

WO 59 - University of Miami Ramp Boom

Test Number	1	2	3	4	5	6	7	8	9
Oil Type	None	Calsol	None	Calsol	Calsol	Hydrocal 300	Hydrocal 300	Hydrocal 300	Hydrocal 300
Tow Speed	1	1	1.5	2	1.5	2	1.5	1.5	1.5
Summary of Events	Dry Run Towed to 1 knot seemed ok.	1 knot not fast enough for oil to travel down plane	Towed at 1.5 knots to observe what happens with oil present in first collection area. Oil stayed in first area only.	Encountered Oil did travel down ramp but did not accumulate in collection area. Oil appeared to rise beyond collection boom.	Oil appeared to travel down ramp and did accumulate in first and third collection areas. Estimated oil volume collected was 27 - 35 gal. (Oil is viscous to recover with pumps)	Oil appeared to travel down ramp and did accumulate in first and third collection areas. Total of 16 gal was estimated as collected.	Oil encountered stacked in front of pontoon. Some oil traveled down ramp. Some entered collection area through opening between pontoon and side booms	Oil encountered stacked in front of pontoon. Some oil traveled down ramp. Some entered collection area through opening between pontoon and side booms	Pontoon and ramp appeared to conform to wave condition.
Volume Distributed		67.00		49.70	49.30	44.50	55.90	68.80	72.00
Tank Number							3	4	5
Recovery Tank Depth (in)							11.50	8.00	4.00
Gross Volume Recovered							65.32	43.68	22.12
Lab Analysis - % Oil							74.00	82.00	88.00
Total Volume of Oil Recovered							48.34	35.82	19.47
Throughput Efficiency							86.47	52.06	27.04

Test Oil Data

Test Oils	Specific Gravity	Interfacial Tension (dynes / cm ²)	Surface Tension (dynes / cm ²)	Water Temperature (F)	Viscosity @ Water Temperature (cPs)
Calsol 8240	0.83	32.50	36.50	34.60	20400.00
Hydrocal 300	0.88	26-28	29-32	34.60	1000.00