MER Assessment Corporation		
Area of expertise	Experience	Specifics
Video monitoring	 20 years of recordings 1,800+ recordings 620 tapes 530+ hours recorded 	 Diver-held to 80 ft. or remote drop to 300 ft. Standard and high definition quality video Qualitative and quantitative video analysis Rapid DVD turn-around time of 24-48 hrs possible MER-developed icon-based video graphic allows rapid visual interpretation of video recordings
Benthic infauna	 20 years of sampling and identification 2,000+ analyses 2 taxonomists on staff 	 Sample sieving at 500µm or 1.0mm Taxonomic identification at family level, in most cases at species level 400 species identified and in inventory Statistical analyses using Primer 6 v 6.1.5, Systat 11.0, Microsoft Excel
Water chemistry	 1800+ profile records T°C/F; psu, D.O. Turbidity (NTU) Depth to 100m/300 ft 	 Data imported into Excel for statistical analysis and graphing Data imported into Ocean Data View (public sector data only) for geo-referencing for areal or bathymetric data presentation
Sediment granulometry and chemistry	 1,000+ samples processed Redox/sulfide Grain size Metals / % moisture 	 MER laboratory certified by DEP for redox-sulfide Lab ID: ME1020 Certificate No. 2008016; Exp. 4/10 Sediment granulometry subcontracted to S.W. Cole Engineering, Gray, Maine Metals – Sawyer Environmental Chemistry Research Laboratory (SECRL)
lchthyo/zooplankton sampling	 Multi-depth towing 333µm mesh nets NOAA Fisheries sampling protocol Simultaneous sampling parameters recorded 	 Zooplankton identification subcontracted to Dr. Ray Gerber, Acadia Productions, Brunswick, Maine Ichthyoplankton (fish larvae) identification subcontracted to Dr. Lou VanGuelpen, Atlantic Reference Centre (ARC), Huntsman Marine Sciences Centre, St. Andrews, N.B., Canada
Lobster sampling	 Resource assessment/ impact mitigation Morphometrics on 22,900 lobsters (1998-99) 	 Lobster relocation project – Portland Harbor 1998-99 Fishery-dependent and fishery-independent assessments of lobster resource – Casco Bay, St. Croix River Assessment of habitat quality and lobster resource
Eelgrass Zostera marina	 Delineation, habitat characterization, impact mitigation 	 Video determination of areal distribution Condition and biomass assessment Impacts causes and mitigation options assessment
Paralytic Shellfish Poisoning (PSP)	2006-2009 Intensified PSP Program	Program development and executionIntegration of multi-parametric sampling
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