

### Pump Cast: Super Station 18 Mid Cast

Pump ID	Flow S/N	Prev. End	Start (l)	End (l)	Calc. Diff
1	19008653	43731.8	43732.0	44747.5	1015.5
	21973472	7723.9	7723.8	8047.0	323.2
	19008655	66576.3	66576.4	67922.9	1346.5
2	19008629	80888.0	80888.0	82089.5	1201.5
	19008630	33700.5	33700.4	34098.9	398.5
	19008631	114159.0	114158.9	115765.0	1606.1
3	19008656	98001.8	98001.9	99174.0	1172.1
	19008657	48751.7	48751.8	49178.0	426.2
	19008658	155085.6	155085.6	156680.3	1594.7
4	19008638	47863.6	47863.6	49059.7	1196.1
	19008639	34273.9	34273.9	34707.5	433.6
	19008640	83339.7	83340.0	84988.5	1648.5
5	20007741	62840.5	62840.5	63945.5	1105.0
	20007742	47350.8	47350.8	47884.9	534.1
	20007743	111221.6	111221.6	112861.8	1640.2
6	20008125	37264.9	37265.0	37633.0	368.0
	20008126	34142.8	34142.7	35457.5	1314.8
	20008127	72522.5	72522.5	74213.0	1690.5
7	20007747	41505.2	41505.1	42690.0	1184.9
	20007748	18792.5	18792.5	19170.0	377.5
	20007749	68324.1	68324.1	69895.2	1571.1
8	20007750	83740.2	83740.2	84887.5	1147.3
	20008101	49510.8	49510.7	49860.6	349.9
	20008102	141830.2	141830.2	143340.8	1510.6
9	20001744	ND	49594.7	49597.0	2.3
	20007145	ND	26375.7	26685.8	310.1
	20007746	ND	84149.0	84452.8	303.8
10					
11					
12					

Dates Y/M/D and times in local time (and GMT)

GMT=LCL+ 7

Date 2013/11/22  
 Event 4244  
 Station 18  
 Cast 12  
 Water depth 2644m  
 Delay duration 02:15:00  
 Pump duration 04:00:00  
 Trigger time 02:42 (09:42)  
 Pumps on 04:57 (11:57)  
 Pumps off 08:57 (15:57)  
 CTD/first pump in water 02:40 (09:40)  
 Last pump in water 04:05 (11:05)  
 Time at target depth 04:21 (11:21)  
 Water below pinger No ping.  
 Messenger drop 06:57 (13:57)  
 Recovery begins 09:00 (16:00)  
 All aboard 10:23 (17:23)

**Notes**

MAPR 61 on Pump 9. (on deck)  
DBs on Pump 1.

Deployed extra pump (9) to 2610m to pick up DB-Q lost on deep cast  
Also plumbed active QMA head to pick up extra sample at 2610m

Active head loaded with two pre-filter stages to look for LSF  
(pre-filter) retention of SSF particulates.

**Post deployment download information**

Pump ID	Nisk	Nom depth	GT#	Low (rest) voltage	Error msg	Vol pumped (l)
CTD		2625	NA			
9	NA	2610	8560	35.1 (37.6)		300
1	1	2200	8561	24.8 (30.9)	batt changed	1588
2	2	2000	8562	26.3 (31.8)		1647
3	3	1800	8563	20.9 (34.4)		1647
4	4	1600	8564	26.1 (31.1)		1647
5	5	1400	8565	25.5 (30.6)		1647
6	6	1200	8566	26.5 (32.0)		1647
7	7	1000	8567	27.0 (32.8)		1647
8	8	600	8568	24.6 (30.8)	batt changed	1517