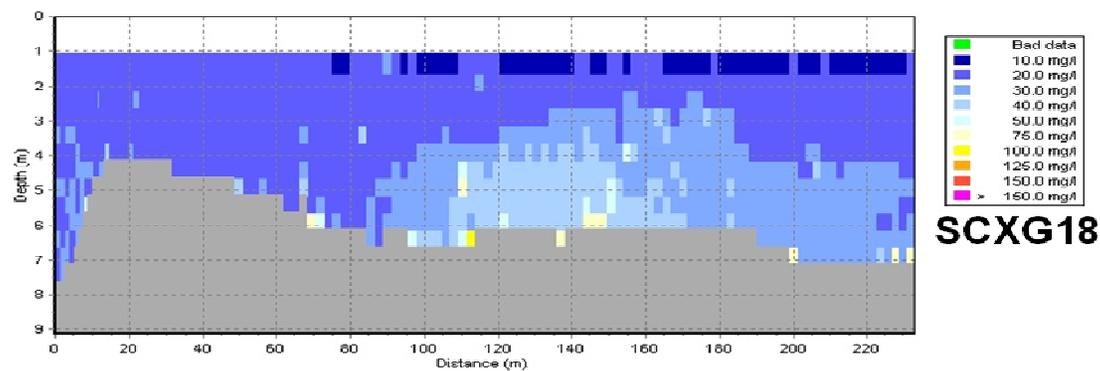
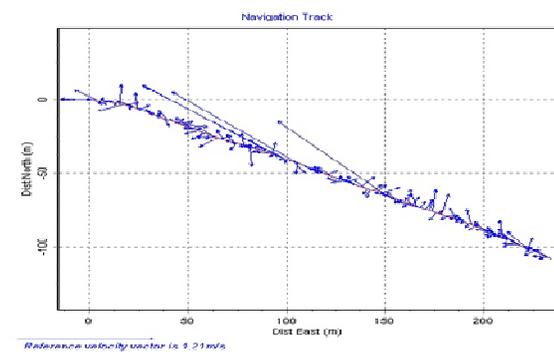
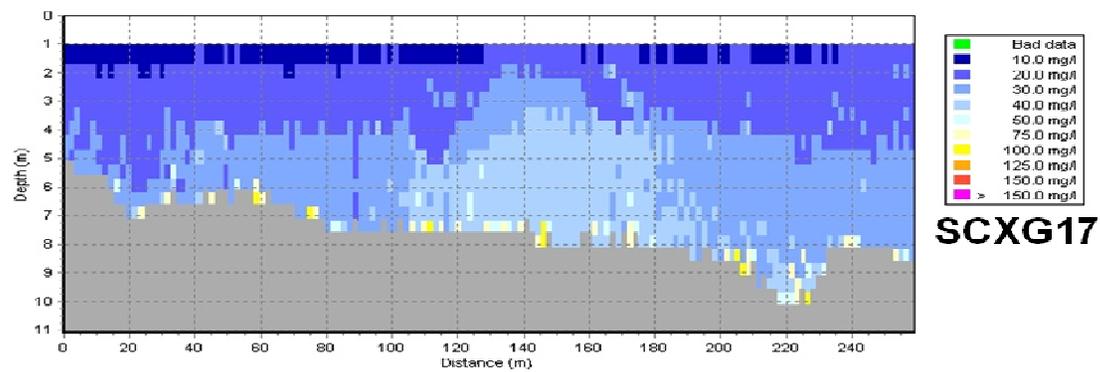
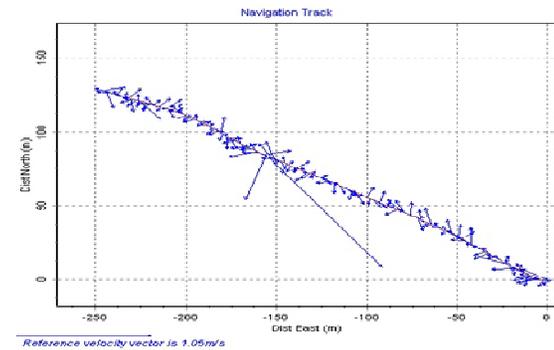
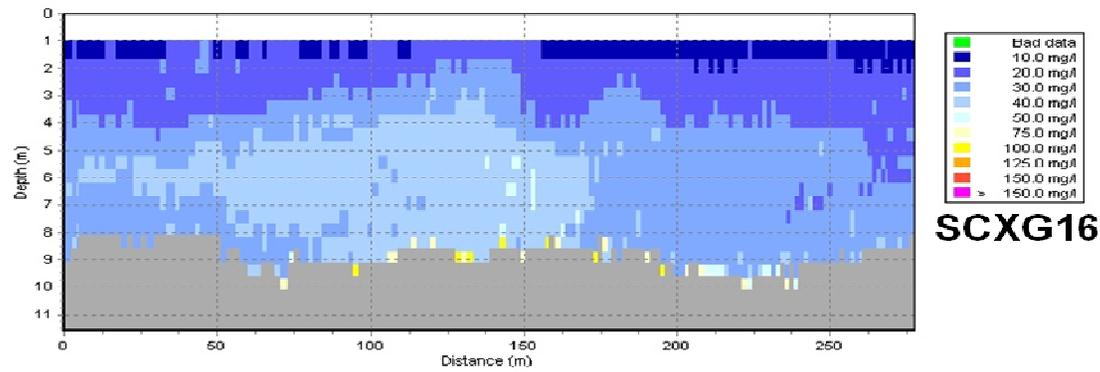


Figure 4-5 (Continued). Transect SCXG16 runs in a NW direction parallel to the dredge, 85 m off the port side. Transect SCXG17 runs in a SE direction parallel to the dredge, 93 m off the port side. Transect SCXG18 runs in a NW direction 40 m on the outside of the silt curtain, 110 m from the bucket.

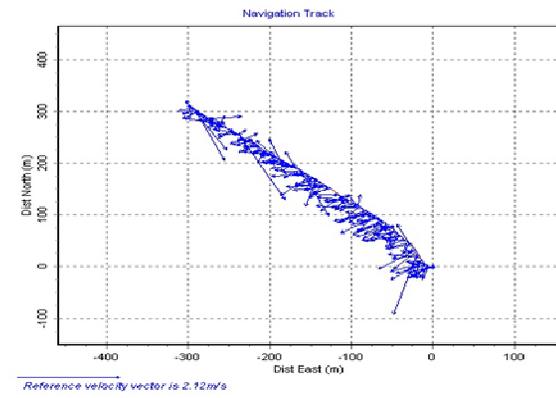
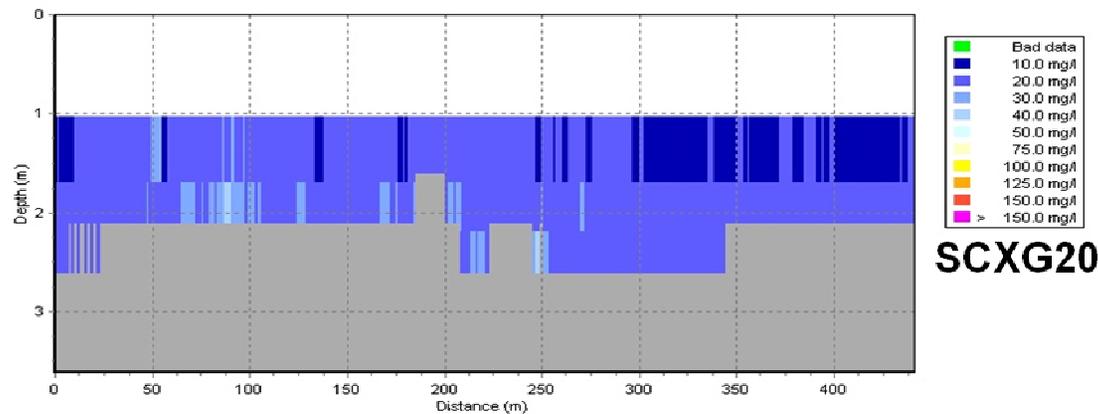
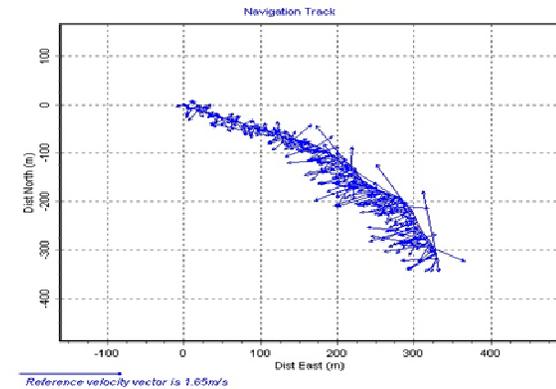
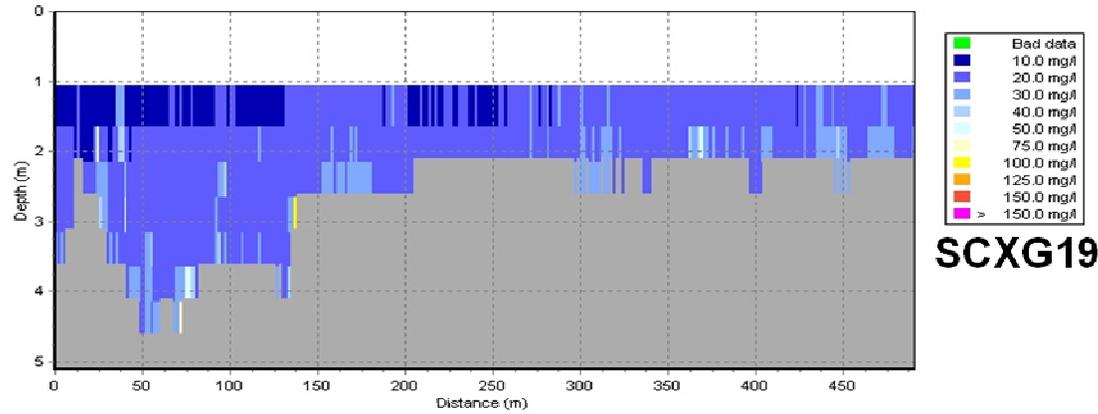


Figure 4-5 (Concluded). Transect SCXG16 runs in a NW direction parallel to the dredge, 85 m off the port side. Transect SCXG19 runs in a SE direction on the inside of the silt curtain, 148 m from the bucket and 20 off the inside of the silt curtain. Transect SCXG20 runs in a northerly direction, 210 m from the bucket and 82 m off the inside of the silt curtain. Distance is the closest to the bucket along the entire transect length.