Baffinland
Iron Mines Corporation

**RECEIVED**
*By Richard Dwyer at 5:20 pm, Mar 31, 2011*

**2011 ABANDONMENT AND RECLAMATION PLAN**

**Appendix B-5**
**Milne Inlet Tote Road - Water Crossings Summary Table**
**(*Included with Electronic Version Only*)**

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**TABLE 1**

**BAFFINLAND IRON MINES CORPORATION**
**MARY RIVER PROJECT**

**MILNE INLET TOTE ROAD – SUMMARY OF AS-BUILT WATER CROSSING INSTALLATIONS AND BORROW AREA LOCATIONS FOR 2009**
**SUMMARY OF AS-BUILT TOTE ROAD CULVERT INSTALLATIONS**

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| Water Crossing No. | Culvert No. | Road Chainage (Design)[12] (m) | Road Chainage (Upgraded)[12] (m) | Water Crossing Size Classification | Culvert Invert Elevation | | Length of CSP Culverts | | | | | | Sea Containers | DFO regulated Water Crossing Modified | Comment from 2009 Tote Road Inspection |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Upstream (m) | Downstream (m) | Ø = 1.2 m (m) | Ø = 1.0 m (m) | Ø = 0.5 m (m) | Ø = 0.25 m (m) | Ø = 0.15 m (m)* | Ø = 0.10 m (m)* | | | |
| CV183 | | 0+145 | A1+023 | Extra-Large | | | | | | | | | | x | Old culvert removed from Water Crossing |
| CV182 | | 0+480 | NA | Extra-Small | | | | | | | | | | | Old culvert removed from Water Crossing |
| CV181 | | 0+583 | A1+028 | Medium | | | | | | | | | | x | Old culvert removed from Water Crossing |
| CV180 | | 0+796 | NA | Extra-Small | | | | | | | | | | | Old culvert removed from Water Crossing |
| CV179 | | 1+507 | A1+231 | Extra-Small | 9.254 | 9.106 | | | 9 | | | | | | |
| CV178 | | 1+776 | A1+497 | Extra-Small | 9.981 | 9.954 | | 9 | | | | | | | |
| CV177 | A | 2+427 | A2+138 | Extra-Small | 50.929 | 50.413 | | | | | 20.9 | | | | US/DS ends damaged and partially buried |
| | B | 2+427 | A2+138 | | 50.950 | 50.418 | | | | | 20.3 | | | | |
| CV176[2] | | 2+638 | A2+349 | Small | 51.346 | 51.023 | | 10.8 | | | | | | | |
| CV175[7] | | 2+867 | A2+578 | Extra-Small | | | | | | | | | | | |
| CV174 | | 3+734 | A3+429 | Extra-Small | 55.682 | 55.397 | | | 9 | | | | | | |
| Additional[7] | | | A3+877 | Additional | 51.303 | 51.132 | | | | | 11.0 | | | | |
| Additional | | | A3+987 | Additional | 50.882 | 50.728 | | | | | 10.3 | | | | US/DS ends damaged and partially buried |
| CV173[3] | | 4+425 | A4+181 | Extra-Small | 54.044 | 53.705 | | | 12.2 | | | | | | |
| CV172[6] | | 4+722 | NA | Extra-Small | | | | | | | | | | | |
| CV171 | | 4+867 | A4+582 | Extra-Small | 52.543 | 52.031 | | | | | 11.0 | | | | |
| CV170 | | 5+267 | A4+984 | Small | 45.630 | 45.038 | | 12 | | | | | | | |
| CV169 | | 5+427 | A5+149 | Extra-Small | 46.834 | 46.541 | | | 9 | | | | | | |
| CV168[6] | | 5+882 | NA | Extra-Small | | | | | | | | | | | |
| CV167[3] | | 5+960 | A5+673 | Extra-Small | 48.592 | 47.364 | | | 15.1 | | | | | | |
| CV166[3] | A | 6+056 | A5+770 | Small | 44.239 | 43.910 | | 15.3 | | | | | | | |
| | B | 6+056 | A5+770 | | 44.172 | 44.112 | | | 15.3 | | | | | | |
| CV165[4] | | 7+038 | A6+746 | Small | 43.725 | 42.568 | 22.1 | | | | | | | | |
| CV164 | | 7+299 | A6+999 | Extra-Small | 56.994 | 56.135 | | | 18 | | | | | | |
| Additional | | | A7+249 | Additional | 52.511 | 52.357 | | | | | 10.8 | | | | |
| CV163[6] | | 7+832 | NA | Extra-Small | | | | | | | | | | | |
| CV162[2] | | 7+922 | A7+625 | Extra-Small | 43.897 | 43.569 | | 9.5 | | | | | | | US end damaged |
| CV161[2] | | 8+230 | A7+928 | Extra-Small | 40.280 | 39.643 | | | 9.9 | | | | | | |
| CV159 | | 8+407 | A8+100 | Extra-Small | 25.564 | 25.293 | | 12 | | | | | | | |
| CV158 | A | 8+648 | A8+345 | Extra-Small | 33.423 | 32.814 | | | 12 | | | | | | US end damaged |
| | B | 8+648 | A8+347 | | 34.004 | 31.212 | | | 18 | | | | | | |
| CV157 | A | 8+960 | A8+657 | Small | 37.359 | 37.018 | | 12 | | | | | | | |
| | B | 8+960 | A8+662 | | 37.357 | 37.315 | | | 12 | | | | | | Partially buried |
| CV156[6] | | 9+223 | A8+903 | Extra-Small | | | | | | | | | | | |
| CV155 | A | 9+328 | A8+997 | Extra-Small | 37.418 | 36.466 | | | | 12 | | | | | |
| | B | 9+328 | A9+003 | | 37.821 | 37.214 | | | | | 13.7 | | | | |
| | C | 9+328 | A9+003 | | 37.815 | 37.353 | | | | | 13.7 | | | | |
| Additional[7] | | | A9+145 | Additional | 33.294 | 32.947 | | | 12 | | | | | | |
| CV154 | A | 9+570 | A9+241 | Small | 30.500 | 30.154 | | | 15 | | | | | | |
| | B | 9+570 | A9+249 | | 30.662 | 30.154 | | 15 | | | | | | | |
| CV153 | A | 10+218 | A9+892 | Small | 37.332 | 37.287 | | | 12 | | | | | | Some of US/DS ends damaged but functional |
| | B | 10+218 | A9+848 | | 37.510 | 37.224 | | | 12 | | | | | | |
| | C | 10+218 | A9+849 | | 37.518 | 37.400 | | | 12 | | | | | | |
| | D | 10+218 | A9+850 | | 37.511 | 37.382 | | | 12 | | | | | | |
| | E[7] | 10+218 | NA | | | | | | NA | | | | | | Culvert ends buried and not functional |
| CV152 | A | 10+280 | A9+950 | Small | 42.678 | 41.147 | | | 22 | | | | | | Some of US/DS ends damaged but functional |
| | B | 10+280 | A9+939 | | 42.719 | 41.060 | | | 22 | | | | | | |
| | C | 10+280 | A9+940 | | 42.753 | 41.032 | | | 22 | | | | | | |
| | D | 10+280 | A9+941 | | 42.844 | 41.183 | | | 22 | | | | | | |
| | E | 10+280 | A9+943 | | 42.807 | 41.164 | | | 22 | | | | | | |
| CV151 | A | 10+460 | A10+127 | Small | 62.772 | 62.251 | | | 12 | | | | | | DS end buried |
| | B | 10+460 | A10+102 | | 62.789 | 62.307 | | | 12 | | | | | | |
| CV150 | A | 10+507 | A10+125 | Extra-Small | 63.131 | 62.515 | | | 12 | | | | | | |
| | B | 10+507 | A10+127 | | 63.216 | 62.499 | | | 12 | | | | | | |
| Additional | | | A10+441 | Additional | 61.044 | 60.704 | | | 12 | | | | | | |
| Additional | | | A10+609 | Additional | 62.864 | 62.684 | | | | 12 | | | | | DS end close to road edge |
| CV149 | | 10+954 | A10+623 | Extra-Small | 62.633 | 61.896 | | | | 12 | | | | | DS end buried |
| CV148[7] | A | 11+180 | A10+846 | Extra-Small | 66.098 | 65.793 | | | | 12 | | | | | |
| | B | 11+180 | A10+847 | | 66.004 | 65.828 | | | | 12 | | | | | |
| CV147[6] | | | A10+840 | | | | | | | | | | | | |
| CV146 | A | 11+348 | A11+014 | Small | 66.383 | 66.259 | | | 12 | | | | | | |
| | B | 11+348 | A11+017 | | 66.446 | 66.226 | | | 12 | | | | | | |
| | C | 11+348 | A11+019 | | 66.487 | 66.059 | | | 12 | | | | | | |

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**TABLE 1**

**BAFFINLAND IRON MINES CORPORATION**
**MARY RIVER PROJECT**

**MILNE INLET TOTE ROAD – SUMMARY OF AS-BUILT WATER CROSSING INSTALLATIONS AND BORROW AREA LOCATIONS FOR 2009**
**SUMMARY OF AS-BUILT TOTE ROAD CULVERT INSTALLATIONS**

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| Water Crossing No. | Culvert No. | Road Chainage (Design)[12] (m) | Road Chainage (Upgraded)[12] (m) | Water Crossing Size Classification | Culvert Invert Elevation | | Length of CSP Culverts | | | | | | Sea Containers | DFO regulated Water Crossing Modified | Comment from 2009 Tote Road Inspection |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Upstream (m) | Downstream (m) | Ø = 1.2 m (m) | Ø = 1.0 m (m) | Ø = 0.5 m (m) | Ø = 0.25 m (m) | Ø = 0.15 m (m)* | Ø = 0.10 m (m)* | | | |
| | D | 11+348 | A11+018 | | 66.410 | 66.225 | | | 12 | | | | | | |
| | E | 11+348 | A11+017 | | 66.437 | 66.205 | | | 12 | | | | | | |
| CV145[6] | | 11+208 | NA | Extra-Small | | | | | | | | | | | |
| CV144 | | 12+205 | A11+856 | Extra-Small | 83.517 | 83.426 | | | 9 | | | | | | |
| CV143[6] | | 12+236 | NA | Extra-Small | | | | | | | | | | | |
| CV142[6] | | 12+266 | NA | Extra-Small | | | | | | | | | | | |
| CV141[6] | | 12+453 | NA | Extra-Small | | | | | | | | | | | |
| CV140[6] | | 12+501 | NA | Extra-Small | | | | | | | | | | | |
| CV139[6] | | 12+679 | NA | Extra-Small | | | | | | | | | | | |
| CV138[6] | | 12+784 | NA | Extra-Small | | | | | | | | | | | |
| CV137 | | 13+042 | A12+704 | Extra-Small | 95.660 | 95.099 | | | | 12 | | | | | |
| Additional | | | A12+848 | Additional | 97.386 | 96.482 | | | | 9 | | | | | Ends partially buried and damaged |
| CV136 | | 13+425 | A13+093 | Extra-Small | 91.811 | 91.227 | | | | 18 | | | | | Ends partially buried and damaged |
| CV135 | | 13+675 | A13+327 | Extra-Small | 90.799 | 90.455 | | | | 12 | | | | | |
| CV134[7] | | 14+014 | A13+674 | Extra-Small | 81.258 | 80.464 | | | | 12 | | | | | |
| Additional | | | A13+749 | Additional | 79.198 | 78.542 | | | 12 | | | | | | |
| Additional | | | A13+851 | Additional | 79.064 | 78.526 | | | | 12 | | | | | |
| CV133 | | 14+201 | A13+859 | Extra-Small | 78.806 | 78.240 | | | | 12 | | | | | |
| Additional | | | A13+953 | Additional | 78.098 | 77.844 | | | | 9 | | | | | |
| Additional | | | A14+189 | Additional | 79.649 | 79.390 | | | 12 | | | | | | |
| Additional 09 | A | | A14+352 | Additional | NA | NA | | | | 12* | | | | | |
| | B | | A14+352 | | NA | NA | | | | 12* | | | | | |
| CV132[6] | | 14+625 | NA | Extra-Small | | | | | | | | | | | |
| CV131[3] | | 14+709 | A14+370 | Extra-Small | NA | NA | | | | 18* | | | | | |
| CV195 | | 15+008 | A14+666 | Extra-Small | 79.587 | 79.506 | | | | 18 | | | | | |
| CV130 | | 15+202 | A14+871 | Extra-Small | 79.121 | 78.794 | | | | 18 | | | | | |
| CV129 | | 15+650 | A15+310 | Large | 78.11 | 77.92 | 18 | | | | | | | | |
| CV196[6] | | 15+839 | NA | Extra-Small | | | | | | | | | | | |
| Extra-01 | | 17+020 | A16+807 | 2 Unclassified | 75.869 | 75.613 | | | 12 | | | | | | |
| CV128 | | 17+486 | A17+117 | Extra-Large | | | | | | | | | 20 | | |
| CV127[6] | | 18+279 | NA | Extra-Small | | | | | | | | | | | |
| CV126 | | 19+243 | A18+724 | Extra-Small | 76.968 | 76.740 | | | 12 | | | | | | DS end damaged |
| CV125 | A | 20+447 | A19+945 | Small | 78.560 | 78.505 | | | 15 | | | | | | |
| | B[3] | 20+447 | A19+929 | | 78.095 | 77.862 | | 15 | | | | | | | |
| CV124 | | 20+626 | A20+119 | Extra-Small | 80.254 | 80.242 | | | 9 | | | | | | |
| Additional | | | A20+509 | Additional | 83.248 | 83.165 | | | | 9 | | | | | US end damaged |
| CV123 | A | 21+399 | A20+891 | Extra-Small | 82.803 | 82.440 | | | 12 | | | | | | |
| | B | 21+399 | A20+892 | | 82.888 | 82.442 | | | 12 | | | | | | |
| Additional | | | A21+178 | Additional | 81.687 | 81.286 | | 12 | | | | | | | |
| CV122[6] | | 21+949 | NA | Extra-Small | | | | | | | | | | | |
| Additional | | | A21+808 | Additional | 90.365 | 90.344 | | | 12 | | | | | | |
| Additional | | | A22+330 | Additional | 96.351 | 96.011 | | | 9 | | | | | | Small amount of backfill material on top of culvert, US/DS ends buried |
| CV121[6] | | 23+199 | NA | Extra-Small | | | | | | | | | | | |
| Additional | | | A22+764 | Additional | 95.655 | 95.487 | | | | 6 | | | | | DS end buried |
| Additional | | | A22+900 | Additional | 91.824 | 91.377 | | | 9 | | | | | | |
| CV120 | A | 23+515 | A23+002 | Small | 86.756 | 86.721 | | | 18 | | | | | | |
| | B | 23+515 | A23+012 | | 86.803 | 86.793 | | | 18 | | | | | | |
| | C | 23+515 | A23+013 | | 86.728 | 86.686 | | | 18 | | | | | | |
| | D | 23+515 | A23+018 | | 86.547 | 86.505 | | 18 | | | | | | | |
| CV119 | | 24+264 | A23+756 | Small | 97.055 | 96.345 | | 15 | | | | | | | |
| Additional 09 | | | A24+446 | Additional | 104.270 | 103.758 | | | | | 11.8 | | | | |
| Additional[7] | | | A24+470 | Additional | 104.389 | 104.070 | | | | | | 7.6 | | | |
| Additional | | | A25+060 | Additional | 105.052 | 104.740 | | | 9 | | | | | | |
| CV197[7] | | 25+633 | A25+133 | Extra-Small | 105.959 | 105.830 | | | | | 7.5 | | | | |
| Additional | A | | A25+257 | Additional | 106.198 | 105.926 | | | | | 7.4 | | | | US/DS ends buried |
| | B | | A25+258 | | 106.239 | 105.812 | | | | | 7.3 | | | | |
| CV118[6] | | 25+878 | NA | Extra-Small | | | | | | | | | | | |
| Additional 09 | | | A25+317 | Additional | 105.888 | 105.784 | | | | 12.4 | | | | | |
| Additional | | | A25+740 | Additional | 104.724 | 104.470 | | | | 12.2 | | | | | Water Crossing modified after October 2008 |
| CV198[7] | | 26+444 | A25+939 | Extra-Small | 105.597 | 105.525 | | | | | 9.3 | | | | |
| CV199[6] | | 26+658 | NA | Extra-Small | | | | | | | | | | | |
| Additional | A | | A26+248 | Additional | 107.397 | 107.074 | | | | | 10.3 | | | | |

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**SUMMARY OF AS-BUILT TOTE ROAD CULVERT INSTALLATIONS**

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| Water Crossing No. | Culvert No. | Road Chainage (Design)[12] (m) | Road Chainage (Upgraded)[12] (m) | Water Crossing Size Classification | Culvert Invert Elevation | | Length of CSP Culverts | | | | | | Sea Containers | DFO regulated Water Crossing Modified | Comment from 2009 Tote Road Inspection |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Upstream (m) | Downstream (m) | Ø = 1.2 m (m) | Ø = 1.0 m (m) | Ø = 0.5 m (m) | Ø = 0.25 m (m) | Ø = 0.15 m (m)* | Ø = 0.10 m (m)* | | | |
| | B | | A26+248 | | 107.335 | 107.067 | | | | | 10.4 | | | | |
| CV117 | A | 27+073 | A26+584 | Small | 104.178 | 103.921 | | 12 | | | | | | | |
| | B | 27+073 | A26+581 | | 104.161 | 103.781 | | | 12 | | | | | | |
| CV116 | | 27+388 | A26+890 | Extra-Small | 102.865 | 102.834 | | | 12 | | | | | | |
| CV115 | A | 27+686 | A27+193 | Small | 104.408 | 104.380 | | | 15 | | | | | | |
| | B | 27+686 | A27+200 | | 104.004 | 103.973 | | 15 | | | | | | | |
| Additional | | | A28+244 | Additional | 108.049 | 107.639 | | | 12 | | | | | | |
| CV200[6] | | 28+938 | NA | Extra-Small | | | | | | | | | | | |
| Additional 09 | | | A28+325 | Additional | 107.642 | 107.403 | | | | | 11.6 | | | | |
| Additional | | | A28+573 | Additional | 110.846 | 110.412 | | | 9 | | | | | | |
| CV114 | | 29+647 | A29+151 | Medium | 106.904 | 106.247 | | 15 | | | | | | | |
| Additional | | | A29+223 | Additional | 109.075 | 108.752 | | | 9 | | | | | | |
| Additional | | | A29+447 | Additional | 111.172 | 110.546 | | | | | 10.4 | | | | DS end buried |
| Additional | | | A29+632 | Additional | 112.058 | 111.648 | | | 9 | | | | | | |
| CV201 | | 30+483 | A29+982 | Extra-Small | 112.606 | 112.265 | | | 9 | | | | | | |
| CV113 | A | 30+655 | A30+157 | Small | 113.243 | 112.746 | | | 15 | | | | | | |
| | B | 30+655 | A30+153 | | 113.573 | 112.878 | | | 15 | | | | | | |
| | C | 30+655 | A30+154 | | 113.713 | 112.950 | | | 12 | | | | | | |
| | D | 30+655 | A30+155 | | 113.765 | 112.911 | | | 15 | | | | | | |
| Additional 09 | | | A30+565 | Additional | 110.318 | 110.086 | | | | 12.4 | | | | | |
| | | | A30+565 | | 110.411 | 110.056 | | | | 12.4 | | | | | |
| Additional[7] | | | A30+587 | Additional | 110.397 | 109.926 | | | | | 10.3 | | | | |
| CV112 | A | 31+450 | A30+947 | Small | 112.797 | 112.427 | 15 | | | | | | | | |
| | B | 31+450 | A30+951 | | 113.029 | 112.580 | | | 15 | | | | | | |
| Additional | | | A31+410 | Additional | 118.084 | 117.551 | | | 12 | | | | | | |
| CV111 | | 31+990 | A31+489 | Medium | 115.851 | 115.017 | | 18 | | | | | | | |
| CV110 | | 32+220 | A31+726 | Extra-Small | 117.920 | 117.546 | | | 12 | | | | | | |
| Additional | | | A31+855 | Additional | 117.084 | 116.540 | | | 9 | | | | | | |
| CV109[6] | | 32+441 | NA | Extra-Small | | | | | | | | | | | |
| CV108 | | 32+513 | A31+994 | Extra-Small | 115.167 | 114.964 | | | 9 | | | | | | Sign of bank erosion |
| Additional 09 | | | A32+047 | Additional | 115.252 | 114.563 | | | | | 11.4 | | | | |
| Additional 09 | | | A32+134 | Additional | 114.045 | 112.990 | | | | | 15.0 | | | | |
| Additional | | | A32+266 | Additional | 110.478 | 110.351 | | | 12 | | | | | | |
| CV202 | | 32+825 | A32+336 | Small | 109.116 | 108.708 | | 15 | | | | | | | |
| CV107 | | 33+091 | A32+601 | Extra-Small | 111.293 | 111.198 | | | 9 | | | | | | |
| CV106 | | 33+170 | A32+681 | Small | 112.791 | 112.460 | | 15 | | | | | | | |
| CV105 | | 33+307 | A32+818 | Extra-Small | 113.481 | 113.198 | | | | | 12.4 | | | | |
| CV104 | A | 33+794 | A33+301 | Medium | 112.917 | 112.325 | 15 | | | | | | | | |
| | B | 33+794 | A33+307 | | 112.713 | 112.152 | 15 | | | | | | | | |
| CV203 | A | 34+153 | A33+665 | Small | 115.344 | 114.653 | | 12 | | | | | | | |
| | B | | A33+781 | | 109.860 | 109.599 | | | 12 | | | | | | |
| | C | | A33+782 | | 109.800 | 109.604 | | | 12 | | | | | | |
| Additional | A | | A34+039 | Additional | 110.704 | 110.650 | | | | | 13.2 | | | | |
| | B | | A34+040 | | 110.746 | 110.668 | | | | | 13.6 | | | | |
| Additional | | | A34+277 | Additional | 112.677 | 112.192 | | | | | 14.0 | | | | |
| CV204 | | 35+154 | A34+650 | Extra-Small | 113.952 | 113.656 | | | | | 12.5 | | | | |
| Additional 09 | | | A35+102 | Additional | 110.462 | 110.046 | | | | 12.5 | | | | | |
| Additional | | | A35+217 | Additional | 111.556 | 111.394 | | | 9 | | | | | | |
| Additional | | | A35+286 | Additional | 111.971 | 111.722 | | | | | 10.5 | | | | |
| CV103 | | 35+885 | A35+383 | Extra-Small | 110.650 | 110.301 | | | 8.2 | | | | | | |
| CV102 | A | 36+028 | A35+540 | Small | 113.063 | 112.454 | | 15 | | | | | | | |
| | B | 36+028 | A35+543 | | 113.065 | 112.759 | | | 15 | | | | | | |
| | C | 36+028 | A35+544 | | 113.036 | 112.771 | | | 15 | | | | | | |
| | D | 36+028 | A35+545 | | 113.026 | 112.734 | | | 15 | | | | | | |
| CV101 | | 36+954 | A36+469 | Extra-Small | 114.755 | 114.590 | | | 9 | | | | | | |
| CV100[6] | | 37+052 | NA | Extra-Small | | | | | | | | | | | |
| CV099 | A | 37+840 | A37+351 | Large | 119.76 | 119.31 | 18 | | | | | | | | |
| | B | 37+840 | A37+343 | | 120.12 | 119.61 | 21 | | | | | | | | |
| | C | 37+840 | A37+346 | | 120.14 | 119.77 | 21 | | | | | | | | |
| | D | 37+840 | A37+354 | | 121.09 | 121.12 | | | 12 | | | | | | |
| | E | 37+840 | A37+355 | | 121.11 | 121.06 | | | 12 | | | | | | |
| | F[3] | 37+840 | A37+360 | | NA | NA | | 18 | | | | | | | |
| Additional | | | A37+987 | Additional | 138.993 | 138.879 | | | 12 | | | | | | |

Knight Piésold CONSULTING

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**MARY RIVER PROJECT**

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Upstream (m) | Downstream (m) | Ø = 1.2 m (m) | Ø = 1.0 m (m) | Ø = 0.5 m (m) | Ø = 0.25 m (m) | Ø = 0.15 m (m)* | Ø = 0.10 m (m)* | | | |
| CV098 | A | 38+525 | A38+034 | Medium | 139.122 | 139.115 | | 15 | | | | | | | |
| | B[7] | 38+525 | NA | | | | | | NA | | | | | | Culvert ends buried and not functional |
| Additional | | | A38+188 | Additional | 140.867 | 140.783 | | | 9 | | | | | | |
| CV097 | | 39+028 | A38+542 | Extra-Small | 146.456 | 146.402 | | | 12 | | | | | | |
| Additional | | | A40+008 | Additional | 161.623 | 161.061 | | | | | 11.7 | | | | |
| CV096[6] | | 40+967 | NA | Extra-Small | | | | | | | | | | | |
| Additional | A[7] | | A40+522 | Additional | 146.216 | 145.394 | | | | | 11.1 | | | | |
| | B | | A40+522 | | 146.129 | 145.393 | | | | | 11.0 | | | | |
| CV095[6] | | 41+100 | NA | Extra-Small | | | | | | | | | | | |
| Additional | | | A40+675 | Additional | 142.555 | 141.634 | | | | | 12.4 | | | | |
| CV094 | A | 41+613 | A41+112 | Large | 140.464 | 139.437 | 18 | | | | | | | | |
| | B[3] | 41+613 | A41+112 | | 141.756 | 140.986 | | 15.2 | | | | | | | |
| CV093 | A | 42+216 | A41+711 | Small | 148.080 | 147.998 | | 12 | | | | | | | |
| | B[7] | 42+216 | A41+698 | | 148.644 | 148.311 | | | 12 | | | | | | Culvert ends buried and not functional |
| Additional | | | A42+274 | Additional | 150.008 | 149.429 | | | | | 11.2 | | | | |
| CV092 & CV091 | A | 42+949 | A42+445 | Medium | 147.337 | 147.048 | | 12 | | | | | | | |
| | B | 42+949 | A42+445 | | 147.720 | 147.578 | | 12 | | | | | | | |
| | C | 42+949 | A42+445 | | 147.728 | 147.631 | | 12 | | | | | | | |
| CV205[6] | | 43+871 | NA | Extra-Small | | | | | | | | | | | |
| CV090 | A | 44+832 | A44+351 | Small | 168.190 | 167.940 | | 12 | | | | | | | |
| | B | 44+832 | A44+366 | | 168.500 | 168.314 | | | 12 | | | | | | |
| CV089[6] | | 45+016 | NA | Extra-Small | | | | | | | | | | | |
| CV088 | | 45+991 | A45+506 | Extra-Small | 169.559 | 169.266 | | 9 | | | | | | | |
| CV087 | A | 46+223 | A45+741 | Medium | 168.080 | 167.836 | 12 | | | | | | | | |
| | B | 46+223 | A45+737 | | 168.085 | 167.832 | 12 | | | | | | | | |
| | C | 46+223 | A45+752 | | 168.773 | 168.306 | | | 12 | | | | | | |
| CV086[3] | | 46+300 | A45+805 | Small | 169.743 | 169.452 | | 18 | | | | | | | |
| CV085 | | 46+422 | A45+933 | Small | 165.472 | 164.747 | | 15 | | | | | | | |
| Additional 09 | | | A46+443 | Additional | 150.791 | 150.778 | | | | 12.2 | | | | | |
| CV084 | | 47+045 | A46+563 | Extra-Small | 169.910 | 169.569 | | | 12 | | | | | | |
| CV083 | | 47+643 | A47+169 | Small | 175.054 | 174.776 | | 12 | | | | | | | |
| CV206[6] | | 49+031 | NA | Extra-Small | | | | | | | | | | | |
| Additional | | | A49+014 | Additional | 174.820 | 174.817 | | | | | 11.2 | | | | |
| CV082 | A | 49+655 | A49+167 | Small | 173.216 | 173.026 | 12 | | | | | | | | Culvert partially buried |
| | B | 49+655 | A49+173 | | 173.120 | 173.068 | | | 12 | | | | | | |
| | C | 49+655 | A49+175 | | 173.141 | 173.092 | | | 12 | | | | | | |
| CV081[6] | | 49+792 | NA | Extra-Small | | | | | | | | | | | |
| CV080 | A | 49+929 | A49+436 | Extra-Small | 178.179 | 177.841 | | | | 12.3 | | | | | Water Crossing installed after October 2008 |
| | B | | A49+436 | | 178.178 | 177.714 | | | | 12.3 | | | | | |
| CV079[3] | A | 50+600 | A50+060 | Large | 148.954 | 148.864 | 15.2 | | | | | | | | |
| | B | 50+600 | A50+063 | | 148.602 | 148.493 | 15.3 | | | | | | | | |
| | C | | A50+225 | | 165.903 | 165.783 | | | | | 14.7 | | | | |
| | D | | A50+226 | | 166.760 | 165.937 | | | | | 14.8 | | | | |
| | E | | A50+112 | | 149.067 | 148.332 | | | 18.4 | | | | | | |
| | F | | A50+157 | | 148.770 | 148.590 | | | 18.3 | | | | | | |
| | G | | A50+231 | | 147.936 | 148.631 | | 18.2 | | | | | | | |
| | H | | A50+268 | | 147.883 | 147.272 | | 18.1 | | | | | | | |
| | I | | A50+270 | | 147.814 | 147.441 | | 18 | | | | | | | |
| | J | | A50+290 | | 147.715 | 147.597 | | 12.2 | | | | | | | |
| | K | | A50+306 | | 147.880 | 147.506 | 17.8 | | | | | | | | |
| CV207[8] | | 50+762 | NA | Extra-Small | | | | | | | | | | | |
| CV078 | A | 51+171 | A50+680 | Large | 165.786 | 165.702 | 15 | | | | | | | | |
| | B[3] | 51+171 | A50+657 | | 149.271 | 148.980 | | 12.1 | | | | | | | |
| | C[3] | 51+171 | A50+668 | | 148.785 | 148.463 | | 18.2 | | | | | | | |
| | D[3] | 51+171 | A50+670 | | 148.849 | 148.585 | | 18.1 | | | | | | | |
| Additional | | | A51+126 | Additional | 171.914 | 171.666 | | | | | 11.1 | | | | |
| CV077 | | 52+091 | A51+602 | Extra-Small | 165.55 | 165.23 | | 15 | | | | | | | |
| CV076 | | 53+028 | A52+536 | Small | 159.361 | 159.335 | | 15 | | | | | | | |
| CV075 | A | 53+337 | A52+842 | Small | 160.575 | 160.301 | | | 12 | | | | | | |
| | B | 53+337 | A52+829 | | 160.664 | 160.502 | | | 12 | | | | | | |
| | C | 53+337 | A52+830 | | 160.698 | 160.542 | | | 12 | | | | | | |
| | D | 53+337 | A52+831 | | 160.526 | 160.273 | | | 12 | | | | | | |
| | E | 53+337 | A52+832 | | 160.806 | 160.670 | | | 12 | | | | | | |
| Additional | | | A52+937 | Additional | 159.873 | 159.334 | | | | | 11.2 | | | | |

Knight Piésold CONSULTING

**TABLE 1**

**BAFFINLAND IRON MINES CORPORATION**
**MARY RIVER PROJECT**

**MILNE INLET TOTE ROAD – SUMMARY OF AS-BUILT WATER CROSSING INSTALLATIONS AND BORROW AREA LOCATIONS FOR 2009**
**SUMMARY OF AS-BUILT TOTE ROAD CULVERT INSTALLATIONS**

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| Water Crossing No. | Culvert No. | Road Chainage (Design)[12] (m) | Road Chainage (Upgraded)[12] (m) | Water Crossing Size Classification | Culvert Invert Elevation | | Length of CSP Culverts | | | | | | Sea Containers | DFO regulated Water Crossing Modified | Comment from 2009 Tote Road Inspection |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Upstream (m) | Downstream (m) | Ø = 1.2 m (m) | Ø = 1.0 m (m) | Ø = 0.5 m (m) | Ø = 0.25 m (m) | Ø = 0.15 m (m)* | Ø = 0.10 m (m)* | | | |
| Additional 09 | | | A53+155 | Additional | 143.726 | 143.436 | | | 12.3 | | | | | | |
| CV074 | A | 53+764 | A53+266 | Extra-Small | 143.981 | 143.561 | | | 15.1 | | | | | | Water Crossing installed after October 2008 |
| | B | | A53+266 | | 143.959 | 143.634 | | | 15.3 | | | | | | |
| CV073[6] | | 53+842 | NA | Extra-Small | | | | | | | | | | | |
| CV072 | A[3] | 53+878 | A53+343 | Large | 161.71 | 161.28 | 15 | | | | | | | | |
| | B | 53+878 | A53+345 | | 161.69 | 161.45 | 15 | | | | | | | | |
| | C | 53+878 | A53+379 | | 161.140 | 160.600 | 15 | | | | | | | | |
| Additional 09 | | | A53+435 | Additional | NA | NA | | | | | 11* | | | | |
| CV071 | | 54+144 | A53+646 | Extra-Small | 165.856 | 165.193 | | | | | 10.9 | | | | |
| CV070[6] | | 54+173 | NA | Extra-Small | | | | | | | | | | | |
| CV069[6] | | 54+669 | NA | Extra-Small | | | | | | | | | | | |
| CV068[6] | | 54+861 | NA | Extra-Small | | | | | | | | | | | |
| CV067[6] | | 55+197 | NA | Extra-Small | | | | | | | | | | | |
| CV066[6] | | 55+383 | NA | Extra-Small | | | | | | | | | | | |
| CV065[6] | | 55+401 | NA | Extra-Small | | | | | | | | | | | |
| CV064 | | 55+469 | A54+956 | Extra-Small | 175.192 | 175.014 | | | | | 11.1 | | | | |
| CV063[6] | | 55+524 | NA | Extra-Small | | | | | | | | | | | |
| CV062[6] | | 55+692 | NA | Extra-Small | | | | | | | | | | | |
| Additional[7] | | | A55+222 | Additional | 174.395 | 174.017 | | | | | 11.1 | | | | |
| Additional | | | A55+307 | Additional | 172.376 | 172.001 | | | | | 13.1 | | | | |
| Additional | | | A56+280 | Additional | 168.452 | 168.127 | | | 15.4 | | | | | | |
| Additional | | | A56+997 | Additional | 164.511 | 164.271 | | | 12.3 | | | | | | |
| CV061[6] | | 57+761 | NA | Extra-Small | | | | | | | | | | | |
| Additional | | | A57+773 | Additional | 158.890 | 158.549 | | | | | 11.3 | | | | |
| Additional | | | A57+774 | Additional | 158.887 | 158.526 | | | | | 11.1 | | | | |
| Additional | | | A57+995 | Additional | 159.491 | 159.332 | | | | | 11.0 | | | | |
| CV060 | A | 58+856 | A58+114 | Medium | 158.533 | 158.478 | | 15 | | | | | | | |
| | B | 58+856 | A58+114 | | 158.669 | 158.739 | | 15 | | | | | | | |
| CV059 | A | 59+960 | A59+217 | Small | 160.749 | 160.456 | | | 12 | | | | | | |
| | B | 59+960 | A59+216 | | 160.688 | 160.301 | | | 12 | | | | | | |
| | C | 59+960 | A59+217 | | 160.615 | 160.393 | | | 12 | | | | | | |
| | D | 59+960 | A59+218 | | 160.763 | 160.485 | | | 12 | | | | | | |
| CV058 | A | 60+523 | A59+779 | Small | 161.044 | 160.434 | | | 18 | | | | | | |
| | B | 60+523 | A59+773 | | 160.840 | 160.335 | 18 | | | | | | | | |
| CV057 | A | 60+712 | A59+970 | Small | 161.854 | 161.682 | | | 15 | | | | | | |
| | B | 60+712 | A59+966 | | 161.975 | 161.884 | | | 15 | | | | | | |
| | C | 60+712 | A59+967 | | 162.011 | 161.871 | | | 15 | | | | | | |
| Additional[7] | | | A61+052 | Additional | 165.415 | 165.075 | | | | | 11.0 | | | | |
| CV056 | | 61+810 | A61+050 | Extra-Small | 148.100 | 147.798 | | | | 12.5 | | | | | Water Crossing installed after October 2008 |
| CV055 | | 61+904 | A61+155 | Extra-Small | 162.493 | 161.945 | | | | 12.3 | | | | | Water Crossing installed after October 2009 |
| CV054 | | 62+018 | A61+262 | Extra-Small | 162.649 | 161.902 | | | | 18.5 | | | | | Water Crossing installed after October 2010 |
| CV053[6] | | 62+117 | NA | Extra-Small | | | | | | | | | | | |
| CV052[6] | | 62+332 | NA | Extra-Small | | | | | | | | | | | |
| CV051[6] | | 62+390 | NA | Extra-Small | | | | | | | | | | | |
| CV050[6] | | 62+495 | NA | Extra-Small | | | | | | | | | | | |
| Additional[7] | | | A61+929 | Additional | 148.329 | 148.194 | | | | | 11.0 | | | | |
| BG50 | A[3] | 62+804 | A62+079 | Extra-Large | 142.436 | 141.949 | 18 | | | | | | | | |
| | B | 62+804 | A62+081 | | 142.365 | 141.757 | 18 | | | | | | | | |
| | C[3] | 62+804 | A62+054 | | | | | | | | | | 13 | | |
| CV049 | A | 63+302 | A62+550 | Large | 147.410 | 147.044 | 15 | | | | | | | x | Water Crossing modified after October 2008 |
| | B | 63+302 | A62+536 | | 147.680 | 147.388 | 15 | | | | | | | | |
| | C | | A62+530 | | NA | NA | | | 12* | | | | | | Culverts installed as overflow |
| | D | | A62+530 | | NA | NA | | | 12* | | | | | | |
| | E | | A62+530 | | NA | NA | | | 12* | | | | | | |
| | F | | A62+530 | | NA | NA | | | 12* | | | | | | |
| CV048 | A | 64+312 | A63+560 | Large | 185.224 | 185.177 | 15 | | | | | | | | |
| | B | 64+312 | A63+554 | | 185.533 | 185.365 | 15 | | | | | | | | |
| CV208[6] | | 64+672 | NA | Extra-Small | | | | | | | | | | | |
| CV209[6] | | 64+847 | NA | Extra-Small | | | | | | | | | | | |
| Additional[7] | | | A65+378 | Additional | 229.495 | 229.119 | | | | | 10.8 | | | | |
| CV047 | A | 66+426 | A65+681 | Medium | 231.882 | 230.989 | 15 | | | | | | | | |
| | B | 66+426 | A65+682 | | 232.153 | 231.293 | 15 | | | | | | | | |
| CV046 | A | 66+490 | A65+747 | Small | 233.200 | 232.542 | | | 15 | | | | | | |

Knight Piésold CONSULTING

**TABLE 1**

**BAFFINLAND IRON MINES CORPORATION**
**MARY RIVER PROJECT**

**MILNE INLET TOTE ROAD – SUMMARY OF AS-BUILT WATER CROSSING INSTALLATIONS AND BORROW AREA LOCATIONS FOR 2009**
**SUMMARY OF AS-BUILT TOTE ROAD CULVERT INSTALLATIONS**

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| Water Crossing No. | Culvert No. | Road Chainage (Design)[12] (m) | Road Chainage (Upgraded)[12] (m) | Water Crossing Size Classification | Culvert Invert Elevation | | Length of CSP Culverts | | | | | | Sea Containers | DFO regulated Water Crossing Modified | Comment from 2009 Tote Road Inspection |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Upstream (m) | Downstream (m) | Ø = 1.2 m (m) | Ø = 1.0 m (m) | Ø = 0.5 m (m) | Ø = 0.25 m (m) | Ø = 0.15 m (m)* | Ø = 0.10 m (m)* | | | |
| | B | 66+490 | A65+738 | | 232.968 | 232.170 | | | 15 | | | | | | |
| | C | 66+490 | A65+739 | | 233.052 | 232.057 | | 15 | | | | | | | |
| | D | 66+490 | A65+740 | | 233.066 | 232.277 | | | 15 | | | | | | |
| | E | 66+490 | A65+741 | | 233.187 | 232.442 | | | 15 | | | | | | |
| CV045[6] | | 66+873 | NA | Extra-Small | | | | | | | | | | | |
| CV044 | | 67+036 | A66+279 | Extra-Small | 265.731 | 265.454 | | | 12.3 | | | | | | Water Crossing installed after October 2008 |
| CV043 | A | 67+469 | A66+729 | Small | 290.256 | 289.760 | | 15 | | | | | | | |
| | B | 67+469 | A66+736 | | 290.437 | 289.793 | | | 15 | | | | | | |
| | C | 67+469 | A66+737 | | 290.541 | 289.849 | | | 15 | | | | | | |
| CV042[6] | | 69+294 | NA | Extra-Small | | | | | | | | | | | |
| CV041 | | 69+369 | A68+796 | Extra-Small | 325.612 | 325.414 | | | | | 11.1 | | | | |
| Additional 09 | | | A69+866 | Additional | 311.048 | 310.649 | | | | | 11.6 | | | | |
| Additional | | | A70+613 | Additional | 289.327 | 289.096 | | | | | 9.5 | | | | |
| Additional 09 | A | | A71+090 | Additional | 276.201 | 276.023 | | | | | 15.1 | | | | |
| | B | | A71+090 | | 276.200 | 276.008 | | | | | 15.0 | | | | |
| Additional | | | A71+271 | Additional | 272.037 | 271.758 | | | | | 11.1 | | | | |
| Additional 09 | | | A71+624 | Additional | 256.776 | 256.369 | | | | 12.5 | | | | | |
| CV210 | | 71+871 | A71+718 | Extra-Small | 254.154 | 254.030 | | | | | 9.1 | | | | |
| Additional 09 | | | A71+778 | Additional | NA | 252.020 | | | | 12.5* | | | | | |
| Additional 09 | | | A71+921 | Additional | 247.845 | 247.538 | | | | 12.3 | | | | | |
| Additional | | | A71+926 | Additional | 247.623 | 246.682 | | | | | 15.8 | | | | |
| CV040 | A | 72+263 | A72+062 | Large | 235.43 | 235.24 | 15 | | | | | | | | |
| | B | 72+263 | A72+051 | | 235.45 | 235.03 | 15 | | | | | | | | |
| | C[3] | 72+263 | A72+090 | | 236.306 | 235.960 | 12.2 | | | | | | | | |
| Additional[7] | | | A72+083 | Additional | 235.69 | 236.12 | | | | | 11.0 | | | | |
| Additional[7] | | | A72+084 | Additional | 236.14 | 235.71 | | | | | 11.1 | | | | |
| CV039 | | 72+845 | A72+637 | Extra-Small | 244.400 | 244.263 | | | | | 11.1 | | | | |
| CV038 | B | | A72+731 | Extra-Small | 243.296 | 242.877 | | | | 12.4 | | | | | Water Crossing modified after October 2008 |
| | A | 72+943 | A72+734 | | 243.210 | 243.111 | | | | | 11.0 | | | | |
| Additional | | | A72+815 | Additional | 243.409 | 243.113 | | | | | 11.0 | | | | |
| Additional | | | A72+858 | Additional | 243.301 | 243.102 | | | | | 11.8 | | | | |
| CV037 | | 73+105 | A72+896 | Extra-Small | 243.789 | 243.457 | | | | | 10.9 | | | | |
| CV036[6] | | 73+351 | NA | Extra-Small | | | | | | | | | | | |
| Additional 09 | | | A73+072 | Additional | - | 239.559 | | | | | 9.0* | | | | |
| Additional 09 | | | A73+144 | Additional | 239.809 | 239.472 | | | | | 15.3 | | | | |
| Additional | | | A73+414 | Additional | 223.873 | 223.726 | | | | | 15.1 | | | | |
| CV211[6] | | 73+779 | NA | Extra-Small | | | | | | | | | | | |
| CV212 | C[3] | | A74+242 | Extra-Small | NA | NA | | 12* | | | | | | | |
| | A | 74+410 | A74+249 | | 209.924 | 209.598 | | | | | 11.1 | | | | |
| | B | 74+410 | A74+251 | | 209.986 | 209.465 | | | | | 11.1 | | | | |
| Additional | | | A74+468 | Additional | 198.526 | 198.026 | | | | | 11.1 | | | | |
| Additional | | | A74+469 | Additional | 198.535 | 197.951 | | | | | 11.2 | | | | |
| Additional | | | A74+481 | Additional | 198.876 | 198.493 | | | | | 12.9 | | | | |
| Additional 09 | | | A74+482 | Additional | 199.327 | 197.832 | | 11.9 | | | | | | | |
| Additional[7] | | | A74+484 | Additional | 198.689 | 198.106 | | | | | 12.4 | | | | |
| Additional[7] | | | A74+485 | Additional | 198.695 | 198.105 | | | | | 12.5 | | | | |
| CV033 | | 75+783 | A75+637 | Extra-Small | 212.488 | 212.218 | | | | | 14.1 | | | | |
| Additional | | | A76+360 | Additional | 168.469 | 168.064 | | | | | 11.2 | | | | |
| Additional | | | A76+361 | Additional | 168.437 | 167.864 | | | | | 11.1 | | | | |
| Additional | | | A76+508 | Additional | 156.076 | 155.671 | | | 12 | | | | | | |
| BG33 | | 77+025 | A76+996 | Extra-Small | 147.771 | 147.399 | | | 15 | | | | | | |
| CV031[6] | | 77+219 | NA | Extra-Small | | | | | | | | | | | |
| CV032[6] | | 77+343 | NA | Extra-Small | | | | | | | | | | | |
| CV030 | A | 77+506 | A77+459 | Small | 143.855 | 143.698 | | 15 | | | | | | | |
| | B | 77+506 | A77+435 | | 144.052 | 143.825 | | | 15 | | | | | | |
| BG32 | A | 78+161 | A78+123 | Large | 140.983 | 140.918 | 15 | | | | | | | | |
| | B | 78+161 | A78+130 | | 141.134 | 141.023 | 15 | | | | | | | | |
| CV213[6] | | 78+401 | NA | Extra-Small | | | | | | | | | | | |
| Additional | | | A78+408 | Additional | 144.209 | 143.955 | | | | 15 | | | | | |
| CV214 | | 78+877 | A78+837 | Extra-Small | 142.954 | 142.410 | | | 12 | | | | | | |
| Additional | | | A79+073 | Additional | 144.147 | 144.016 | | | | 12 | | | | | |
| CV215 | A | 79+572 | A79+523 | Small | 142.714 | 142.590 | | | 12 | | | | | | |
| | B | 79+572 | A79+534 | | 142.799 | 142.612 | | | 12 | | | | | | |

Knight Piésold CONSULTING

**TABLE 1**

**BAFFINLAND IRON MINES CORPORATION**
**MARY RIVER PROJECT**

**MILNE INLET TOTE ROAD – SUMMARY OF AS-BUILT WATER CROSSING INSTALLATIONS AND BORROW AREA LOCATIONS FOR 2009**
**SUMMARY OF AS-BUILT TOTE ROAD CULVERT INSTALLATIONS**

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| Water Crossing No. | Culvert No. | Road Chainage (Design)[12] (m) | Road Chainage (Upgraded)[12] (m) | Water Crossing Size Classification | Culvert Invert Elevation | | Length of CSP Culverts | | | | | | Sea Containers | DFO regulated Water Crossing Modified | Comment from 2009 Tote Road Inspection |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Upstream (m) | Downstream (m) | Ø = 1.2 m (m) | Ø = 1.0 m (m) | Ø = 0.5 m (m) | Ø = 0.25 m (m) | Ø = 0.15 m (m)* | Ø = 0.10 m (m)* | | | |
| | C | 79+572 | A79+535 | | 142.725 | 142.587 | | | 12 | | | | | | |
| | D | 79+572 | A79+536 | | 142.716 | 142.436 | | | 12 | | | | | | |
| CV217 | A | 79+915 | A79+854 | Extra-Large | 141.549 | 141.270 | 15 | | | | | | | x | |
| | B | 79+915 | A79+831 | | 141.452 | 141.147 | 15 | | | | | | | | |
| | C | 79+915 | A79+833 | | 141.554 | 141.218 | 15 | | | | | | | | |
| | D | 79+915 | NA | | | | | | | | | | 14 | | Water Crossing modified in 2009 |
| Additional | | | A80+460 | Additional | 145.785 | 145.570 | | | | | 11.2 | | | | |
| CV216 | A | 80+646 | A80+591 | Large | 142.710 | 142.656 | 15 | | | | | | | | |
| | B | 80+646 | A80+580 | | 143.048 | 142.947 | 15 | | | | | | | | |
| | C | 80+646 | A80+582 | | 143.057 | 142.922 | 15 | | | | | | | | |
| Additional | | | A80+988 | Additional | 146.303 | 146.236 | | | | | 10.4 | | | | |
| Additional[7] | | | A81+375 | Additional | 147.018 | 146.809 | | | | 9 | | | | | |
| Additional 09 | | | A81+379 | Additional | 146.467 | 146.086 | | | 12.2 | | | | | | |
| Additional | | | A81+513 | Additional | 148.032 | 147.833 | | | | 9 | | | | | |
| BG31 | | 82+076 | A82+014 | Extra-Small | 151.687 | 150.683 | | | 12 | | | | | | |
| Additional | | | A82+473 | Additional | 164.399 | 163.945 | | | | 12.5 | | | | | Water Crossing modified after October 2008 |
| Additional 09 | | | A82+848 | Additional | 184.330 | 183.920 | | | 12.3 | | | | | | |
| CV023 | | 83+147 | A83+094 | Small | 181.980 | 181.779 | | 12 | | | | | | | |
| Additional 09 | | | A83+530 | Additional | NA | NA | | | | | 12* | | | | |
| Additional | | | A84+005 | Additional | 163.422 | 163.311 | | | | | 8.4 | | | | |
| Additional | | | A84+128 | Additional | 161.884 | 161.739 | | | | | 9.0 | | | | |
| Additional | | | A84+166 | Additional | 161.681 | 161.458 | | | | | 9.1 | | | | |
| BG30 | | 84+636 | A84+537 | Small | 155.219 | 154.188 | | 15 | | | | | | | |
| BG29 | | 84+805 | A84+706 | Small | 151.334 | 151.288 | | 15 | | | | | | | |
| CV022[6] | | 85+062 | NA | Extra-Small | | | | | | | | | | | |
| CV021 | | 85+079 | A84+982 | Extra-Small | 152.630 | 152.520 | | | 12 | | | | | | |
| CV020 | | 85+614 | A85+513 | Extra-Small | 163.246 | 163.183 | | | | 9 | | | | | |
| CV019[6] | | 85+763 | NA | Extra-Small | | | | | | | | | | | |
| CV018[6] | | 85+813 | NA | Extra-Small | | | | | | | | | | | |
| CV017 | | 85+891 | A85+778 | Extra-Small | 169.872 | 169.735 | | | | 9 | | | | | |
| BG28 | B | | A86+132 | Extra-Small | 159.543 | 158.815 | | | | | 11.8 | | | | Water Crossing modified after October 2008 |
| | A | 86+263 | A86+135 | | 159.345 | 158.928 | | | | 9 | | | | | |
| CV016 | | 86+434 | A86+327 | Extra-Small | 160.468 | 159.993 | | | | 9 | | | | | DS end damaged |
| BG27 | A | 86+609 | A86+499 | Small | 159.311 | 158.534 | | | 18 | | | | | | |
| | B | 86+609 | A86+493 | | 159.304 | 158.444 | | | 18 | | | | | | |
| | C | 86+609 | A86+494 | | 159.159 | 158.411 | | | 18 | | | | | | |
| CV015 | | 86+765 | A86+652 | Extra-Small | 164.217 | 163.884 | | | | | 11.1 | | | | |
| CV014 | | 86+834 | A86+719 | Extra-Small | 166.637 | 166.597 | | | | | 8.5 | | | | Water Crossing installed after October 2008 |
| CV013[6] | | 86+934 | NA | Extra-Small | | | | | | | | | | | |
| BG26[6] | | 86+978 | NA | Extra-Small | | | | | | | | | | | |
| BG25 | C | 87+054 | A86+944 | Extra-Small | 157.831 | 157.788 | | | | 12.3 | | | | | Water Crossing modified after October 2008 |
| | A[7] | 87+054 | A86+945 | | 157.714 | 157.705 | | | | | 10.0 | | | | |
| | B[7] | 87+054 | A86+945 | | 157.621 | 157.075 | | | | | 10.1 | | | | |
| CV218[6] | | 87+617 | NA | Extra-Small | | | | | | | | | | | |
| BG24 | A | 87+710 | A87+588 | Medium | 157.422 | 157.033 | 15 | | | | | | | | |
| | B | 87+710 | A87+610 | | 157.384 | 156.742 | 15 | | | | | | | | |
| | C | 87+710 | A87+612 | | 157.591 | 156.999 | 15 | | | | | | | | |
| | D[3] | | A87+585 | | 156.728 | 157.420 | 18.1 | | | | | | | | |
| BG23[6] | | 87+784 | NA | Extra-Small | | | | | | | | | | | |
| Additional | | | A87+955 | Additional | 160.996 | 160.699 | | | | | 9.4 | | | | |
| CV012[6] | | 88+171 | NA | Extra-Small | | | | | | | | | | | |
| CV011[6] | | 88+232 | NA | Extra-Small | | | | | | | | | | | |
| CV010 | | 88+316 | A88+189 | Extra-Small | 162.231 | 161.935 | | | | 9 | | | | | |
| Additional[7] | | | A88+475 | Additional | 160.480 | 160.294 | | | | | 14.3 | | | | |
| Additional[7] | | | A88+475 | Additional | 160.630 | 160.269 | | | | | 13.6 | | | | |
| Additional | | | A88+570 | Additional | 160.605 | 160.473 | | | | 9 | | | | | |
| CV009[6] | | 88+896 | NA | Extra-Small | | | | | | | | | | | |
| BG22 | | 89+275 | A89+151 | Extra-Small | 170.397 | 169.674 | | | | 9 | | | | | |
| BG21 | B | | A89+304 | Extra-Small | 163.581 | 162.847 | | | | | 15.3 | | | | Water Crossing modified after October 2008 |
| | A[7] | 89+415 | A89+307 | | 163.162 | 163.108 | | | | 9 | | | | | |
| BG20 | | 89+512 | A89+389 | Extra-Small | 163.023 | 162.460 | | | | 9 | | | | | |
| CV008 | | 89+696 | A89+557 | Extra-Small | 161.934 | 161.764 | | | | 9 | | | | | |
| BG19 | | 89+815 | A89+671 | Extra-Small | 162.338 | 162.162 | | | | 12 | | | | | |

Knight Piésold CONSULTING

**TABLE 1**

**BAFFINLAND IRON MINES CORPORATION**
**MARY RIVER PROJECT**

**MILNE INLET TOTE ROAD – SUMMARY OF AS-BUILT WATER CROSSING INSTALLATIONS AND BORROW AREA LOCATIONS FOR 2009**
**SUMMARY OF AS-BUILT TOTE ROAD CULVERT INSTALLATIONS**

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| Water Crossing No. | Culvert No. | Road Chainage (Design)[12] (m) | Road Chainage (Upgraded)[12] (m) | Water Crossing Size Classification | Culvert Invert Elevation | | Length of CSP Culverts | | | | | | Sea Containers | DFO regulated Water Crossing Modified | Comment from 2009 Tote Road Inspection |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Upstream (m) | Downstream (m) | Ø = 1.2 m (m) | Ø = 1.0 m (m) | Ø = 0.5 m (m) | Ø = 0.25 m (m) | Ø = 0.15 m (m)* | Ø = 0.10 m (m)* | | | |
| Additional 09 | | | A89+780 | Additional | 161.057 | 160.711 | | 12.3 | | | | | | | |
| Additional 09 | | | A89+905 | Additional | 161.409 | 160.922 | | | | 15.3 | | | | | |
| BG18[5][7] | | 90+092 | NA | Extra-Small | | | | | | 12 | | | | | |
| BG17 | A | 90+167 | A90+016 | Large | 158.11 | 157.80 | 15 | | | | | | | x | Water Crossing modified after October 2008 |
| | C | | A90+017 | | 159.756 | 159.525 | | | 12.3 | | | | | | Culvert installed as overflow |
| | B | 90+167 | A90+019 | | 158.00 | 157.73 | 15 | | | | | | | | |
| BG16[7] | | 90+218 | A90+068 | Extra-Small | NA | NA | | | NA | | | | | | Culvert buried and not functional |
| BG15 | | 90+331 | A90+185 | Extra-Small | 161.533 | 160.772 | | | | 12 | | | | | |
| BG14 | A | 90+389 | A90+246 | Extra-Small | 161.34 | 160.85 | | | | 12 | | | | | Water Crossing modified after October 2008 |
| | B | | A90+247 | | 161.252 | 161.112 | | | | 15.3 | | | | | |
| Additional | | | A90+338 | Additional | 162.939 | 162.458 | | | | 12 | | | | | |
| CV007 | | 90+670 | A90+510 | Extra-Small | 161.368 | 161.260 | | | | 12 | | | | | |
| BG13 | | 90+995 | A90+846 | Extra-Small | 161.993 | 161.598 | | | | 12 | | | | | |
| Additional 09 | | | A90+936 | Additional | 162.939 | NA | | | | 10.2* | | | | | |
| CV006[6] | | 91+092 | NA | Extra-Small | | | | | | | | | | | |
| BG12[6] | | 91+394 | NA | Extra-Small | | | | | | | | | | | |
| CV005[6] | | 91+513 | NA | Extra-Small | | | | | | | | | | | |
| BG11 | | 91+601 | A91+430 | Extra-Small | 172.201 | 171.593 | | | | 12 | | | | | |
| BG10[6] | | 91+705 | NA | Extra-Small | | | | | | | | | | | |
| BG09[6] | | 91+890 | NA | Extra-Small | | | | | | | | | | | |
| CV219 | | 92+093 | A91+949 | Extra-Small | 162.986 | 162.832 | | | | | 9.9 | | | | |
| CV220[6] | | 92+207 | NA | Extra-Small | | | | | | | | | | | |
| CV221[6] | | 92+288 | NA | Extra-Small | | | | | | | | | | | |
| BG08 | | 92+514 | A92+335 | Extra-Small | 160.767 | 160.308 | | | | 18.3 | | | | | Water Crossing installed after October 2008 |
| CV004 | A | 92+660 | A92+477 | Extra-Small | 162.725 | 162.425 | | | | | 9.9 | | | | Water Crossing modified after October 2008 |
| | B | | A92+486 | | 161.265 | 160.968 | | | | 18.3 | | | | | |
| CV003[6] | | 92+908 | NA | Extra-Small | | | | | | | | | | | |
| BG07 | | 93+123 | A92+955 | Extra-Small | 162.453 | 161.705 | | | 12.3 | | | | | | Water Crossing modified after October 2008 |
| CV002 | | 93+199 | A93+022 | Extra-Small | 165.485 | 165.298 | | | | | 9.6 | | | | |
| Additional 09 | | | A93+439 | Additional | 163.447 | 163.217 | | | | | 11.6 | | | | |
| Additional[7] | | | A93+492 | Additional | 164.790 | 164.714 | | | | | 11.2 | | | | |
| Additional | | | A93+782 | Additional | 167.495 | 164.429 | | | | | 9.7 | | | | |
| BG04 | A | 94+148 | A93+992 | Medium | 163.785 | 163.648 | 15 | | | | | | | | |
| | B | 94+148 | A93+993 | | 163.570 | 163.463 | 15 | | | | | | | | |
| CV001[3] | A | 94+728 | A94+347 | Small | 165.199 | 164.878 | | | 15.2 | | | | | | |
| | B | 94+728 | A94+349 | | 165.010 | 164.771 | | 15.3 | | | | | | | |
| | C | 94+728 | A94+350 | | 165.262 | 164.887 | | | 15.3 | | | | | | |
| CV222 | | 95+216 | A95+073 | Extra-Small | 166.006 | 165.736 | | | | | 14.7 | | | | Water Crossing installed after October 2008 |
| BG03 | | 95+735 | A95+585 | Extra-Small | 164.307 | 163.840 | | | | 18 | | | | | |
| BG02[6] | | 96+041 | NA | Extra-Small | | | | | | | | | | | |
| Additional | | | A96+817 | Additional | 153.743 | 153.309 | | | | | 13.9 | | | | |
| CV223 | A | 97+155 | A97+007 | Extra-Large | | | | | | | | | 16 | | |
| | B | 97+155 | A96+981 | | 151.827 | 151.314 | 15 | | | | | | | | |
| | C | 97+155 | A96+983 | | 151.792 | 151.337 | 15 | | | | | | | | |
| | D | 97+155 | A96+985 | | 151.859 | 151.313 | 15 | | | | | | | | |
| | E | 97+155 | A97+072 | | 152.629 | 152.615 | 15 | | | | | | | | |
| | F | 97+155 | A97+074 | | 152.784 | 152.669 | 15 | | | | | | | | |
| Additional | | | A97+298 | Additional | 157.989 | 157.819 | | | | | 8.8 | | | | |
| CV224 | A | 97+758 | A97+576 | Medium | 153.289 | 153.131 | | 15 | | | | | | | |
| | B | 97+758 | A98+568 | | 153.466 | 153.317 | | 15 | | | | | | | |
| CV225 | A | 98+989 | A98+845 | Large | NA | NA | | 15 | | | | | | | |
| | B | 98+989 | A98+804 | | 151.682 | 151.505 | 18 | | | | | | | | |
| BG01[3] | A | 99+672 | A99+479 | Medium | 158.277 | 157.905 | 18.2 | | | | | | | | |
| | B | 99+672 | A99+481 | | 157.426 | 157.007 | 18.1 | | | | | | | | |
| | C | 99+672 | A99+483 | | 157.855 | 157.625 | 18.2 | | | | | | | | |
| Additional 09 | | | A100+126 | Additional | 172.306 | 172.114 | | | 12.2 | | | | | | |
| Additional 09 | | | A100+395 | Additional | 172.646 | 172.548 | | | 12.3 | | | | | | |
| Additional 09 | | | A100+652 | Additional | 172.791 | 172.785 | | | 18.3 | | | | | | |
| CV184[5] | | 101+557 | NA | Extra-Small | | | | | | | | | | | |
| CV185[5] | | 101+764 | NA | Extra-Small | | | | | | | | | | | |
| CV186[3] | A | 102+812 | A102+584 | Small | 177.712 | 177.037 | | | 15.4 | | | | | | |
| | B | 102+812 | A102+585 | | 177.447 | 176.477 | | 15.1 | | | | | | | |
| | C | 102+812 | A102+586 | Small | 177.764 | 176.995 | | | 15.2 | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Upstream (m) | Downstream (m) | Ø = 1.2 m (m) | Ø = 1.0 m (m) | Ø = 0.5 m (m) | Ø = 0.25 m (m) | Ø = 0.15 m (m)* | Ø = 0.10 m (m)* | | | |
| CV187[3] | A | 103+078 | A102+857 | Small | 180.25 | 180.002 | | | 21.1 | | | | | | |
| | B | 103+078 | A102+858 | | 180.063 | 179.829 | | 20.5 | | | | | | | |
| CV188[9] | | 104+701 | A104+485 | Extra-Small | NA | NA | | | | | | | | | |
| CV189[9] | | 105+342 | NA | Extra-Small | | | | | | | | | | | |
| CV190[9] | | 105+454 | A105+230 | Extra-Small | NA | NA | | | | | | | | | |
| CV191[9] | | 106+047 | A105+845 | Extra-Small | NA | NA | | | | | | | | | |
| CV192[9] | | 106+189 | NA | Extra-Small | | | | | | | | | | | |
| CV193[9] | | 106+216 | NA | Extra-Small | | | | | | | | | | | |
| CV194[9] | | 106+430 | NA | Extra-Small | | | | | | | | | | | |
| CVD1-1[10] | | NA | A105+575 | NA | | | | 24 | | | | | | | |
| CVD1-2[6] | | NA | NA | NA | | | | | | | | | | | |
| CVD1-3[10] | | NA | A106+173 | NA | | | | 24 | | | | | | | |
| CVD1-4[10] | | NA | A106+399 | NA | | | | 18 | | | | | | | |
| CVD1-5[10] | | NA | A106+515 | NA | | | | 18 | | | | | | | |
| CVD1-5B[10] | | NA | NA | NA | | | | 18 | | | | | | | |
| CVD1-6[10] | | NA | A106+731 | NA | | | | 18 | | | | | | | |
| CVD1-7[10] | | NA | A107+149 | NA | | | | 18 | | | | | | | |
| CVD1-8[10] | | NA | A107+430 | NA | | | | 18 | | | | | | | |
| CVD1-9[10] | | NA | A107+689 | NA | | | | 18 | | | | | | | |
| CVD1-10[10] | | NA | A108+004 | NA | | | | 18 | | | | | | | |
| CVD1-11[10] | | NA | A108+334 | NA | | | | 18 | | | | | | | |
| CVD1-12[10] | | NA | A108+618 | NA | | | | 18 | | | | | | | |
| CVD1-13[10] | | NA | A108+886 | NA | | | | 18 | | | | | | | |
| CVD1-14[10] | | NA | A109+677 | NA | | | | 18 | | | | | | | |
| CVSSR-1[10] | | NA | A105+916 | NA | | | | | NA | | | | | | |
| CVSSR-2[10] | | NA | A106+389 | NA | | | | | NA | | | | | | |

I:\1\02\00181\15\A\Correspondence\NB09-00618\[Table 1 - As-Built Crossing Installation Summary Inspection 2009_final.xls]Table 1

NOTES:

1. CULVERT LENGTH SURVEYED BY GENIVAR. LENGTHS FOLLOWED BY "*" WERE ESTIMATED BY HAND MEASUREMENT.
2. EXISTING CULVERT LENGTHENED BY ADDING EXTENSION.
3. CULVERT WITH SURVEY INFORMATION UPDATED IN 2009 BY GENIVAR.
4. EXISTING CULVERT CROSSING UNCHANGED.
5. CULVERT LOCATION NOT SURVEYED BY GENIVAR.
6. CULVERT NOT INSTALLED.
7. CULVERT NOT OBSERVED DURING 2009 TOTE ROAD INSPECTION.
8. CROSSING CV-207 AND CV-079 ARE LOCATED IN THE SAME WATER BODY (A BRAIDED STREAM).
9. CROSSINGS SUPERSEDED BY CVD1 CULVERT SERIES INSTALLED AS AND WHERE REQUIRED.
10. CULVERTS NOT INSPECTED DURING 2009 TOTE ROAD INSPECTION BECAUSE OF INACCESSIBILITY.
11. INFORMATION FOR EXTRA-SMALL CROSSINGS OBTAINED FROM GENIVAR SURVEY AND/OR KNIGHT PIESOLD CONSTRUCTION RECORDS.
12. THE ROAD CHAINAGE (DESIGN) IS THE CHAINAGE THAT WAS INCLUDED WITH THE DESIGN REPORT BASED ON THE ORIGINAL TOTE ROAD ALIGNMENT. THE ROAD CHAINAGE (UPGRADED) REFLECTS THE CHAINAGE OF THE UPGRADED TOTE ROAD.
13. "NA" INDICATES NO DATA AVAILABLE.
14. "ADDITIONAL" REFERS TO EXTRA CULVERTS INSTALLED IN 2007 TO OCTOBER 2008 BEYOND THOSE IDENTIFIED IN THE INITIAL DESIGN. "ADDITIONAL 09" REFERS TO EXTRA CULVERTS INSTALLED AFTER OCTOBER 2008 BEYOND THOSE IDENTIFIED IN THE INITIAL DESIGN, AND DOCUMENTED DURING THE 2009 TOTE ROAD INSPECTION.
15. "DFO REGULATED WATER CROSSING MODIFIED" REFERS TO DFO REGULATED WATER CROSSINGS THAT WERE MODIFIED AFTER OCTOBER 2008, AS DOCUMENTED DURING THE 2009 TOTE ROAD INSPECTION.
16. "COMMENT FROM 2009 TOTE ROAD INSPECTION" REFERS TO OBSERVATIONS MADE DURING 2009 TOTE ROAD INSPECTION.

| REV | DATE | DESCRIPTION | PREP'D | CHK'D | APP'D |
|---|---|---|---|---|---|
| 0 | 18DEC'09 | ISSUED WITH LETTER NB09-00618 | EV | RDW | SRA |