

## Search and Verification Rate (expressed in scaled man-hours)

The following comparison does not argue for diver replacement, but offers a reasonable comparison between search systems, site arrival to search completion and data transfer.

| MISSION ELEMENT   | VIDEORAY SYSTEM                        | 2-PERSON DIVE TEAM             |
|---|--|--------------------------------|
| Planning  | Comparable                             | Comparable                     |
| Load-out & Set-up   | .5 hours                               | .5 hours                       |
| System check / Pre-dive   | .25 hours                              | .25 hours                      |
| Operation   |  |                                |
| Initial hull scan & assessment<br>(VideoRay w/ BlueView)                            | .5 hours                               | Incapable <sup>1</sup>         |
| Running gear visual   | Simultaneous with above                | .5 (tandem divers combined)    |
| Identification, Localization of scanned<br>targets (VideoRay w/ Aqua Map Ship Hull) | .5 hours                               | .5 hours                       |
| Pilings & fender search   | 0. hours (included in the ship search) | .25 hours                      |
| Ship Tag-out  | Unnecessary                            | Must be completed <sup>2</sup> |
|   |  |                                |
| Contingencies:  |  |                                |
| Sub / Diver change-out  | .06 hours                              | .06                            |
| Power failure   | .06 hours                              | n/a                            |
| Communications failure  | .25                                    | .25 <sup>3</sup>               |
| <i>Total</i>  | 2.37 hours                             | 2.06                           |

\* This chart demonstrates a comparable search rate based upon completed search (identification / discrimination at 100% coverage). It is noteworthy that at the elapsed time of 1.25 hours each system has provided 100% identification and localization of the running gear, however only the VideoRay system has provided an initial hull assessment and begun the localization process.

<sup>1</sup> Dive team search does not provide initial hull scan / quick assessment

<sup>2</sup> It is understood that this could and would likely be accomplished while team in transit.

<sup>3</sup> Comparable timeliness of reporting assumes diver-topside coms, thus failure assumed here for comparison purposes.